

# Koken



ENGLISH



ESPAÑOL

Koken TOOL CO., LTD.

2011



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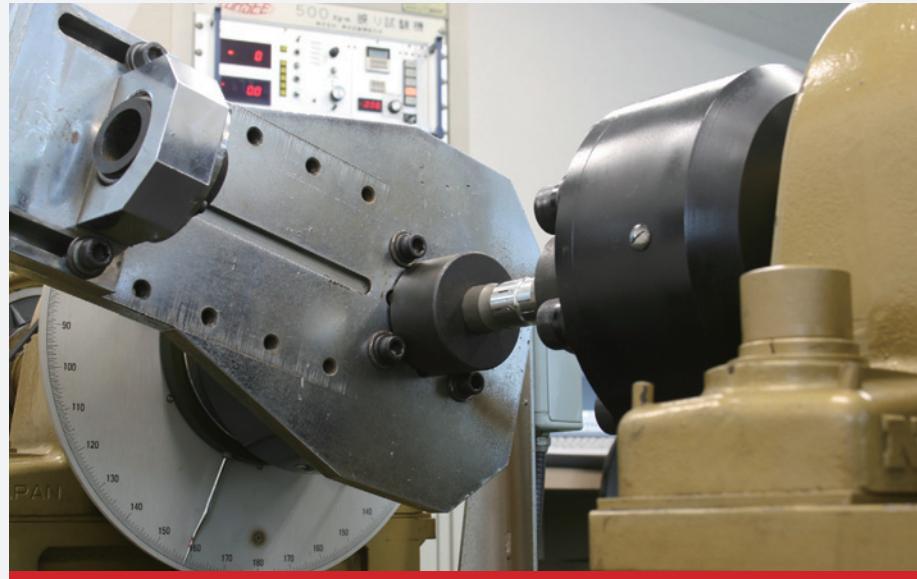




## ■ TEST AND LABORATORY

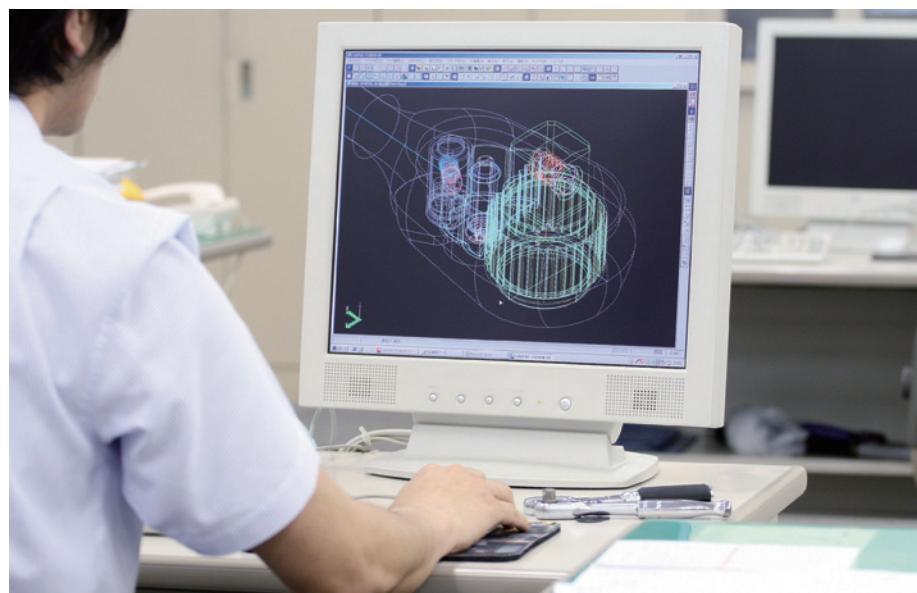
Ko-ken uses a variety of test equipment.

Strength is measured by the Static Load Test Machine that can measure torque load up to 5,000Nm. Durability is measured by the Cyclic Test Machine and corrosion resistance testing is done by the Salt Spray Test Machine. The test results are used to improve our standard products and assist with new product design and development.



## ■ DESIGN AND DEVELOPMENT

The 3D-CAD is used to improve standard products, designing new products and making customized items for special requirements. Trial products are regularly developed, manufactured and tested to improve the durability, appearance and functionality of all tools produced by Ko-ken.



## ■ FORGING PROCESS



The Forming machines are used for the forging process. These machines can produce mass quantities of sockets and parts with high accuracy that ordinary drop forging machines can not achieve. However, for small production runs, ordinary forging machines are also used.



## ■ TURNING & MARKING PROCESS



The forged steel is turned into required shapes and dimensions. The MC (Machining Center) operates with extraordinary speed and precision. The article number, size, logo, production number, and MADE IN JAPAN are marked on the products after the turning process has been completed.



## ■ HEAT TREATMENT PROCESS

To make the tools stronger and more durable, proper heat treatment is critically important. The temperature and the time of the heat treatment are strictly regulated by a very accurate control device.



## ■ INSPECTION

Our products are periodically checked at each production process by inspection devices. Highly accurate 3-D measuring instruments are used to inspect and confirm dimensions.





## SOCKETS



## FLAT DRIVE®



Flat Drive is designed to guarantee a flat surface contact between the socket and the bolt/nut.

The Flat contact reduces wear and allows to transmit a higher torque value. The Flat Drive System is also used for the square drive end as well as the hexagonal or bi-hexagonal openings of the socket.

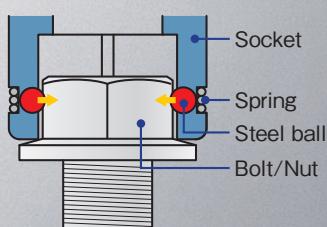
El diseño de Contacto Plano garantiza una superficie de contacto plana entre el vaso y el perno/tuerca. El contacto plano reduce el desgaste y permite transmitir un par mayor.

El Sistema de Contacto Plano se utiliza tanto para el extremo del cuadrado conductor como para la boca hexagonal o bi-hexagonal del vaso.

## NUT GRIP®



Twin balls at the 6-point opening hold bolt/nut tightly for safe and reliable work.



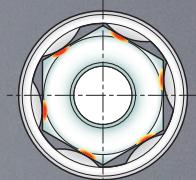
El perno/tuerca se sujetta firmemente por medio de dos bolas en la boca hexagonal para un trabajo seguro y fiable.

## SURFACE DRIVE



Surface drive sockets are designed to retain contact with flat sides of nut to transmit high torque and reduce nut wear.

These sockets are ideal for use on polished nuts, aluminum nuts and nuts with worn out points.



Los vasos de contacto curvo se diseñan para mantener el contacto con las caras planas de la tuerca y transmitir un alto par reduciendo el desgaste de la tuerca.

Estos vasos son ideales para utilizarse en tuercas pulidas, tuercas de aluminio y tuercas con puntas gastadas.

## PATHFINDER®



The beveled flats of the 6-point opening of the PATHFINDER socket engage the nut almost immediately. PATHFINDER sockets are ideal for use with power tools in automatic assembly processes, as the power tool does not have to be totally stopped for the socket to engage the nut.

Las caras biseladas de la boca hexagonal del vaso GUÍA acoplan el vaso inmediatamente.

Los vasos GUÍA son ideales para su utilización con herramientas mecánicas en procesos de montaje automáticos, ya que no es necesario que la herramienta esté completamente parada para acoplar el vaso a la tuerca.

# RATCHET HANDLE





## S.O.D.H.-System®

Two dogs are located in the ratchet body so that the dogs and springs are held securely in place while allowing the reversing lever and dog to switch smoothly. The torque load on the gear it is transmitted vertically to the dog, and in turn, down the ratchet handle. This mechanism locks gears tightly in place while torque is being applied, thus avoiding any gear slippage.

Los dos trinquetes del cuerpo de la llave de carraca y sus muelles están dispuestos en el cuerpo de la llave de forma que se mantienen firmemente en posición permitiendo un cambio suave de la palanca de inversión y del trinque.

El par sobre la rueda dentada se transmite verticalmente al trinque, y al mismo tiempo al mango de la llave de carraca. Este mecanismo bloquea firmemente los dientes mientras se aplica el par, evitando así el deslizamiento de los mismos.



## Two-Step Dog

Two flats hold two teeth of the ratchet gear, thus increasing the maximum torque load of the ratchet compared with a single-step system.

Los dientes de la rueda de la llave de carraca se inmovilizan por medio de dos dientes aumentando de esta forma el par máximo de la llave en comparación con el sistema de un paso.



## Three-Step Dog PATENTED

Two dogs are set in the same axis, and the three teeth hold the ratchet gear. The enlarged contact area produces about 10% higher torque value and the S.O.D.H.-System provides smooth and light movements.

Se disponen dos trinquetes en el mismo eje y la rueda de la llave de carraca se bloquea por medio de tres dientes. El aumento de la superficie de contacto produce un aumento del par de aproximadamente 10% y el sistema S.O.D.H. permite movimientos suaves y sin esfuerzo.



Technical Features of Ko-ken Tools



## SHAPE of HANDLE



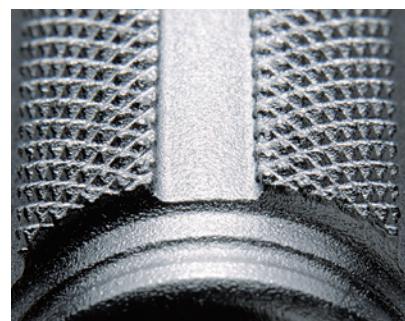
## OVAL SHAPE SHANK



Unique designed oval shape shank provides extra strength and durability.

El particular diseño de caña de sección Ovalada proporciona más resistencia y duración

## KNURLING



Ratchets and Hinge handles have knurling on the grip to ensure the tool can be held securely. Extension bars also have 6-point knurling on the outside of the female square drive. This gives a grip to hold with your fingers as well as preventing the tool from rolling on flat surfaces.

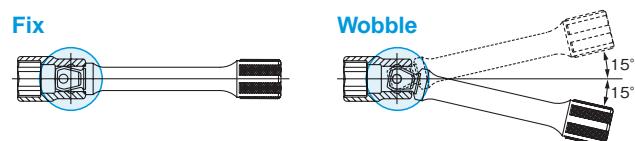


## WOBBLE-FIX



One use as a flexible extension bar permitting movement up to 15°angle and the other as a normal extension bar.

Una, como alargadera flexible que permite trabajar con un ángulo de 15° , otra, como alargadera normal.





# STUD BOLT PULLER/SETTER



## STUD BOLT PULLER



The body design was changed to hexagonal shape to minimize tolerances. This shape is also effective to lessen excessive load on cages and rollers inside the body.



## RATCHET PULLER

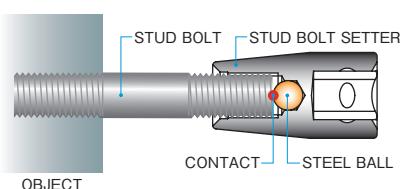


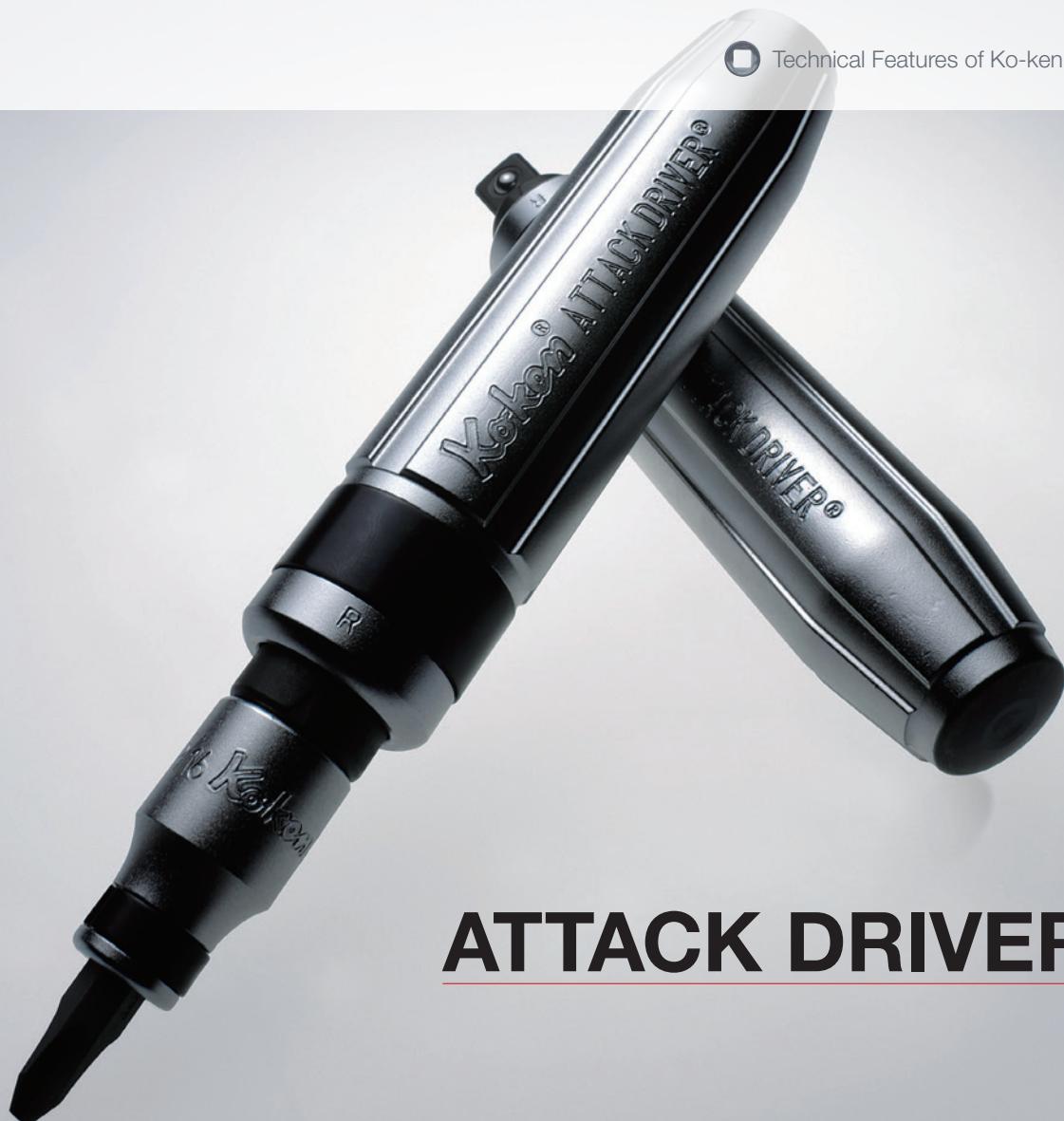
Puller for tightening stud bolts. Go-through body allows puller to grip the stud bolt at any position along the stud. Three-roller protects the bolt from damage.



## STUD BOLT SETTER

Special socket for installing a stud bolt. The bolt contacts with a steel ball to prevent the bolt from sticking onto the socket. After installing the bolt, turn anti-clockwise to remove the socket.





## ATTACK DRIVER®

### 1 BLACK FINISHED HEAD

The top of Attack Driver is manganese phosphate treated to prevent chrome peeling off the head when it is struck.



### 1 3 HEAT TREATMENT FOR ANTI-CRACK

Special Heat treatment is applied on the parts of Attack Driver. Hardness of Striking head is slightly softer to prevent cracking. The cam part has higher hardness to improve anti-wear.

### 3 SPRING

Strong spring is used to convert the striking power efficiently into twisting power.



### 2 BODY SHAPE

Original body shape allows stronger grip. It makes it easier to convert the striking power into twisting power.





## FREE-TURN GRIP



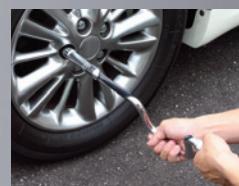
### SPINNING CROSS WRENCH

The shaft of cross wrench turns freely within the knurled grip. The cross bar is removable for easy storage in a compact space.



### FLEXIBLE SPEEDER

Free-turn grip allows speedy removal or replacement of wheel nuts. It can also be used as a hinge handle to tighten or loosen the nuts.



### SPINNING SLIDE T-HANDLE

The knurled grip is attached in the middle of shaft for free turning. Oval shaped cross bar prevents the bar from turning inside the shaft during use.



# IMPACT WHEEL NUT SOCKET



## PLASTIC PROTECTOR



A detachable plastic protector is fitted to the socket to prevent damage to the wheel when working in tight areas.

The socket size and Ko-ken Mark printed on the shaft makes it easier to see if the socket is still rotating or stopped.

## EXTRA THIN-WALLED



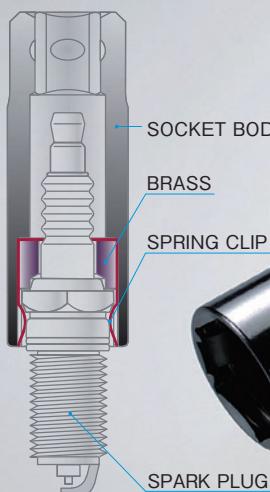
Thin-walled shape and 110mm length gives extra reach for nuts recessed deep inside the wheel.

They are ideal for aluminum wheel nuts where access to nut is very tight. Color coded shafts make size identification easy.

# SPARK PLUG SOCKET

## CLIP TYPE PATENTED

It is designed to grip a spark plug securely at its hexagonal part by two stainless spring clips. Internal brass guide holds the clips in place ensuring perfect alignment of the spark plug into the threaded plughole of the cylinder head and thus preventing thread damage. The brass guide also eliminates stress loading and possible damage to the ceramic insulator.



## License



**TORX® / TORXplus®** and **LHSTIX®** are recognized as three of the most efficient fastening systems because of their ability to transfer greater torque, reduce end load and virtually eliminate tool slippage.

**TORX® / TORXplus®** y **LHSTIX®** están reconocidos como los tres sistemas más efectivos de fijación debido a su mayor capacidad de transmitir par, reducir el par final y eliminar completamente el deslizamiento de la herramienta.

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# Koken®



Ko-ken® CO-KEN®

Koken TOOL CO., LTD. ®

HIGH PERFORMANCE TOOLS OF CONVINCING QUALITY

山下工業研究所®

山下工研®

S.O.D.H-System®

Flatdrive®

ATTACK DRIVER®

HANDY-ENDY®

PATHFINDER®

Nut Grip®

LOCK NUT BUSTER®

NUT TWISTER®

BOLT TWISTER®



## HIGH PERFORMANCE TOOLS OF CONVINCING QUALITY

### WARRANTY

The trade mark **Koken** is your unqualified warranty against any defect in material or workmanship. Each **Koken** tool is built to more than meet the requirements of its intended use and is carefully checked before leaving the factory. Any **Koken** tool which fails because of defective material or workmanship will be repaired or replaced through your **Koken** dealer, to the exclusion of any further liability.

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**Koken TOOL CO., LTD.**





## GENERAL

Consideraciones generales

- (a) Make sure you use the right type socket, whose opening fit the nut.  
Asegurarse de utilizar el tipo de vaso adecuado, con una boca que se ajuste a la tuerca.
- (b) For use on electric or air IMPACT Wrenches select IMPACT Sockets only.  
Con llaves mecánicas de IMPACTO, utilizar solamente Vasos de IMPACTO.
- (c) When using nut runners or IMPACT Wrenches wear safety goggles.  
Cuando se utilicen aprieta-tuercas mecánicos o llaves de IMPACTO, llevar siempre gafas de seguridad.
- (d) Plastic or rubber handles are not intended to act as insulation.  
Los mangos de goma o de plástico no están previstos para aislamiento
- (e) Never substitute a HAND Socket for a POWER Socket or an IMPACT Socket, or a POWER Socket for an IMPACT Socket.  
No sustituir nunca un vaso MECANICO o un vaso de IMPACTO por un vaso MANUAL, ni un vaso de IMPACTO por un vaso MECANICO.
- (f) Items in this catalogue marked can be loaded to torque values which may cause breakage. In the interest of your own safety always apply load evenly and progressively to avoid breakage and possible injury.  
Los artículos de este catálogo marcados se pueden forzar con pares que pueden causar rotura. En interés de su propia seguridad aplicar siempre el par uniforme y progresivamente para evitar la rotura y posibles lesiones.

## SOCKETS

Vasos

Sockets showing cracked walls, battered points or other marks of wear are to be replaced.

Los vasos que presenten paredes agrietadas, cantos machacados u otros signos de desgaste deben reemplazarse.

## HANDLES

Mangos

A ratchet is not a hammer

Una llave de carraca no es un martillo.

Never use loose pipes or other improvised attachments on handles for increased leverage.

No utilizar nunca tubos sueltos u otras herramientas improvisadas con los mangos para aumentar el brazo de palanca.

## EXTENSION BARS

Alargaderas

The combination of several short extensions instead of one correct sized one is to be avoided.

Debe evitarse combinar varias alargaderas cortas en lugar de una sola alargadera de longitud correcta.

## ADAPTORS

Adaptadores

Adaptors are to be used reasonably. Be reminded that high torque potentials are reached when using a "down" adaptor, a bigger sized handle to a smaller drive socket. Always stay within safe limits.

Los adaptadores se deben utilizar razonablemente. Debe tenerse en cuenta que al utilizar adaptadores "para menor diámetro", mayor mango en un vaso conductor más pequeño, se consiguen pares superiores al necesario. Mantenerse siempre dentro de límites seguros.

**1/4"**

**3/8"**

**1/2"**

**3/4"**

**1"**

# Hand Sockets

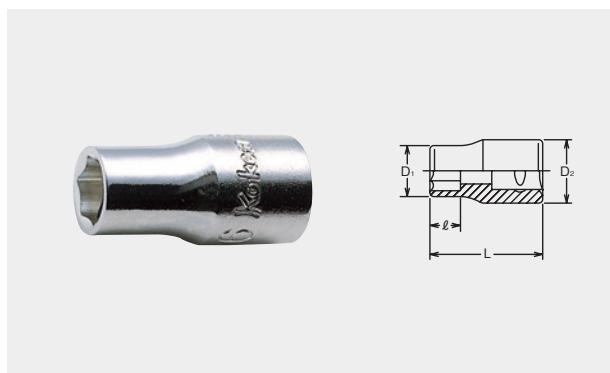


# Hand Sockets **1/4"**

HAND  
MANUALES

**2400M · 2400A**

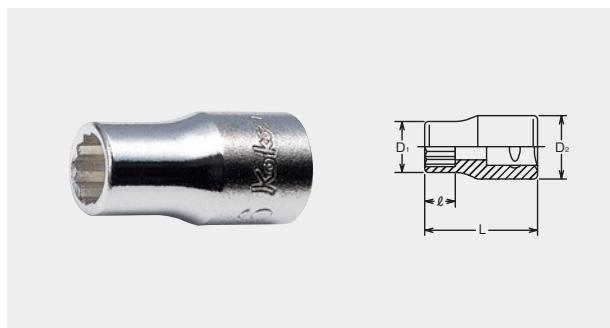
6-point Sockets  
Vasos Hexagonales



2400M 2405M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
3	5.2	11.2	3	22	7	10
4	6.7	11.2	3.8	22	8	10
4.5	7.1	11.2	4.2	22	8	10
5	7.7	11.2	5.1	22	8	10
5.5	8.3	11.2	5.5	22	9	10
6	9	11.2	5.7	22	9	10
7	10.2	11.2	6.1	22	9	10
8	11.3	12	7.3	22	11	10
9	13	12	7.5	22	12	10
10	14.3	12.9	8.2	22	15	10
11	16	14.3	9.4	22	18	10
12	17.4	16	9.6	22	23	10
13	18	16.4	10.3	22	23	10
14	19.3	17.9	11	24	30	10

**2405M · 2405A**

12-point Sockets  
Vasos Bihexagonales



2400A 2405A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
1/8	5.2	11.2	3	22	7	10
5/32	6.7	11.2	3.8	22	8	10
3/16	7.7	11.2	5.1	22	8	10
7/32	8.3	11.2	5.5	22	9	10
1/4	9.6	11.2	5.9	22	9	10
9/32	10.2	11.2	6.1	22	9	10
5/16	11.3	12	7.3	22	11	10
11/32	13	12	7.5	22	12	10
3/8	14.3	12.9	8.2	22	15	10
7/16	16	14.3	9.4	22	18	10
1/2	18	16.4	10.3	22	23	10
9/16	19.3	17.9	11	24	30	10

**RS2400M/11**

Socket Set on Rail  
Juego de Vasos en Regleta

**RS2405M/11**



**RS2400A/9**

Socket Set on Rail  
Juego de Vasos en Regleta

**RS2405A/9**



RS2400M/11	11 Pieces Set/Rail 200mm	⚖️ (g)
4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14	222	

RS2405M/11	11 Pieces Set/Rail 200mm	⚖️ (g)
4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14	222	

RS2400A/9	9 Pieces Set/Rail 150mm	⚖️ (g)
3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2	162	

RS2405A/9	9 Pieces Set/Rail 150mm	⚖️ (g)
3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2	162	

# 1/4" Hand Sockets

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN  
JUEGOS DE PIEZAS DE REPUESTO  
RENEWAL KITS

AS2405A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖ (g)	📦 (pcs.)
3/16	7.7	10.9	4.5	22	8	10
7/32	8.5	10.9	4.9	22	8	10
1/4	9.4	10.9	5.3	22	8	10
9/32	10.2	10.9	5.5	22	8	10
5/16	11.3	11.7	6.4	22	10	10
11/32	12.5	12	6.8	22	10	10
3/8	13.7	12.9	6.8	22	13	10
7/16	15.6	14.3	8.8	22	17	10
1/2	17.2	16.4	8.9	22	20	10
9/16	18.8	17.9	9.1	24	27	10

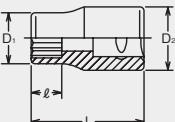
Aerospace Standard SAE AS954E  
Norma Aeroespacial SAE AS954E

RSAS2405A/10	10 Pieces Set/Rail 150mm	⚖ (g)
3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16	160	

## AS2405A



12-point Sockets, AS954E  
Vasos Bihexagonales



## RSAS2405A/10



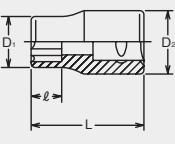
Socket Set on Rail  
Juego de Vasos en Regleta



## 2410M



Surface Drive Sockets  
Vasos Surface Drive (de Contacto Curvo)



## RS2410M/11



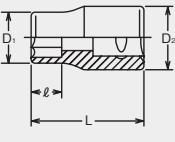
Socket Set on Rail  
Juego de Vasos en Regleta



## 2400W-BA



6-point Sockets  
Vasos Hexagonales



## RS2400W/9-BA



Socket Set on Rail  
Juego de Vasos en Regleta



2400W (BA)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖ (g)	📦 (pcs.)
8	5.8	11.2	3.4	22	7	10
7	7.1	11.2	4.2	22	8	10
6	7.7	11.2	4.6	22	8	10
5	8.3	11.2	5	22	9	10
4	9.6	11.2	5.4	22	9	10
3	10.2	11.2	6.1	22	9	10
2	11.3	12	6.8	22	11	10
1	13	12	7.5	22	12	10
0	15.1	13.6	8.2	22	16	10

RS2400W/9-BA	9 Pieces Set/Rail 150mm	⚖ (g)
8, 7, 6, 5, 4, 3, 2, 1, 0	120	

BA



BA	8BA	7BA	6BA	5BA	4BA	3BA	2BA	1BA	0BA
Across Flat (ref. mm)	3.86	4.37	4.90	5.59	6.30	7.16	8.23	9.27	10.49
(ref. inch)	0.152	0.172	0.193	0.220	0.248	0.282	0.324	0.365	0.413

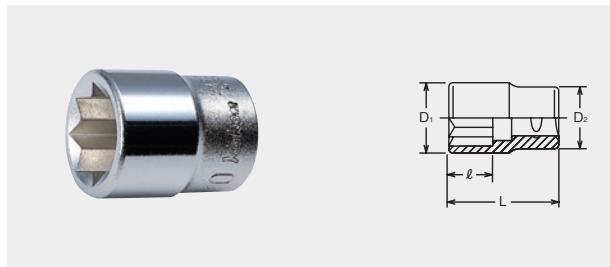
# Hand Sockets **1/4"**

HAND  
MANUALES

**2415M · 2415A**



Double Square Sockets  
Vasos Octagonales



2415M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
<b>6</b>	11.4	12	5.4	22	13	10
<b>8</b>	14.3	12.9	6.8	22	17	10
<b>10</b>	18	16.4	8.2	22	27	10

**2425**

TORX® Sockets  
Vasos TORX®



2425A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
<b>1/4</b>	11.7	12	5.4	22	14	10
<b>5/16</b>	14.3	12.9	6.8	22	17	10
<b>3/8</b>	17.4	16	8.2	22	26	10

**RS2425/6**

Socket Set on Rail  
Juego de Vasos en Regleta



2425 (E)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
<b>E 4</b>	5.4	11.2	4.6	22	7	10
<b>E 5</b>	6.7	11.2	5.2	22	8	10
<b>E 6</b>	7.7	11.2	5.4	22	8	10
<b>E 7</b>	8.3	11.2	6.6	22	9	10
<b>E 8</b>	9.6	11.2	7	22	9	10
<b>E10</b>	11.3	12	8.2	22	10	10

RS2425/6	6 Pieces Set/Rail 150mm	⚖️ (g)
<b>E4, E5, E6, E7, E8, E10</b>		85

**2450MS**

Nut Grip Sockets Nut Grip®  
Vasos Sujeta-tuerca Nut Grip®



2450MS (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
<b>7</b>	11.3	11.2	4	18	8	10
<b>8</b>	12.3	11.2	5	18	9	10
<b>10</b>	14.3	12.9	6	19	13	10
<b>12</b>	17.4	16	7	20	22	10
<b>13</b>	18	16.4	8	20	22	10
<b>14</b>	19.9	18	8.5	22	31	10

**RS2450MS/6**

Socket Set on Rail  
Juego de Vasos en Regleta

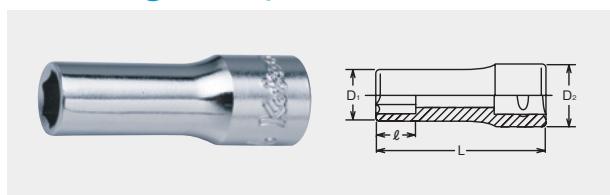


RS2450MS/6	6 Pieces Set/Rail 150mm	⚖️ (g)
<b>7, 8, 10, 12, 13, 14</b>		120

**2300X**



6-point Sockets, Semi-Deep  
Vasos Hexagonales, Medianos



2300X (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
<b>4</b>	6.7	11.2	5	32	10	10
<b>5</b>	7.7	11.2	6	32	11	10
<b>6</b>	9	11.2	7	32	12	10
<b>7</b>	10.2	11.2	8	32	13	10
<b>8</b>	11.4	12	9	32	16	10
<b>9</b>	13	12	10	32	18	10
<b>10</b>	14.3	12.9	11	32	23	10
<b>11</b>	16	14.3	12	32	27	10
<b>12</b>	17.4	16	13	32	29	10
<b>13</b>	17.9	16.4	14	32	32	10
<b>14</b>	19.3	17.9	16	32	37	10

**RS2300X/11**

Socket Set on Rail  
Juego de Vasos en Regleta



RS2300X/11	11 Pieces Set/Rail 200mm	⚖️ (g)
<b>4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14</b>		300

**TORX®** is a registered trademark of Acument Intellectual Properties, LLC.  
**TORX** es una marca registrada de Acument Intellectual Properties, LLC.

# 1/4" Hand Sockets

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

2300M 2305M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	g (g)	(pcs.)
3	5.4	12	4	50	15	10
4	6.8	12	5	50	15	10
4.5	7.1	12	5.5	50	15	10
5	8	12	6	50	17	10
5.5	8.3	12	6.5	50	17	10
6	9.3	12	7	50	20	10
7	10.9	12	8	50	25	10
8	11.6	12	9	50	25	10
9	13	12	10	50	30	10
10	14.3	12.8	11	50	34	10
11	16	14.2	12	50	43	10
12	17.4	15.5	13	50	50	10
13	18	16.2	14	50	52	10
14	19	17.1	16	50	57	10

2300A 2305A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	g (g)	(pcs.)
1/8	5.4	12	4	50	15	10
5/32	6.8	12	5	50	15	10
3/16	8	12	6	50	17	10
7/32	8.3	12	6.5	50	17	10
1/4	9.8	12	7	50	25	10
9/32	10.9	12	8	50	25	10
5/16	11.6	12	9	50	25	10
11/32	13	12	10	50	30	10
3/8	14.3	12.8	11	50	34	10
7/16	16	14.2	12	50	43	10
1/2	18	16.2	14	50	52	10
9/16	19	17.1	16	50	57	10

RS2300M/11	11 Pieces Set/Rail 200mm	g (g)
4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14		437

RS2305M/11	11 Pieces Set/Rail 200mm	g (g)
4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14		437

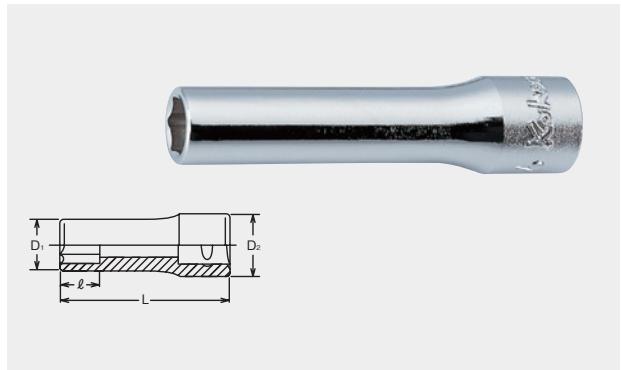
RS2300A/9	9 Pieces Set/Rail 150mm	g (g)
3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2		296

RS2305A/9	9 Pieces Set/Rail 150mm	g (g)
3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2		296

2300W (BA)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	I (mm)	L (mm)	g (g)	(pcs.)
New 4	9.8	12	7	50	25	10
New 3	10.9	12	8	50	25	10
New 2	11.6	12	9	50	25	10
New 1	13	12	10	50	30	10
New 0	15.1	13.5	12	50	38	10

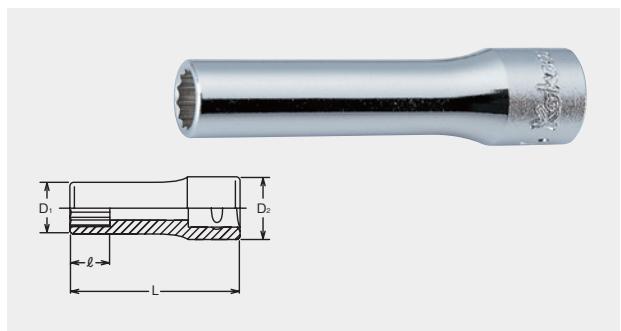
## 2300M • 2300A

6-point Deep Sockets  
Vasos Hexagonales Largos



## 2305M • 2305A

12-point Deep Sockets  
Vasos Bihexagonales Largos



## RS2300M/11

Socket Set on Rail  
Juego de Vasos en Regleta

## RS2305M/11

Socket Set on Rail  
Juego de Vasos en Regleta



## RS2300A/9

Socket Set on Rail  
Juego de Vasos en Regleta

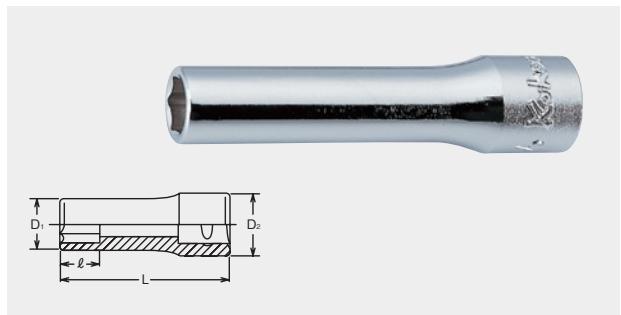
## RS2305A/9

Socket Set on Rail  
Juego de Vasos en Regleta



## 2300W-BA

6-point Deep Sockets  
Vasos Hexagonales Largos



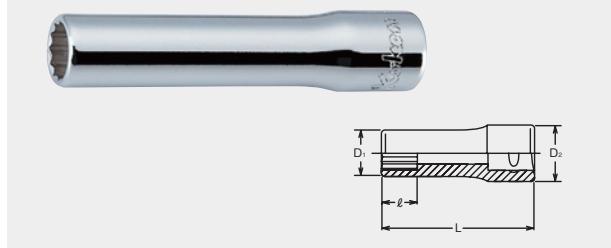
# Hand Sockets **1/4"**

HAND  
MANUALES

## AS2305A



12-point Deep Sockets, AS954E  
Vasos Bihexagonales Largos, AS954E



AS2305A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	(g)	(pcs.)
<b>3/16</b>	7.7	10.9	4.5	50	17	10
<b>7/32</b>	8.5	10.9	4.9	50	17	10
<b>1/4</b>	9.4	10.9	5.3	50	19	10
<b>9/32</b>	10.2	10.9	5.5	50	18	10
<b>5/16</b>	11.3	11.7	6.4	50	23	10
<b>11/32</b>	12.5	12	6.8	50	24	10
<b>3/8</b>	13.7	12.8	6.8	50	31	10
<b>7/16</b>	15.6	14.2	8.8	50	38	10
<b>1/2</b>	17.2	16.2	8.9	50	42	10
<b>9/16</b>	18.8	17.1	9.1	50	47	10

## RSAS2305A/10



Socket Set on Rail  
Juego de Vasos en Regleta



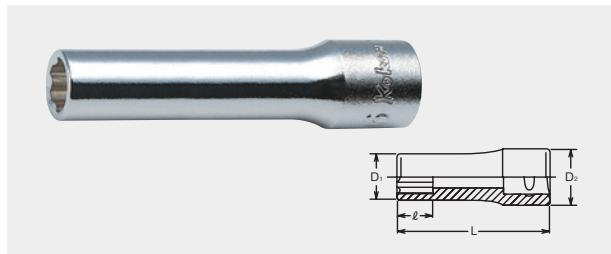
Aerospace Standard SAE AS954E  
Norma Aeroespacial SAE AS954E

RSAS2305A/10	10 Pieces set/Rail 150mm	(g)
<b>3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16</b>	307	

## 2310M



Surface Drive Deep Sockets  
Vasos Surface Drive (de Contacto Curvo) Largos



2310M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	(g)	(pcs.)
<b>3</b>	5.4	12	4	50	15	10
<b>4</b>	6.8	12	5	50	15	10
<b>4.5</b>	7.1	12	5.5	50	15	10
<b>5</b>	8	12	6	50	17	10
<b>5.5</b>	8.3	12	6.5	50	17	10
<b>6</b>	9.3	12	7	50	20	10
<b>7</b>	10.9	12	8	50	25	10
<b>8</b>	11.6	12	9	50	25	10
<b>9</b>	13	12	10	50	30	10
<b>10</b>	14.3	12.8	11	50	34	10
<b>11</b>	16	14.2	12	50	43	10
<b>12</b>	17.4	15.5	13	50	50	10
<b>13</b>	18	16.2	14	50	52	10
<b>14</b>	19	17.1	16	50	57	10

## RS2310M/11



Socket Set on Rail  
Juego de Vasos en Regleta



RS2310M/11	11 Pieces set/Rail 200mm	(g)
<b>4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14</b>	437	

## 2325



TORX® Deep Sockets  
Vasos TORX® Largos



2325 (E)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	(g)	(pcs.)
<b>E 4</b>	5.4	12	4.6	50	17	10
<b>E 5</b>	6.8	12	5.2	50	20	10
<b>E 6</b>	8	12	5.4	50	20	10
<b>E 7</b>	8.3	12	6.6	50	22	10
<b>E 8</b>	9.8	12	7	50	25	10
<b>E10</b>	11.6	12	8.2	50	29	10

## 2350M



Nut Grip Deep Sockets Nut Grip®  
Vasos Sujeta-tuerca Nut Grip®



2350M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	(g)	(pcs.)
<b>8</b>	12.3	11.2	5	50	30	10
<b>10</b>	14.2	12.9	6	50	35	10
<b>12</b>	17.3	16	7	50	55	10
<b>14</b>	19.9	18	8.5	50	70	10

# 1/4" Hand Sockets

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

2440M 2445M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	g (g)	pcs.
4	6.7	13	4.8	31.5	17	10
5	8	13	5.3	32	17	10
6	9.2	13	6.1	33	18	10
7	10.5	13	6.5	33	19	10
8	11.7	13	7	34	19	10
9	13	13	7	34	20	10
10	14.2	13	8.3	35	20	10
11	15.5	13	9.5	36	21	10
12	16.7	13	10	37	21	10
13	18	13	10.5	37	26	10
14	19.2	13	10.5	37	28	10

2440A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	g (g)	pcs.
1/4	9.8	13	6.5	33	18	10
5/16	11.7	13	7	34	19	10
3/8	13.7	13	8.3	35	20	10
7/16	15.5	13	9.5	36	21	10
1/2	18	13	10.5	37	26	10
9/16	19.2	13	10.5	37	28	10

2445A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	g (g)	pcs.
3/16	8	13	5.3	32	18	10
1/4	9.8	13	6.5	33	18	10
9/32	10.5	13	6.5	33	19	10
5/16	11.7	13	7	34	19	10
11/32	13	13	7	34	20	10
3/8	13.7	13	8.3	35	20	10
7/16	15.5	13	9.5	36	21	10
1/2	18	13	10.5	37	26	10
9/16	19.2	13	10.5	37	28	10

RS2445A/9	9 Pieces set/Rail 150mm	g (g)
New 3/16, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16	220	

AS2445A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	g (g)	pcs.
1/4	9.6	12.9	5.7	31.8	18	10
5/16	11.7	12.9	7	34.6	21	10
3/8	13.5	12.9	8.3	35.1	21	10
7/16	15.5	12.9	9.5	39.1	25	10
1/2	17.2	12.9	10.5	40.1	27	10

Aerospace Standard SAE AS954E  
Norma Aeroespacial SAE AS954E

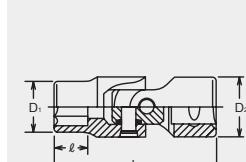
2440T (E)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	g (g)	pcs.
E 6	8	13	5.4	31.9	20	10
E 8	9.8	13	7	33.1	20	10
E10	11.7	13	8.2	33.6	21	10
E12	14.2	13	9.3	35.1	24	10

2441M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	g (g)	pcs.
7	11.3	13	4	33	19	10
8	12.3	13	5	32	19	10
10	14.5	13	6	32.5	21	10
12	16.8	13	7	34	21	10
13	18	13	8	35	21	10
14	20	13	8.5	37	28	10

## 2440M • 2440A



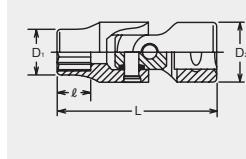
6-point Universal Sockets  
Vasos Hexagonales con Articulación Universal



## 2445M • 2445A



12-point Universal Sockets  
Vasos Bihexagonales con Articulación Universal



## RS2445A/9



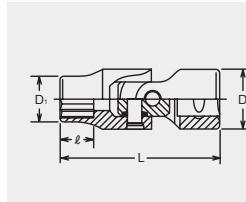
Socket Set on Rail  
Juego de Vasos en Regleta



## AS2445A



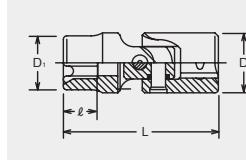
12-point Universal Sockets, AS954E  
Vasos Bihex con Articulación Universal, AS954E



## 2440T



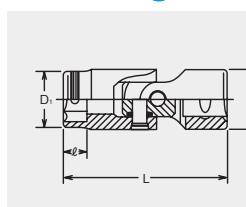
TORX® Universal Sockets  
Vasos TORX® con Articulación Universal



## 2441M



Nut Grip Universal Sockets Nut Grip®  
Vasos Sujeta-Tuerca con Articulación Universal



# Hand Sockets **1/4"**

HAND  
MANUALES

Z-SERIES  
INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO  
MULTIPLIER  
MULTIPLICADOR

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE  
CONSTRUCTION  
CONSTRUCCIÓN

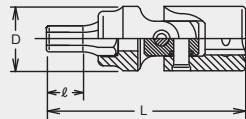
RENEWAL KITS  
MÉJICOS DE REPUESTO

**2430M**



Universal Hex Sockets

Vasos Hexagonales con Articulación Universal



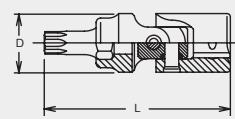
2430M (mm)	D (mm)	l (mm)	L (mm)	g (g)	(pcs.)
<b>3</b>	13	5.5	40	18	10
<b>4</b>	13	5.5	40	18	10
<b>5</b>	13	6.5	40	20	10
<b>6</b>	13	7.5	40	21	10

**2430T**



TORX® Universal Sockets

Vasos TORX® con Articulación Universal



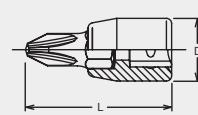
2430T (T)	D (mm)	L (mm)	g (g)	(pcs.)
<b>T 8</b>	13	42	22	10
<b>T 9</b>	13	42	22	10
<b>T10</b>	13	42	22	10
<b>T15</b>	13	42	22	10
<b>T20</b>	13	42	22	10
<b>T25</b>	13	42	22	10
<b>T27</b>	13	42	22	10
<b>T30</b>	13	42	22	10

**2000-28 (PH)**



Phillips Bit Sockets

Vasos con Punta Phillips



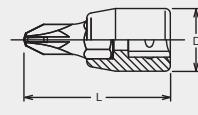
2000.28 (PH)	D (mm)	L (mm)	g (g)	(pcs.)
<b>1</b>	12	28	10	10
<b>2</b>	12	28	11	10
<b>3</b>	12	28	12	10
<b>4</b>	13.1	28	14	10

**2000-28 (PZ)**



PZ Bit Sockets

Vasos con Punta PZ



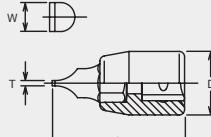
2000.28 (PZ)	D (mm)	L (mm)	g (g)	(pcs.)
<b>PZ1</b>	12	28	10	10
<b>PZ2</b>	12	28	11	10
<b>PZ3</b>	12	28	12	10

**2005-25**



Slotted Bit Sockets

Vasos con Punta Recta para Cabeza Ranurada



2005.25	TxW (mm)	D (mm)	L (mm)	g (g)	(pcs.)
<b>3</b>	0.5 x 3	12	25	9	10
<b>4</b>	0.8 x 4	12	25	10	10
<b>5</b>	1.0 x 5.5	12	25	10	10
<b>6</b>	1.2 x 6.5	13.1	25	11	10
<b>8</b>	1.2 x 8	13.1	25	12	10
<b>9</b>	1.6 x 8	13.1	25	12	10
<b>10</b>	1.6 x 10	14.3	25	13	10

# 1/4" Hand Sockets

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN  
RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

2010M.25 (mm)	D (mm)	L (mm)	(g)	(pcs.)
2.5	12	25	9	10
3	12	25	9	10
4	12	25	9	10
5	12	25	10	10
6	12	25	12	10
7	13.1	25	12	10
8	13.1	25	14	10
10	14.3	25	17	10

2010M.100 (mm)	D (mm)	L (mm)	(g)	(pcs.)
2.5	12	100	30	10
3	12	100	30	10
4	12	100	30	10
5	12	100	30	10
6	12	100	35	10
7	13.1	100	35	10
8	13.1	100	38	10
10	14.3	100	45	10

2010A.25 (inch)	D (mm)	L (mm)	(g)	(pcs.)
1/8	12	25	9	10
5/32	12	25	9	10
3/16	12	25	10	10
7/32	12	25	11	10
1/4	12	25	12	10
9/32	13.1	25	12	10
5/16	13.1	25	14	10
3/8	14.3	25	17	10

RS2010M/7-L25	7 Pieces set/Rail 150mm	(g)
3, 4, 5, 6, 7, 8, 10		115

RS2010A/8-L25	8 Pieces set/Rail 150mm	(g)
1/8, 5/32, 3/16, 7/32, 1/4, 9/32, 5/16, 3/8		130

2011M.50 (mm)	D (mm)	L (mm)	(g)	(pcs.)
New 3	12	50	16	10
New 4	12	50	17	10
New 5	12	50	18	10
New 6	12	50	18	10

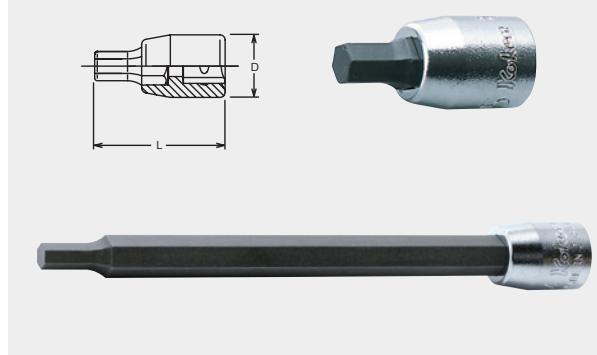
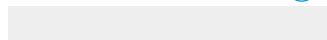
Ball point bit sockets have less strength due to the special design. Make sure to use them correctly.



## 2010M-25 · -100

## 2010A-25

Inhex Bit Sockets  
Vasos con Punta Hexagonal



## RS2010M/7-L25

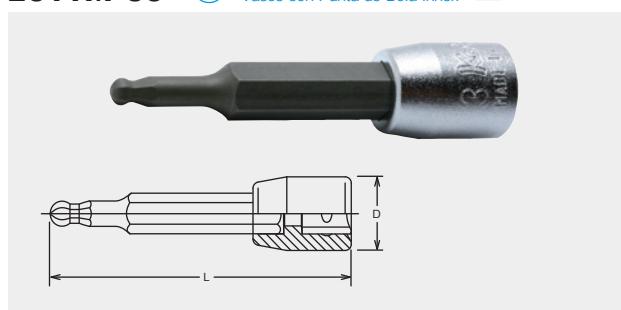
## RS2010A /8-L25

Socket Set on Rail  
Juego de Vasos en Regleta



## 2011M-50

Ballpoint Inhex Sockets  
Vasos con Punta de Bola Inhex



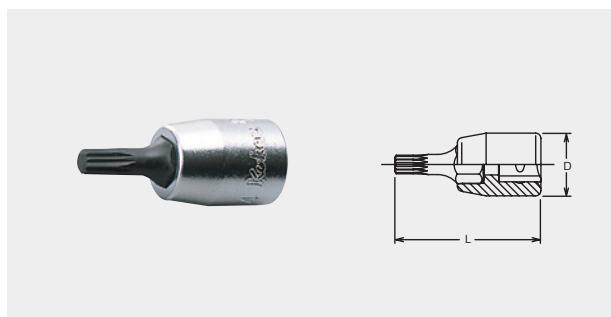
# Hand Sockets **1/4"**

HAND  
MANUALES

**2020-28 · -50**



XZN Bit Sockets  
Vasos con Punta XZN



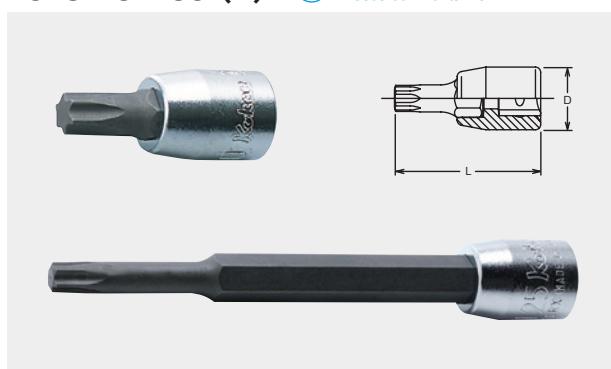
2020.28 (XZN)	D (mm)	L (mm)	(g)	(pcs.)
M4	12	28	12	10
M5	12	28	12	10
M6	12	28	13	10
M8	13.1	28	14	10

2020.50 (XZN)	D (mm)	L (mm)	(g)	(pcs.)
M4	12	50	20	10
M5	12	50	20	10
M6	12	50	22	10
M8	13.1	50	24	10

**2025-28 · -80 (T)**



TORX® Bit Sockets  
Vasos con Punta TORX®



2025.28 (T)	D (mm)	L (mm)	(g)	(pcs.)
T10	12	28	10	10
T15	12	28	10	10
T20	12	28	11	10
T25	12	28	11	10
T27	12	28	12	10
T30	12	28	12	10
T40	12	28	13	10

2025.80 (T)	D (mm)	L (mm)	(g)	(pcs.)
T10	12	80	40	10
T15	12	80	40	10
T20	12	80	42	10
T25	12	80	42	10
T27	12	80	45	10
T30	12	80	45	10
T40	12	80	50	10

TORX®

(T)



T	T8	T9	T10	T15	T20	T25	T27	T30	T40	T45	T50	T55	T60	T70	T80	T90	T100
S (ref. mm)	2.30	2.48	2.72	3.26	3.84	4.40	4.96	5.49	6.60	7.77	8.79	11.17	13.20	15.49	17.51	19.88	22.09

**RS2025/7-L28**



Socket Set on Rail  
Juego de Vasos en Regleta

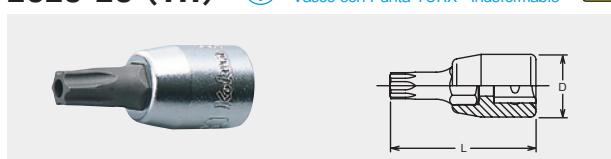


RS2025/7-L28	7 Pieces set/Rail 150mm	(g)
T10, T15, T20, T25, T27, T30, T40	119	

**2025-28 (TH)**



Tamper-Resistant TORX® Bit Sockets  
Vasos con Punta TORX® Indeformable



2025.28 (TH)	D (mm)	L (mm)	(g)	(pcs.)
T10H	12	28	10	10
T15H	12	28	10	10
T20H	12	28	11	10
T25H	12	28	11	10
T27H	12	28	12	10
T30H	12	28	12	10
T40H	12	28	13	10

**RS2025/7-HOLE**



Socket Set on Rail  
Juego de Vasos en Regleta



RS2025/7-HOLE	7 Pieces set/Rail 150mm	(g)
T10H, T15H, T20H, T25H, T27H, T30H, T40H	119	

**⚠ Tamper Resistant TORX® Bit Sockets have less strength due to special design. Make sure to use it correctly.**

**⚠ Los Vasos con Punta Indeformable TORX® tienen menos resistencia debido al diseño especial. Asegurarse de su correcta utilización.**



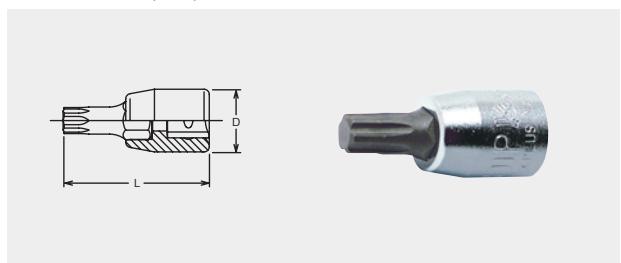
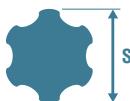
**TORX®** is a registered trademark of Acument Intellectual Properties, LLC.  
**TORX** es una marca registrada de Acument Intellectual Properties, LLC.



Hand Sockets

2025.28 (IP)	D (mm)	L (mm)	$\ddot{\text{g}}$ (g)	(pcs.)
8IP	12	28	10	10
9IP	12	28	10	10
10IP	12	28	10	10
15IP	12	28	10	10
20IP	12	28	11	10
25IP	12	28	11	10
27IP	12	28	12	10
30IP	12	28	12	10
40IP	12	28	13	10

## 2025-28 (IP)

TORX PLUS® Bit Sockets  
Vasos con Punta TORX PLUS®TORXplus®  
(IP)

IP	8IP	9IP	10IP	15IP	20IP	25IP	27IP	30IP	40IP	45IP	50IP	55IP	60IP
S (ref. mm)	2.29	2.48	2.72	3.25	3.84	4.39	4.95	5.49	6.60	7.77	8.79	11.16	13.20

## RS2025/7-IP

7 Pieces set/Rail 150mm



10IP, 15IP, 20IP, 25IP, 27IP, 30IP, 40IP

119

## RS2025/7-IP

Socket Set on Rail  
Juego de Vasos en Regleta2025.28  
(PR)

2025.28 (PR)	D (mm)	L (mm)	$\ddot{\text{g}}$ (g)	(pcs.)
8PR	12	28	10	10
9PR	12	28	10	10
10PR	12	28	10	10
15PR	12	28	10	10
20PR	12	28	11	10
25PR	12	28	11	10
27PR	12	28	12	10
30PR	12	28	12	10
40PR	12	28	13	10

Penta-Lobe  
(PR)

PR	8PR	9PR	10PR	15PR	20PR	25PR	27PR	30PR	40PR	45PR	50PR	55PR
S (ref. mm)	2.19	2.36	2.58	3.10	3.64	4.12	4.71	5.23	6.30	7.38	8.35	10.63

## RS2025/7-PR

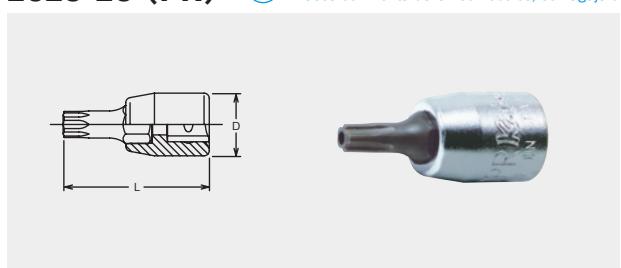
7 Pieces set/Rail 150mm



10PR, 15PR, 20PR, 25PR, 27PR, 30PR, 40PR

119

## 2025-28 (PR)

Penta-Lobe Bit Sockets, with hole  
Vasos con Punta de Cinco Lóbulos, con agujero

## RS2025/7-PR

Socket Set on Rail  
Juego de Vasos en Regleta

# Hand Sockets **1/4"**

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECANICOS

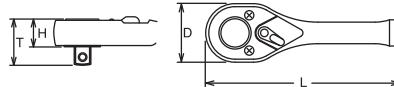
AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
MIEGOS DE REPUESTO

## 2753PS

Reversible Ratchet (Short)  
Llave de Carraca Reversible (Corta)



\* Renewal Kits → 2753RK ➔ P272

	D (mm)	T (mm)	H (mm)	L (mm)	$\frac{g}{kg}$	(pcs.)
2753PS	22	18.7	11.4	75	55	5

## 2753N

Reversible Ratchet  
Llave de Carraca Reversible



\* Renewal Kits → 2753RK ➔ P272

## 2753P

Reversible Ratchet  
Llave de Carraca Reversible



\* Renewal Kits → 2753RK ➔ P272

## 2753J

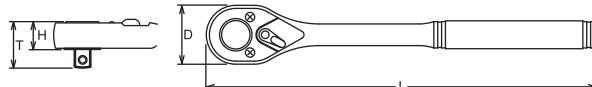
Reversible Ratchet  
Llave de Carraca Reversible



\* Renewal Kits → 2753RK ➔ P272

## 2753P-160

Reversible Ratchet (Long)  
Llave de Carraca Reversible (Larga)



\* Renewal Kits → 2753RK ➔ P272

	D (mm)	T (mm)	H (mm)	L (mm)	$\frac{g}{kg}$	(pcs.)
2753N	22	18.7	11.4	115	90	10
2753P	22	18.7	11.4	115	87	10
2753J	22	18.7	11.4	115	77	5

# 1/4" Hand Sockets

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO



\* Renewal Kits → 2753RK ➔ P272



\* Renewal Kits → 2753RK ➔ P272



\* Renewal Kits → 2753RK ➔ P272

	D (mm)	T (mm)	H (mm)	L (mm)	$\Delta$ (g)	□ (pcs.)
2753NB	22	18.7	11.4	115	90	10
2753PB	22	18.7	11.4	115	87	10
2753JB	22	18.7	11.4	115	77	5

⚠ Reversible Ratchet with quick release button has less strength compared with normal ratchet due to the technical design. Make sure to use the ratchet correctly.



\* Renewal Kits → 2752RK ➔ P272

	D (mm)	T (mm)	H (mm)	L (mm)	$\Delta$ (g)	□ (pcs.)
2752N	26.5	19.8	12.5	125	95	10



\* Renewal Kits → 2753RK ➔ P272



\* Renewal Kits → 2753RK ➔ P272

	D (mm)	T (mm)	H (mm)	L (mm)	$\Delta$ (g)	□ (pcs.)
2774PS	22	18.7	11.4	116	110	5
2774JS	22	18.7	11.4	116	113	5

## 2753NB

Reversible Ratchet with quick release button  
Llave de Carraca Reversible con botón de extracción rápida



## 2753PB

Reversible Ratchet with quick release button  
Llave de Carraca Reversible con botón de extracción rápida



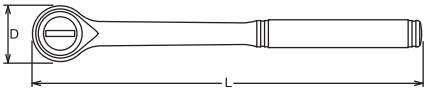
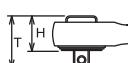
## 2753JB

Reversible Ratchet with quick release button  
Llave de Carraca Reversible con botón de extracción rápida



## 2752N

Reversible Ratchet  
Llave de Carraca Reversible



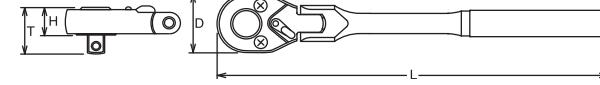
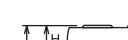
## 2774PS

Flexible Ratchet, reversible  
Llave de Carraca Flexible, Reversible



## 2774JS

Flexible Ratchet, reversible  
Llave de Carraca Flexible, Reversible



# Hand Sockets **1/4"**

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

RENEWAL KITS  
MIEGOS DE REPUESTO

**2774N** Flexible Ratchet, reversible  
Llave de Carraca Flexible, Reversible



\* Renewal Kits → 2753RK ➔ P272

**2774P** Flexible Ratchet, reversible  
Llave de Carraca Flexible, Reversible

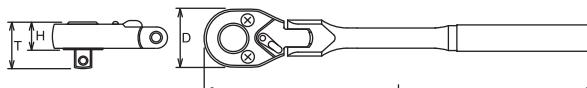


\* Renewal Kits → 2753RK ➔ P272

**2774J** Flexible Ratchet, reversible  
Llave de Carraca Flexible, Reversible



\* Renewal Kits → 2753RK ➔ P272



	D (mm)	T (mm)	H (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
2774N	22	18.7	11.4	161	130	2
2774P	22	18.7	11.4	161	126	2
2774J	22	18.7	11.4	161	130	2

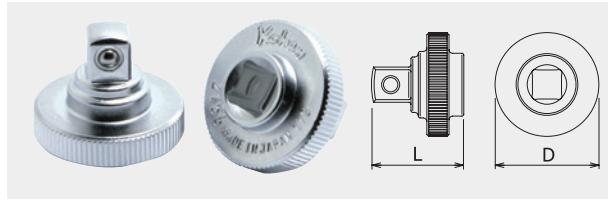
**2755** Ratchet Adaptor  
Adaptador de carraca



\* Renewal Kits → 2755RK ➔ P274

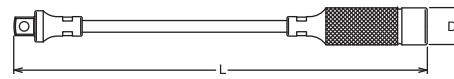
	D (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
2755	26	40	80	10

**2756** Quick Spinner  
Disco de giro rápido



	D (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
2756	22	20	19	10

**2762** Flexible Extension Bar  
Alargadera Flexible



	D (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
2762	13	300	90	2

2760	D (mm)	L (mm)	(g)	(pcs.)
28	12.3	28	14	10
50	12.3	50	23	10
100	12.3	100	44	10
150	12.3	150	63	10
200	12.3	200	83	10
250	12.3	250	103	10
300	12.3	300	122	2
350	12.3	350	145	2
400	12.3	400	160	2
600	12.3	600	240	2

PK2760/6 6 Pieces Set/一套=430g  
PLASTIC TRAY

Extension Bars				
<b>2760</b> Extension Bars 28, 50, 100, 150, 200, 250				



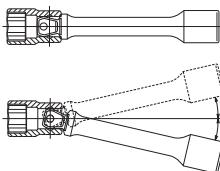
2763	D (mm)	L (mm)	(g)	(pcs.)
28	12.3	28	14	10
50	12.3	50	23	10
75	12.3	75	33	10
100	12.3	100	43	10
150	12.3	150	62	10
200	12.3	200	80	10
250	12.3	250	100	10

PK2763/6 6 Pieces Set/一套=420g  
PLASTIC TRAY

Extension Bars				
<b>2763</b> Wobble-Fix Extension Bar 28, 50, 100, 150, 200, 250				

**Wobble-Fix Extension Bar**

Two way usage : One for as a flexible extension bar to provide at 15° angle operation, the other for use as a normal extension bar. This usage is Patent.


**Alargadera Articulada-Fija**

Dos formas de utilización : Una como alargadera flexible para poder trabajar con un ángulo de 15° y otra para utilizarse como alargadera normal. Esta aplicación está patentada.

The Wobble-Fix Extension Bar has less strength than normal extension bar due to its specific design with a reduced square drive. Make sure to use it correctly.

\* Renewal Kits → 2768RK ➔ P274

\* Renewal Kits → 2768RK ➔ P274

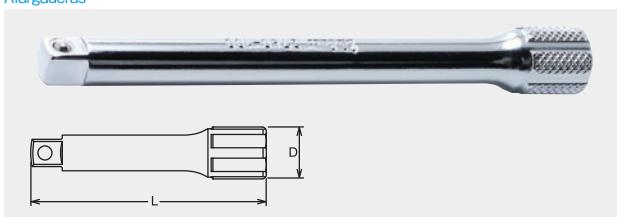
\* Renewal Kits → 2768RK ➔ P274

**2760-28 · -50 · -100 · -150 · -200 · -250 · -300 · -350 · -400 · -600**

Extension Bars

Alargaderas

PATENTED



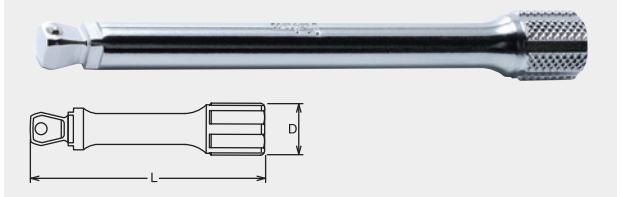
**PK2760/6** Set Juego



**2763-28 · -50 · -75 · -100 · -150 · -200 · -250**

Wobble-Fix Extension Bars  
Alargaderas Articuladas-Fijas

PATENTED



**PK2763/6** Set Juego



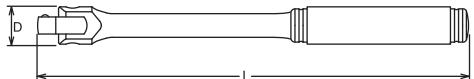
**2768N** Hinge Handle  
Mango Articulado



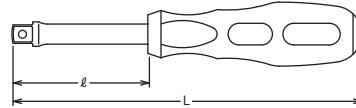
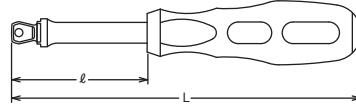
**2768P** Hinge Handle  
Mango Articulado



**2768J** Hinge Handle  
Mango Articulado



	D (mm)	L (mm)	(g)	(pcs.)
2768N	14	130	86	10
2768P	14	130	70	10
2768J	14	130	73	5

Hand Sockets **1/4"****2769N-150 · -220**Spin Type Handle  
Mango Tipo Destornillador**2769NWF-150 · -220**Spin Type Handle(Wobble-Fix)  
Mango Tipo Destornillador Articulados-Fijos

2769N	$\ell$ (mm)	L (mm)	$\text{g}$ (g)	(pcs.)
150	50	150	68	2
220	120	220	100	2

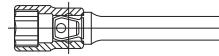
Plastic or rubber handles are not intended to act as insulation.  
Los mangos de plástico o de goma no están previstos para aislamiento.



2769NWF	$\ell$ (mm)	L (mm)	$\text{g}$ (g)	(pcs.)
150	50	150	68	2
220	120	220	100	2

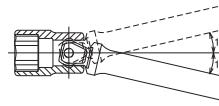
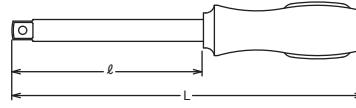
## Wobble-Fix Extension Bar

Two way usage : One for as a flexible extension bar to provide at 15° angle operation, the other for use as a normal extension bar. This usage is Patent.

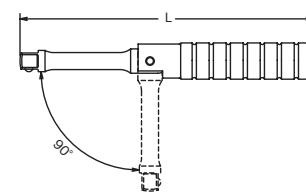


## Alargadera Articulada-Fija

Dos formas de utilización : Una como alargadera flexible para poder trabajar con un ángulo de 15° y otra para utilizarse como alargadera normal. Esta aplicación está patentada.

**2769F**Spin Type Handle  
Mango Tipo Destornillador

2769F	$\ell$ (mm)	L (mm)	$\text{g}$ (g)	(pcs.)
	78	150	90	5

**2769H**Folding Socket Driver  
Llave de Vaso Plegable

2769H	L (mm)	$\text{g}$ (g)	(pcs.)
	160	180	10

# 1/4"

Hand Sockets

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

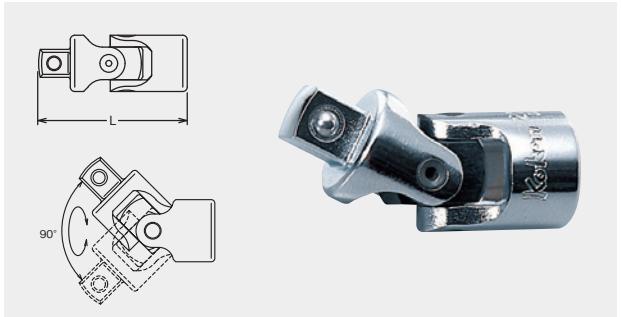
CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

	L (mm)	 (g)	 (pcs.)
2770	33	20	10
New 2771	31	20	10

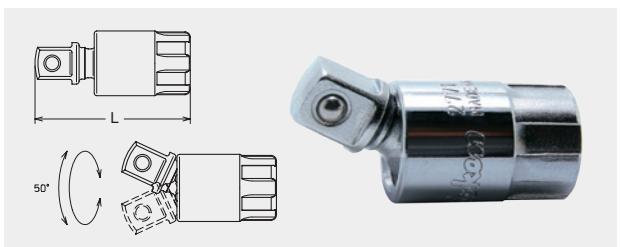
2770

Universal Joint  
Articulación Universal



2771

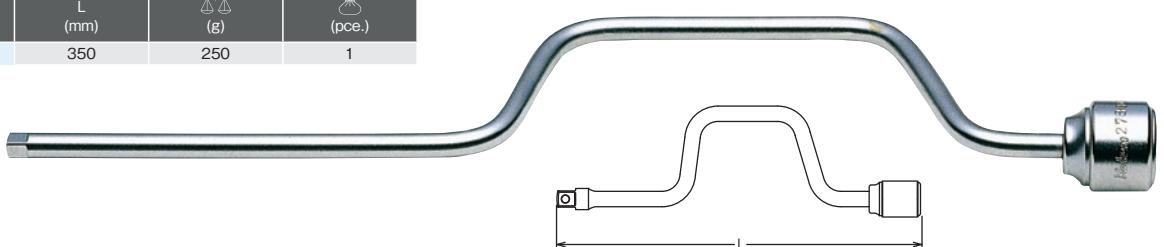
Universal Joint  
Articulación Universal



2780

Speed Handle  
Manivela Rápida

	L (mm)	 (g)	 (pce.)
2780	350	250	1



	L (mm)	 (g)	 (pcs.)
2785	115	36	10

2785

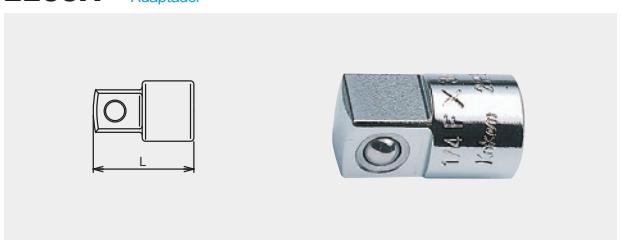
T-Handle  
Mango Corredizo



	 (sq.)	 (sq.)	L (mm)	 (g)	 (pcs.)
2233A	1/4"	3/8"	22	16	10

2233A

Adaptor  
Adaptador



# Hand Sockets **1/4"**

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

**2201AM**

Socket Set  
Juego de Vasos



**2201AM**  
METAL CASE: W240×H100×T32mm

- |   |             |
|---|-------------|
| Sockets   | Accessories |
| <b>2400M</b> 6-pt. Sockets<br>4, 5, 5.5, 6, 7, 8, 9, 10, 11,<br>12, 13              | 2753N       |
| <b>2400A</b> 6-pt. Sockets<br>3/16, 7/32, 1/4, 9/32, 5/16,<br>11/32, 3/8, 7/16, 1/2 | 2760-100    |
|   | 2769N-150   |
|   | 2770        |
|   | 2785        |

25 Pieces Set/一套=870g

**2203M · 2203A**

Socket Set  
Juego de Vasos



**2203M**  
METAL CASE: W160×H100×T28mm

- |  |             |
|--|-------------|
| Sockets  | Accessories |
| <b>2400M</b> 6-pt. Sockets<br>4, 4.5, 5, 5.5, 6, 7, 8<br>9, 10, 11, 13 | 2769H       |

12 Pieces Set/一套=550g

**2250M · 2250A**

Socket Set  
Juego de Vasos



**2250M**  
METAL CASE: W160×H100×T28mm

- |   |             |
|---|-------------|
| Sockets   | Accessories |
| <b>2400M</b> 6-pt. Sockets<br>5, 6, 7, 8, 9, 10, 11, 12 | 2753N       |
| <b>2415M</b> Double Square Sockets<br>8, 10             | 2760-50     |
|   | 2760-150    |
|   | 2768N       |
|   | 2770        |
|   | 2785        |

16 Pieces Set/一套=700g

**2254M**

Bit Set  
Juego de Puntas



**2254M**  
METAL CASE: W160×H100×T28mm

- |  |                |
|--|----------------|
| Bits                                   | Accessories    |
| <b>101P</b> Phillips Bits<br>1, 2, 3   | 102NA-1/4×5/16 |
| <b>101S</b> Slotted Bits<br>1×7, 1.2×7 | 2769F          |
| <b>101H</b> Hex Bits<br>3, 4, 5        | 101A           |
|  | 2137           |

12 Pieces Set/一套=450g

# 1/4" Hand Sockets

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

<b>2257M</b>	31 Pieces Set/ $\Delta\text{L}$ =930g
METAL CASE: W240×H100×T32mm	
Sockets	Accessories
<b>2400M</b> 6-pt. Sockets 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12	2753N 2760-100 2769N-150 2770 2785
<b>2000.28</b> Bit Sockets 1, 2, 3, 4	
<b>2005.25</b> Bit Sockets 4, 5, 6, 8, 9	
<b>2010M.25</b> Bit Sockets 3, 4, 5, 6, 8, 10	

## 2257M

Socket Set  
Juego de Vasos



<b>2260M</b>	28 Pieces Set/ $\Delta\text{L}$ =2,370g
METAL CASE: W370×H150×T50mm	
Sockets	Accessories
<b>2400M</b> 6-pt. Sockets 4, 5, 5.5, 6, 7, 8, 10, 12	2753N 2760-50 2760-100 2769N-150
<b>3400M</b> 6-pt. Sockets 8, 10, 11, 12, 13, 14, 15, 17, 18, 19, 21	3749N 3760-75 3760-125 3785 3322A

## 2260M

Socket Set  
Juego de Vasos



<b>2261M</b>	17 Pieces Set/ $\Delta\text{L}$ =690g
METAL CASE: W192×H122×T30mm	
Sockets	Accessories
<b>2400M</b> 6-pt. Sockets 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12	2753N 2760-50 2760-150 2768N 2770 2785

## 2261M

Socket Set  
Juego de Vasos



<b>2262M</b>	13 Pieces Set/ $\Delta\text{L}$ =470g
METAL CASE: W192×H122×T30mm	
Sockets	Accessories
<b>2400M</b> 6-pt. Sockets 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12	2760-50 2768N

## 2262M

Socket Set  
Juego de Vasos



<b>2274M</b>	7 Pieces Set/ $\Delta\text{L}$ =245g
PLASTIC BAG	
Sockets	

<b>2274A</b>	7 Pieces Set/ $\Delta\text{L}$ =245g
PLASTIC BAG	
Sockets	

<b>2300A</b>	7 Pieces Set/ $\Delta\text{L}$ =245g
PLASTIC BAG	
Sockets	

## 2274M • 2274A

Socket Set  
Juego de Vasos



# Hand Sockets **1/4"**

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECANICOS

AUTOMOTIVE

RENEWAL KITS  
MIEGOS DE REPUESTO

**2275** Sockets Set  
Juego de Vasos



**2276** Sockets Set with Bits and Accessories  
Juego de vasos con Puntas y Accesorios



**2277** Sockets Set  
Juego de Vasos



**2277A-12P** Sockets Set  
Juego de Vasos



**2275**  
METAL CASE: W192×H122×T30mm

- |   |             |
|---|-------------|
| <ul style="list-style-type: none"> <li>Sockets</li> <li>2400M 6-pt. Sockets<br/>5.5, 6, 7, 8, 10, 12, 13</li> <li>2000.28 Bit Sockets<br/>1, 2, 3</li> <li>2005.25 Bit Sockets<br/>6, 8</li> <li>2010M.25 Bit Sockets<br/>3, 4, 5, 6</li> </ul> | Accessories |
|---|-------------|

19 Pieces Set/ $\Delta\Delta$ =880g

- |  |                  |
|--|------------------|
|  | <b>2753N</b>     |
|  | <b>2763-50</b>   |
|  | <b>2769N-150</b> |

**2276**  
METAL CASE: W192×H122×T30mm

- |   |             |
|---|-------------|
| <ul style="list-style-type: none"> <li>Bits</li> <li>108P Phillips Bits<br/>1, 2, 3</li> <li>108S Slotted Bits<br/>4, 5, 6</li> <li>108H Hex Bits<br/>3, 4, 5, 6</li> <li>108T TORX® Bits<br/>T10, T15, T20, T25, T27, T30</li> </ul> | Accessories |
|---|-------------|

19 Pieces Set/ $\Delta\Delta$ =640g

- |  |                  |
|--|------------------|
|  | <b>2753PS</b>    |
|  | <b>2769N-150</b> |
|  | <b>2137</b>      |

**2277**  
METAL CASE: W310×H86×T50mm

- |  |             |
|--|-------------|
| <ul style="list-style-type: none"> <li>Sockets</li> <li>2400M 6-pt. Sockets<br/>5.5, 6, 7, 8, 9, 10, 11, 12, 13</li> <li>2300M 6-pt. Deep Sockets<br/>5.5, 6, 7, 8, 9, 10, 11, 12, 13</li> </ul> | Accessories |
|--|-------------|

21 Pieces Set/ $\Delta\Delta$ =1,240g

- |  |                  |
|--|------------------|
|  | <b>2753N</b>     |
|  | <b>2763-75</b>   |
|  | <b>2769N-150</b> |

New **2277A-12P**  
METAL CASE: W310×H86×T50mm

- |  |             |
|--|-------------|
| <ul style="list-style-type: none"> <li>Sockets</li> <li>2405A 12-pt. Sockets<br/>7/32, 1/4, 9/32, 5/16, 11/32,<br/>3/8, 7/16, 1/2, 9/16</li> <li>2305A 12-pt. Deep Sockets<br/>7/32, 1/4, 9/32, 5/16, 11/32,<br/>3/8, 7/16, 1/2, 9/16</li> </ul> | Accessories |
|--|-------------|

21 Pieces Set/ $\Delta\Delta$ =1,240g

- |  |                  |
|--|------------------|
|  | <b>2753N</b>     |
|  | <b>2763-75</b>   |
|  | <b>2769N-150</b> |

# 1/4" Hand Sockets

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

P2201AM  
PLASTIC CASE:W245×H120×T45mm

25 Pieces Set/ $\text{Set} = 800\text{g}$

Sockets	Accessories	
<b>2400M</b> 6-pt. Sockets 4, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13	2753N 2760-100 2769N-150 2770 2785	
<b>2400A</b> 6-pt. Sockets 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2		

P2201AM  
Sockets Set  
Juego de Vasos

PATENTED



P2251M  
PLASTIC CASE:W245×H120×T45mm

18 Pieces Set/ $\text{Set} = 770\text{g}$

Sockets	Accessories	
<b>2400M</b> 6-pt. Sockets 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13	2753N 2760-50 2760-150 2768N 2770 2785	

P2251M  
Sockets Set  
Juego de Vasos

PATENTED



P2258M  
PLASTIC CASE:W245×H120×T45mm

31 Pieces Set/ $\text{Set} = 860\text{g}$

Sockets	Accessories	
<b>2400M</b> 6-pt. Sockets 4, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13	2753N 2760-100 2769N-150 2770 2785	
<b>2000.28</b> Bit Sockets 1, 2, 3		
<b>2005.25</b> Bit Sockets 4, 6		
<b>2010M.25</b> Bit Sockets 3, 4, 5, 6, 8		
<b>2025.28</b> Bit Sockets T10, T15, T20, T25, T30		

P2258M  
Sockets Set  
Juego de Vasos

PATENTED



New P2281A-12P

PLASTIC CASE:W245×H120×T45mm

18 Pieces Set/ $\text{Set} = 770\text{g}$

Sockets	Accessories	
<b>2405A</b> 12-pt. Sockets 1/8, 5/32, 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16	2753N 2760-50 2760-150 2768N 2770 2785	

P2281A-12P  
Sockets Set  
Juego de Vasos

PATENTED



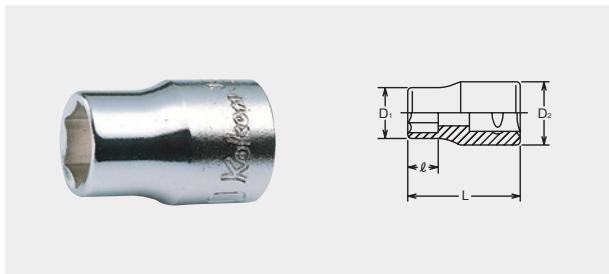
ABS Case - PE foam insert  
Caja ABS - espuma polietileno

# Hand Sockets **3/8"**

HAND  
MANUALES

## 3400M • 3400A

 6-point Sockets  
Vasos Hexagonales



3400M 3405M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	 (g)	 (pcs.)
<b>6</b>	9.9	17.3	6	26	20	10
<b>7</b>	10.8	17.3	6.5	26	20	10
<b>8</b>	12	17.3	7	26	22	10
<b>9</b>	13.3	17.3	7.5	26	23	10
<b>10</b>	14.5	17.3	8	26	24	10
<b>11</b>	15.8	17.3	8.5	26	25	10
<b>12</b>	16.8	17.3	9	26	25	10
<b>13</b>	18	17	9.5	26	24	10
<b>14</b>	19.5	18.5	11	27	31	10
<b>15</b>	20.8	19.5	11.5	28	39	10
<b>16</b>	22	20	12	28	42	10
<b>17</b>	23.3	21.5	12.5	29	51	10
<b>18</b>	24.5	22.5	13	30	51	10
<b>19</b>	25.8	23.5	13.5	30	63	10
<b>20</b>	27	24.5	14	31	75	10
<b>21</b>	28	26	14.5	32	77	10
<b>22</b>	29.5	26.5	15	32	82	10
<b>23</b>	30.8	27.5	15.5	33	95	10
<b>24</b>	32	28.5	16	34	102	10

## 3405M • 3405A

 12-point Sockets  
Vasos Bihexagonales



3400A 3405A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	 (g)	 (pcs.)
<b>1/4</b>	10.3	17.3	6	26	20	10
<b>5/16</b>	12	17.3	7	26	22	10
<b>11/32</b>	13.3	17.3	7.5	26	23	10
<b>3/8</b>	13.9	17.3	8	26	23	10
<b>7/16</b>	15.8	17.3	8.5	26	25	10
<b>1/2</b>	18	17	9.5	26	24	10
<b>9/16</b>	19.5	18.5	11	27	31	10
<b>19/32</b>	20.8	19.5	11.5	28	39	10
<b>5/8</b>	22	20	12	28	42	10
<b>11/16</b>	24.5	22.5	13	30	51	10
<b>3/4</b>	25.8	23.5	13.5	30	63	10
<b>25/32</b>	27	24.5	14	31	75	10
<b>13/16</b>	28	26	14.5	32	77	10
<b>7/8</b>	29.5	26.5	15	32	82	10
<b>15/16</b>	32	28.5	16	34	102	10

## FLAT DRIVE®

Flat drive is designed to guarantee a flat surface contact between the socket and the bolt/nut. The Flat contact reduces wear and allows to transmit a higher torque value. The Flat Drive System is also used for the square drive end as well as the hexagonal or bi-hexagonal openings of the socket.

El diseño de contacto plano garantiza una superficie de contacto plana entre el vaso y el perno/tuerca. El contacto plano reduce el desgaste y permite transmitir más par. El Sistema de Contacto Plano se utiliza tanto para el extremo del cuadrado conductor como para la boca del vaso Hex o BiHex.

## RS3400M/8

  Socket Set on Rail  
Juego de Vasos en Regleta

## RS3405M/8



## RS3400M/12

  Socket Set on Rail  
Juego de Vasos en Regleta

## RS3405M/12



## RS3400A/9

  Socket Set on Rail  
Juego de Vasos en Regleta

## RS3405A/9



<b>RS3400M/8</b>	8 Pieces Set/Rail 200mm	 (g)
New	<b>8, 10, 11, 12, 13, 14, 17, 19</b>	300

<b>RS3405M/8</b>	8 Pieces Set/Rail 200mm	 (g)
New	<b>8, 10, 11, 12, 13, 14, 17, 19</b>	300

<b>RS3400M/12</b>	12 Pieces Set/Rail 300mm	 (g)
<b>8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19</b>	465	

<b>RS3405M/12</b>	12 Pieces Set/Rail 300mm	 (g)
<b>8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19</b>	465	

<b>RS3400A/9</b>	9 Pieces Set/Rail 250mm	 (g)
<b>1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4</b>	333	

<b>RS3405A/9</b>	9 Pieces Set/Rail 250mm	 (g)
<b>1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4</b>	333	

# 3/8" Hand Sockets

3410M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
6	9.9	17.3	6	26	20	10
7	10.8	17.3	6.5	26	20	10
8	12	17.3	7	26	22	10
9	13.3	17.3	7.5	26	23	10
10	14.5	17.3	8	26	24	10
11	15.8	17.3	8.5	26	25	10
12	16.8	17.3	9	26	25	10
13	18	17	9.5	26	24	10
14	19.5	18.5	11	27	31	10
15	20.8	19.5	11.5	28	39	10
16	22	20	12	28	42	10
17	23.3	21.5	12.5	29	51	10
18	24.5	22.5	13	30	51	10
19	25.8	23.5	13.5	30	63	10
20	27	24.5	14	31	75	10
21	28	26	14.5	32	77	10
22	29.5	26.5	15	32	82	10
23	30.8	27.5	15.5	33	95	10
24	32	28.5	16	34	102	10

RS3410M/12	12 Pieces Set/Rail 300mm	⚖️ (g)
8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19	468	

3400W 3405W (W)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
1/8	13.3	17.3	7.5	26	22	10
3/16	15.8	17.3	8.5	26	25	10
1/4	18	17	9.5	26	24	10
5/16	20.8	19.5	11.5	28	39	10
3/8	24.5	22.5	13	30	51	10
7/16	28	26	14.5	32	81	10
1/2	30.8	27.5	15.5	33	103	10
9/16	34.5	30.5	17	35	128	10

BS W



BS · W	BS	3/16BS	1/4BS	5/16BS	3/8BS	7/16BS	1/2BS	9/16BS	5/8BS	11/16BS	3/4BS	7/8BS
W		1/8W	3/16W	1/4W	5/16W	3/8W	7/16W	1/2W	9/16W	5/8W	11/16W	3/4W
Across Flat (ref. mm)		8.64	11.30	13.34	15.24	18.03	20.83	23.37	25.65	27.94	30.48	33.35

RS3400W/7	7 Pieces Set/Rail 200mm	⚖️ (g)
1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2	389	

RS3405W/7	7 Pieces Set/Rail 200mm	⚖️ (g)
1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2	389	

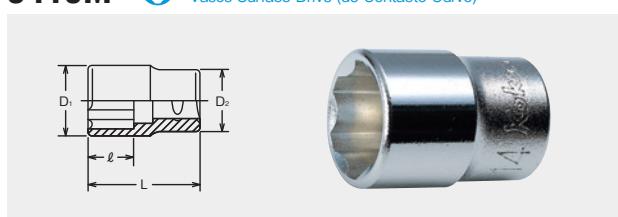
3415M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
New 6	12	17.3	6	26	24	10
New 8	14.5	17.3	7	26	26	10
10	16.8	17.3	8	26	27	10
12	20.8	19.5	9	27	43	10

3415A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
1/4	12	17.3	6	26	24	10
5/16	14.5	17.3	7	26	26	10
11/32	15.8	17.3	7.5	26	27	10
3/8	16.8	17.3	8	26	27	10
7/16	19.5	18.5	8.5	27	37	10
1/2	22	20	9.5	27	46	10

## 3410M



Surface Drive Sockets  
Vasos Surface Drive (de Contacto Curvo)



## SURFACE DRIVE

Surface drive sockets are designed to retain contact with flat sides of nut to transmit high torque and reduce nut wear. These sockets are ideal for use on polished nuts, aluminum nuts and nuts with worn out points.

Los vasos de contacto curvo se diseñan para mantener el contacto con las caras planas de la tuerca y transmitir un alto par reduciendo el desgaste de la tuerca. Estos vasos son ideales para utilizarse en tuercas pulidas, tuercas de aluminio y tuercas con puntas gastadas

## RS3410M/12



Socket Set on Rail  
Juego de Vasos en Regleta



## 3400W



6-point Whitworth Sockets

## 3405W



12-point Whitworth Sockets



## RS3400W/7



Socket Set on Rail  
Juego de Vasos en Regleta

## RS3405W/7



## 3415M · 3415A



Double Square Sockets  
Vasos Octagonales



# Hand Sockets **3/8"**

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
MÉJICOS DE REPUESTO

**3425**

 TORX® Sockets  
Vasos TORX®



3425 (E)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	g (g)	(pcs.)
E 4	5.6	17.3	4.6	26	18	10
E 5	7	17.3	5.2	26	20	10
E 6	8.3	17.3	5.4	26	21	10
E 7	8.9	17.3	6.6	26	22	10
E 8	9.9	17.3	7	26	23	10
E10	12	17.3	8.2	26	24	10
E11	13.3	17.3	8.7	26	25	10
E12	14.5	17.3	9.3	26	26	10
E14	15.8	17.3	10.6	26	27	10
E16	18	17	11.8	26	27	10

**TORX®  
(E)**



E	E4	E5	E6	E7	E8	E10	E11	E12	E14	E16	E18	E20	E22	E24
S (ref. mm)	3.83	4.72	5.69	6.17	7.47	9.37	10.03	11.12	12.85	14.71	16.64	18.41	20.24	22.10

**RS3425/9**



Socket Set on Rail  
Juego de Vasos en Regleta



RS3425/9	9 Pieces Set/Rail 200mm	g (g)
E4, E5, E6, E7, E8, E10, E12, E14, E16	239	

**3425(2B)**



TORX® Sockets **Nut Grip®**  
Vasos TORX® Nut Grip®



3425 (2B)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	g (g)	(pcs.)
New E10	12	17.3	8.2	26	23	10
New E12	14.5	17.3	9.3	26	25	10
New E14	15.8	17.3	10.6	26	26	10
New E20	21.9	20	14.4	32	52	10

**RS3425/4(2B)**



Socket Set on Rail  
Juego de Vasos en Regleta



RS3425/4(2B)	4 Pieces Set/Rail 150mm	g (g)
E10, E12, E14, E20	150	

**3450M**



Nut Grip Sockets **Nut Grip®**  
Vasos Sujeta-tuerca Nut Grip®



3450M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	g (g)	(pcs.)
8	12	17.3	5	26	21	10
10	14.5	17.3	6	26	24	10
11	15.8	17.3	6.5	26	26	10
12	16.8	17.3	7	26	26	10
13	18	17	8	26	28	10
14	19.5	18.5	8.5	27	34	10
15	20.8	19.5	9	27	42	10
16	22	20	9	27	50	10
17	23.3	21.5	9.5	28	62	10
18	24.5	22.5	10.5	29	64	10
19	25.8	23.3	11.5	29	66	10
21	28	26	12	29	85	10
22	29.5	27	12.5	29	90	10
24	32	30	14.5	31	102	10

**RS3450M/8**



Socket Set on Rail  
Juego de Vasos en Regleta



RS3450M/8	8 Pieces Set/Rail 200mm	g (g)
8, 10, 11, 12, 13, 14, 17, 19	310	

**RS3450M/10**



Socket Set on Rail  
Juego de Vasos en Regleta



RS3450M/10	10 Pieces Set/Rail 250mm	g (g)
10, 11, 12, 13, 14, 15, 17, 19, 21, 22	500	

# 3/8" Hand Sockets

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RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

3400LH (LH-S)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	g (g)	(pcs.)
5S	10.8	17.3	5	26	20	10
6S	12	17.3	5.6	26	22	10
8S	15.8	17.3	6.8	26	25	10
10S	18	17	8	26	25	10
12S	22	20	9.2	28	42	10
14S	24.5	22.5	10.4	30	51	10
16S	28	26	11.6	32	77	10

RS3400LH/7	7 Pieces Set/Rail 200mm	g (g)
5S, 6S, 8S, 10S, 12S, 14S, 16S	315	

## 3400LH LHS Sockets Vasos LHS



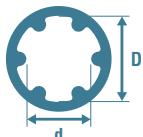
## RS3400LH/7



Socket Set on Rail  
Juego de Vasos en Regleta



### LHSTIX®



LH-S	LH-5S	LH-6S	LH-8S	LH-10S	LH-12S	LH-14S	LH-16S
D (ref. mm)	7.5	9.0	12.0	15.0	18.0	21.0	24.0
d (ref. mm)	5.60	6.78	9.04	11.30	13.56	15.82	18.08

3300X 3305X (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	g (g)	(pcs.)
8	12	17.3	16	40	34	10
9	13	17.3	16	40	36	10
10	14.5	17.3	16	40	36	10
11	16	17.3	18	40	36	10
12	16.8	17.3	18	40	36	10
13	18	17	18	40	37	10
14	20	18	18	40	46	10
15	21	20	20	40	49	10
16	22	20	20	40	51	10
17	23.5	22	20	40	61	10
18	24.5	23	20	40	68	10
19	25	24	20	40	75	10

3300XA 3305XA (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	g (g)	(pcs.)
1/4	10.3	17.3	16	40	32	10
5/16	12	17.3	16	40	34	10
3/8	13.9	17.3	16	40	36	10
7/16	16	17.2	18	40	36	10
1/2	16.8	17	18	40	37	10
9/16	20	18.5	18	40	46	10
5/8	22	20	20	40	51	10
11/16	24.5	22.5	20	40	68	10
3/4	25	23.5	20	40	75	10

RS3300X/8	8 Pieces Set/Rail 200mm	g (g)
8, 10, 11, 12, 13, 14, 17, 19	405	

RS3305X/8	8 Pieces Set/Rail 200mm	g (g)
8, 10, 11, 12, 13, 14, 17, 19	405	

RS3300XA/9	9 Pieces Set/Rail 250mm	g (g)
1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4	460	

RS3305XA/9	9 Pieces Set/Rail 250mm	g (g)
1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4	460	

## RS3300X/8



Socket Set on Rail  
Juego de Vasos en Regleta

## RS3305X/8



12-point Sockets, Semi-Deep  
Vasos Bihexagonales, Medianos



## RS3300XA/9



Socket Set on Rail  
Juego de Vasos en Regleta

## RS3305XA/9



12-point Sockets, Semi-Deep  
Vasos Bihexagonales, Medianos



LHSTIX® is a registered trademark of OSG CORPORATION System Engineering Department.  
LHSTIX® es una marca registrada de OSG CORPORATION System Engineering Department.

Koken TOOL CO., LTD.

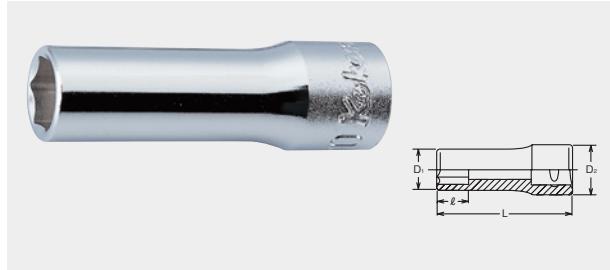
043

# Hand Sockets **3/8"**

HAND  
MANUALES

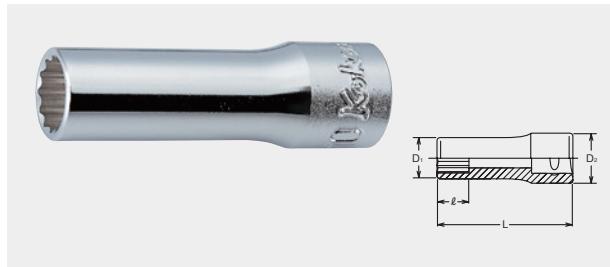
## 3300M · 3300A

 6-point Deep Sockets  
Vasos Hexagonales Largos



## 3305M · 3305A

 12-point Deep Sockets  
Vasos Bihexagonales Largos



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DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

RENEWAL KITS  
JUEGOS DE REPUESTO

3300M 3305M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	 (g)	 (pcs.)
<b>6</b>	9.9	17.3	7	55	37	10
<b>7</b>	10.6	17.3	8	55	37	10
<b>8</b>	12	17.3	9	55	40	10
<b>9</b>	13	17.3	10	55	42	10
<b>10</b>	14.5	17.3	11	55	46	10
<b>11</b>	16	17.3	12	55	51	10
<b>12</b>	16.8	17.2	13	55	52	10
<b>13</b>	18	17	14	55	53	10
<b>14</b>	20	18	16	55	60	10
<b>15</b>	21	20	16	55	74	10
<b>16</b>	22	20	17	55	76	10
<b>17</b>	23.5	22	18	55	93	10
<b>18</b>	24.5	23	19	55	98	10
<b>19</b>	25	24	20	55	98	10
<b>20</b>	26	25	21	65	126	10
<b>21</b>	27	26	22	65	126	10
<b>22</b>	29	28	23	65	163	10
<b>23</b>	30	29	24	65	168	10
<b>24</b>	31	30	25	65	191	10
<b>27</b>	35	32.5	28	65	218	10

3300A 3305A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	 (g)	 (pcs.)
<b>1/4</b>	9.9	17.3	7	55	37	10
<b>5/16</b>	12	17.3	9	55	40	10
<b>11/32</b>	12.3	17.3	10	55	41	10
<b>3/8</b>	14	17.3	11	55	46	10
<b>7/16</b>	16	17.3	12	55	51	10
<b>1/2</b>	18	17	14	55	53	10
<b>9/16</b>	20	18	16	55	60	10
<b>19/32</b>	21	20	16	55	74	10
<b>5/8</b>	22	20	17	55	76	10
<b>11/16</b>	23.5	22	18	55	93	10
<b>3/4</b>	25	24	20	55	98	10
<b>13/16</b>	27	26	22	65	126	10
<b>7/8</b>	29	28	23	65	163	10
<b>15/16</b>	31	30	25	65	191	10

## RS3300M/8

  Socket Set on Rail  
Juego de Vasos en Regleta

## RS3305M/8



<b>RS3300M/8</b>	8 Pieces Set/Rail 200mm	 (g)
New	<b>8, 10, 11, 12, 13, 14, 17, 19</b>	540

<b>RS3305M/8</b>	8 Pieces Set/Rail 200mm	 (g)
New	<b>8, 10, 11, 12, 13, 14, 17, 19</b>	540

## RS3300M/12

  Socket Set on Rail  
Juego de Vasos en Regleta

## RS3305M/12



<b>RS3300M/12</b>	12 Pieces Set/Rail 300mm	 (g)
<b>8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19</b>		878

<b>RS3305M/12</b>	12 Pieces Set/Rail 300mm	 (g)
<b>8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19</b>		878

## RS3300A/9

  Socket Set on Rail  
Juego de Vasos en Regleta

## RS3305A/9



<b>RS3300A/9</b>	9 Pieces Set/Rail 250mm	 (g)
<b>1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4</b>		628

<b>RS3305A/9</b>	9 Pieces Set/Rail 250mm	 (g)
<b>1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4</b>		628

# 3/8" Hand Sockets

## 3300M (L120) 3305M (L120)

- 6-point Extra Deep Sockets  
Vasos Hexagonales Extra-Largos
- 12-point Extra Deep Sockets  
Vasos Bihexagonales Extra-Largos



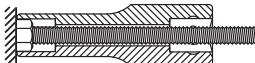
3300M(L120) 3305M(L120) (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	g (g)	(p.c.s.)
8	12	17.3	9	120	85	10
10	14.5	17.3	11	120	110	10
12	16.8	17.2	13	120	116	10
13	18	17	14	120	155	5
14	20	18	16	120	166	5

3300M/4-L120	4 Pieces Set/一套=477g
PLASTIC BAG	
Sockets	
3300M (L120) 6-point Extra Deep Sockets 8, 10, 12, 14	

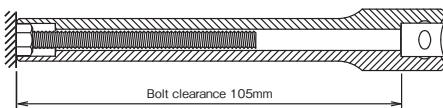
3310M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	g (g)	(p.c.s.)
6	9.9	17.3	7	55	37	10
7	10.6	17.3	8	55	37	10
8	12	17.3	9	55	40	10
9	13	17.3	10	55	42	10
10	14.5	17.3	11	55	46	10
11	16	17.3	12	55	51	10
12	16.8	17.2	13	55	52	10
13	18	17	14	55	53	10
14	20	18	16	55	60	10
15	21	20	16	55	74	10
16	22	20	17	55	76	10
17	23.5	22	18	55	93	10
18	24.5	23	19	55	98	10
19	25	24	20	55	98	10
20	26	25	21	65	126	10
21	27	26	22	65	126	10
22	29	28	23	65	163	10
23	30	29	24	65	168	10
24	31	30	25	65	161	10

RS3310M/12	12 Pieces Set/Rail 300mm	g (g)
8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19	881	

## 3300M-Size DEEP SOCKET



## 3300M-Size (L120) EXTRA DEEP SOCKET



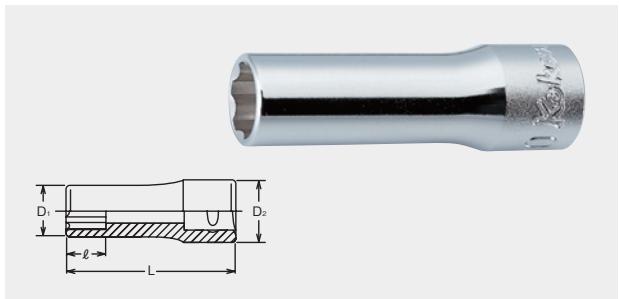
## 3300M/4-L120

- Socket Set  
Juego de Vasos



## 3310M

- Surface Drive Deep Sockets  
Vasos Surface Drive (de Contacto Curvo) Largos



## RS3310M/12

- Socket Set on Rail  
Juego de Vasos en Regleta



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RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

Koken  
TOOL CO., LTD.

# Hand Sockets **3/8"**

HAND  
MANUALES

**3300W**

6-point Deep Whitworth Sockets  
Vasos Whitworth Hexagonales Largos



3300W 3305W (W)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	g (g)	(pcs.)
1/8	12.3	17.3	10	55	46	10
3/16	16	17.3	12	55	55	10
1/4	18	17	14	55	57	10
5/16	21	20	16	55	79	10
3/8	24.5	23	19	55	96	10
7/16	27	26	22	65	140	10
1/2	30	29	24	65	193	10
9/16	34	31	27	65	250	10

**3305W**

12-point Deep Whitworth Sockets  
Vasos Whitworth Bihexagonales Largos



BS W



BS · W	BS	3/16BS	1/4BS	5/16BS	3/8BS	7/16BS	1/2BS	9/16BS	5/8BS	11/16BS	3/4BS	7/8BS
W		1/8W	3/16W	1/4W	5/16W	3/8W	7/16W	1/2W	9/16W	5/8W	11/16W	3/4W
Across Flat (ref. mm)		8.64	11.30	13.34	15.24	18.03	20.83	23.37	25.65	27.94	30.48	33.35

**RS3300W/7**

Socket Set on Rail  
Juego de Vasos en Regleta

**RS3305W/7**

Socket Set on Rail  
Juego de Vasos en Regleta



RS3300W/7	7 Pieces Set/Rail 200mm	g (g)
1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2	719	

RS3305W/7	7 Pieces Set/Rail 200mm	g (g)
1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2	719	

**3325**

TORX® Deep Sockets  
Vasos TORX® Largos



3325 (E)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	g (g)	(pcs.)
E 4	5.6	17.3	4.6	55	29	10
E 5	6.9	17.3	5.2	55	31	10
E 6	7.9	17.3	5.4	55	33	10
E 7	8.9	17.3	6.6	55	36	10
E 8	9.9	17.3	7	55	39	10
E10	11.8	17.3	8.2	55	43	10
E12	14.5	17.2	9.3	55	53	10
E14	15.7	17.2	10.6	55	57	10
E16	18	17	11.8	55	69	10

**RS3325/9**

Socket Set on Rail  
Juego de Vasos en Regleta



RS3325/9	9 Pieces Set/Rail 200mm	g (g)
E4, E5, E6, E7, E8, E10, E12, E14, E16	420	

# 3/8" Hand Sockets

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MECÁNICOS

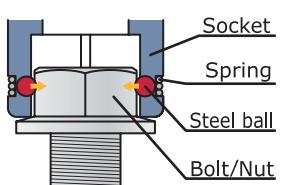
AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

3350M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖ (g)	📦 (pcs.)
8	12	17.3	5	55	50	10
10	14.5	17.3	6	55	54	10
12	16.8	17.3	7	55	58	10
13	18	17	8	55	59	10
14	19.5	18	8.5	55	71	10

RS3350M/5	5 Pieces set/Rail 150mm	⚖ (g)
8, 10, 12, 13, 14	322	



3350M(L120) (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖ (g)	📦 (pcs.)
10	14.5	17.3	6	120	110	10
12	16.8	17.3	7	120	116	10

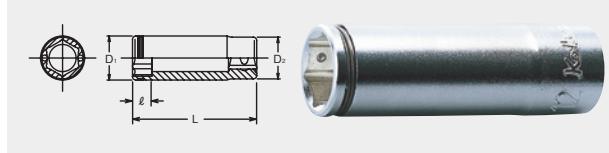
3350M/2-L120	2 Pieces Set	⚖ (g)=230g
PLASTIC BAG		
Sockets		
3350M (L120) Nut Grip Extra Deep Sockets 10, 12		

3300FN (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	S (mm)	⚖ (g)	📦 (pcs.)
8	14.5	17.3	6	53	6.4	38	10
9	16	17.3	7	53	6.8	41	10
10	16.8	17.2	7.5	53	7.2	42	10
11	18	17	8.5	53	8.3	42	10
12	20	18	9	53	8.8	50	10
13	21.1	20	9.5	62	9.4	66	10
14	22	20	10.5	62	10.5	66	10
15	23	22	11	70	11.5	82	10
16	24	23	11.5	70	12	90	10
17	25	24	12.5	80	13	110	10
18	27	25	13	80	13.5	120	10
19	28	26	14	80	14.5	130	10

RS3300FN/6	6 Pieces Set/Rail 150mm	⚖ (g)
8, 10, 12, 14, 17, 19	450	

## 3350M Nut Grip Deep Sockets Nut Grip®

Vasos Sujeta-tuerca Largos Nut Grip®



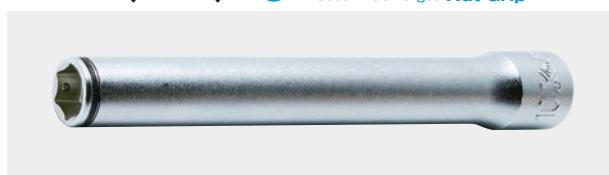
## RS3350M/5 Socket Set on Rail

Juego de Vasos en Regleta



## 3350M (L120) Extra Deep Sockets Nut Grip®

Vasos Extra-Largos Nut Grip®



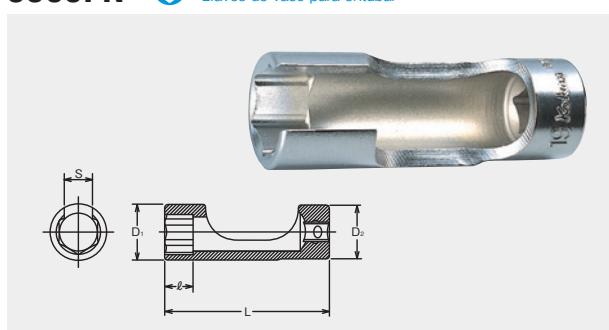
## 3350M/2-L120 Socket Set

Juego de Vasos



## 3300FN Flare Nut Sockets

Llaves de vaso para entubar



## RS3300FN/6 Socket Set on Rail

Juego de Vasos en Regleta

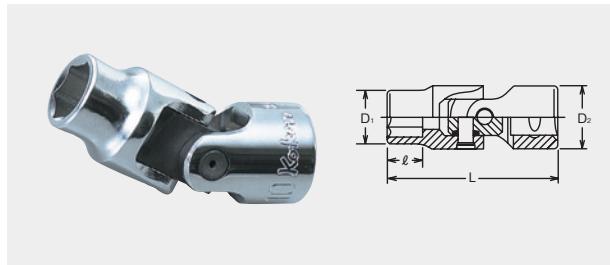


# Hand Sockets **3/8"**

HAND  
MANUALES

## 3440M · 3440A

 6-point Universal Sockets  
Vasos Hex con Articulación Universal



3440M 3445M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	 (g)	 (pcs.)
8	12	19	7.3	47	50	10
9	13.3	19	7.8	47.5	50	10
10	14.5	19	8.8	48.5	64	10
11	15.8	19	9.8	49.5	66	10
12	17	19	10.3	50	67	10
13	18.3	19	11.3	51	68	10
14	19.5	19	11.3	51	69	10
15	20.8	19	12.8	53.5	70	10
16	22	19	12.8	53.5	77	10
17	23.3	19	13.8	54.5	80	10
18	24.5	19	13.8	54.5	80	10
19	25.8	19	15.8	56.5	84	10
21	28.3	19	16.8	56.5	96	10

## 3445M · 3445A

 12-point Universal Sockets  
Vasos Bihex con Articulación Universal



3440A 3445A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	 (g)	 (pcs.)
5/16	12	19	7.3	47	50	10
3/8	14	19	8.3	48	64	10
7/16	15.8	19	9.8	49.5	66	10
1/2	18.3	19	11.3	51	68	10
9/16	19.5	19	11.3	51	69	10
5/8	22	19	12.8	53.5	77	10
11/16	24.5	19	13.8	54.5	80	10
3/4	25.8	19	15.8	56.5	84	10

## RS3440M/8

 Socket Set on Rail  
Juego de Vasos en Regleta

## RS3440A /8

 Multiplier

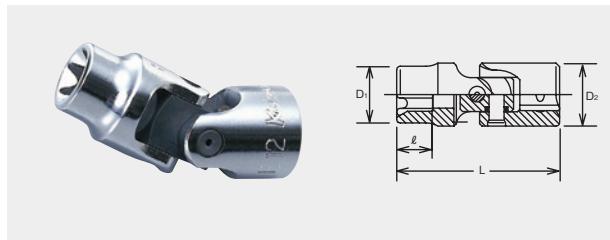


RS3440M/8	8 Pieces Set/Rail 200mm	 (g)
8, 10, 11, 12, 13, 14, 17, 19		550

RS3440A/8	8 Pieces Set/Rail 200mm	 (g)
5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4		570

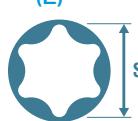
## 3440T

 TORX® Universal Sockets  
Vasos TORX® con Articulación Universal



3440T (E)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	 (g)	 (pcs.)
E 6	7.9	19	5.4	44.5	60	10
E 8	9.9	19	7	46	63	10
E 10	11.8	19	8.2	47	63	10
E 12	14.5	19	9.3	48.5	68	10
E 14	15.7	19	10.6	49	68	10
E 16	18	19	11.8	50	70	10
E 18	19.5	19	13	53	78	10
E 20	22	19	14.4	54	81	10

 TORX® (E)



E	E4	E5	E6	E7	E8	E10	E11	E12	E14	E16	E18	E20	E22	E24
S (ref. mm)	3.83	4.72	5.69	6.17	7.47	9.37	10.03	11.12	12.85	14.71	16.64	18.41	20.24	22.10

## RS3440T/8

 Socket Set on Rail  
Juego de Vasos en Regleta



RS3440T/8	8 Pieces Set/Rail 200mm	 (g)
E6, E8, E10, E12, E14, E16, E18, E20		594

# 3/8" Hand Sockets

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

	3441M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖ (g)	📦 (pcs.)
New	8	12	19	5	46	57	10
New	10	14.5	19	6	46	58	10
New	12	16.8	19	7	47	58	10
New	13	18	19	8	48	60	10
New	14	19.5	19	8.5	49.5	65	10



	RS3441M/5	5 Pieces Set/Rail 150mm	⚖ (g)
New	8, 10, 12, 13, 14	320	

**3441M** Nut Grip Universal Sockets Nut Grip®  
Vasos Sujeta-Tuerca con Articulación Universal



**RS3441M/5** Socket Set on Rail  
Juego de Vasos en Regleta



	3340M.75 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖ (g)	📦 (pcs.)
	8	12	19	9	75	82	10
	10	14.5	19	11	75	87	10
	11	15.8	19	12	75	87	10
	12	17	19	13	75	92	10
	13	18.3	19	14	75	93	10
	14	19.5	19	15	75	103	10
	15	20.8	19	16	75	104	10
	16	22	19	17	75	110	10
	17	23.3	19	18	75	115	10
	18	24.5	19	19	75	119	10
	19	25.8	19	20	75	123	10

	RS3340M/8-L75	8 Pieces Set/Rail 200mm	⚖ (g)
	8, 10, 11, 12, 13, 14, 17, 19	810	

**3340M-75** Universal Deep Sockets  
Vasos Largos con Articulación Universal



**RS3340M/8-L75** Socket Set on Rail  
Juego de Vasos en Regleta



	3430M (mm)	D (mm)	ℓ (mm)	L (mm)	⚖ (g)	📦 (pcs.)
	5	19	15.5	62	66	10
	6	19	15.5	62	70	10
	7	19	15.5	62	72	10
	8	19	15.5	62	74	10
	10	19	15.5	62	78	10
	12	19	15.5	62	85	10

	RS3430M/6	6 Pieces Set/Rail 150mm	⚖ (g)
	5, 6, 7, 8, 10, 12	470	

**3430M** Universal Hex Bit Sockets  
Vasos Hex con Articulación Universal



**RS3430M/6** Socket Set on Rail  
Juego de Vasos en Regleta

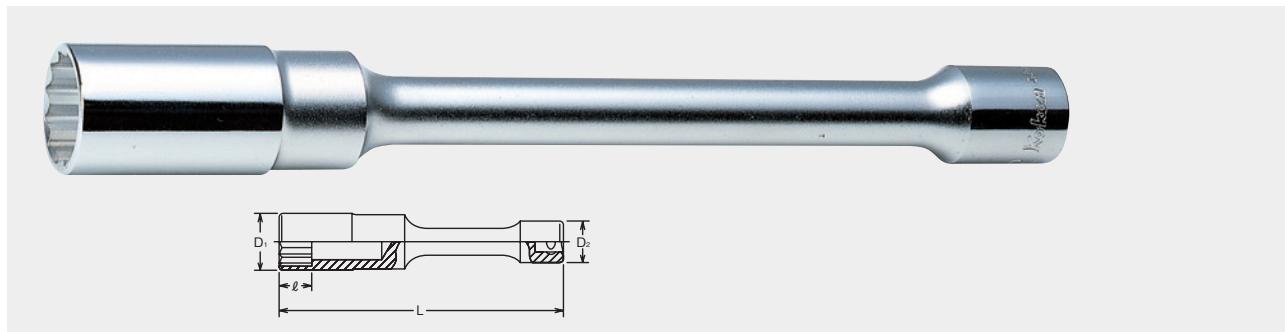


# Hand Sockets **3/8"**

HAND  
MANUALES

## 3117M-125 · -250

 Extension Deep Sockets  
Vasos con Alargadera

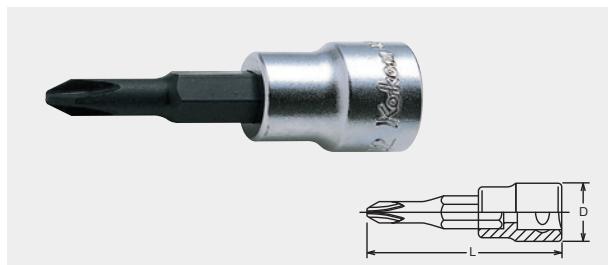


3117M.125 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	(pce.)
10	14.5	18	10	125	121	1
11	16	18	11	125	133	1
12	17	18	12	125	133	1
13	18	18	13	125	134	1
14	19.5	18	14	125	145	1
17	23.5	18	17	125	178	1
19	25	18	19	125	187	1
21	27	18	21	125	195	1
22	29	18	22	125	214	1

3117M.250 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	(pce.)
10	14.5	18	10	250	233	1
11	16	18	11	250	241	1
12	17	18	12	250	246	1
13	18	18	13	250	249	1
14	19.5	18	14	250	262	1
17	23.5	18	17	250	289	1
19	25	18	19	250	298	1
21	27	18	21	250	302	1
22	29	18	22	250	325	1

## 3000-60 (PH)

 Philips Bit Sockets  
Vasos con Punta Phillips



3000 (PH)	D (mm)	L (mm)	⚖️ (g)	(pcs.)
1	18	60	49	10
2	18	60	49	10
3	18	60	49	10
4	18	60	50	10

## 3000-50 (PZ)

 PZ Bit Sockets  
Vasos con Punta PZ



3000.50 (PZ)	D (mm)	L (mm)	⚖️ (g)	(pcs.)
PZ1	18	50	50	10
PZ2	18	50	50	10
PZ3	18	50	50	10

## 3005-60

 Slotted Bit Sockets  
Vasos con Punta Recta para Cabeza Ranurada



3005	TxW (mm)	D (mm)	L (mm)	⚖️ (g)	(pcs.)
5	1.0 x 5.5	18	60	47	10
8	1.2 x 8	18	60	49	10
10	1.6 x 10	20	60	85	10

# 3/8" Hand Sockets

**3010M-38 · -62 · -100 · -160**

Inhex Bit Sockets  
Vasos con Punta Hexagonal



3010M.38 (mm)	D (mm)	L (mm)	$\frac{lb}{in}$ (g)	$\frac{lb}{in}$ (pzs.)
3	18	38	27	10
4	18	38	28	10
5	18	38	30	10
6	18	38	31	10
7	18	38	32	10
8	18	38	33	10
10	20	38	48	10
12	20	38	60	10
13	22	38	76	10
14	22	38	78	10

3010M.62 (mm)	D (mm)	L (mm)	$\frac{lb}{in}$ (g)	$\frac{lb}{in}$ (pzs.)
3	18	62	43	10
4	18	62	45	10
5	18	62	48	10
6	18	62	49	10
7	18	62	50	10
8	18	62	62	10
10	20	62	76	10
12	20	62	94	10
13	22	62	107	10
14	22	62	109	10

3010M.100 (mm)	D (mm)	L (mm)	$\frac{lb}{in}$ (g)	$\frac{lb}{in}$ (pzs.)
3	18	100	58	10
4	18	100	60	10
5	18	100	63	10
6	18	100	64	10
7	18	100	66	10
8	18	100	69	10
10	20	100	102	10
12	20	100	131	10
13	22	100	158	10
14	22	100	160	10

3010M.160 (mm)	D (mm)	L (mm)	$\frac{lb}{in}$ (g)	$\frac{lb}{in}$ (pzs.)
3	18	160	84	10
4	18	160	86	10
5	18	160	89	10
6	18	160	90	10
7	18	160	92	10
8	18	160	95	10
10	20	160	128	10
12	20	160	157	10
13	22	160	237	10
14	22	160	239	10

RS3010M/8-L38	8 Pieces Set/Rail 200mm	$\frac{lb}{in}$ (g)
3, 4, 5, 6, 7, 8, 10, 12	322	
RS3010M/8-L62	8 Pieces Set/Rail 200mm	$\frac{lb}{in}$ (g)
3, 4, 5, 6, 7, 8, 10, 12	490	
RS3010M/8-L100	8 Pieces Set/Rail 200mm	$\frac{lb}{in}$ (g)
3, 4, 5, 6, 7, 8, 10, 12	645	



**3015M-62 · -100**

Inhex Bit Sockets, Grip Ring  
Vasos con Punta Hexagonal, Grip Ring



**RS3015M/8-L62** **RS3015M/8-L100**

Socket Set on Rail  
Juego de Vasos en Regleta



Grip Ring holds hex screws

RS3015M/8-L62	8 Pieces Set/Rail 200mm	$\frac{lb}{in}$ (g)
New 3, 4, 5, 6, 7, 8, 10, 12	500	
RS3015M/8-L100	8 Pieces Set/Rail 200mm	$\frac{lb}{in}$ (g)
New 3, 4, 5, 6, 7, 8, 10, 12	650	

Koken TOOL CO., LTD.

# Hand Sockets **3/8"**

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM

DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECANICOS

AUTOMOTIVE

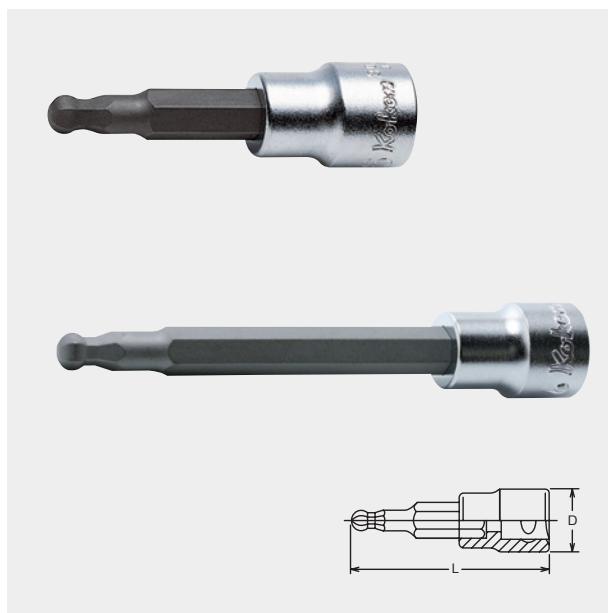
CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
MÉJICOS DE REPUESTO

 Ballpoint Inhex Sockets  
Vasos con Punta de Bola Inhex



**3011M-62 · -100 · -120 · -160**



3011M.62 (mm)	D (mm)	L (mm)	(g)	(pcs.)
3	18	62	45	10
4	18	62	46	10
5	18	62	48	10
6	18	62	49	10
7	18	62	50	10
8	18	62	51	10

3011M.100 (mm)	D (mm)	L (mm)	(g)	(pcs.)
3	18	100	61	10
4	18	100	62	10
5	18	100	64	10
6	18	100	65	10
7	18	100	67	10
8	18	100	68	10

3011M.120 (mm)	D (mm)	L (mm)	(g)	(pcs.)
3	18	120	77	10
4	18	120	78	10
5	18	120	80	10
6	18	120	81	10
7	18	120	83	10
8	18	120	84	10

3011M.160 (mm)	D (mm)	L (mm)	(g)	(pcs.)
3	18	160	87	10
4	18	160	88	10
5	18	160	89	10
6	18	160	91	10
7	18	160	93	10
8	18	160	95	10

Ball point bit sockets have less strength due to the special design. Make sure to use them correctly.

	No.2000 series	No.2000(PZ) series	No.2005 series	No.2010M/A series	No.2011M series	No.2020 series	No.2025 series	No.2025(TH) series	No.2025(IP) series	No.2025(PR) series	—
	No.3000 No.3001 series	No.3000(PZ) series	No.3005 No.3006 series	No.3010M No.3012M/A No.3015M series	No.3011M series	No.3020 series	No.3025 series	No.3025(TH) series	No.3025(IP) series	No.3025(PR) series	No.3027 series
	No.4000 No.4001 series	No.4000(PZ) series	No.4005 No.4006 series	No.4010M No.4012M/A series	—	No.4020 series	No.4025 series	—	No.4025(IP) series	—	No.4027 series

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# 3/8"

Hand Sockets

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

## 3020-38 · -50 · -100 · -120



XZN Bit Sockets  
Vasos con punta XZN

3020.38 (XZN)	D (mm)	L (mm)	 (g)	 (pcs.)
M 5	18	38	32	10
M 6	18	38	33	10
M 8	18	38	36	10
M10	20	38	51	10
M12	20	38	52	10
M14	22	38	74	10

3020.50 (XZN)	D (mm)	L (mm)	 (g)	 (pcs.)
M 4	18	50	35	10
M 5	18	50	37	10
M 6	18	50	39	10
M 8	18	50	40	10
M10	20	50	65	10
M12	20	50	69	10
M14	22	50	75	10

3020.100 (XZN)	D (mm)	L (mm)	 (g)	 (pcs.)
M 4	18	100	57	10
M 5	18	100	59	10
M 6	18	100	61	10
M 8	18	100	62	10
M10	20	100	99	10
M12	20	100	103	10
M14	22	100	145	10

3020.120 (XZN)	D (mm)	L (mm)	 (g)	 (pcs.)
M 4	18	120	77	10
M 5	18	120	79	10
M 6	18	120	81	10
M 8	18	120	82	10
M10	20	120	119	10
M12	20	120	123	10
M14	22	120	165	10

XZN



XZN	M4	M5	M6	M8	M10	M12	M14	M16	M18
S (ref. mm)	3.60	4.80	6.00	7.20	9.60	11.41	13.22	15.63	16.85

RS3020/6-L38	6 Pieces Set/Rail 150mm	 (g)
M5, M6, M8, M10, M12, M14	308	

## RS3020/6-L38



Socket Set on Rail  
Juego de Vasos en Regleta



RS3020/7-L50	7 Pieces Set/Rail 200mm	 (g)
M4, M5, M6, M8, M10, M12, M14	400	

## RS3020/7-L50



Socket Set on Rail  
Juego de Vasos en Regleta



# Hand Sockets **3/8"**

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

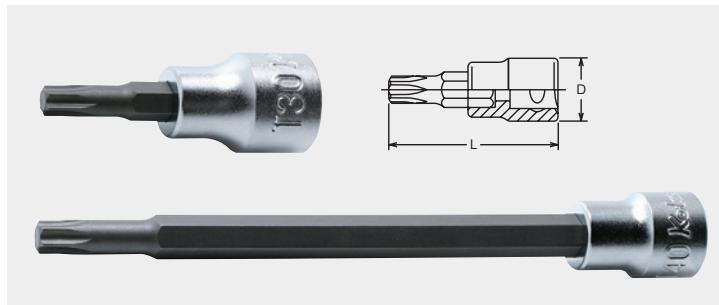
CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE REPUESTO

## 3025-38 · -50 · -140 (T)



TORX® Bit Sockets  
Vasos con Punta TORX®



3025.50 (T)	D (mm)	L (mm)	$\frac{g}{\text{g}}$	(pcs.)
<b>T 9</b>	18	50	36	10
<b>T10</b>	18	50	36	10
<b>T15</b>	18	50	36	10
<b>T20</b>	18	50	36	10
<b>T25</b>	18	50	37	10
<b>T27</b>	18	50	37	10
<b>T30</b>	18	50	38	10
<b>T40</b>	18	50	39	10
<b>T45</b>	18	50	41	10
<b>T50</b>	20	50	55	10
<b>T55</b>	20	50	67	10

3025.38 (T)	D (mm)	L (mm)	$\frac{g}{\text{g}}$	(pcs.)
<b>T 9</b>	18	38	32	10
<b>T10</b>	18	38	32	10
<b>T15</b>	18	38	33	10
<b>T20</b>	18	38	33	10
<b>T25</b>	18	38	33	10
<b>T27</b>	18	38	33	10
<b>T30</b>	18	38	33	10
<b>T40</b>	18	38	34	10
<b>T45</b>	18	38	37	10
<b>T50</b>	20	38	49	10
<b>T55</b>	20	38	57	10

3025.140 (T)	D (mm)	L (mm)	$\frac{g}{\text{g}}$	(pcs.)
<b>T 9</b>	18	140	75	10
<b>T10</b>	18	140	75	10
<b>T15</b>	18	140	75	10
<b>T20</b>	18	140	75	10
<b>T25</b>	18	140	76	10
<b>T27</b>	18	140	76	10
<b>T30</b>	18	140	77	10
<b>T40</b>	18	140	78	10
<b>T45</b>	18	140	80	10
<b>T50</b>	20	140	94	10
<b>T55</b>	20	140	106	10

**TORX®**  
(T)



T	T8	T9	T10	T15	T20	T25	T27	T30	T40	T45	T50	T55	T60	T70	T80	T90	T100
S (ref. mm)	2.30	2.48	2.72	3.26	3.84	4.40	4.96	5.49	6.60	7.77	8.79	11.17	13.20	15.49	17.51	19.88	22.09

## RS3025/8-L38 · -L50 (T)



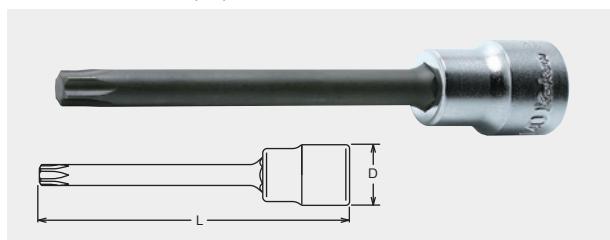
Socket Set on Rail  
Juego de Vasos en Regleta



## 3025-100R (T)



TORX® Bit Sockets, Round Shaft  
Vasos con Punta TORX®



RS3025/8-L38	8 Pieces Set/Rail 200mm	$\frac{g}{\text{g}}$
<b>T10, T15, T20, T25, T27, T30, T40, T45</b>	300	

RS3025/8-L50	8 Pieces Set/Rail 200mm	$\frac{g}{\text{g}}$
<b>T10, T15, T20, T25, T27, T30, T40, T45</b>	320	

## RS3025/8-L100R



Socket Set on Rail  
Juego de Vasos en Regleta



3025.100R (T)	D (mm)	L (mm)	$\frac{g}{\text{g}}$	(pcs.)
<b>T20</b>	18	100	38	10
<b>T25</b>	18	100	40	10
<b>T27</b>	18	100	42	10
<b>T30</b>	18	100	45	10
<b>T40</b>	18	100	52	10
<b>T45</b>	18	100	73	10
<b>T50</b>	20	100	80	10
<b>T55</b>	20	100	106	10

RS3025/8-L100R	8 Pieces Set/Rail 200mm	$\frac{g}{\text{g}}$
<b>T20, T25, T27, T30, T40, T45, T50, T55</b>	490	

# 3/8" Hand Sockets

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

3025.50 (TH)	D (mm)	L (mm)	(g)	(pcs.)
T10H	18	50	37	10
T15H	18	50	38	10
T20H	18	50	38	10
T25H	18	50	38	10
T27H	18	50	38	10
T30H	18	50	39	10
T40H	18	50	40	10
T45H	18	50	41	10
T50H	20	50	61	10
T55H	20	50	61	10

3025.160 (TH)	D (mm)	L (mm)	(g)	(pcs.)
T25H	18	160	83	10
T27H	18	160	83	10
T30H	18	160	84	10
T40H	18	160	85	10
T45H	18	160	86	10
T50H	20	160	128	10
T55H	20	160	128	10

RS3025/9-HOLE	9 Pieces Set/Rail 200mm	(g)
T10H, T15H, T20H, T25H, T27H, T30H, T40H, T45H, T50H	405	

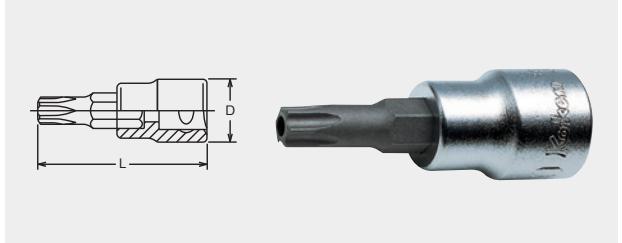
3247	4 Pieces Set/ =385g
PLASTIC BAG	
Sockets	
3025.160 Tamper-Resistant TORX® Bit Sockets T27H, T30H, T40H, T50H	

3025.100R (TH)	D (mm)	L (mm)	(g)	(pcs.)
T20H	18	100	38	10
T25H	18	100	40	10
T27H	18	100	42	10
T30H	18	100	45	10
T40H	18	100	52	10
T45H	18	100	73	10
T50H	20	100	80	10
T55H	20	100	106	10

RS3025/8-L100RH	8 Pieces Set/Rail 200mm	(g)
T20H, T25H, T27H, T30H, T40H, T45H, T50H, T55H	490	

## 3025-50 · -160 (TH)

Tamper-Resistant TORX® Bit Sockets  
Vasos con Punta TORX® Indeformal



Tamper Resistant TORX® Bit Sockets have less strength due to special design. Make sure to use it correctly.

Los Vasos con Punta Indeformal TORX® tienen menos resistencia debido al diseño especial. Asegurarse de su correcta utilización.



## RS3025/9-HOLE



Socket Set on Rail  
Juego de Vasos en Regleta



## 3247



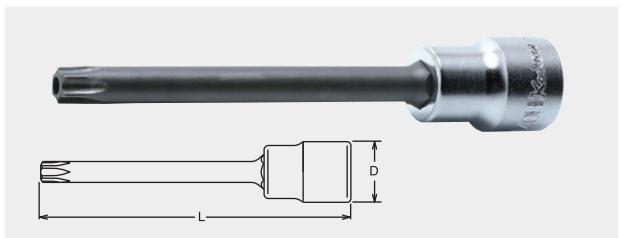
Bit Socket Set  
Juego de Vasos con Punta



## 3025-100R (TH)



Tamper-Resistant TORX® Bit Sockets, Round Shaft  
Vasos con Punta TORX® Indeformal



## RS3025/8-L100RH



Socket Set on Rail  
Juego de Vasos en Regleta



# Hand Sockets **3/8"**

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

POWER  
MECÁNICOS

AUTOMOTIVE

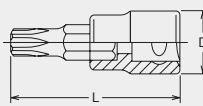
CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
MÉJICOS DE REPUESTO

## 3025-50 (IP)



TORX PLUS® Bit Sockets  
Vasos con Punta TORX PLUS®



**TORXplus®  
(IP)**



IP	8IP	9IP	10IP	15IP	20IP	25IP	27IP	30IP	40IP	45IP	50IP	55IP	60IP	70IP
S (ref. mm)	2.29	2.48	2.72	3.25	3.84	4.39	4.95	5.49	6.60	7.77	8.79	11.16	13.20	15.49

## RS3025/8-IP



Socket Set on Rail  
Juego de Vasos en Regleta



3025.50 (IP)	D (mm)	L (mm)	(g)	(pcs.)
10IP	18	50	38	10
15IP	18	50	38	10
20IP	18	50	38	10
25IP	18	50	38	10
27IP	18	50	40	10
30IP	18	50	40	10
40IP	18	50	41	10
45IP	18	50	41	10
50IP	20	50	61	10
55IP	20	50	61	10

## RSX025/11-IP



Socket Set on Rail  
Juego de Vasos en Regleta

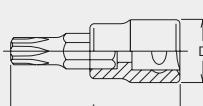


RS3025/8-IP	8 Pieces Set/Rail 200mm	(g)
20IP, 25IP, 27IP, 30IP, 40IP, 45IP, 50IP, 55IP	370	

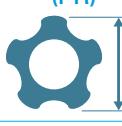
## 3025-50 (PR)



Penta-Lobe Bit Sockets, with hole  
Vasos con Punta de 5 Lóbulos, con agujero



**Penta-Lobe  
(PR)**



PR	8PR	9PR	10PR	15PR	20PR	25PR	27PR	30PR	40PR	45PR	50PR	55PR
S (ref. mm)	2.19	2.36	2.58	3.10	3.64	4.12	4.71	5.23	6.30	7.38	8.35	10.63

3025.50 (PR)	D (mm)	L (mm)	(g)	(pcs.)
10PR	18	50	38	10
15PR	18	50	38	10
20PR	18	50	38	10
25PR	18	50	38	10
27PR	18	50	40	10
30PR	18	50	40	10
40PR	18	50	41	10
45PR	18	50	41	10
50PR	20	50	61	10
55PR	20	50	61	10

## RS3025/9-PR



Socket Set on Rail  
Juego de Vasos en Regleta



RS3025/9-PR	9 Pieces Set/Rail 200mm	(g)
10PR, 15PR, 20PR, 25PR, 27PR, 30PR, 40PR, 45PR, 50PR	395	

## RSX025/11-PR



Socket Set on Rail  
Juego de Vasos en Regleta



RSX025/11-PR	11 Pieces Set/Rail 200mm	(g)
8PR, 10PR, 15PR, 20PR, 25PR, 27PR, 30PR	320	
40PR, 45PR, 50PR, 55PR		

**1/4" + 3/8" + 1/2"**

**Koken** is a registered trademark of Acument Intellectual Properties, LLC.  
**TORXplus** is a registered trademark of Acument Intellectual Properties, LLC.

# 3/8" Hand Sockets

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

3027.50	D (mm)	L (mm)	(g)	(pcs.)
M 5	18	50	38	10
M 6	18	50	38	10
New M 7	18	50	38	10
New M 8	18	50	39	10
M 9	20	50	40	10
M10	20	50	40	10
M12	20	50	41	10

3027.100	D (mm)	L (mm)	(g)	(pcs.)
M 5	18	100	40	10
M 6	18	100	42	10
M 8	18	100	45	10
M10	20	100	52	10
M12	20	100	73	10

Ribe CV

CV		M5	M6	M7	M8	M9	M10	M12	M13	M14	M16
S	(ref. mm)	5	6	7	8	9	10	12	13	14	16
W	(ref. mm)	1.1	1.3	1.4	1.7	1.9	2.2	2.6	3.0	3.1	3.5

RS3027/5-L50

5 Pieces Set/Rail 150mm

	(g)
New M5, M6, M8, M10, M12	240

3001 (PH)	D (mm)	L (mm)	(g)	(pcs.)
2	18	60	38	10
3	18	60	38	10
4	18	60	38	10

3006	T×W (mm)	D (mm)	L (mm)	(g)	(pcs.)
5	1.0× 5	18	60	35	10
8	1.2× 8	18	60	42	10
10	1.6×10	20	60	50	10

3001, 3006 are for hand use only.  
Do not use with a power or impact wrench.

## 3027-50 · -100

Bit Sockets for Ribe Screws  
Vasos con Punta Ribe



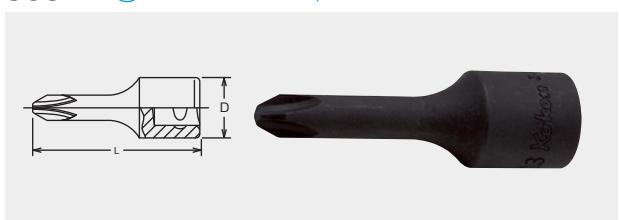
## RS3027/5-L50

Socket Set on Rail  
Juego de Vasos en Regleta



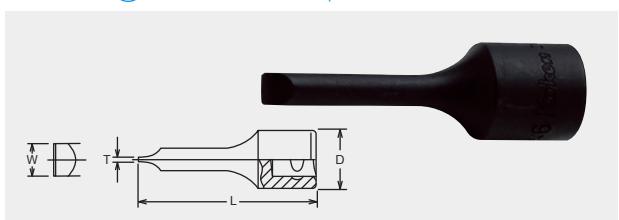
## 3001

Phillips Bit Sockets  
Vasos con Punta Phillips



## 3006

Slotted Bit Sockets  
Vasos con Punta Recta para Cabeza Ranurada



# Hand Sockets **3/8"**

HAND  
MANUALES

Z-SERIES  
INDUSTRIAL  
INDUSTRIALES

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

AUTOMOTIVE

CONSTRUCTION

CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE REPUESTO

**3012M-52 · -62 · -75**  
**3012A -52 · -62 · -75**



Inhex Sockets  
Vasos con Punta de Hexagonal



**3012M/A** are for hand use only.  
Do not use with a power or impact wrench.

3012M.52 (mm)	D (mm)	l (mm)	L (mm)	$\Delta\Delta$ (g)	(pcs.)
3	18	10	52	35	10
4	18	15.5	52	38	10
5	18	15.5	52	40	10
6	18	15.5	52	42	10
7	18	15.5	52	46	10
8	18.5	15.5	52	50	10
9	18.5	15.5	52	55	10
10	20	15.5	52	66	10
11	20	15.5	52	72	10
12	20	15.5	52	77	10
13	20	15.5	52	82	10
14	20	15.5	52	89	10

3012A.52 (inch)	D (mm)	l (mm)	L (mm)	$\Delta\Delta$ (g)	(pcs.)
1/8	18	10	52	35	10
5/32	18	15.5	52	38	10
3/16	18	15.5	52	40	10
7/32	18	15.5	52	42	10
1/4	18	15.5	52	44	10
9/32	18	15.5	52	46	10
5/16	18.5	15.5	52	50	10
11/32	18.5	15.5	52	55	10
3/8	20	15.5	52	65	10
7/16	20	15.5	52	72	10
1/2	20	15.5	52	82	10
9/16	20	15.5	52	89	10

3012M.62 (mm)	D (mm)	l (mm)	L (mm)	$\Delta\Delta$ (g)	(pcs.)
3	18	10	62	38	10
4	18	15.5	62	40	10
5	18	15.5	62	43	10
6	18	15.5	62	46	10
7	18	15.5	62	53	10
8	18.5	15.5	62	58	10
9	18.5	15.5	62	63	10
10	20	15.5	62	77	10
11	20	15.5	62	83	10
12	20	15.5	62	90	10
13	20	15.5	62	95	10
14	20	15.5	62	109	10

3012A.62 (inch)	D (mm)	l (mm)	L (mm)	$\Delta\Delta$ (g)	(pcs.)
1/8	18	10	62	38	10
5/32	18	15.5	62	40	10
3/16	18	15.5	62	43	10
7/32	18	15.5	62	46	10
1/4	18	15.5	62	48	10
9/32	18	15.5	62	53	10
5/16	18.5	15.5	62	58	10
11/32	18.5	15.5	62	63	10
3/8	20	15.5	62	73	10
7/16	20	15.5	62	83	10
1/2	20	15.5	62	95	10
9/16	20	15.5	62	109	10

3012M.75 (mm)	D (mm)	l (mm)	L (mm)	$\Delta\Delta$ (g)	(pcs.)
3	18	10	75	41	10
4	18	15.5	75	43	10
5	18	15.5	75	48	10
6	18	15.5	75	53	10
7	18	15.5	75	58	10
8	18.5	15.5	75	72	10
9	18.5	15.5	75	92	10
10	20	15.5	75	114	10
11	20	15.5	75	120	10
12	20	15.5	75	127	10
13	20	15.5	75	132	10
14	20	15.5	75	146	10

3012A.75 (inch)	D (mm)	l (mm)	L (mm)	$\Delta\Delta$ (g)	(pcs.)
1/8	18	10	75	41	10
5/32	18	15.5	75	43	10
3/16	18	15.5	75	48	10
7/32	18	15.5	75	53	10
1/4	18	15.5	75	53	10
9/32	18	15.5	75	58	10
5/16	18.5	15.5	75	72	10
11/32	18.5	15.5	75	92	10
3/8	20	15.5	75	110	10
7/16	20	15.5	75	120	10
1/2	20	15.5	75	132	10
9/16	20	15.5	75	146	10

**RS3012M/8-L52** **RS3012A/8-L52**

Socket Set on Rail  
Juego de Vasos en Regleta



<b>RS3012M/8-L52</b>	8 Pieces Set/Rail 200mm	$\Delta\Delta$ (g)
3, 4, 5, 6, 7, 8, 10, 12		394

<b>RS3012A/8-L52</b>	8 Pieces Set/Rail 200mm	$\Delta\Delta$ (g)
1/8, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8, 1/2		425

# 3/8" Hand Sockets

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

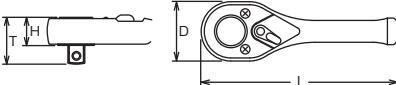
POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN  
RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

## 2749PS-3/8

Reversible Ratchet Short  
Llave de Carraca Reversible Corta



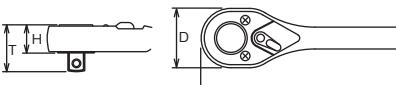
## 2749N-3/8

Reversible Ratchet  
Llave de Carraca Reversible



## 2749P-3/8

Reversible Ratchet  
Llave de Carraca Reversible



	D (mm)	T (mm)	H (mm)	L (mm)	(g) (g)	(p.c.s.)
2749PS-3/8	25	21.9	11.2	75	70	10
2749RK-3/8	25	21.9	11.2	125	104	10

\* Renewal Kits → 2749RK-3/8 ➔ P272



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\* Renewal Kits → 2749RK-3/8 ➔ P272

	D (mm)	T (mm)	H (mm)	L (mm)	(g) (g)	(p.c.s.)
2749N-3/8	25	21.9	11.2	125	104	10
2749P-3/8	25	21.9	11.2	125	101	10

⚠ 2749-3/8 series have less strength compared with normal [38] ratchet due to the technical design. Make sure to use the ratchet correctly.



24

\* Renewal Kits → 3749RK ➔ P272



24

\* Renewal Kits → 3749BRK ➔ P272

	D (mm)	T (mm)	H (mm)	L (mm)	(g) (g)	(p.c.s.)
3749S	34	24.8	14.1	110	183	5
3749SB	34	24.8	14.1	110	183	5

⚠ Reversible Ratchet with quick release button has less strength compared with normal ratchet due to the technical design. Make sure to use the ratchet correctly.



24

\* Renewal Kits → 3749RK ➔ P272

	D (mm)	T (mm)	H (mm)	L (mm)	(g) (g)	(p.c.s.)
3749N	34	24.8	14.1	200	340	1

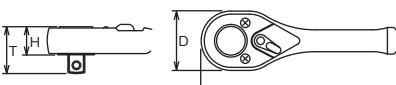
## 3749S

Reversible Ratchet Short  
Llave de Carraca Reversible Corta



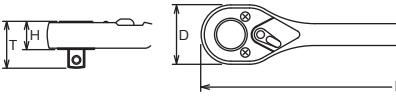
## 3749SB

Reversible Ratchet with quick release button  
Llave de Carraca Reversible con botón de extracción rápida



## 3749N

Reversible Ratchet  
Llave de Carraca Reversible



# Hand Sockets **3/8"**

## 3752N

Reversible Ratchet  
Llave de Carraca Reversible



\* Renewal Kits → 3752RK → P272

## [L/R Marking]



A pointer and L/R markings on the ratchet head indicate the turning direction.  
The reduced diameter of the head allows easier access in tight spots.

Una flecha y unas marcas L/R en el cabezal de la llave (L = Izquierda / R = Derecha) indican el sentido de giro.  
El diámetro reducido del cabezal permite un acceso más fácil en lugares estrechos.

## 3752J

Reversible Ratchet  
Llave de Carraca Reversible



\* Renewal Kits → 3752RK → P272

## 3776N

Swivel Head Ratchet  
Llave de Carraca de Cabeza Giratoria



\* Renewal Kits → 3752RK → P272

## 3776P

Swivel Head Ratchet  
Llave de Carraca de Cabeza Giratoria



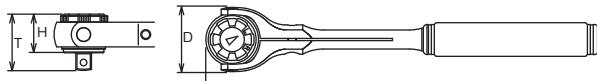
\* Renewal Kits → 3752RK → P272

## 3776J

Swivel Head Ratchet  
Llave de Carraca de Cabeza Giratoria



\* Renewal Kits → 3752RK → P272



	D (mm)	T (mm)	H (mm)	L (mm)	$\frac{g}{kg}$ (g)	(pce.)
3752N	33	34.3	23.9	200	310	1
3752J	33	34.3	23.9	200	310	1
3776N	44	34.3	23.9	280	565	1
3776P	44	34.3	23.9	280	560	1
3776J	44	34.3	23.9	280	510	1

# 3/8" Hand Sockets

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

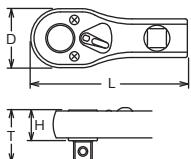
AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

## 3753SM

Multi Purpose Ratchet, reversible  
Llave de Carraca de Aplicación General, reversible



	D (mm)	T (mm)	H (mm)	L (mm)	(g)	(p.c.s.)
3753SM	30.5	26.4	15.7	81	175	5



\* Renewal Kits → 3753RK ➔ P272

## 3753N

Reversible Ratchet  
Llave de Carraca Reversible



\* Renewal Kits → 3753RK ➔ P272

## 3753P

Reversible Ratchet  
Llave de Carraca Reversible



\* Renewal Kits → 3753RK ➔ P272

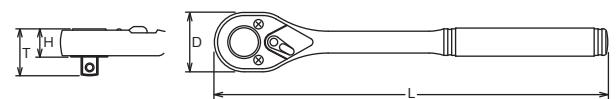
## 3753J

Reversible Ratchet  
Llave de Carraca Reversible



\* Renewal Kits → 3753RK ➔ P272

	D (mm)	T (mm)	H (mm)	L (mm)	(g)	(p.c.e.)
3753N	30.5	26.4	15.7	200	320	1
3753P	30.5	26.4	15.7	200	286	1
3753J	30.5	26.4	15.7	200	260	1



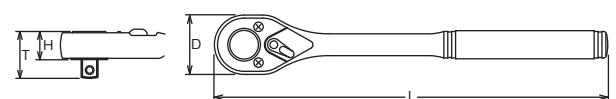
## 3753P-250

Reversible Ratchet (Long)  
Llave de Carraca Reversible (Larga)



\* Renewal Kits → 3753RK ➔ P272

	D (mm)	T (mm)	H (mm)	L (mm)	(g)	(p.c.e.)
3753P-250	30.5	26.4	15.7	250	335	1



# Hand Sockets **3/8"**

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

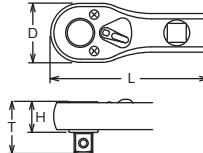
POWER  
MECÁNICOS

AUTOMOTIVE

RENEWAL KITS  
MÉGOS DE REPUESTO

## 3753SMB

Multi Purpose Ratchet with quick release button  
Llave de Carraca de Aplicación General, reversible 



\* Renewal Kits → 3753BRK [→ P272](#)



	D (mm)	T (mm)	H (mm)	L (mm)	 (g)	 (pcs.)
3753SMB	30.5	26.4	15.7	81	175	5

## 3753NB

Reversible Ratchet with quick release button  
Llave de Carraca Reversible con botón de extracción rápida 



\* Renewal Kits → 3753BRK [→ P272](#)

## 3753PB

Reversible Ratchet with quick release button  
Llave de Carraca Reversible con botón de extracción rápida 



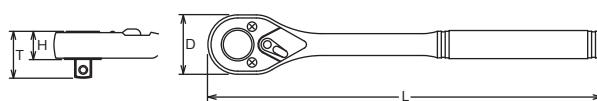
\* Renewal Kits → 3753BRK [→ P272](#)

## 3753JB

Reversible Ratchet with quick release button  
Llave de Carraca Reversible con botón de extracción rápida 



\* Renewal Kits → 3753BRK [→ P272](#)



	D (mm)	T (mm)	H (mm)	L (mm)	 (g)	 (pcs.)
3753NB	30.5	26.4	15.7	200	320	1
3753PB	30.5	26.4	15.7	200	286	1
3753JB	30.5	26.4	15.7	200	260	1

 Reversible Ratchet with quick release button has less strength compared with normal ratchet due to the technical design. Make sure to use the ratchet correctly.

# 3/8" Hand Sockets

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

## 2774PS-3/8

Flexible Ratchet, reversible  
Llave de Carraca Flexible, reversible



\* Renewal Kits → 2749RK-3/8 ➔ P272

## 2774JS-3/8

Flexible Ratchet, reversible  
Llave de Carraca Flexible, reversible



\* Renewal Kits → 2749RK-3/8 ➔ P272

	D (mm)	T (mm)	H (mm)	L (mm)	$\bar{g}$ (g)	(pcs.)
2774PS-3/8	25	21.9	11.2	120	133	5
2774JS-3/8	25	21.9	11.2	120	113	5

2774-3/8 series have less strength compared with normal [38] ratchet due to the technical design. Make sure to use the ratchet correctly.

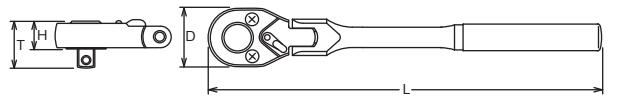
## 3774PS

Flexible Ratchet, reversible  
Llave de Carraca Flexible, reversible



\* Renewal Kits → 3753RK ➔ P272

	D (mm)	T (mm)	H (mm)	L (mm)	$\bar{g}$ (g)	(pcs.)
3774PS	30.5	26.4	15.7	175	250	2



\* Renewal Kits → 3753RK ➔ P272

## 3774N

Flexible Ratchet, reversible  
Llave de Carraca Flexible, reversible



\* Renewal Kits → 3753RK ➔ P272

## 3774P

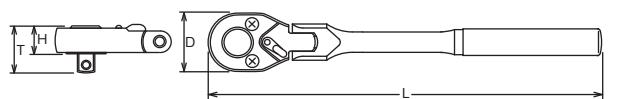
Flexible Ratchet, reversible  
Llave de Carraca Flexible, reversible



\* Renewal Kits → 3753RK ➔ P272

## 3774J

Flexible Ratchet, reversible  
Llave de Carraca Flexible, reversible



	D (mm)	T (mm)	H (mm)	L (mm)	$\bar{g}$ (g)	(pcs.)
3774N	30.5	26.4	15.7	265	378	2
3774P	30.5	26.4	15.7	265	378	2
3774J	30.5	26.4	15.7	285	367	1

# Hand Sockets **3/8"**

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

RENEWAL KITS  
MÉGOS DE REPUESTO

## 3774P-SR

Speeder Ratchet



\* Renewal Kits → 3753RK ➔ P272



	D (mm)	T (mm)	H (mm)	A (mm)	L (mm)	G (g)	(pce.)
New 3774P-SR	30.5	26.4	15.7	34	310	435	1

## 3774NB

Flexible Ratchet, reversible with quick release button  
Llave de Carraca Flexible, reversible con botón de extracción rápida



\* Renewal Kits → 3753BRK ➔ P272



## 3774PB

Flexible Ratchet, reversible with quick release button  
Llave de Carraca Flexible, reversible con botón de extracción rápida



\* Renewal Kits → 3753BRK ➔ P272

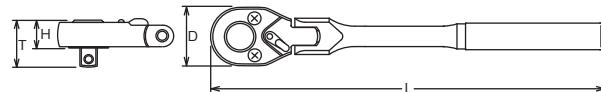


## 3774JB

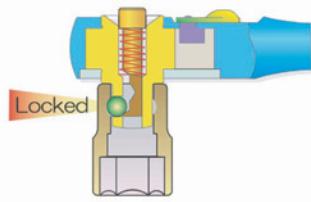
Flexible Ratchet, reversible with quick release button  
Llave de Carraca Flexible, reversible con botón de extracción rápida



\* Renewal Kits → 3753BRK ➔ P272



	D (mm)	T (mm)	H (mm)	L (mm)	G (g)	(pcs.)
3774NB	30.5	26.4	15.7	265	378	2
3774PB	30.5	26.4	15.7	265	373	2
3774JB	30.5	26.4	15.7	285	367	1



Reversible Ratchet with quick release button has less strength compared with normal ratchet due to the technical design. Make sure to use the ratchet correctly.

**Reversible Ratchet with Quick Release Button :**  
Sockets and accessories are safely locked.  
By pushing the button the sockets or extension bars are released from the ratchet.

**Llave de Carraca Reversible con Botón de Extracción Rápida :** Los vasos y accesorios se bloquean en posición. Los vasos o las alargaderas se extraen de la llave apretando el botón.

# 3/8" Hand Sockets



**3774NL**

Flex-Head Ratchet with Head Lock Button  
Llave de Carraca Flexible con Botón de Bloqueo de la Cabeza



**3774PL**

Flex-Head Ratchet with Head Lock Button  
Llave de Carraca Flexible con Botón de Bloqueo de la Cabeza



**3774JL**

Flex-Head Ratchet with Head Lock Button  
Llave de Carraca Flexible con Botón de Bloqueo de la Cabeza



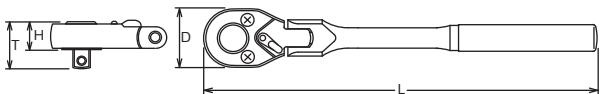
**3774JBL**

Flex-Head Ratchet with Head Lock Button and Quick Release Button  
Llave de Carraca Flexible con Botón de Bloqueo de la Cabeza y Botón de Extracción Rápida



	D (mm)	T (mm)	H (mm)	L (mm)	$\frac{kg}{g}$ (g)	$\frac{pc}{pc}$ (pcs.)
3774NL	30.5	26.4	15.7	265	378	2
3774PL	30.5	26.4	15.7	265	378	2
3774JL	30.5	26.4	15.7	285	367	1
3774JBL	30.5	26.4	15.7	285	367	1

Reversible Ratchet with quick release button has less strength compared with normal ratchet due to the technical design. Make sure to use the ratchet correctly.



# Hand Sockets **3/8"**

HAND  
MANUALES

Z-SERIES  
INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO  
MULTIPLIER  
MULTIPLICADOR  
ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES  
IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

RENEWAL KITS  
MÉJICOS DE REPUESTO

**3755** Ratchet Adaptor  
Adaptador de carraca



45

\* Renewal Kits → 3755RK ➔ P274

	D (mm)	L (mm)	⚖ (g)	📦 (pcs.)
3755	30.5	55	146	5

**3756** Quick Spinner  
Disco de Giro Rápido



	D (mm)	L (mm)	⚖ (g)	📦 (pcs.)
3756	30.5	25.5	47	10

**3757** Ratchet Wheel  
Rueda de carraca



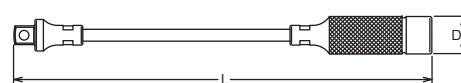
L/R Marking

45

\* Renewal Kits → 3752RK ➔ P272

	D (mm)	L (mm)	⚖ (g)	📦 (pcs.)
3757	50	35	155	5

**3762** Flexible Extension Bar  
Alargadera Flexible



	D (mm)	L (mm)	⚖ (g)	📦 (pcs.)
3762	19.3	300	178	2

# 3/8" Hand Sockets

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

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MULTIPLICADOR

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ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

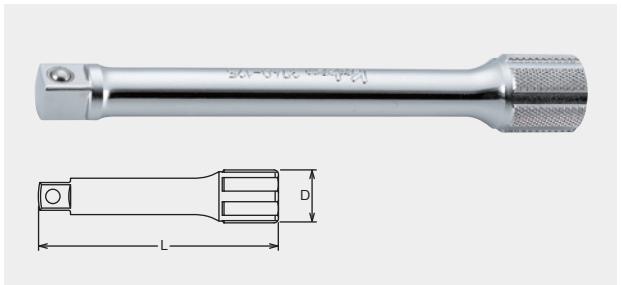
3760	D (mm)	L (mm)	(g)	(pcs.)
32	18	32	27	10
50	18	50	47	10
75	18	75	68	10
125	18	125	106	10
150	18	150	125	10
250	18	250	196	5
300	18	300	291	2
400	18	400	365	1
500	18	500	490	1
600	18	600	538	1
900	18	900	805	1
1000	18	1000	968	1

New

3760-32 · -50 · -75 · -125 · -150 · -250 ·  
-300 · -400 · -500 · -600 · -900 · -1000

Extension Bars  
Alargaderas

PATENTED



PK3760/6

PLASTIC TRAY

6 Pieces Set/ = 670g

Extension Bars

3760 Extension Bars

32, 50, 75, 125, 150, 250

PK3760/6 Set



3763

32

50

75

125

150

250

New

300

18

D  
(mm)

32

50

75

125

150

250

300

18

L  
(mm)

32

50

75

125

150

250

300

18



Wobble-Fix

Extension Bars

PK3763/6

PLASTIC TRAY

6 Pieces Set/ = 560g

Extension Bars

3763 Wobble-Fix Extension Bars

32, 50, 75, 125, 150, 250

PK3763/6 Set

Juego



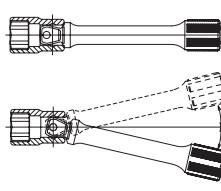
Wobble-Fix Extension Bar

Two way usage : one for as a flexible extension bar to provide at 15° angle operation, the other for use as a normal extension bar. This usage is Patent.

Alargadera Articulada-Fija

Dos formas de utilización : Una como alargadera flexible para poder trabajar con un ángulo de 15° y otra para utilizarse como alargadera normal. Esta aplicación está patentada.

The Wobble-Fix Extension Bar has less strength than normal extension bar due to its specific design with a reduced square drive. Make sure to use it correctly.



# Hand Sockets **3/8"**

**3768N-175** Hinge Handle  
Mango Articulado



\* Renewal Kits → 3768RK ➔ P274



**3768N-250** Hinge Handle  
Mango Articulado



\* Renewal Kits → 3768RK ➔ P274



**3768P-250** Hinge Handle  
Mango Articulado



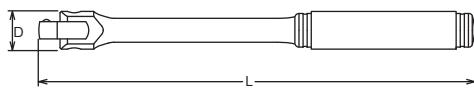
\* Renewal Kits → 3768RK ➔ P274



**3768J-250** Hinge Handle  
Mango Articulado



\* Renewal Kits → 3768RK ➔ P274



	D (mm)	L (mm)	g (g)	(pcs.)
3768N-175	20.5	175	255	5
3768N-250	20.5	250	290	5
3768P-250	20.5	250	275	5
3768J-250	20.5	250	248	2

**3768N-300** Hinge Handle  
Mango Articulado

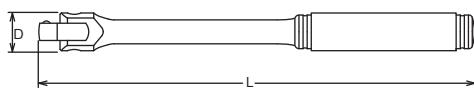


\* Renewal Kits → 3768RK ➔ P274



**3768P-380** Hinge Handle  
Mango Articulado

\* Renewal Kits → 3768RK ➔ P274



	D (mm)	L (mm)	g (g)	(pcs.)
New 3768N-300	20.5	300	320	2
3768P-380	20.5	380	435	2

3768-300, -380 have longer handle than standard, and can be loaded to excessive torque value. In the interest of your own safety always apply load evenly and progressively to avoid breakage and possible injury.

# 3/8" Hand Sockets

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN  
RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

3769N	$\ell$ (mm)	L (mm)	$\ddot{\text{g}}$ (g)	$\diamond$ (pcs.)
160	50	160	96	2
230	120	230	126	2

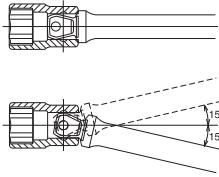


3769NWF	$\ell$ (mm)	L (mm)	$\ddot{\text{g}}$ (g)	$\diamond$ (pcs.)
160	50	160	96	2
230	120	230	126	2

**⚠ Plastic or rubber handles are not intended to act as insulation.**  
**⚠ Los mangos de plástico o de goma no están previstos para aislamiento.**

#### Wobble-Fix Extension Bar

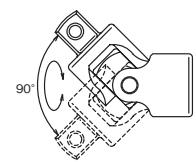
Two way usage : one for as a flexible extension bar to provide at 15° angle operation, the other for use as a normal extension bar. This usage is Patent.



#### Alargadera Articulada-Fija

Dos formas de utilización : Una como alargadera flexible para poder trabajar con un ángulo de 15° y otra para utilizarse como alargadera normal. Esta aplicación está patentada.

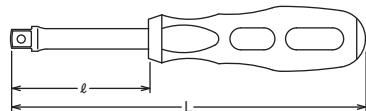
3769H	L (mm)	$\ddot{\text{g}}$ (g)	$\diamond$ (pcs.)
	170	210	2



3770	L (mm)	$\ddot{\text{g}}$ (g)	$\diamond$ (pcs.)
3770	50	66	10
3771	43	46	10

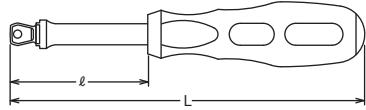
## 3769N-160 · -230

Spin Type Handle  
Mango Tipo Destornillador



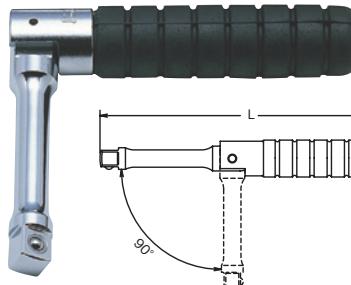
## 3769NWF-160 · -230

Spin Type Handle Wobble-Fix  
Mango Tipo Destornillador Articulados-Fijos



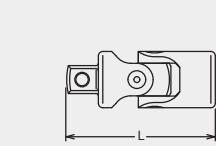
## 3769H

Folding Socket Driver  
Llave de Vaso Plegable



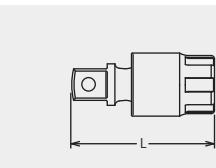
## 3770

Universal Joint  
Articulación Universal



## 3771

Universal Joint  
Articulación Universal



# Hand Sockets **3/8"**

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

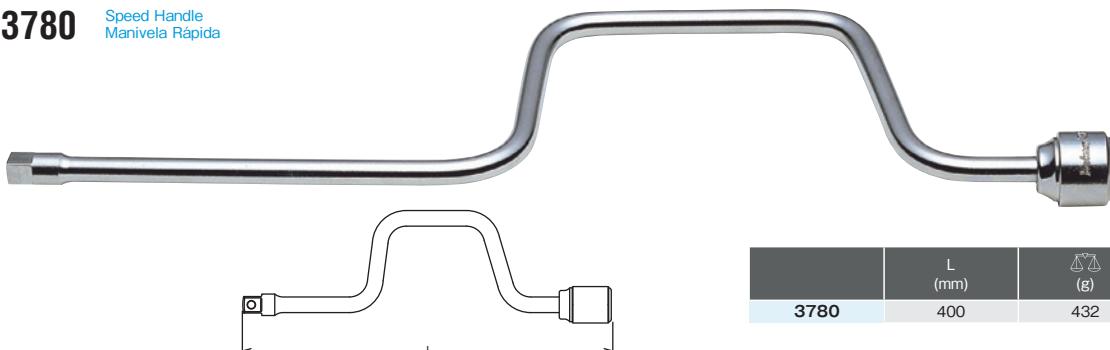
SCREWDRIVERS  
DESTORNILLADORES

POWER  
MECANICOS

AUTOMOTIVE

RENEWAL KITS  
JUEGOS DE REPUESTO

**3780** Speed Handle  
Manivela Rápida

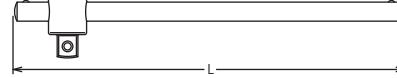


	L (mm)	g (g)	(pce.)
3780	400	432	1

**3785** T-Handle  
Mango Corredizo **PATENTED**



Innovative Oval shaped bar provides higher durability and stops the sliding square part turning around the bar.



	L (mm)	g (g)	(pce.)
3785	200	157	5

**3322A** Adaptor  
Adaptador Warranty 86Nm Garantía 86Nm



	□ (sq)	□ (sq)	L (mm)	g (g)	(pcs.)
3322A	3/8"	1/4"	24	18	10
3344A	3/8"	1/2"	30	35	10

Adapting down from bigger square drive to smaller square drive may lead to excessive torque and possibly cause breakage.

La adaptación de mayor a menor de un cuadrado conductor puede conducir a un par excesivo que puede causar roturas.

**3344A** Adaptor  
Adaptador



**PK2346/6** Set  
Juego



2233A	X 3/8"	
3322A	X 1/4"	Warranty/Garantía 86Nm
3344A	X 1/2"	
4433A	X 3/8"	Warranty/Garantía 290Nm
4466A	X 3/4"	
6644A	X 1/2"	Warranty/Garantía 668Nm

<b>PK2346/6</b>	6 Pieces Set/ = 460g
PLASTIC TRAY	
Adaptors	
1/4"□→3/8"□	2233A 3/8"□→1/4"□
3/8"□→1/2"□	3344A 1/2"□→3/8"□
1/2"□→3/4"□	4466A 3/4"□→1/2"□

# 3/8" Hand Sockets

3200M		18 Pieces Set/ $\Delta\theta=$ 2,250g
METAL CASE:W415×H120×T50mm		
Sockets	Accessories	
3400M 6-pt. Sockets 6, 8, 9, 10, 11, 12 3405M 12-pt. Sockets 13, 14, 17, 18, 19, 21	3753N 3760-125 3760-250 3768N-250 3769N-160 3785	

3200A		18 Pieces Set/ $\Delta\theta=$ 2,250g
METAL CASE:W415×H120×T50mm		
Sockets	Accessories	
3400A 6-pt. Sockets 1/4, 5/16, 3/8, 7/16 3405A 12-pt. Sockets 1/2, 9/16, 19/32, 5/8, 11/16, 3/4, 13/16, 7/8	3753N 3760-125 3760-250 3768N-250 3769N-160 3785	

3201AMW		42 Pieces Set/ $\Delta\theta=$ 4,700g
METAL CASE:W445×H190×T50mm		
Sockets	Accessories	
3405M 12-pt. Sockets 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22 3405A 12-pt. Sockets 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 25/32, 13/16, 7/8 3405W 12-pt. Sockets 1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2	3753N 3760-75 3760-125 3760-250 3768N-250 3769N-160 3770 3780 3785 3344A	

3206M		21 Pieces Set/ $\Delta\theta=$ 2,100g
METAL CASE:W395×H90×T50mm		
Sockets	Accessories	
3400M 6-pt. Sockets 6, 7, 8, 9, 10, 11, 12 3405M 12-pt. Sockets 13, 14, 15, 16, 17, 18, 19, 21, 22	3753N 3760-125 3760-250 3768N-250 3785	

3206A		17 Pieces Set/ $\Delta\theta=$ 2,000g
METAL CASE:W395×H90×T50mm		
Sockets	Accessories	
3400A 6-pt. Sockets 1/4, 5/16, 11/32, 3/8, 7/16 3405A 12-pt. Sockets 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8	3753N 3760-125 3760-250 3768N-250 3785	

3206AM		27 Pieces Set/ $\Delta\theta=$ 3,500g
METAL CASE:W445×H190×T50mm		
Sockets	Accessories	
3405M 12-pt. Sockets 7, 8, 10, 11, 12, 13, 14, 15, 16, 17, 19, 22 3405A 12-pt. Sockets 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8 3300C Spark Plug Socket 20,8	3753N 3760-125 3760-250 3768N-250 3770	

## 3200M • 3200A

Socket Sets  
Juegos de Vasos



## 3201AMW

Socket Set  
Juego de Vasos



## 3206M

Socket Set  
Juego de Vasos



## 3206A

Socket Set  
Juego de Vasos



## 3206AM

Socket Set  
Juego de Vasos



# Hand Sockets **3/8"**

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECANICOS

AUTOMOTIVE

RENEWAL KITS  
JUEGOS DE REPUESTO

## 3210M Socket Set Juego de Vasos



## 3215M · 3215A Socket Sets Juegos de Vasos



## 3217M Socket Set Juego de Vasos



## 3220M Socket Set Juego de Vasos



## 3221M Socket Set Juego de Vasos



## 3244 Socket Set Juego de Vasos



### 3210M 22 Pieces Set/ $\Delta\Delta=$ 2,900g

METAL CASE: W395×H90×T50mm

Sockets	Accessories
3400M 6-pt. Sockets 6, 7, 8, 9, 10, 11, 12	3753N
3405M 12-pt. Sockets 13, 14, 15, 16, 17, 18, 19, 21, 22	3760-125
	3760-250
	3768N-250
	3770
	3785

### 3215M 7 Pieces Set/ $\Delta\Delta=$ 430g

PLASTIC BAG

Sockets
3305M 12-pt. Deep Sockets 8, 10, 11, 12, 13, 14, 17

### 3215A 7 Pieces Set/ $\Delta\Delta=$ 430g

PLASTIC BAG

Sockets
3305A 12-pt. Deep Sockets 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16

### 3217M 14 Pieces Set/ $\Delta\Delta=$ 850g

METAL CASE: W163×H52×T33mm

Sockets
3405M 12-pt. Sockets 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22

### 3220M 14 Pieces Set/ $\Delta\Delta=$ 2,270g

METAL CASE: W415×H120×T50mm

Sockets	Accessories
3405M 12-pt. Sockets 8, 9, 10, 11, 12, 13, 14, 17, 19, 21, 22	3753N
	3760-125
	3768N-250

### 3221M 18 Pieces Set/ $\Delta\Delta=$ 2,300g

METAL CASE: W395×H90×T50mm

Sockets	Accessories
3405M 12-pt. Sockets 6, 8, 9, 10, 11, 12, 13, 14, 17, 19, 21, 22	3753N
	3760-125
	3760-250
	3768N-250
	3769N-160
	3785

### 3244 12 Pieces Set/ $\Delta\Delta=$ 1,110g

METAL CASE: W240×H100×T32mm

Sockets	Accessories
3025.50 TORX® Bit Sockets T20, T25, T27, T30, T40, T45, T50	3753N
3425 TORX® Sockets E8, E10, E12	3760-75

CONSTRUCTION CONSTRUCCIÓN  
RENEWAL KITS JUEGOS DE REPUESTO

# 3/8" Hand Sockets

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN  
RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

**3240M-00**

Display Stands  
Expositores

PATENTED

**3240M-05**



3240M-00                    3400M 67 Pieces Set/ $\Delta\wedge$ =2,800g  
3240M-05                    3405M 67 Pieces Set/ $\Delta\wedge$ =2,800g

DISPLAY STAND: W410×H160×T500mm

Sockets		
6mm:4pcs	12mm:4pcs	18mm:4pcs
7mm:4pcs	13mm:4pcs	19mm:3pcs
8mm:4pcs	14mm:4pcs	20mm:3pcs
9mm:4pcs	15mm:4pcs	21mm:3pcs
10mm:4pcs	16mm:4pcs	22mm:3pcs
11mm:4pcs	17mm:4pcs	23mm:3pcs



**S3240M-00 · S3240A-00**

Display Stands  
Expositores

**S3240M-05 · S3240A-05**



S3240M-00                    3400M 177 Pieces Set/ $\Delta\wedge$ =10,300g  
S3240M-05                    3405M 177 Pieces Set/ $\Delta\wedge$ =10,300g

DISPLAY STAND: W510×H150×T230mm

Sockets		
6mm:12pcs	12mm:12pcs	18mm:8pcs
7mm:12pcs	13mm:11pcs	19mm:8pcs
8mm:12pcs	14mm:11pcs	20mm:7pcs
9mm:12pcs	15mm:10pcs	21mm:7pcs
10mm:12pcs	16mm: 9pcs	22mm:7pcs
11mm:12pcs	17mm: 9pcs	23mm:6pcs



S3240A-00                    3400A 126 Pieces Set/ $\Delta\wedge$ =8,500g  
S3240A-05                    3405A 126 Pieces Set/ $\Delta\wedge$ =8,500g

DISPLAY STAND: W510×H150×T230mm

Sockets		
1/4":12pcs	9/16":10pcs	25/32":7pcs
5/16":12pcs	19/32":10pcs	13/16":7pcs
3/8":12pcs	5/8": 9pcs	7/8":7pcs
7/16":12pcs	11/16": 9pcs	
1/2":11pcs	3/4": 8pcs	

3250M                        17 Pieces Set/ $\Delta\wedge$ =2,200g

METAL CASE: W415×H120×T50mm

Sockets	Accessories	
3400M 6-pt. Sockets 7, 8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19	3753N 3760-125 3760-250 3770 3785	

**3250M**                    Socket Set  
Juego de Vasos



3252M                        15 Pieces Set/ $\Delta\wedge$ =1,530g

METAL CASE: W310×H90×T48mm

Sockets	Accessories	
3400M 6-pt. Sockets 5.5, 7, 8, 10, 11, 12	3753P 3760-75	
3405M 12-pt. Sockets 13, 14, 17, 19, 22	3760-125 3770	

**3252M**                    Socket Set  
Juego de Vasos



P3262M-6P                    11 Pieces Set/ $\Delta\wedge$ =1,140g

PLASTIC CASE: W245×H120×T45mm

Sockets	Accessories	
3400M 6-pt. Sockets 8, 10, 12, 13, 14, 17, 19	3753N 3760-75 3760-125 3770	

**P3262M-6P**                    Socket Set  
Juego de Vasos

PATENTED



# Hand Sockets **3/8"**

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM

DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT

DE IMPACTO

POWER  
MECANICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE REPUESTO

**3275**

Socket Set  
Juego de Vasos



**3276**

Bit Socket Set  
Juego de Vasos con Punta



**3277**

Socket Set  
Juego de Vasos



**3279AM**

Socket Set  
Juego de Vasos



**3275**

24 Pieces Set/ $\Delta\Delta$ =3,150g

METAL CASE: W400×H147×T50mm

Sockets	Accessories	
3400M 6-pt. Sockets 6, 7, 8, 9, 10, 11, 12	3753N	
3405M 12-pt. Sockets 13, 14, 15, 16, 17, 18, 19, 21, 22	3760-125	
3300C Spark Plug Sockets 16, 20.8	3760-250	
	3768N-250	
	3770	
	3756	

**3276**

20 Pieces Set/ $\Delta\Delta$ =3,370g

METAL CASE: W310×H150×T50mm

Sockets	Accessories	
3000 Bit Sockets 2, 3	3753N	
3005 Bit Sockets 5, 8	3763-125	
3010M.62 Hex Bit Sockets 5, 6, 7, 8, 10		
3025.50 TORX® Bit Sockets T10, T15, T20, T25, T27, T30, T40, T45, T50		

**3277**

29 Pieces Set/ $\Delta\Delta$ =3,240g

METAL CASE: W370×H150×T50mm

Sockets	Accessories	
3400M 6-pt. Sockets 8, 9, 10, 11, 12	3753N	
3405M 12-pt. Sockets 13, 14, 15, 16, 17, 18, 19, 21	3760-125	
3300M 6-pt. Deep Sockets 8, 9, 10, 11, 12	3768N-250	
3305M 12-pt. Deep Sockets 13, 14, 15, 16, 17, 18, 19, 21		

New **3279AM**

35 Pieces Set/ $\Delta\Delta$ =4,200g

METAL CASE: W445×H190×T50mm

Sockets	Accessories	
3405M 12-pt. Sockets 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22	3753N	
3405A 12-pt. Sockets 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 25/32, 13/16, 7/8	3760-125	
3300S Spark Plug Sockets 16, 20.8	3760-250	
	3768N-250	
	3769N-160	
	3770	
	3785	

# 1/2" Hand Sockets

**4400M • 4400A**

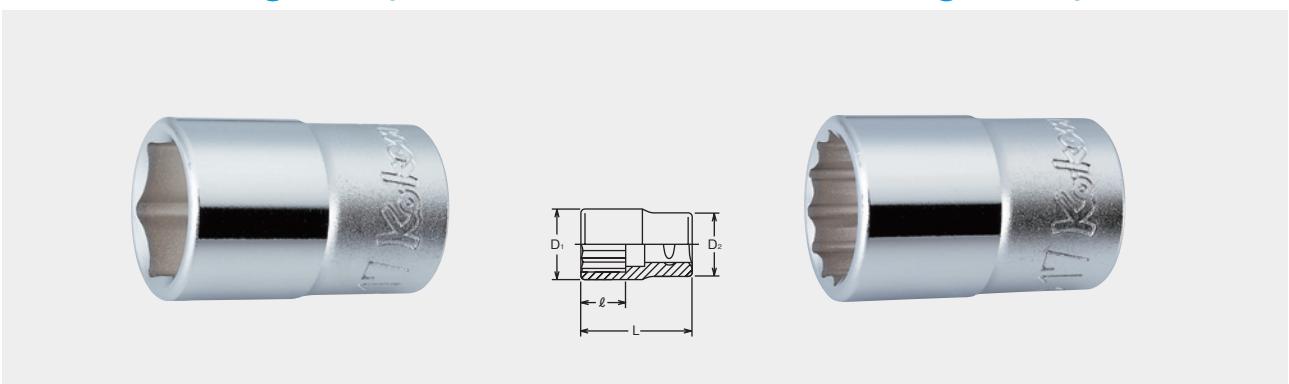


6-Point Sockets  
Vasos Hexagonales

**4405M • 4405A**



12-Point Sockets  
Vasos Bihexagonales



4400M 4405M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	g (g)	(pcs.)
8	13.2	21	8	36	44	10
9	13.8	21	8.5	37	44	10
10	15.3	21	9	37	45	10
11	16.5	21	9.5	37	46	10
12	17.8	21	10	37	47	10
13	19	22	10.5	37	53	10
14	20.3	22	11	37	56	10
15	21.5	22	11.5	37	52	10
16	22.8	22	12	37	62	10
17	24	23	12.5	37	69	10
18	25	24	13	37	74	10
19	26.5	25	14	38	89	10
20	27.8	26	15	38	92	10
21	29	27	15.5	38	102	10
22	30	28	16	40	113	10
23	31.5	29	16.5	40	128	10
24	32.8	30	17	42	140	5
25	34	31	18	42	164	5
26	35	32	19	42	165	5
27	36.5	33	19.5	43	182	5
28	37.8	34	20	43	198	5
29	39	35	20.5	43	205	5
30	40	36	22	46	222	5
31	41.5	37	22.5	46	257	5
32	42.8	38	23	46	250	5
33	44.2	39	24	47	275	5
34	45.2	40	24	47	315	5
35	46.2	40	24	47	317	5
36	47.2	41	24	47	336	5
38	49.2	43	24	47	380	5

4400A 4405A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	g (g)	(pcs.)
5/16	13.2	21	8	36	44	10
3/8	14.6	21	9	37	45	10
7/16	16.5	21	9.5	37	46	10
1/2	19	22	10.5	37	53	10
9/16	20.3	22	11	37	56	10
19/32	21.5	22	11.5	37	52	10
5/8	22.8	22	12	37	62	10
21/32	24	23	12.5	37	69	10
11/16	25	24	13	37	74	10
3/4	26.5	25	14	38	89	10
25/32	27.8	26	15	38	92	10
13/16	29	27	15.5	38	102	10
7/8	30	28	16	40	113	10
15/16	32.8	30	17	42	140	5
1	35	32	19	42	165	5
1. 1/16	36.5	33	19.5	43	180	5
1. 1/8	39	35	20.5	43	210	5
1. 3/16	40	36	22	46	222	5
1. 1/4	42.8	38	23	46	250	5
1. 5/16	44.2	39	24	47	275	5
1. 3/8	46.2	40	24	47	317	5
1. 7/16	47.2	41	24	47	336	5
1. 1/2	49.2	43	24	47	380	5

RS4400M/10	10 Pieces Set/Rail 300mm	
10, 11, 12, 13, 14, 15, 17, 19, 21, 22	717	

RS4405M/10	10 Pieces Set/Rail 300mm	
10, 11, 12, 13, 14, 15, 17, 19, 21, 22	717	

RS4400A/10	10 Pieces Set/Rail 300mm	
3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16	809	

RS4405A/10	10 Pieces Set/Rail 300mm	
3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16	809	

**RS4400M/10** **RS4405M/10**

**RS4400A/10** **RS4405A/10**



# Hand Sockets **1/2"**

HAND  
MANUALES

**4410M**

Surface Drive Sockets  
Vasos Surface Drive (de Contacto Curvo)



**RS4410M/10**

Socket Set on Rail  
Juego de Vasos en Regleta



**4405W**

12-point Whitworth Sockets  
Vasos Whitworth Bihexagonales



**RS4405W/8**

Socket Set on Rail  
Juego de Vasos en Regleta



4410M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	秤 (g)	pcs.
8	13.2	21	8	36	44	10
9	13.8	21	8.5	37	44	10
10	15.3	21	9	37	45	10
11	16.5	21	9.5	37	46	10
12	17.8	21	10	37	47	10
13	19	22	10.5	37	53	10
14	20.3	22	11	37	56	10
15	21.5	22	11.5	37	52	10
16	22.8	22	12	37	62	10
17	24	23	12.5	37	69	10
18	25	24	13	37	74	10
19	26.5	25	14	38	89	10
20	27.8	26	15	38	92	10
21	29	27	15.5	38	102	10
22	30	28	16	40	113	10
23	31.5	29	16.5	40	128	10
24	32.8	30	17	42	140	5
25	34	31	18	42	164	5
26	35	32	19	42	165	5
27	36.5	33	19.5	43	196	5
28	37.8	34	20	43	198	5
29	39	35	20.5	43	190	5
30	40	36	22	46	222	5
31	41.5	37	22.5	46	257	5
32	42.8	38	23	46	250	5
34	45.2	40	24	47	314	5

RS4410M/10	10 Pieces Set/Rail 300mm	秤 (g)
10, 11, 12, 13, 14, 15, 17, 19, 21, 22	717	

4405W (W)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	秤 (g)	pcs.
3/16	16.5	21	9.5	37	46	10
1/4	19	22	10.5	37	54	10
5/16	21.5	22	11.5	37	54	10
3/8	25	24	13	37	73	10
7/16	29	27	15.5	38	87	10
1/2	31.5	29	16.5	40	133	10
9/16	35	32	19	42	165	5
5/8	37.8	34	20	43	191	5
11/16	40	36	22	46	222	5
3/4	44.2	39	24	47	280	5

RS4405W/8	8 Pieces Set/Rail 250mm	秤 (g)
New 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8	860	

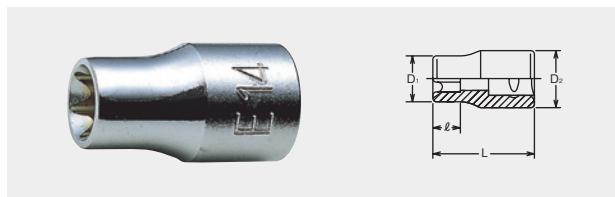
**BS W**



BS	3/16BS	1/4BS	5/16BS	3/8BS	7/16BS	1/2BS	9/16BS	5/8BS	11/16BS	3/4BS	7/8BS
W	1/8W	3/16W	1/4W	5/16W	3/8W	7/16W	1/2W	9/16W	5/8W	11/16W	3/4W
Across Flat (ref. mm)	8.64	11.30	13.34	15.24	18.03	20.83	23.37	25.65	27.94	30.48	33.35

**4425**

TORX® Sockets  
Vasos TORX®



**TORX® (E)**



E	E4	E5	E6	E7	E8	E10	E11	E12	E14	E16	E18	E20	E22	E24
S	(ref. mm)	3.83	4.72	5.69	6.17	7.47	9.37	10.03	11.12	12.85	14.71	16.64	18.41	20.24

**RS4425/7**

Socket Set on Rail  
Juego de Vasos en Regleta



4425 (E)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	秤 (g)	pcs.
E 8	10.7	21	7	36	41	10
E 10	13.2	21	8.2	36	44	10
E 11	13.8	21	8.7	37	45	10
E 12	14.6	21	9.3	37	47	10
E 14	16.5	21	10.6	37	48	10
E 16	19	22	11.8	37	57	10
E 18	20.3	22	13	37	57	10
E 20	22.8	22	14.4	37	63	10
E 22	25	24	15.5	37	78	10
E 24	26.5	25	17	40	95	5

RS4425/7	7 Pieces Set/Rail 200mm	秤 (g)
E 10, E 12, E 14, E 16, E 18, E 20, E 24	428	

# 1/2" Hand Sockets

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

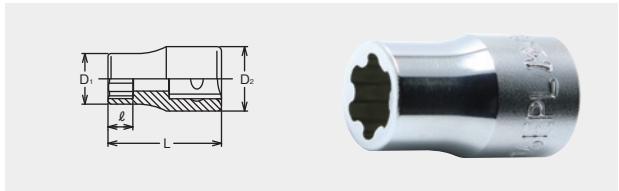
CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

4425 (EPL)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖ (g)	📦 (pcs.)
10EPL	13.2	21	6.2	36	45	10
12EPL	14.6	21	7.2	37	47	10
14EPL	16.5	21	8.1	37	49	10
16EPL	19	22	9.2	37	60	10
18EPL	20.3	22	10.2	37	60	10
20EPL	22.9	22	11.2	37	65	10

RS4425/6-EPL	6 Pieces Set/Rail 200mm	⚖ (g)
New 10EPL, 12EPL, 14EPL, 16EPL, 18EPL, 20EPL	390	

## 4425-EPL TORX PLUS® Sockets Vasos TORX PLUS®



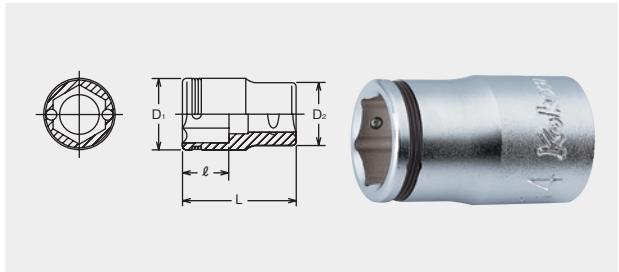
## RS4425/6-EPL Socket Set on Rail Juego de Vasos en Regleta



4450M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖ (g)	📦 (pcs.)
10	15.3	21	6	36	44	10
11	16.5	21	6.5	36	46	10
12	17.8	21	7	36	46	10
13	19	22	8	36	52	10
14	20.3	22	8.5	36	54	10
15	21.5	22	9	36	52	10
16	22.8	22	9	36	60	10
17	24	23	9.5	36	68	10
18	25	24	10.5	36	77	10
19	26.5	25	11.5	36	85	10
21	29	27	12	37	110	10
22	30	28	12.5	37	105	10
24	32.8	30	14.5	39	130	5
27	36.5	33	16.5	40	139	5

RS4450M/10	10 Pieces Set/Rail 300mm	⚖ (g)
10, 11, 12, 13, 14, 15, 17, 19, 21, 22	717	

## 4450M Nut Grip® Sockets Vasos Sujeta-Tuerca Nut Grip®

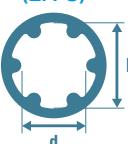


## RS4450M/10 Socket Set on Rail Juego de Vasos en Regleta



4400LH (LH-S)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖ (g)	📦 (pcs.)
6S	13.2	21	5.6	36	44	10
8S	16.5	21	6.8	37	46	10
10S	19	22	8	37	53	10
12S	22.8	22	9.2	37	62	10
14S	25	24	10.4	37	74	10
16S	29	27	11.6	38	102	10

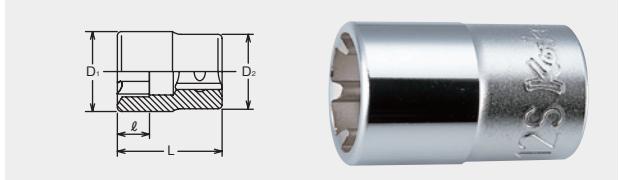
### LHSTIX® (LH-S)



LH-S	LH-5S	LH-6S	LH-8S	LH-10S	LH-12S	LH-14S	LH-16S
D (ref. mm)	7.5	9.0	12.0	15.0	18.0	21.0	24.0
d (ref. mm)	5.60	6.78	9.04	11.30	13.56	15.82	18.08

RS4400LH/6	6 Pieces Set/Rail 200mm	⚖ (g)
6S, 8S, 10S, 12S, 14S, 16S	430	

## 4400LH LHS Sockets Vasos LHS



## RS4400LH/6 Socket Set on Rail Juego de Vasos en Regleta



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**TORX®** es una marca registrada de Acument Intellectual Properties, LLC.

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**LHSTIX®** es una marca registrada de OSG CORPORATION System Engineering Department.

Koken TOOL CO., LTD.

# Hand Sockets **1/2"**

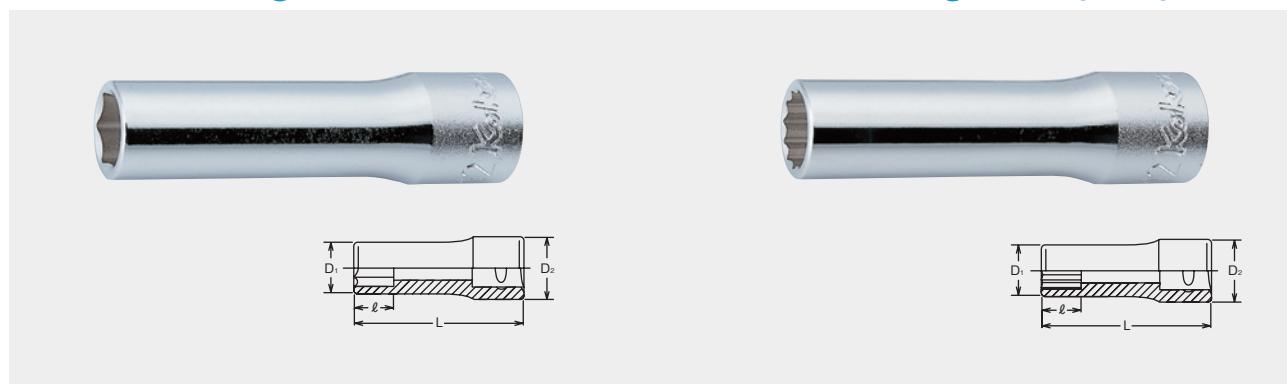
HAND  
MANUALES

**4300M • 4300A**

6-Point Deep Sockets  
Vasos Hexagonales Largos

**4305M • 4305A**

12-Point Deep Sockets  
Vasos Bihexagonales Largos



4300M 4305M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
8	13.2	21	9	77	76	10
9	13.8	21	10	77	82	10
10	15.3	21	11	77	82	10
11	16.5	21	12	77	86	10
12	17.8	21	13	77	92	10
13	19	21.8	14	77	106	10
14	20.3	21.8	15	77	115	10
15	21.5	21.8	16	77	123	10
16	22.8	22	17	77	141	10
17	24	23	18	77	139	10
18	25	24	19	77	149	10
19	26.5	25	20	77	165	10
20	27.8	26	21	77	183	10
21	29	27	23	77	190	10
22	30	28	27	77	200	10
23	31.5	29	27	77	233	10
24	32.8	30	27	77	249	10
25	34	31	27	77	270	10
26	35	32	27	77	279	10
27	36.5	33	28	77	303	10
28	37.8	34	28	77	331	10
29	39	35	28	77	357	10
30	40	36	34	77	342	10
31	41.5	37	34	77	384	10
32	42.8	38	34	77	405	10
34	45.2	40	35	77	442	5
36	48	43	36	77	484	5

4300A 4305A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
5/16	13.2	21	9	77	76	10
3/8	14.6	21	10	77	82	10
7/16	16.5	21	12	77	86	10
1/2	19	21.8	14	77	106	10
9/16	20.3	21.8	15	77	115	10
19/32	21.5	21.8	16	77	123	10
5/8	22.8	22	17	77	141	10
21/32	24	23	18	77	139	10
11/16	25	24	19	77	149	10
3/4	26.5	25	20	77	165	10
25/32	27.8	26	21	77	183	10
13/16	29	27	23	77	190	10
7/8	30	28	27	77	200	10
15/16	32.8	30	27	77	249	10
31/32	34	31	27	77	270	10
1	35	32	27	77	279	10
1. 1/16	36.5	33	28	77	303	10
1. 1/8	37.8	34	28	77	331	10
1. 3/16	40	36	34	77	342	10
1. 1/4	42.8	38	34	77	405	10
1. 3/8	46.2	40	35	77	422	5
1. 7/16	48	43	36	77	484	5
1. 1/2	49	44	38	77	523	5
1.13/16	59	48	38	77	791	5

**RS4300M/10** Socket Set on Rail  
Juego de Vasos en Regleta

**RS4305M/10**

**RS4300A/10** Socket Set on Rail  
Juego de Vasos en Regleta

**RS4305A/10**



<b>RS4300M/10</b>	10 Pieces Set/Rail 300mm	⚖️ (g)
10, 11, 12, 13, 14, 15, 17, 19, 21, 22		1,415

<b>RS4305M/10</b>	10 Pieces Set/Rail 300mm	⚖️ (g)
10, 11, 12, 13, 14, 15, 17, 19, 21, 22		1,415

<b>RS4300A/10</b>	10 Pieces Set/Rail 300mm	⚖️ (g)
3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16		1,600

<b>RS4305A/10</b>	10 Pieces Set/Rail 300mm	⚖️ (g)
3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16		1,600

# 1/2" Hand Sockets

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

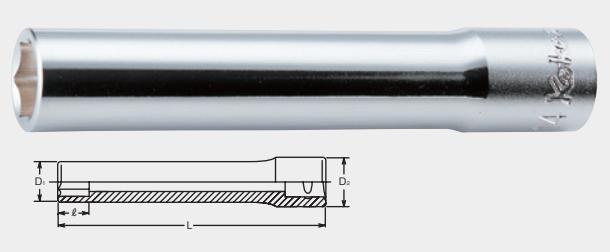
RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

4300M(L120) (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖ (g)	📦 (pcs.)
<b>8</b>	13.2	21	9	120	120	5
<b>10</b>	15.3	21	11	120	138	5
<b>12</b>	17.8	21	13	120	157	5
<b>14</b>	20.3	21.8	15	120	193	5
<b>16</b>	22.8	22	17	120	210	5

## 4300M (L120)



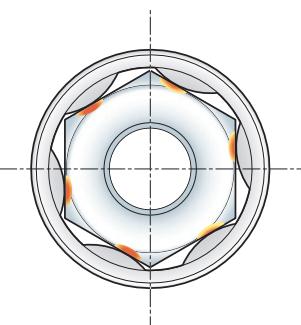
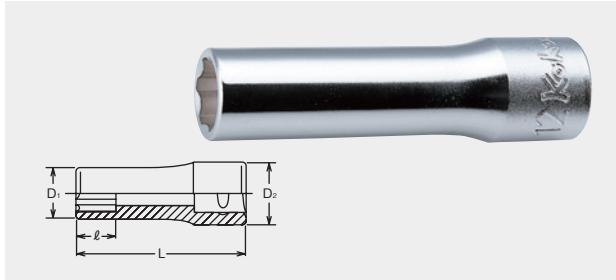
6-Point Extra Deep Sockets  
Vasos Hexagonales Extra Largos



## 4310M



Surface Drive Deep Sockets  
Vasos Surface Drive (de Contacto Curvo) Largos



## RS4310M/10



Socket Set on Rail  
Juego de Vasos en Regleta



RS4310M/10	10 Pieces Set/Rail 300mm	⚖ (g)
10, 11, 12, 13, 14, 15, 17, 19, 21, 22	1,415	

4325 (E)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖ (g)	📦 (pcs.)
<b>E 8</b>	10.7	21	7	77	68	10
<b>E10</b>	13.2	21	8.2	77	99	10
<b>E11</b>	13.8	21	8.7	77	84	10
<b>E12</b>	14.6	21	9.3	77	99	10
<b>E14</b>	16.5	21	10.6	77	103	10
<b>E16</b>	19	21.8	11.8	77	107	10
<b>E18</b>	20.3	21.8	13	77	118	10
<b>E20</b>	22.8	22	14.4	77	141	10
<b>E24</b>	26.6	25	17	77	215	10

## 4325



TORX® Deep Sockets  
Vasos Largos TORX®



RS4325/7	7 Pieces Set/Rail 200mm	⚖ (g)
E10, E12, E14, E16, E18, E20, E24	900	

## RS4325/7



Socket Set on Rail  
Juego de Vasos en Regleta



**TORX®** is a registered trademark of Acument Intellectual Properties, LLC.  
**TORX®** es una marca registrada de Acument Intellectual Properties, LLC.

Koken TOOL CO., LTD.

079

# Hand Sockets **1/2"**

HAND  
MANUALES

Z-SERIES  
INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO  
MULTIPLIER  
MULTIPLICADOR

SCREWDRIVERS  
DESTORNILLADORES  
IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

RENEWAL KITS  
MÉJICOS DE REPUESTO  
CONSTRUCTION  
CONSTRUCCIÓN

## 4325 (L140)



TORX® Extra Deep Sockets  
Vasos TORX® Extra Largos



4325(L140) (E)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	g (g)	(pcs.)
E 8	10.7	21	7	140	110	5
E10	13.2	21	8.2	140	140	5
E12	14.6	21	9.3	140	160	5
E14	16.5	21	10.6	140	180	5

## 4325 (L140) -2B



TORX® Extra Deep Sockets, Nut Grip®  
Vasos TORX® Extra Largos, Nut Grip®

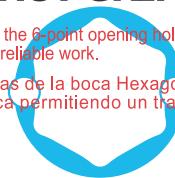


4325(L140) (E)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	g (g)	(pcs.)
E 8(2B)	10.7	21	7	140	110	5
E10(2B)	13.2	21	8.2	140	140	5
E12(2B)	14.6	21	9.3	140	160	5
E14(2B)	16.5	21	10.6	140	180	5

## NUT GRIP®

Twin balls at the 6-point opening hold bolt-nut tightly  
for safe and reliable work.

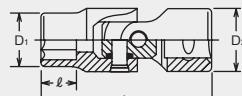
Las dos bolas de la boca Hexagonal sujetan el  
perno-tuerca permitiendo un trabajo seguro y  
fiable.



## 4440M • 4440A



6-point Universal Sockets  
Vasos Hexagonales con Articulación Universal



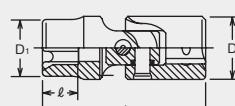
4440M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	g (g)	(pcs.)
9	14	25	8.3	63	150	10
10	15.3	25	8.8	63	155	10
11	16.5	25	10	65	158	10
12	17.8	25	10.5	65	151	10
13	19	25	11.4	66	152	10
14	20.3	25	11.4	66	151	10
15	21.5	25	13	68	149	10
16	22.8	25	13	68	150	10
17	24	25	14	69	150	10
18	25.3	25	14	69	150	10
19	26.5	25	15	71	170	10
20	27.8	25	15	71	173	5
21	29	25	16	72	176	5
22	30.3	25	16	72	185	5

4440A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	g (g)	(pcs.)
3/8	14.8	25	8.8	63	155	10
7/16	16.5	25	10	65	158	10
1/2	19	25	11.4	66	152	10
9/16	20.3	25	11.4	66	151	10
5/8	22.8	25	13	68	150	10
11/16	24.6	25	14	69	153	10
3/4	26.5	25	15	71	170	10
7/8	30.3	25	16	72	185	5

## 4440T



TORX® Universal Sockets  
Vasos TORX® con Articulación Universal

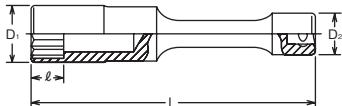


4440T (E)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	g (g)	(pcs.)
E10	13.2	25	8.2	62	145	10
E12	15	25	9.3	63	147	10
E14	16.3	25	10.6	65	148	10
E16	18.8	25	11.8	65	150	10
E18	20.4	25	13	67	153	10

# 1/2" Hand Sockets

## 4117M-125 · -250

 Extension Deep Sockets  
Vasos con Alargaderas



4117M.125 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pce.)
13	18.7	24	13	125	213	1
14	20.2	24	14	125	227	1
17	24	24	17	125	274	1
19	26.9	24	19	125	279	1
21	28.5	24	21	125	291	1
22	30	24	22	125	323	1
24	32	24	24	125	361	1
27	36.5	24	27	125	439	1
30	40	24	30	125	461	1
32	42	24	32	125	498	1

4117M.250 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pce.)
13	18.7	24	13	250	412	1
14	20.2	24	14	250	423	1
17	24	24	17	250	469	1
19	26.9	24	19	250	484	1
21	28.5	24	21	250	496	1
22	30	24	22	250	516	1
24	32	24	24	250	560	1
27	36.5	24	27	250	641	1
30	40	24	30	250	663	1
32	42	24	32	250	698	1

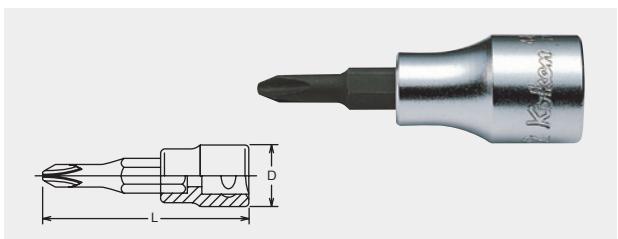
4000 (PH)	D (mm)	L (mm)	⚖️ (g)	📦 (pces.)
2	22	60	65	10
3	22	60	65	10
4	22	60	67	10

4000.60 (PZ)	D (mm)	L (mm)	⚖️ (g)	📦 (pces.)
PZ2	22	60	65	10
PZ3	22	60	65	10

4005	T×W (mm)	D (mm)	L (mm)	⚖️ (g)	📦 (pces.)
8	1.2 × 8	22	60	65	10
10	1.6 × 10	22	60	75	10
12	2.0 × 12	23	60	111	10
14	2.5 × 14	24	60	133	10
16	2.5 × 16	24	60	133	10

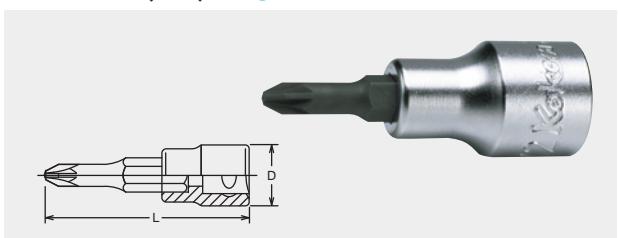
## 4000-60 (PH)

 Phillips Bit Sockets  
Vasos con Punta Phillips



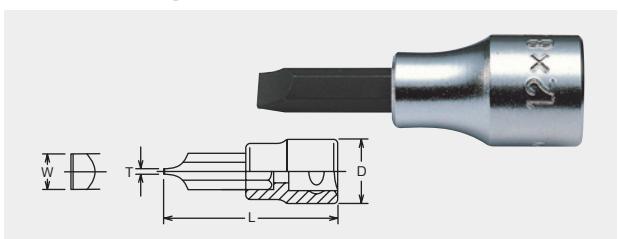
## 4000-60 (PZ)

 PZ Bit Sockets  
Vasos con Punta PZ



## 4005-60

 Slotted Bit Sockets  
Vasos con Punta Recta para Cabezas Ranuradas



# Hand Sockets **1/2"**

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM

DE TITANIO

MULTIPLIER  
MULTIPLICADOR

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

RENEWAL KITS  
MIEGOS DE REPUESTO CONSTRUCCIÓN

## 4010M-50 · -75 · -100 · -160

 Inhex Bit Sockets  
Vasos con Punta Inhex



4010M.50 (mm)	D (mm)	L (mm)	 (g)	 (pcs.)
4	22	50	61	10
5	22	50	62	10
6	22	50	64	10
7	22	50	65	10
8	22	50	66	10
10	22	50	75	10
12	23	50	105	10
14	24	50	120	10
17	25	50	150	10
19	27	50	200	5

4010M.75 (mm)	D (mm)	L (mm)	 (g)	 (pcs.)
4	22	75	69	10
5	22	75	70	10
6	22	75	72	10
7	22	75	73	10
8	22	75	74	10
10	22	75	92	10
12	23	75	130	10
14	24	75	150	10
17	25	75	180	10
19	27	75	230	5

4010M.100 (mm)	D (mm)	L (mm)	 (g)	 (pcs.)
4	22	100	77	10
5	22	100	78	10
6	22	100	80	10
7	22	100	82	10
8	22	100	84	10
10	22	100	109	10
12	23	100	155	10
14	24	100	180	5
17	25	100	250	5
19	27	100	300	5

4010M.160 (mm)	D (mm)	L (mm)	 (g)	 (pcs.)
4	22	160	103	10
5	22	160	104	10
6	22	160	106	10
7	22	160	108	10
8	22	160	110	10
10	22	160	126	10
12	23	160	180	5
14	24	160	260	5
17	25	160	360	5
19	27	160	415	5

**RS4010M/10-L50**

 Socket Set on Rail  
Juego de Vasos en Regleta

**RS4010M/10-L75**





<b>RS4010M/10-L50</b>	10 Pieces Set/Rail 300mm	 (g)
4, 5, 6, 7, 8, 10, 12, 14, 17, 19		968

<b>RS4010M/10-L75</b>	10 Pieces Set/Rail 300mm	 (g)
4, 5, 6, 7, 8, 10, 12, 14, 17, 19		1,207



# 1/2" Hand Sockets

4020-60 · -100 · -120 · -140

 XZN Bit Sockets  
Vasos con Punta XZN

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

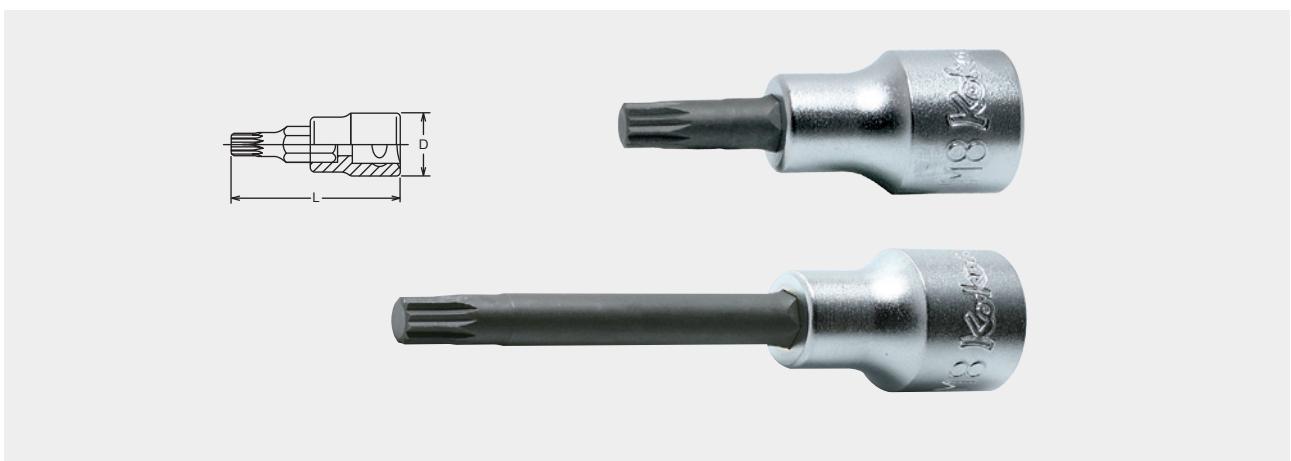
IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO



4020.60 (XZN)	D (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
M 5	22	60	60	10
M 6	22	60	61	10
M 8	22	60	63	10
M10	23	60	93	10
M12	23	60	97	10
M14	24	60	105	10
M16	25	60	165	10
M18	27	60	215	10

4020.100 (XZN)	D (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
M 5	22	100	77	10
M 6	22	100	78	10
M 8	22	100	80	10
M10	23	100	132	10
M12	23	100	136	10
M14	24	100	144	10
M16	25	100	250	5
M18	27	100	300	5

4020.120 (XZN)	D (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
M 5	22	120	86	10
M 6	22	120	87	10
M 8	22	120	89	10
M10	23	120	152	10
M12	23	120	156	10
M14	24	120	164	10

4020.140 (XZN)	D (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
M 5	22	140	95	10
M 6	22	140	96	10
M 8	22	140	98	10
M10	23	140	172	5
M12	23	140	176	5
M14	24	140	184	5

XZN	S	XZN	M4	M5	M6	M8	M10	M12	M14	M16	M18	
		S	(ref. mm)	3.60	4.80	6.00	7.20	9.60	11.41	13.22	15.63	16.85

RS4020/6-L60	6 Pieces Set/Rail 150mm	⚖️ (g)
M5, M6, M8, M10, M12, M14	500	

## RS4020/6-L60

  Socket Set on Rail  
Juego de Vasos en Regleta



# Hand Sockets **1/2"**

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

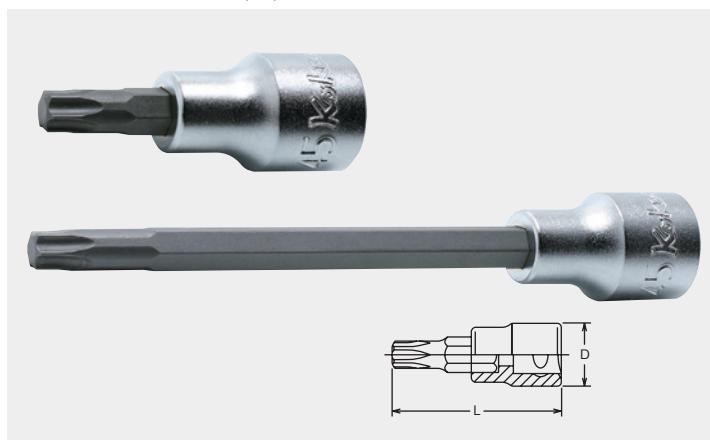
AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
MÉJICOS DE REPUESTO

## 4025-60 · -140 (T)

 TORX® Bit Sockets  
Vasos con Punta TORX®



4025.60 (T)	D (mm)	L (mm)	(g)	(pcs.)
T20	22	60	59	10
T25	22	60	60	10
T27	22	60	60	10
T30	22	60	60	10
T40	22	60	62	10
T45	22	60	64	10
T50	22	60	74	10
T55	23	60	96	10
T60	24	60	122	10
T70	24	60	135	10

## RS4025/9-L60

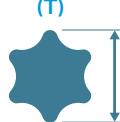
  Socket Set on Rail  
Juego de Vasos en Regleta



4025.140 (T)	D (mm)	L (mm)	(g)	(pcs.)
T20	22	140	94	10
T25	22	140	95	10
T27	22	140	95	10
T30	22	140	95	10
T40	22	140	97	10
T45	22	140	99	10
T50	22	140	129	10
T55	23	140	175	5
T60	24	140	229	5
T70	24	140	245	5

RS4025/9-L60	9 Pieces Set/Rail 250mm	(g)
T20, T25, T27, T30, T40, T45, T50, T55, T60	700	

**TORX®**



T	T8	T9	T10	T15	T20	T25	T27	T30	T40	T45	T50	T55	T60	T70	T80	T90	T100
S (ref. mm)	2.30	2.48	2.72	3.26	3.84	4.40	4.96	5.49	6.60	7.77	8.79	11.17	13.20	15.49	17.51	19.88	22.09

## 4025-60-T35

 Bit Socket  
Vasos con Punta



4025.60 (T)	D (mm)	L (mm)	(g)	(pcs.)
T35	22	60	96	10

4025.60 (IP)	D (mm)	L (mm)	(g)	(pcs.)
20IP	22	60	60	10
25IP	22	60	60	10
27IP	22	60	60	10
30IP	22	60	60	10
40IP	22	60	60	10
45IP	22	60	64	10
50IP	22	60	74	10
55IP	23	60	96	10
60IP	24	60	122	10

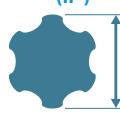
## 4025-60 · -100 (IP)

 TORX PLUS® Bit Sockets  
Vasos con Punta TORX PLUS®



4025.100 (IP)	D (mm)	L (mm)	(g)	(pcs.)
40IP	22	100	79	10
45IP	22	100	81	10
50IP	22	100	100	10
55IP	23	100	133	10
60IP	24	100	172	5
70IP	25	100	241	5

**TORXplus®**



IP	8IP	9IP	10IP	15IP	20IP	25IP	27IP	30IP	40IP	45IP	50IP	55IP	60IP	70IP
S (ref. mm)	2.29	2.48	2.72	3.25	3.84	4.39	4.95	5.49	6.60	7.77	8.79	11.16	13.20	15.49

## RS4025/9-IP

 Socket Set on Rail  
Juego de Vasos en Regleta



RS4025/9-IP	9 Pieces set/Rail 250mm	(g)
20IP, 25IP, 27IP, 30IP, 40IP, 45IP, 50IP, 55IP, 60IP	700	

**TORX®** is a registered trademark of Acument Intellectual Properties, LLC.  
**TORX®** es una marca registrada de Acument Intellectual Properties, LLC.

**TORXplus®** is a registered trademark of Acument Intellectual Properties, LLC.  
**TORXplus®** es una marca registrada de Acument Intellectual Properties, LLC.

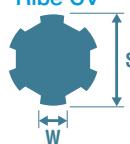
# 1/2" Hand Sockets

4027.60	D (mm)	L (mm)	(g)	(pcs.)
M 5	22	60	60	10
M 6	22	60	62	10
M 7	22	60	63	10
M 8	22	60	64	10
New M 9	22	60	70	10
M10	22	60	74	10
M12	23	60	96	10
New M13	24	60	116	10
M14	24	60	122	10
M16	24	60	135	10

4027.100	D (mm)	L (mm)	(g)	(pcs.)
M 5	22	100	67	10
M 6	22	100	68	10
New M 7	22	100	75	10
M 8	22	100	81	10
New M 9	22	100	90	10
M10	22	100	101	10
M12	23	100	134	10
New M13	24	100	155	10
M14	24	100	173	10
M16	24	100	241	5

4027.140	D (mm)	L (mm)	(g)	(pcs.)
M 8	22	140	98	10
M10	22	140	127	5
M12	23	140	171	5
M14	24	140	226	5
M16	24	140	320	5

Ribe CV



CV	M5	M6	M7	M8	M9	M10	M12	M13	M14	M16
S (ref. mm)	5	6	7	8	9	10	12	13	14	16
W (ref. mm)	1.1	1.3	1.4	1.7	1.9	2.2	2.6	3.0	3.1	3.5

RS4027/6-L60	6 Pieces set/Rail 200mm	(g)
New M5, M6, M8, M10, M12, M14	600	

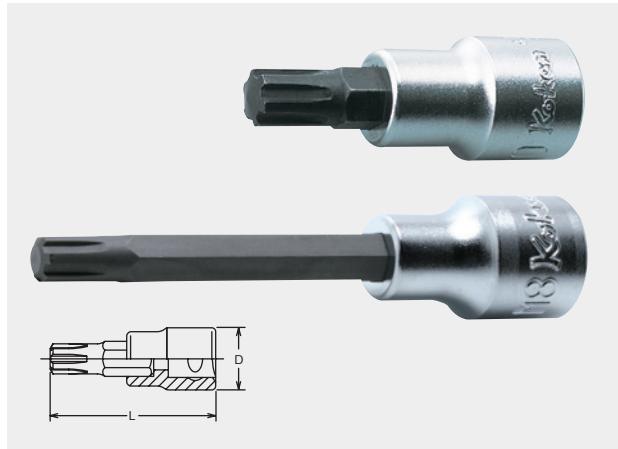
4001 (PH)	D (mm)	L (mm)	(g)	(pcs.)
1	21	60	49	10
2	21	60	53	10
3	21	60	55	10
4	21	60	57	10

4006	T×W (mm)	D (mm)	L (mm)	(g)	(pcs.)
5	1.0× 5.5	21	60	53	10
8	1.2× 8	21	60	62	10
10	1.6×10	21	60	67	10
12	2.0×12	21	60	72	10
14	2.5×14	21	60	81	10
16	2.5×16	21	60	88	10

4001, 4006 are for hand use only.  
Do not use with a power or impact wrench.

## 4027-60 · -100 · -140

Bit Sockets for Ribe Screws  
Vasos con Punta para Tornillos Ribe



## RS4027/6-L60

Socket Set on Rail  
Juego de Vasos en Regleta



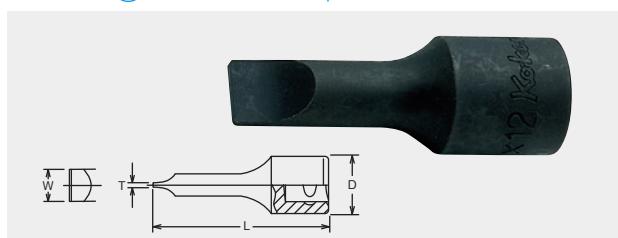
## 4001

Phillips Bit Sockets  
Vasos con Punta Phillips



## 4006

Slotted Bit Sockets  
Vasos con Punta Recta para Cabezas Ranuradas



HAND  
MANUALES

Z-SERIES  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

# Hand Sockets **1/2"**

HAND  
MANUALES

**4012M-43 · -60 · -75 · -100**

Inhex sockets  
Vasos Inhex



				TITANIUM DE TITANIO	MULTIPLIER MULTIPLICADOR	ACCESSORIES ACCESORIOS
4012M.43	D (mm)	l (mm)	L (mm)	⚖ (g)	📦 (pcs.)	
<b>4</b>	21.1	11.5	43	40	10	
<b>5</b>	21.1	11.5	43	46	10	
<b>6</b>	21.1	11.5	43	42	10	
<b>7</b>	21.1	11.5	43	46	10	
<b>8</b>	21.1	11.5	43	49	10	
<b>9</b>	21.1	11.5	43	63	10	
<b>10</b>	23	11.5	43	63	10	
<b>11</b>	25	11.5	43	74	10	
<b>12</b>	25	11.5	43	81	10	
<b>13</b>	25	11.5	43	85	10	
<b>14</b>	25	11.5	43	88	10	
<b>15</b>	26	11.5	43	91	10	
<b>16</b>	26	11.5	43	100	10	
<b>17</b>	26	11.5	43	101	10	
<b>18</b>	26	11.5	43	106	10	
<b>19</b>	26	11.5	43	110	10	
<b>20</b>	26	11.5	43	130	10	
<b>21</b>	26	11.5	43	140	10	
<b>22</b>	26	11.5	43	145	10	
<b>23</b>	28	11.5	43	167	10	
<b>24</b>	28	11.5	43	170	10	
<b>27</b>	32	11.5	43	226	10	

				TITANIUM DE TITANIO	MULTIPLIER MULTIPLICADOR	ACCESSORIES ACCESORIOS
4012M.60	D (mm)	l (mm)	L (mm)	⚖ (g)	📦 (pcs.)	
<b>4</b>	21.1	15.5	60	49	10	
<b>5</b>	21.1	15.5	60	55	10	
<b>6</b>	21.1	15.5	60	56	10	
<b>7</b>	21.1	15.5	60	60	10	
<b>8</b>	21.1	15.5	60	64	10	
<b>9</b>	21.1	15.5	60	78	10	
<b>10</b>	23	15.5	60	78	10	
<b>11</b>	25	15.5	60	100	10	
<b>12</b>	25	15.5	60	107	10	
<b>13</b>	25	15.5	60	111	10	
<b>14</b>	25	15.5	60	122	10	
<b>15</b>	26	15.5	60	125	10	
<b>16</b>	26	15.5	60	134	10	
<b>17</b>	26	15.5	60	141	10	
<b>18</b>	26	15.5	60	153	10	
<b>19</b>	26	15.5	60	159	10	
<b>21</b>	26	15.5	60	197	10	
<b>22</b>	26	22.5	60	205	10	
<b>23</b>	28	22.5	60	242	10	
<b>24</b>	28	22.5	60	245	10	

				SCREWDRIVERS DESTORNILLADORES	IMPACT DE IMPACTO	POWER MECÁNICOS
4012M.75	D (mm)	l (mm)	L (mm)	⚖ (g)	📦 (pcs.)	
<b>4</b>	21.1	15.5	75	52	10	
<b>5</b>	21.1	15.5	75	58	10	
<b>6</b>	21.1	15.5	75	62	10	
<b>7</b>	21.1	15.5	75	70	10	
<b>8</b>	21.1	15.5	75	74	10	
<b>9</b>	21.1	15.5	75	88	10	
<b>10</b>	23	15.5	75	94	10	
<b>11</b>	25	15.5	75	119	10	
<b>12</b>	25	15.5	75	122	10	
<b>13</b>	25	15.5	75	137	10	
<b>14</b>	25	15.5	75	148	10	
<b>15</b>	26	15.5	75	151	10	
<b>16</b>	26	15.5	75	171	10	
<b>17</b>	26	15.5	75	184	10	
<b>18</b>	26	15.5	75	196	10	
<b>19</b>	26	15.5	75	212	10	

				SCREWDRIVERS DESTORNILLADORES	IMPACT DE IMPACTO	POWER MECÁNICOS
4012M.100	D (mm)	l (mm)	L (mm)	⚖ (g)	📦 (pcs.)	
<b>4</b>	24	15.5	100	75	10	
<b>5</b>	24	15.5	100	81	10	
<b>6</b>	24	15.5	100	85	10	
<b>7</b>	24	15.5	100	93	10	
<b>8</b>	24	15.5	100	97	10	
<b>9</b>	24	15.5	100	111	10	
<b>10</b>	24	15.5	100	117	10	
<b>11</b>	24	15.5	100	142	10	
<b>12</b>	24	15.5	100	143	10	
<b>13</b>	24	15.5	100	158	10	
<b>14</b>	24	15.5	100	169	10	
<b>15</b>	24	15.5	100	172	10	
<b>16</b>	24	15.5	100	192	5	
<b>17</b>	24	15.5	100	215	5	
<b>18</b>	24	15.5	100	227	5	
<b>19</b>	24	15.5	100	243	5	

**RS4012M/10-L60** **Socket Set on Rail**  
Juego de Vasos en Regleta



RS4012M/10-L60	10 Pieces set/Rail 300mm	⚖ (g)
4, 5, 6, 7, 8, 10, 12, 14, 17, 19		910

4012M/A are for hand use only.  
Do not use with a power or impact wrench.

# 1/2" Hand Sockets

The logo consists of a blue hexagonal icon inside a white circle, followed by the text "Inhex sockets" and "Vasos Inhex" in blue.



**4012A-43 • -60 • -75 • -100**



4012A.43 (inch)	D (mm)	$\ell$ (mm)	L (mm)	 (g)	 (pcs.)
5/32	21.1	11.5	43	40	10
3/16	21.1	11.5	43	46	10
7/32	21.1	11.5	43	42	10
1/4	21.1	11.5	43	43	10
9/32	21.1	11.5	43	46	10
5/16	21.1	11.5	43	49	10
11/32	21.1	11.5	43	63	10
3/8	23	11.5	43	59	10
7/16	25	11.5	43	74	10
1/2	25	11.5	43	85	10
9/16	25	11.5	43	88	10
5/8	26	11.5	43	100	10
3/4	26	11.5	43	110	10

4012A.60 (inch)	D (mm)	$\ell$ (mm)	L (mm)	 (g)	 (pcs.)
<b>5/32</b>	21.1	15.5	60	49	10
<b>3/16</b>	21.1	15.5	60	55	10
<b>7/32</b>	21.1	15.5	60	56	10
<b>1/4</b>	21.1	15.5	60	57	10
<b>9/32</b>	21.1	15.5	60	60	10
<b>5/16</b>	21.1	15.5	60	64	10
<b>11/32</b>	21.1	15.5	60	78	10
<b>3/8</b>	23	15.5	60	74	10
<b>7/16</b>	25	15.5	60	100	10
<b>1/2</b>	25	15.5	60	111	10
<b>9/16</b>	25	15.5	60	122	10
<b>5/8</b>	26	15.5	60	134	10
<b>3/4</b>	26	15.5	60	159	10

4012A.75 (inch)	D (mm)	$\ell$ (mm)	L (mm)	 (g)	 (pcs.)
5/32	21.1	15.5	75	52	10
3/16	21.1	15.5	75	58	10
7/32	21.1	15.5	75	62	10
1/4	21.1	15.5	75	65	10
9/32	21.1	15.5	75	70	10
5/16	21.1	15.5	75	74	10
11/32	21.1	15.5	75	88	10
3/8	23	15.5	75	86	10
7/16	25	15.5	75	119	10
1/2	25	15.5	75	137	10
9/16	25	15.5	75	148	10
5/8	26	15.5	75	171	10
3/4	26	15.5	75	212	10

4012A.100 (inch)	D (mm)	$\ell$ (mm)	L (mm)	 (g)	 (pcs.)
5/32	24	15.5	100	75	10
3/16	24	15.5	100	81	10
7/32	24	15.5	100	85	10
1/4	24	15.5	100	88	10
9/32	24	15.5	100	93	10
5/16	24	15.5	100	97	10
11/32	24	15.5	100	111	10
3/8	24	15.5	100	109	10
7/16	24	15.5	100	142	10
1/2	24	15.5	100	158	10
9/16	24	15.5	100	169	10
5/8	24	15.5	100	192	5
3/4	24	15.5	100	243	5

**RS4012A/10-L60**   Socket Set on Rail  
Juego de Vasos en Regleta



RS4012A/10-L60	10 Pieces set/Rail 300mm	 (g)
3/16, 7/32, 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 3/4		950



 4012M/A are for hand use only.  
Do not use with a power or impact wrench.

# Hand Sockets **1/2"**

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECANICOS

AUTOMOTIVE

CONSTRUCTION

RENEWAL KITS  
MUECOS DE REPUESTO

## 3749S-1/2

Reversible Ratchet Short  
Llave de Carraca Reversible Corta



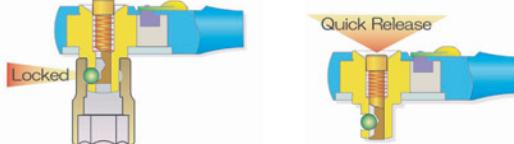
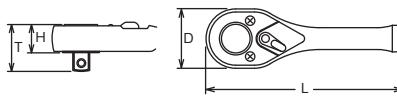
\* Renewal Kits → 3749SRK-1/2 → P273

## 3749SB-1/2

Reversible Ratchet short with quick release button  
Llave de Carraca Reversible corta con botón de extracción rápida



\* Renewal Kits → 3749SRK-1/2 → P273



	D (mm)	T (mm)	H (mm)	L (mm)	秤 (g)	(pce.)
3749S-1/2	34	29	14.4	110	200	5
3749SB-1/2	34	29	14.4	110	200	5

⚠ Reversible Ratchet with quick release button has less strength compared with normal ratchet due to the technical design. Make sure to use the ratchet correctly.

## 4749N-250

Reversible Ratchet  
Llave de Carraca Reversible



\* Renewal Kits → 4749RK → P273



	D (mm)	T (mm)	H (mm)	L (mm)	秤 (g)	(pce.)
4749N-250	44.6	33	18.4	250	616	1

## 4749N-380

Reversible Ratchet (long)  
Llave de Carraca Reversible (larga)



\* Renewal Kits → 4749RK → P273



## 4749J-380

Reversible Ratchet (long)  
Llave de Carraca Reversible (larga)



\* Renewal Kits → 4749RK → P273



	D (mm)	T (mm)	H (mm)	L (mm)	秤 (g)	(pce.)
4749N-380	44.6	33	18.4	380	753	1
4749J-380	44.6	33	18.4	380	743	1

# 1/2" Hand Sockets



## [4750 series]

PATENTED

Two dogs are set in the same axis and the three teeth hold the ratchet gear.  
The enlarged contact area produces an about 10% higher torque value and the S.O.D.H system provides smooth and light movements.

Se disponen dos trinquetes en el mismo eje y la rueda de la llave de carraca se bloquea por medio de tres dientes. El aumento de la superficie de contacto produce un aumento del par de aproximadamente 10% y el sistema S.O.D.H permite movimientos suaves y sin esfuerzo.



\* Renewal Kits → 4750RK ➔ P273

**4750N**

Reversible Ratchet  
Llave de Carraca Reversible

PATENTED



\* Renewal Kits → 4750RK ➔ P273

**4750P**

Reversible Ratchet  
Llave de Carraca Reversible

PATENTED



\* Renewal Kits → 4750RK ➔ P273

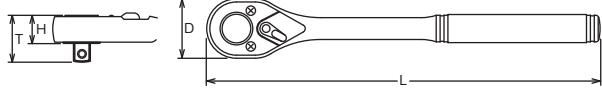
**4750J**

Reversible Ratchet  
Llave de Carraca Reversible

PATENTED



	D (mm)	T (mm)	H (mm)	L (mm)	(g) (g)	(pce.)
4750N	38	35.9	21.3	250	548	1
4750P	38	35.9	21.3	250	553	1
4750J	38	35.9	21.3	250	508	1



\* Renewal Kits → 4750BRK ➔ P273

**4750NB**

Reversible Ratchet with quick release button  
Llave de Carraca con botón de extracción rápida



PATENTED



\* Renewal Kits → 4750BRK ➔ P273

**4750PB**

Reversible Ratchet with quick release button  
Llave de Carraca con botón de extracción rápida



PATENTED



\* Renewal Kits → 4750BRK ➔ P273

**4750JB**

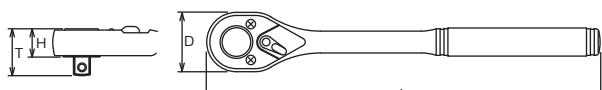
Reversible Ratchet with quick release button  
Llave de Carraca con botón de extracción rápida



PATENTED



	D (mm)	T (mm)	H (mm)	L (mm)	(g) (g)	(pce.)
4750NB	38	35.9	21.3	250	548	1
4750PB	38	35.9	21.3	250	553	1
4750JB	38	35.9	21.3	250	508	1



Reversible Ratchet with quick release button has less strength compared with normal ratchet due to the technical design. Make sure to use the ratchet correctly.

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

# Hand Sockets **1/2"**

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM

DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
MÉJICOS DE REPUESTO

**4752N**

Reversible Ratchet  
Llave de Carraca Reversible



\* Renewal Kits → 4752RK ➔ P273

[L/R Marking]



**4752J**

Reversible Ratchet  
Llave de Carraca Reversible



\* Renewal Kits → 4752RK ➔ P273

**4753N**

Reversible Ratchet  
Llave de Carraca Reversible



\* Renewal Kits → 4753RK ➔ P273

**4753P**

Reversible Ratchet  
Llave de Carraca Reversible



\* Renewal Kits → 4753RK ➔ P273

**4753J**

Reversible Ratchet  
Llave de Carraca Reversible



\* Renewal Kits → 4753RK ➔ P273

**4753P-410**

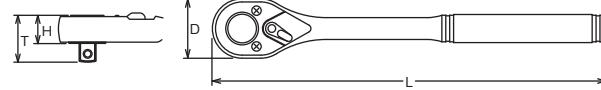
Reversible Ratchet (long)  
Llave de Carraca Reversible (larga)



	D (mm)	T (mm)	H (mm)	L (mm)	G (g)	(pce.)
4753N	38	36.2	21.6	250	595	1
4753P	38	36.2	21.6	250	570	1
4753J	38	36.2	21.6	250	545	1



\* Renewal Kits → 4753RK ➔ P273



	D (mm)	T (mm)	H (mm)	L (mm)	G (g)	(pce.)
4753P-410	38	36.2	21.6	410	790	1

# 1/2" Hand Sockets

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN  
RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO



\* Renewal Kits → 4753BRK ➔ P273

**4753NB**

Reversible Ratchet with quick release button  
Llave de Carraca Reversible con botón de extracción rápida



\* Renewal Kits → 4753BRK ➔ P273

**4753PB**

Reversible Ratchet with quick release button  
Llave de Carraca Reversible con botón de extracción rápida



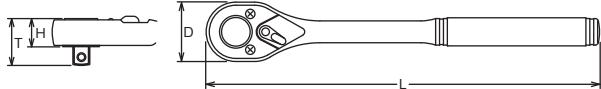
\* Renewal Kits → 4753BRK ➔ P273

**4753JB**

Reversible Ratchet with quick release button  
Llave de Carraca Reversible con botón de extracción rápida

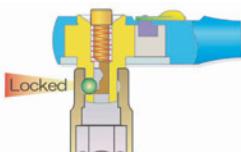


	D (mm)	T (mm)	H (mm)	L (mm)	Weight (g)	(pce.)
4753NB	38	36.2	21.6	250	595	1
4753PB	38	36.2	21.6	250	570	1
4753JB	38	36.2	21.6	250	545	1



Reversible Ratchet with quick release button has less strength compared with normal ratchet due to the technical design. Make sure to use the ratchet correctly.

**Reversible Ratchet with Quick Release Button :**  
Sockets and accessories are safely locked.  
By pushing the button the sockets or extension bars are released from the ratchet.



**Llave de Carraca Reversible con Botón de Extracción Rápida :** Los vasos y accesorios se bloquean en posición. Los vasos o las alargaderas se extraen de la llave apretando el botón.

## GEAR TEETH



4749series



4753series



4750series



4752series



4774series



# Hand Sockets **1/2"**

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECANICOS

AUTOMOTIVE

CONSTRUCTION

RENEWAL KITS  
MIEGOS DE REPUESTO

**4774N** Flexible Ratchet, reversible  
Llave de Carraca Flexible, reversible



\* Renewal Kits → 4753RK → P273



**4774P** Flexible Ratchet, reversible  
Llave de Carraca Flexible, reversible



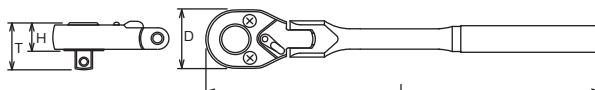
\* Renewal Kits → 4753RK → P273



**4774J** Flexible Ratchet, reversible  
Llave de Carraca Flexible, reversible



\* Renewal Kits → 4753RK → P273

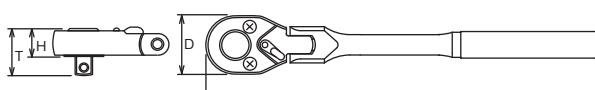


	D (mm)	T (mm)	H (mm)	L (mm)	kg (g)	(pce.)
4774N	38	36.2	21.6	330	700	1
4774P	38	36.2	21.6	330	700	1
4774J	38	36.2	21.6	330	685	1

**4774P-450** Flexible Ratchet, reversible  
Llave de Carraca Flexible, reversible



\* Renewal Kits → 4753RK → P273



	D (mm)	T (mm)	H (mm)	L (mm)	kg (g)	(pce.)
4774P-450	38	36.2	21.6	450	790	1

4774P-450 has longer handle than standard, and can be loaded to excessive torque value. In the interest of your own safety always apply load evenly and progressively to avoid breakage and possible injury.

# 1/2" Hand Sockets



\* Renewal Kits → 4753BRK ➔ P273

**4774NB**

Flexible Ratchet, reversible with quick release button  
Llave de Carraca Flexible, reversible con botón de extracción rápida



\* Renewal Kits → 4753BRK ➔ P273

**4774PB**

Flexible Ratchet, reversible with quick release button  
Llave de Carraca Flexible, reversible con botón de extracción rápida



\* Renewal Kits → 4753BRK ➔ P273

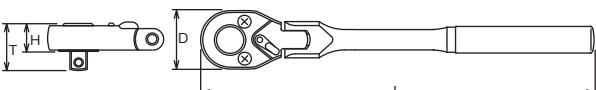
**4774JB**

Flexible Ratchet, reversible with quick release button  
Llave de Carraca Flexible, reversible con botón de extracción rápida



	D (mm)	T (mm)	H (mm)	L (mm)	(g)	(pce.)
4774NB	38	36.2	21.6	330	700	1
4774PB	38	36.2	21.6	330	700	1
4774JB	38	36.2	21.6	330	685	1

Reversible Ratchet with quick release button has less strength compared with normal ratchet due to the technical design. Make sure to use the ratchet correctly.



**Reversible Ratchet with Quick Release Button :**  
Sockets and accessories are safely locked.

By pushing the button the sockets or extension bars are released from the ratchet.

**Llave de Carraca Reversible con Botón de Extracción Rápida :** Los vasos y accesorios se bloquean en posición. Los vasos o las alargaderas se extraen de la llave apretando el botón.

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

# Hand Sockets **1/2"**

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM

DE TITANIO

MULTIPLIER  
MULTIPLICADORACCESSORIES  
ACCESORIOSSCREWDRIVERS  
DESTORNILLADORESIMPACT  
DE IMPACTOPOWER  
MECANICOS

AUTOMOTIVE

RENEWAL KITS  
MIEGOS DE REPUESTO

## 4768N-300 · -380 · -450

Hinge Handles  
Mangos Articulados

\* Renewal Kits → 4768RK ➔ P274



## 4768P-380 · -450

Hinge Handles  
Mangos Articulados

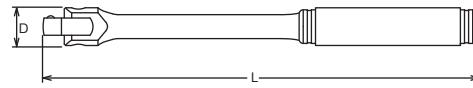
\* Renewal Kits → 4768RK ➔ P274



## 4768J-380 · -450

Hinge Handles  
Mangos Articulados

\* Renewal Kits → 4768RK ➔ P274



4768-450 has longer handle than standard, and can be loaded to excessive torque value. Please use carefully.

	D (mm)	L (mm)	⚖ (g)	📦 (pce.)
4768N-300	28	300	600	2
4768N-380	28	380	696	2
4768N-450	28	450	784	2
4768P-380	28	380	665	2
4768P-450	28	450	748	2
4768J-380	28	380	600	1
4768J-450	28	450	690	1

## 4768N-600

Hinge Handle  
Mango Articulado

\* Renewal Kits → 4768RK ➔ P274



## 4768P-600

Hinge Handle  
Mango Articulado

\* Renewal Kits → 4768RK ➔ P274



## 4768J-600

Hinge Handle  
Mango Articulado

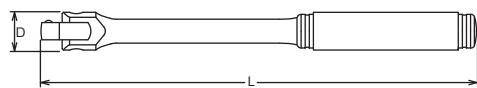
\* Renewal Kits → 4768RK ➔ P274



4768-600 has longer handle than standard, and can be loaded to excessive torque value. In the interest of your own safety always apply load evenly and progressively to avoid breakage and possible injury.

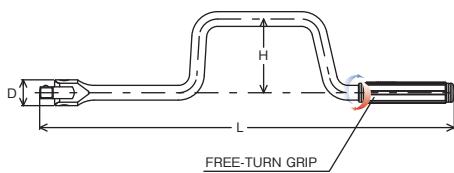
	D (mm)	L (mm)	⚖ (g)	📦 (pce.)
4768N-600	28	600	1100	1
4768P-600	28	600	1170	1
4768J-600	28	600	1120	1

## 4768R-380 · -450

Hinge Handles  
Mangos Articulados

	D (mm)	L (mm)	⚖ (g)	📦 (pce.)
4768R-380	28	380	767	1
4768R-450	28	450	855	1

# 1/2" Hand Sockets



**4781N-450**

Flexible Speed Handle  
Manivela Rápida Flexible



\* Renewal Kits → 4768RK ➔ P274

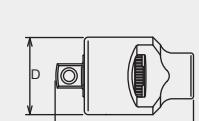


**4755**

Ratchet Adaptor  
Adaptador de carraca

45

\* Renewal Kits → 4755RK ➔ P274

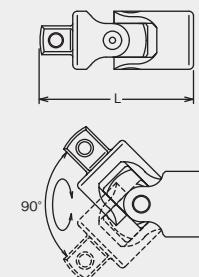


	D (mm)	L (mm)	g (g)	(pcs.)
4755	33.5	65	270	5

**4770**

Universal Joint  
Articulación Universal

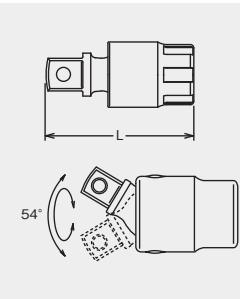
PATENTED



	L (mm)	g (g)	(pcs.)
4770	62.4	150	10

**4771**

Universal Joint  
Articulación Universal



	L (mm)	g (g)	(pcs.)
4771	57.7	113	10

# Hand Sockets **1/2"**

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

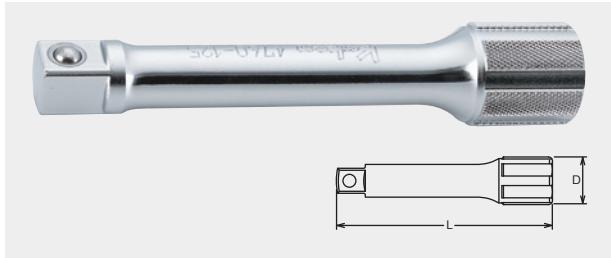
AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
MIEGOS DE REPUESTO

Extension Bars  
Alargaderas

PATENTED



## 4760-50 · -75 · -100 · -125 · -150 · -200 · -250 · -300 · -400 · -500 · -600 · -900 · -1000

Extension Bars  
Alargaderas

PATENTED

4760	D (mm)	L (mm)	 (g)	 (pcs.)
50	24	50	92	10
75	24	75	138	10
100	24	100	158	5
125	24	125	194	5
150	24	150	266	5
200	24	200	295	5
250	24	250	358	5
300	24	300	492	2
400	24	400	650	1
500	24	500	808	1
600	24	600	968	1
900	24	900	1430	1
1000	24	1000	1593	1

## PK4760/5 Set Juego



**PK4760/5**  
PLASTIC TRAY  
Extension Bars  
4760 Extension Bars  
50, 75, 125, 150, 250

## 4763-50 · -75 · -125 · -150 · -250

Wobble-Fix Extension Bars  
Alargaderas Articuladas-Fijas



PATENTED



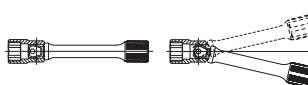
4763	D (mm)	L (mm)	 (g)	 (pcs.)
50	24	50	95	10
75	24	75	111	10
125	24	125	157	5
150	24	150	181	5
250	24	250	357	5

**Wobble-Fix Extension Bar**  
The Wobble-Fix Extension Bar has less strength than normal extension bar due to its specific design with a reduced square drive. Make sure to use it correctly.

## PK4763/5 Set Juego



**PK4763/5**  
PLASTIC TRAY  
Extension Bars  
4763 Wobble-Fix Extension Bars  
50, 75, 125, 150, 250



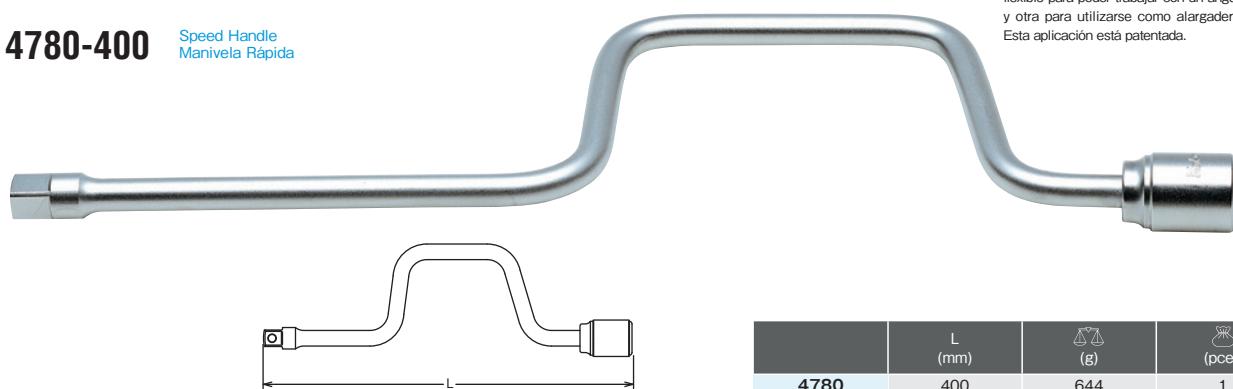
### Wobble-Fix Extension Bar

Two way usage : one for as a flexible extension bar to provide at 15° angle operation, the other for use as a normal extension bar. This usage is Patent.

### Alargadera Articulada-Fija

Dos formas de utilización : Una como alargadera flexible para poder trabajar con un ángulo de 15° y otra para utilizarse como alargadera normal. Esta aplicación está patentada.

## 4780-400 Speed Handle Manivela Rápida



4780	L (mm)	 (g)	 (pce.)
	400	644	1

# 1/2" Hand Sockets

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

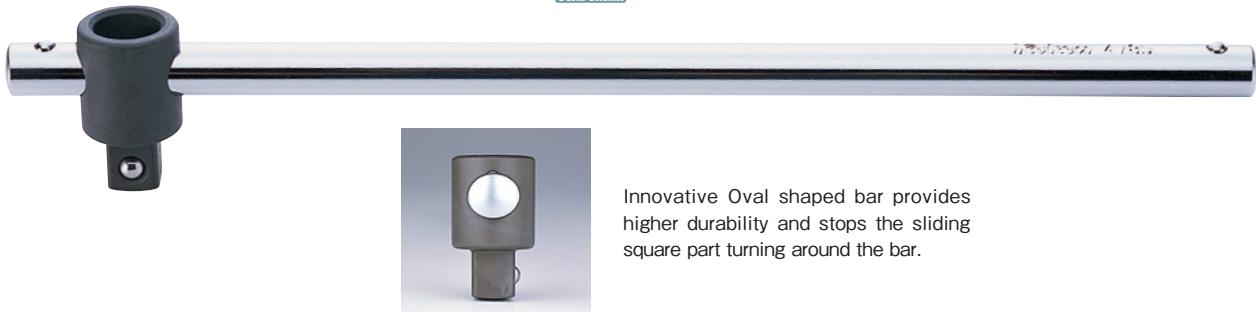
RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO



**4785**

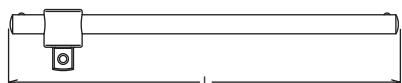
T-Handle  
Mango Corredizo

PATENTED



	L (mm)	 (g)	 (pcs.)
<b>4785</b>	300	410	2

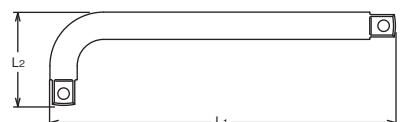
Innovative Oval shaped bar provides higher durability and stops the sliding square part turning around the bar.



**4747**

L-Handle  
Mango Acodado

	L <sub>1</sub> (mm)	L <sub>2</sub> (mm)	 (g)	 (pce.)
<b>4747</b>	260	50	470	1



**4788-250 · -300**

L-Handles  
Mango Acodado

	L <sub>1</sub> (mm)	L <sub>2</sub> (mm)	 (g)	 (pcs.)
<b>4788</b>	250	53	417	2
	300	53	503	1



**4433A-35 · -125 · -250 · -600**

Adapters

Adaptadores

Warranty 290Nm

Garantía 290Nm



**4466A** Adaptor  
Adaptador

	 (sq.)	 (sq.)	L (mm)	 (g)	 (pcs.)
<b>4466A</b>	1/2"	3/8"	35	50	10
	125	3/8"	125	164	5
	250	3/8"	250	275	5
	600	3/8"	600	530	1

Adapting down from bigger square drive to smaller square drive may lead to excessive torque and possibly cause breakage.

La adaptación de mayor a menor de un cuadrado conductor puede conducir a un par excesivo que puede causar roturas.



# Hand Sockets **1/2"**

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECANICOS

AUTOMOTIVE

RENEWAL KITS  
JUEGOS DE REPUESTO

**4222M** Socket Set  
Juego de Vasos



**4223M** Socket Set  
Juego de Vasos



**4227M** Bit Socket Set  
Juego de Vasos con Punta



**4230M • 4230A** Socket Sets  
Juegos de Vasos



**4232M** Socket Set  
Juego de Vasos



**4222M** 13 Pieces Set/ $\Delta\Delta$ =2,780g

METAL CASE: W415×H120×T50mm

Sockets	Accessories	
<b>4405M</b> 12-pt. Sockets 10, 11, 12, 13, 14, 17, 19, 21, 22, 24	4753N 4760-125 4770	

**4223M** 15 Pieces Set/ $\Delta\Delta$ =2,600g

METAL CASE: W415×H120×T50mm

Sockets	Accessories	
<b>4405M</b> 12-pt. Sockets 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22	4753N 4760-125 4770	

**4227M** 10 Pieces Set/ $\Delta\Delta$ =2,550g

METAL CASE: W310×H150×T50mm

Sockets	Accessories	
<b>4012M.75</b> Hex Bit Sockets 5, 6, 8, 10, 12, 14, 17	4749N-250 4760-75 4760-125	

**4230M** 17 Pieces Set/ $\Delta\Delta$ =3,150g

METAL CASE: W395×H90×T50mm

Sockets	Accessories	
<b>4405M</b> 12-pt. Sockets 9, 10, 12, 13, 14, 15, 16, 17, 18, 19, 21, 23, 26	4753N 4760-125 4768N-380 4710	

**4230A** 17 Pieces Set/ $\Delta\Delta$ =3,150g

METAL CASE: W395×H90×T50mm

Sockets	Accessories	
<b>4405A</b> 12-pt. Sockets 3/8, 7/16, 1/2, 9/16, 19/32, 5/8, 11/16, 3/4, 25/32, 13/16, 7/8, 15/16, 1	4753N 4760-125 4768N-380 4710	

**4232M** 16 Pieces Set/ $\Delta\Delta$ =3,300g

METAL CASE: W415×H120×T50mm

Sockets	Accessories	
<b>4405M</b> 12-pt. Sockets 8, 9, 10, 12, 13, 14, 17, 19, 21, 22, 23, 24, 26	4753N 4760-125 4768N-380	

# 1/2" Hand Sockets

**4240M-00 · 4240A-00**  
**4240M-05 · 4240A-05**

Display Stands  
Expositores

PATENTED

4240M-00 4400M 32 Pieces Set/ $\Delta\wedge$ =4,400g  
4240M-05 4405M 32 Pieces Set/ $\Delta\wedge$ =4,400g

DISPLAY STAND: W410×H160×T500mm

Sockets

Sockets (2pcs.each)

10, 11, 12, 13, 14, 15, 16, 17, 19, 21, 22, 23, 24, 27, 30, 32

4240A-00 4400A 32 Pieces Set/ $\Delta\wedge$ =4,700g  
4240A-05 4405A 32 Pieces Set/ $\Delta\wedge$ =4,700g

DISPLAY STAND: W410×H160×T500mm

Sockets

Sockets (2pcs.each)

3/8, 7/16, 1/2, 9/16, 19/32, 5/8, 11/16, 3/4, 13/16, 7/8,  
15/16, 1, 1.1/16, 1.1/8, 1.3/16, 1.1/4



**S4240M-00 · S4240A-00**  
**S4240M-05 · S4240A-05**

Display Stands  
Expositores

S4240M-00 4400M 117 Pieces Set/ $\Delta\wedge$ =13,000g  
S4240M-05 4405M 117 Pieces Set/ $\Delta\wedge$ =13,000g

DISPLAY STAND: W510×H150×T230mm

Sockets

10mm:9pcs	16mm:9pcs	24mm:6pcs
11mm:9pcs	17mm:8pcs	27mm:5pcs
12mm:9pcs	19mm:7pcs	30mm:5pcs
13mm:9pcs	21mm:7pcs	32mm:4pcs
14mm:9pcs	22mm:6pcs	
15mm:9pcs	23mm:6pcs	

S4240A-00 4400A 103 Pieces Set/ $\Delta\wedge$ =13,000g  
S4240A-05 4405A 103 Pieces Set/ $\Delta\wedge$ =13,000g

DISPLAY STAND: W510×H150×T230mm

Sockets

3/8":9pcs	11/16":8pcs	1":5pcs
7/16":9pcs	3/4":7pcs	1.1/16":5pcs
1/2":9pcs	13/16":7pcs	1.1/8":5pcs
9/16":9pcs	7/8":6pcs	1.3/16":5pcs
5/8":9pcs	15/16":6pcs	1.1/4":4pcs



HAND  
MANUALES

Z-SERIES  
INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO  
MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS  
SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN  
RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

# Hand Sockets **1/2"**

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECANICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE REPUESTO

**4238AM** Socket Set  
Juego de Vasos



**4238AM** 38 Pieces Set/ $\Delta\Delta=$ 8,050g  
METAL CASE:W446×H266×T50mm

Sockets	Accessories
<b>4405M</b> 12-pt. Sockets 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24, 26, 27, 30, 32	4753N
<b>4405A</b> 12-pt. Sockets 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1.1/16, 1.1/8, 1.1/4	4760-125 4760-250
<b>4300C</b> Spark Plug Socket 20.8	4770 4780 4785

**4241M** Socket Set  
Juego de Vasos



**4241M** 28 Pieces Set/ $\Delta\Delta=$ 6,500g  
METAL CASE:W445×H190×T50mm

Sockets	Accessories
<b>4405M</b> 12-pt. Sockets 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32	4753N 4760-125 4760-250 4768N-380
	4770 4785

**4241A** Socket Set  
Juego de Vasos



**4241A** 19 Pieces Set/ $\Delta\Delta=$ 5,350g  
METAL CASE:W445×H190×T50mm

Sockets	Accessories
<b>4405A</b> 12-pt. Sockets 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1.1/16, 1.1/8, 1.1/4	4753N 4760-125 4760-250 4768N-380
	4770 4785

**4244M • 4244A** Socket Sets  
Juegos de Vasos



**4244M** 22 Pieces Set/ $\Delta\Delta=$ 5,500g  
METAL CASE:W445×H190×T50mm

Sockets	Accessories
<b>4405M</b> 12-pt. Sockets 9, 10, 12, 13, 14, 15, 16, 17, 18, 19, 21, 23, 26, 29, 32	4753N 4760-125 4760-250 4768N-380
	4770 4785 4710

**4244A** 22 Pieces Set/ $\Delta\Delta=$ 5,650g  
METAL CASE:W445×H190×T50mm

Sockets	Accessories
<b>4405A</b> 12-pt. Sockets 3/8, 7/16, 1/2, 9/16, 19/32, 5/8, 11/16, 3/4, 25/32, 13/16, 7/8, 15/16, 1, 1.1/8, 1.1/4	4753N 4760-125 4760-250 4768N-380
	4770 4785 4710

# 1/2" Hand Sockets

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN  
RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

4248M	24 Pieces Set/ $\frac{1}{2}$ "=5,700g
METAL CASE:W445×H190×T50mm	
Sockets	Accessories
<b>4405M</b> 12-pt. Sockets 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24, 26, 27, 30, 32	4753N 4760-125 4760-250 4770 4780 4785

## 4248M Socket Set Juego de Vasos



4250M	18 Pieces Set/ $\frac{1}{2}$ "=3,700g
METAL CASE:W445×H190×T50mm	
Sockets	Accessories
<b>4405M</b> 12-pt. Sockets 10, 11, 12, 13, 14, 15, 17, 19, 22, 24, 27, 30, 32	4753N 4760-125 4760-250 4770 4785

## 4250M Socket Set Juego de Vasos



4251M	22 Pieces Set/ $\frac{1}{2}$ "=3,200g
METAL CASE:W330×H68×T48mm	
Sockets	
<b>4405M</b> 12-pt. Sockets 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32	

4251A	18 Pieces Set/ $\frac{1}{2}$ "=2,660g
METAL CASE:W330×H68×T48mm	
Sockets	
<b>4405A</b> 12-pt. Sockets 3/8, 7/16, 1/2, 9/16, 5/8, 19/32, 21/32, 11/16, 3/4, 25/32, 13/16, 7/8, 15/16, 1, 1.1/16, 1.1/8, 1.3/16, 1.1/4	

4252M	13 Pieces Set/ $\frac{1}{2}$ "=1,200g
METAL CASE:W168×H60×T42mm	
Sockets	
<b>4405M</b> 12-pt. Sockets 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22	

4252A	13 Pieces Set/ $\frac{1}{2}$ "=1,300g
METAL CASE:W168×H60×T42mm	
Sockets	
<b>4405A</b> 12-pt. Sockets 3/8, 7/16, 1/2, 9/16, 19/32, 5/8, 21/32, 11/16, 3/4, 25/32, 13/16, 7/8, 15/16	

4254	12 Pieces Set/ $\frac{1}{2}$ "=1,070g
METAL CASE:W215×H80×T47mm	
Sockets	Accessories
<b>3425-</b> E6, E8	4763-50
<b>4425-</b> E10, E12, E14	4433A-35
<b>3325-</b> E6, E8	
<b>4325-</b> E10, E12, E14	

## 4254 Socket Set Juego de Vasos



# Hand Sockets **1/2"**

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECANICOS

AUTOMOTIVE

RENEWAL KITS  
JUEGOS DE REPUESTO

**4261M** Socket Set  
Juego de Vasos



**4263M** Socket Set  
Juego de Vasos



**4273AM** Socket Set  
Juego de Vasos



**P4241M-01** Socket Sets  
Juegos de Vasos

**P4241M-06** Socket Sets  
Juegos de Vasos



**4261M** 18 Pieces Set/ $\Delta\Delta$ =4,870g

METAL CASE: W445×H190×T50mm

Sockets	Accessories
<b>4405M</b> 12-pt. Sockets 8, 10, 11, 12, 13, 14, 17, 19, 21, 22, 24, 26, 27	4753N
	4760-125
	4760-250
	4768N-380
	4770

**4263M** 21 Pieces Set/ $\Delta\Delta$ =6,100g

METAL CASE: W445×H190×T50mm

Sockets	Accessories
<b>4405M</b> 12-pt. Sockets 8, 10, 11, 12, 13, 14, 15, 17, 19, 21, 22, 23, 24, 26, 27	4753N
	4760-125
	4760-250
	4768N-380
	4770
	4715S

**4273AM** 30 Pieces Set/ $\Delta\Delta$ =6,940g

METAL CASE: W446×H266×T50mm

Sockets	Accessories
<b>4405M</b> 12-pt. Sockets 10, 11, 12, 13, 14, 17, 19, 21, 22, 23, 24, 26, 27	4753N
<b>4405A</b> 12-pt. Sockets 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1	4760-125
	4760-250
	4768N-380
	4770
	4785

**P4241M-01** 28 Pieces Set/ $\Delta\Delta$ =6,400g

METAL CASE: W425×H332×T65mm

Sockets	Accessories
<b>4401M</b> 6-pt. Sockets 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32	4753J
	4760-125
	4760-250
	4768J-380
	4770
	4785

**P4241M-06** 28 Pieces Set/ $\Delta\Delta$ =6,400g

METAL CASE: W425×H332×T65mm

Sockets	Accessories
<b>4406M</b> 12-pt. Sockets 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32	4753J
	4760-125
	4760-250
	4768J-380
	4770
	4785

# 1/2" Hand Sockets

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN  
RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

<b>4275</b>	24 Pieces Set/ $\Delta\wedge$ =5,340g
METAL CASE:W445×H190×T50mm	
Sockets	Accessories
<b>4400M</b> 6-pt. Sockets 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24	4750N
<b>4300C</b> Spark Plug Sockets 16, 20.8	4760-125
<b>4300M</b> Wheel Nut Sockets 17(L60), 19(L60), 21(L60)	4760-250
	4768N-380
	4770
	4785

**4275** Socket Set  
Juego de Vasos



<b>4276</b>	17 Pieces Set/ $\Delta\wedge$ =2,890g
METAL CASE:W370×H150×T50mm	
Sockets	Accessories
<b>4010M.50</b> Bit Sockets 6, 7, 8, 10, 12, 14	4752N
<b>4025.60</b> TORX® Bit Sockets T20, T25, T27, T30, T40, T45, T50, T55, T60	4763-125

**4276** Socket Set  
Juego de Vasos



<b>4277</b>	27 Pieces Set/ $\Delta\wedge$ =5,660g
METAL CASE:W445×H190×T50mm	
Sockets	Accessories
<b>4405M</b> 12-pt. Sockets 10, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24	4750N
<b>4305M</b> 12-pt. Deep Sockets 10, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24	4760-125
	4768N-380

**4277** Socket Set  
Juego de Vasos



New <b>4279AM</b>	36 Pieces Set/ $\Delta\wedge$ =6,000g
METAL CASE:W445×H190×T50mm	
Sockets	Accessories
<b>4405M</b> 12-pt. Sockets 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24, 26, 27, 30, 32	4753N
<b>4405M</b> 12-pt. Sockets 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1.1/16, 1.1/8, 1.1/4	4760-125
	4760-250
	4770
	4785

**4279AM** Socket Set  
Juego de Vasos



New <b>4289M</b>	18 Pieces Set/ $\Delta\wedge$ =4,200g
METAL CASE:W445×H190×T50mm	
Sockets	Accessories
<b>4405M</b> 12-pt. Sockets 8, 10, 12, 13, 14, 17, 19, 21, 22, 24, 27, 30, 32	4753N
	4760-125
	4760-250
	4768N-450
	4771

**4289M** Socket Set  
Juego de Vasos



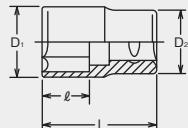
# Hand Sockets **3/4"**

HAND  
MANUALES

**6400M • 6400A**



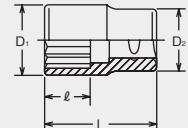
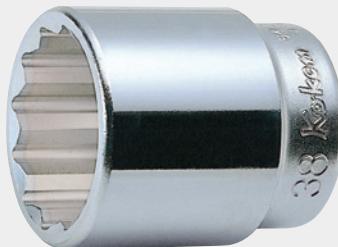
6-point Sockets  
Vasos Hexagonales



**6405M • 6405A**



12-point Sockets  
Vasos Bihexagonales



6400M 6405M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖ (g)	📦 (pcs.)
17	26	34	12.5	50	175	5
18	27	34	13	50	178	5
19	28.5	34	13.5	50	179	5
20	29.5	34	14	50	185	5
21	31	34	14.5	50	185	5
22	32	34	15	50	187	5
23	33.5	34	16	50	187	5
24	34.5	34	17	50	200	5
25	36	34	17.5	50	217	5
26	37	34	18	50	222	5
27	38.5	37	19	53	254	5
28	39.5	38	19.5	53	298	5
29	41	38	20	55	292	5
30	42	38	21	55	301	5
31	43.5	38	22	57	294	5
32	44.5	40	23	57	351	5
33	46	40	23.5	57	384	5
34	47	40	24	57	397	5
35	48.5	42	24.5	59	422	5
36	49.5	42	25	59	438	5
37	51	42	25.5	59	484	5
38	52	45	26	59	523	5
39	53.5	45	26.5	59	538	5
40	54.5	45	27	62	550	5
41	56	47	28	62	633	5
42	57	47	28.5	62	652	2
43	58.5	47	29	62	659	2
44	59.5	47	29.5	62	657	2
45	61	47	30	68	734	2
46	62	47	31	68	791	2
47	63.5	48	31.5	68	816	2
48	64.5	45	32	68	800	2
50	67	48	34	68	880	2
52	69.5	53	33	72	925	2
54	72	55	33	72	1040	2
55	73.5	53	36	72	1006	2
56	74.5	53	36	72	1092	2
57	76	53	36	72	1169	2
58	77	53	36	72	1149	2
60	79.5	58	39	76	1402	2
63	83.5	58	39	76	1494	2
65	86	63	42	80	1608	2
70	92	68	45	84	1785	2
75	98.5	73	48	86	2186	1
80	104.5	78	52	90	2475	1
85	111	78	52	90	2620	1

6400A 6405A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖ (g)	📦 (pcs.)
11/16	27	34	13	50	178	5
3/4	28.5	34	13.5	50	179	5
25/32	29.5	34	14	50	185	5
13/16	31	34	14.5	50	185	5
7/8	32	34	15	50	187	5
15/16	34.5	34	17	50	200	5
31/32	36	34	17.5	50	217	5
1	37	34	18	50	222	5
1. 1/16	38.5	37	19	53	254	5
1. 1/8	41	38	20	53	292	5
1. 3/16	42	38	21	55	301	5
1. 1/4	44.5	40	23	57	351	5
1. 5/16	46	40	23.5	57	384	5
1. 3/8	48.5	42	24.5	57	422	5
1. 7/16	51	42	25.5	59	484	5
1. 1/2	52	45	26	59	523	5
1. 9/16	54.5	45	27	59	550	5
1. 5/8	56	47	28	62	633	5
1.11/16	58.5	47	29	62	659	2
1. 3/4	59.5	47	29.5	62	657	2
1.13/16	62	47	31	68	791	2
1. 7/8	64.5	45	32	68	892	2
1.15/16	66	48	32.5	68	870	2
2	68.5	52	34.5	68	949	2
2. 1/16	71	54	33	72	983	2
2. 1/8	72	55	33	72	1040	2
2. 3/16	74.5	53	36	72	1092	2
2. 1/4	76	53	36	72	1169	2
2. 5/16	78.5	53	36	72	1344	2
2. 3/8	79.5	58	39	76	1402	2
2. 7/16	82	58	39	76	1420	2
2. 1/2	84.5	58	39	76	1497	2
2. 9/16	86	63	42	80	1608	2
2. 5/8	88.5	63	42	80	1709	2
2.11/16	89.5	63	42	80	1634	2
2. 3/4	92	68	45	84	1785	2
2.13/16	94.5	68	45	84	2018	2
2. 7/8	96	68	45	84	2062	2
2.15/16	98.5	73	48	86	2186	1
3	101	73	48	86	2309	1
3. 1/8	104.5	78	52	90	2475	1

RENEWAL KITS  
AJUEGOS DE REPUESTO  
CONSTRUCCIÓN

AUTOMOTIVE  
CONSTRUCCIÓN  
MECÁNICOS

INDUSTRIAL  
INDUSTRIALES

Z-SERIES

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MÉCANICOS

ACCESORIES  
ACCESORIOS

MULTIPLIER  
MULTIPLICADOR

TITANIUM  
DE TITANIO

6400M • 6400A

6405M • 6405A

Koken TOOL CO., LTD.

# 3/4" Hand Sockets

**6300M · 6300A**

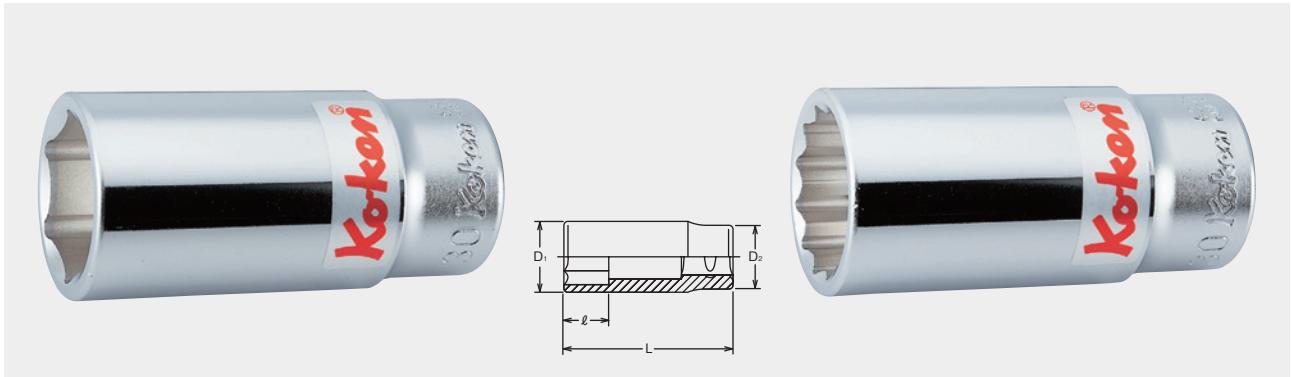


6-point Deep Sockets  
Vasos Hexagonales Largos

**6305M · 6305A**



12-point Deep Sockets  
Vasos Bihexagonales Largos



6300M 6305M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
17	26	34	18	90	278	5
18	27	34	19	90	281	5
19	28.5	34	20	90	292	5
20	29.5	34	21	90	334	5
21	31	34	22	90	343	5
22	32	34	23	90	347	5
23	33.5	34	24	90	361	5
24	34.5	34	25	90	352	5
25	36	34	26	90	369	5
26	37	34	27	90	384	5
27	38.5	37	28	90	425	5
28	39.5	38	29	90	470	5
29	41	38	30	90	503	5
30	42	38	31	90	503	5
31	43.5	38	32	90	517	5
32	44.5	40	34	90	544	5
33	46	40	34	90	557	5
34	47	40	35	90	570	5
35	48.5	42	36	90	622	5
36	49.5	42	37	90	631	2
38	52	45	39	90	710	2
40	54.5	45	41	90	742	2
41	56	47	42	90	802	2
42	57	47	43	90	829	2
44	59.5	47	45	90	838	2
46	62	47	47	90	906	2
48	64.5	50	49	90	998	2
50	67	48	51	90	1005	2
52	69.5	53	49	100	1270	2
53	71	54	49	100	1338	2
54	72	55	49	100	1351	2
55	73.5	53	52	100	1388	2
56	74.5	53	52	100	1389	2
57	76	53	52	100	1467	2
58	77	53	52	100	1480	2
60	79.5	58	55	100	1626	2
63	83.5	58	55	100	1740	2

6300A 6305A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
3/4	28.5	34	20	90	292	5
25/32	29.5	34	21	90	334	5
13/16	31	34	22	90	343	5
7/8	32	34	23	90	347	5
15/16	34.5	34	25	90	352	5
1	37	34	27	90	384	5
1. 1/16	38.5	37	28	90	425	5
1. 1/8	41	38	30	90	503	5
1. 3/16	42	38	31	90	503	5
1. 1/4	44.5	40	34	90	544	5
1. 5/16	46	40	34	90	557	5
1. 3/8	48.5	42	36	90	622	5
1. 7/16	51	42	38	90	656	2
1. 1/2	52	45	39	90	710	2
1. 9/16	54.5	45	41	90	742	2
1. 5/8	56	47	42	90	802	2
1.11/16	58.5	47	44	90	831	2
1. 3/4	59.5	47	45	90	838	2
1.13/16	62	47	47	90	906	2
2	68.5	52	52	90	1061	2
2. 1/16	71	54	49	100	1338	2
2. 1/8	72	55	49	100	1351	2
2. 3/16	74.5	53	52	100	1389	2
2. 1/4	76	53	52	100	1467	2
2. 5/16	78.5	53	52	100	1787	2
2. 3/8	79.5	58	55	100	1626	2
2. 7/16	82	58	55	100	1715	2

6012M.75 (mm)	D (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
12	35	15.5	75	253	10
14	35	15.5	75	265	10
15	35	15.5	75	280	10
16	35	15.5	75	285	10
17	35	15.5	75	292	10
18	35	15.5	75	302	10
19	35	15.5	75	312	10
20	35	15.5	75	323	10
22	38	22.5	75	340	10
24	38	22.5	75	362	10
27	38	22.5	75	402	10
30	38	28.5	75	445	10
32	38	28.5	75	485	10
36	42	28.5	75	540	10

## 6012M-75



Inhex Sockets  
Vasos Inhex



# Hand Sockets **3/4"**

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECANICOS

AUTOMOTIVE  
CONSTRUCTION  
CONSTRUCCIÓN

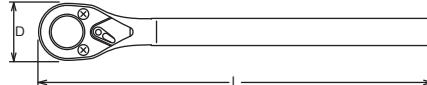
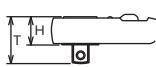
RENEWAL KITS  
MIEGOS DE REPUESTO

**6749**

Reversible Ratchet  
Llave de Carraca Reversible



\* Renewal Kits → 6749RK ➔ P273



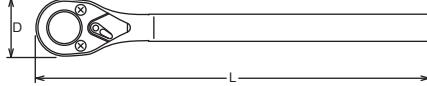
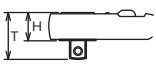
	D (mm)	T (mm)	H (mm)	L (mm)	⚖ (g)	✉ (pce.)
6749	68	49.6	29.6	565	2800	1

**6749-1000**

Reversible Ratchet  
Llave de Carraca Reversible



\* Renewal Kits → 6749RK ➔ P273



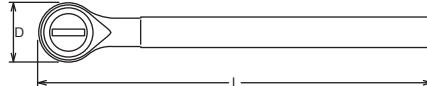
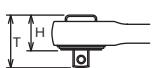
	D (mm)	T (mm)	H (mm)	L (mm)	⚖ (g)	✉ (pce.)
New 6749-1000	68	49.6	29.6	1000	3600	1

**6752**

Reversible Ratchet  
Llave de Carraca Reversible



\* Renewal Kits → 6752RK ➔ P273



	D (mm)	T (mm)	H (mm)	L (mm)	⚖ (g)	✉ (pce.)
6752	67	55.5	35.5	500	2380	1

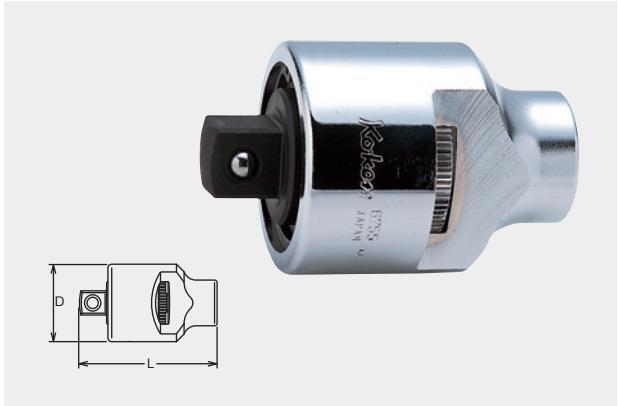
# 3/4" Hand Sockets



\* Renewal Kits → 6755RK → P274

	D (mm)	L (mm)	(g)	(pce.)
6755	62	97	1162	1

## 6755 Ratchet Adaptor Adaptador de carraca



## 6760-75 · -100 · -125 · -150 · -200 · -300 · -400

Extension Bars  
Alargaderas



	D (mm)	L (mm)	(g)	(pce.)
75	35	75	335	10
100	35	100	434	10
125	35	125	528	10
150	35	150	624	2
200	35	200	815	1
300	35	300	1203	1
400	35	400	1585	1



# Hand Sockets **3/4"**

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM

DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECANICOS

AUTOMOTIVE

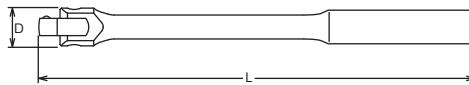
RENEWAL KITS  
AJESES DE REPUESTO  
CONSTRUCCION  
CONSTRUCCIÓN

**6768**

Hinge Handle  
Mango Articulado



\* Renewal Kits → 6768RK ➔ P274



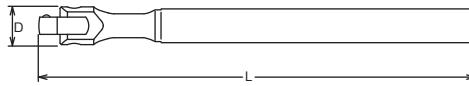
	D (mm)	L (mm)	(g)	(pce.)
<b>6768</b>	42	450	1715	1

**6768-600 · -1000**

Hinge Handles  
Mango Articulados



\* Renewal Kits → 6768RK ➔ P274



	D (mm)	L (mm)	(g)	(pce.)
<b>6768</b>	42	600	2800	1
<b>600</b>	42	1000	3400	1
<b>1000</b>	42	1000	3400	1

**6785**

T-Handle  
Mango Corredizo

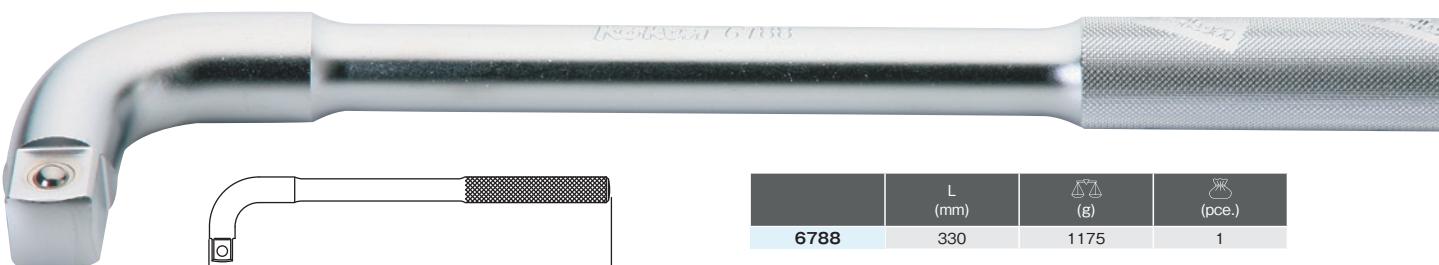
PATENTED



	L (mm)	(g)	(pce.)
<b>6785</b>	500	1542	1

**6788**

L-Handle  
Mango Acodado



	L (mm)	(g)	(pce.)
<b>6788</b>	330	1175	1

# 3/4" Hand Sockets

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

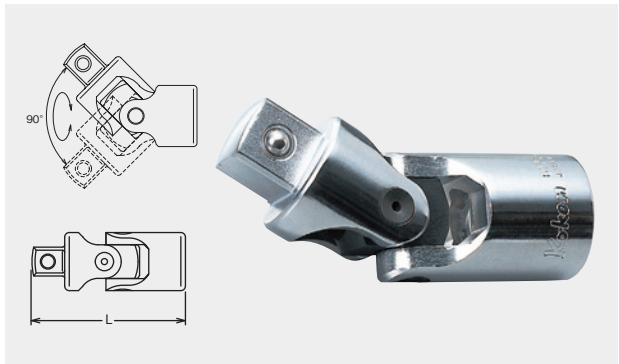
CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO



	L (mm)	 (g)	 (pcs.)
6770	105	478	2

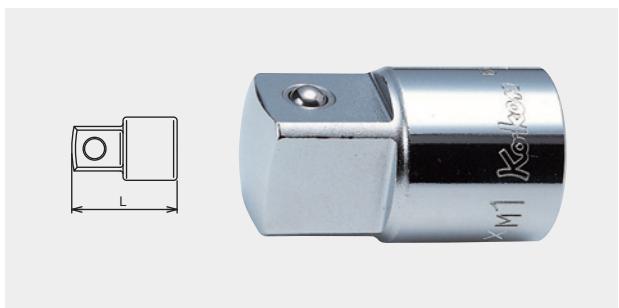
**6770** Universal Joint  
Articulación Universal



**6644A** Adaptor Warranty 668Nm  
Adaptador Garantía 668Nm



**6688A** Adaptor  
Adaptador



	 (sq.)	 (sq.)	L (mm)	 (g)	 (pcs.)
6644A	3/4"	1/2"	47	136	5
6688A	3/4"	1"	60	285	5

Adapting down from bigger square drive to smaller square drive may lead to excessive torque and possibly cause breakage.

La adaptación de mayor a menor de un cuadrado conductor puede conducir a un par excesivo que puede causar roturas.

# Hand Sockets **3/4"**

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECANICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE REPUESTO

## 6201M • 6201A

Socket Sets  
Juegos de Vasos



### 6201M

METAL CASE: W580×H200×T85mm

Sockets	Accessories
6405M 12-pt. Sockets 22, 24, 27, 30, 32, 36, 41, 46, 50, 55, 60	6749 6760-200 6760-400 6768 6785

16 Pieces Set/ $\Delta\ddot{\Delta}$ =17,300g

### 6201A

METAL CASE: W580×H200×T85mm

Sockets	Accessories
6405A 12-pt. Sockets 7/8, 15/16, 1.1/16, 1.1/8, 1.1/4, 1.5/16, 1.7/16, 1.1/2, 1.5/8, 1.11/16, 1.13/16, 1.7/8, 2	6749 6760-200 6760-400 6768 6785

18 Pieces Set/ $\Delta\ddot{\Delta}$ =17,600g

## 6212M • 6212A

Socket Sets  
Juegos de Vasos



### 6212M

METAL CASE: W580×H124×T70mm

Sockets	Accessories
6405M 12-pt. Sockets 22, 24, 27, 30, 32, 36, 41, 46, 50	6749 6760-200 6785

12 Pieces Set/ $\Delta\ddot{\Delta}$ =11,000g

### 6212A

METAL CASE: W580×H124×T70mm

Sockets	Accessories
6405A 12-pt. Sockets 7/8, 15/16, 1.1/16, 1.3/16, 1.1/4, 1.7/16, 1.5/8, 1.13/16, 2	6749 6760-200 6785

12 Pieces Set/ $\Delta\ddot{\Delta}$ =11,000g

Sockets in sets can be supplied in 6-pt. or 12-pt. format.

# 3/4" Hand Sockets

## 6260M • 6260A

Socket Sets  
Juegos de Vasos



6260M		20 Pieces Set/ $\Delta\ddot{\Delta}$ =15,800g
METAL CASE: W580×H200×T85mm		
Sockets	Accessories	
6405M 12-pt. Sockets 21, 23, 26, 29, 31, 32, 34, 35, 36, 38, 41, 46, 50	6749 6760-75 6760-200 6760-400 6770 6785	
6101 Drag Link Socket		

6260A		20 Pieces Set/ $\Delta\ddot{\Delta}$ =15,800g
METAL CASE: W580×H200×T85mm		
Sockets	Accessories	
6405A 12-pt. Sockets 15/16, 31/32, 1, 1.1/16, 1.1/8, 1.3/16, 1.1/4, 1.5/16, 1.3/8, 1.7/16, 1.1/2, 1.9/16, 1.5/8, 1.11/16, 1.3/4, 1.13/16, 1.7/8, 2	6749 6760-75 6760-200 6760-400 6770 6785	
6101 Drag Link Socket		

## 6268M

Socket Sets  
Juegos de Vasos



6268M		15 Pieces Set/ $\Delta\ddot{\Delta}$ =12,500g
METAL CASE: W580×H124×T70mm		
Sockets	Accessories	
6405M 12-pt. Sockets 19, 22, 24, 27, 29, 30, 32, 36, 38, 41, 46, 50	6749 6760-200 6768	

# Hand Sockets 1"

HAND  
MANUALES

Z-SERIES  
INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO  
MULTIPLIER  
MULTIPLICADOR

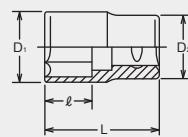
SCREWDRIVERS  
DESTORNILLADORES  
ACCESORIES  
ACCESORIOS

POWER  
MECANICOS  
AUTOMOTIVE

RENEWAL KITS  
MIEGOS DE REPUESTO  
CONSTRUCTION  
CONSTRUCCIÓN

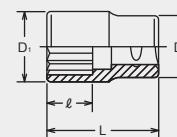
**8400M • 8400A**

6-point Sockets  
Vasos Hexagonales



**8405M • 8405A**

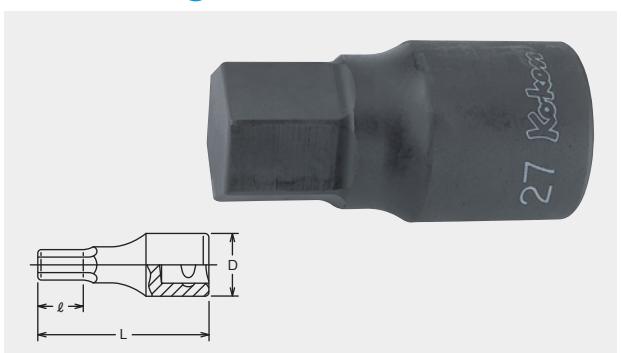
12-point Sockets  
Vasos Bihexagonales



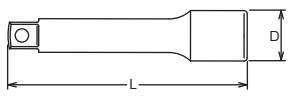
8400M 8405M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖ (g)	(pce.)
24	36.5	44	17	60	360	1
27	40.5	44	19	60	362	1
30	44	45	21	65	410	1
32	46.5	45	23	65	455	1
33	48	46	23.5	65	485	1
35	50.5	48	24.5	65	536	1
36	51.5	48	25	65	600	1
38	54	50	26	65	624	1
40	56.5	53	27	65	686	1
41	58	53	28	68	747	1
42	59	53	28.5	68	789	1
46	64	53	31	72	928	1
50	69	53	34	72	943	1
54	74	55	37	72	1016	1
55	75.5	53	42	77	1167	1
58	79	53	41	77	1200	1
60	81.5	58	46	82	1440	1
63	85.5	58	45	82	1470	1
65	88	63	49	86	1683	1
67	90.5	63	49	86	1840	1
68	91.5	63	49	86	1800	1
70	94	68	50	88	1963	1
71	95.5	68	50	88	2200	1
75	100.5	73	53	90	2204	1
80	106.5	75	58	95	2550	1
83	110.5	78	57	95	2730	1
85	113	80	57	95	2680	1
90	119	80	59	100	3420	1
95	125.5	85	58	100	4900	1
100	131.5	85	57	100	4840	1

8400A 8405A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖ (g)	(pce.)
15/16	36.5	44	17	60	355	1
1. 3/16	44	45	21	65	410	1
1. 1/4	46.5	45	23	65	455	1
1. 5/16	48	46	23.5	65	485	1
1. 3/8	50.5	48	24.5	65	536	1
1. 7/16	53	50	25.5	65	607	1
1. 1/2	54	50	26	65	624	1
1. 9/16	56.5	53	27	65	686	1
1. 5/8	58	53	28	68	747	1
1.11/16	60.5	53	29	68	830	1
1. 3/4	61.5	53	29.5	68	807	1
1.13/16	64	53	31	72	928	1
1. 7/8	66.5	53	32	72	936	1
1.15/16	68	53	32.5	72	941	1
2	70.5	53	37	72	976	1
2. 1/16	73	54	37	72	1027	1
2. 1/8	74	55	37	72	1016	1
2. 3/16	76.5	53	41	77	1192	1
2. 1/4	78	53	41	77	1177	1
2. 5/16	80.5	53	41	77	1292	1
2. 3/8	81.5	58	46	82	1440	1
2. 7/16	84	58	45	82	1495	1
2. 1/2	86.5	58	45	82	1497	1
2. 9/16	88	63	49	86	1683	1
2. 5/8	90.5	63	49	86	1840	1
2.11/16	91.5	63	49	86	1800	1
2. 3/4	94	68	50	88	1963	1
2.13/16	96.5	68	50	88	2035	1
2. 7/8	98	70	50	88	2100	1
2.15/16	100.5	73	53	90	2204	1
3	103	75	53	90	2406	1
3. 1/8	106.5	75	58	95	2550	1
3. 1/4	110.5	78	57	95	2730	1
3. 3/8	114	80	57	95	3050	1
3. 1/2	119	80	59	100	3420	1
3. 3/4	125.5	85	58	100	4900	1

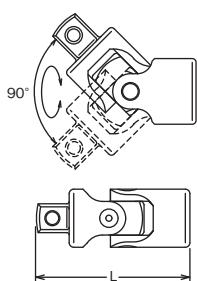
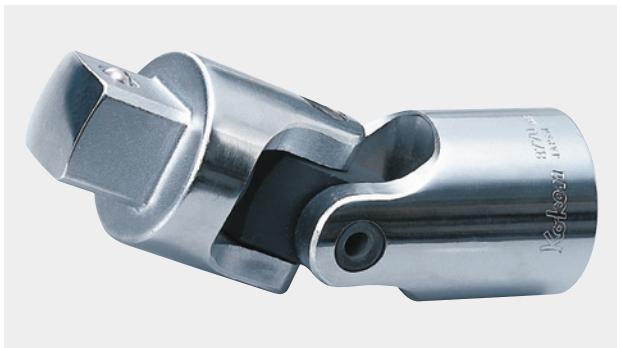
8012M.80 (mm)	D (mm)	$\ell$ (mm)	L (mm)	(g)	(pzs.)
17	44.2	15.5	80	400	5
19	44.2	15.5	80	410	5
22	47.9	22.5	80	436	5
24	47.9	22.5	80	471	5
27	47.9	22.5	80	526	5
30	47.9	22.5	80	658	5
32	47.9	22.5	80	715	5
36	54.2	22.5	80	945	5

**8012M-80**Inhex Sockets  
Vasos Inhex**8760-200 · -400**Extension Bars  
Alargaderas

8760	D (mm)	L (mm)	(g)	(pce.)
200	44	200	1300	1
400	44	400	2570	1



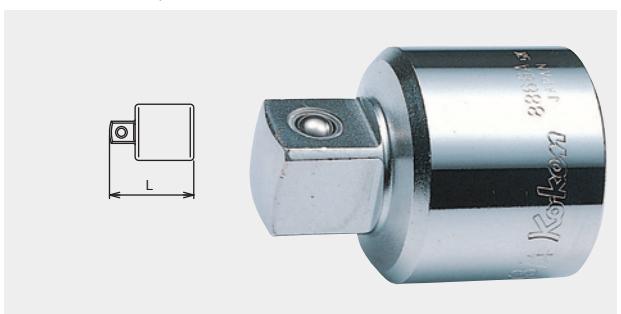
8770	L (mm)	(g)	(pce.)
	143	1170	1

**8770**Universal Joint  
Articulación Universal

8866A	$\square$ (mm)	$\square$ (mm)	L (mm)	(g)	(pcs.)
	1"	3/4"	60	338	5

**⚠** Adapting down from bigger square drive to smaller square drive may lead to excessive torque and possibly cause breakage.

La adaptación de mayor a menor de un cuadrado conductor puede conducir a un par excesivo que puede causar roturas.

**8866A**Adaptor Warranty 1850Nm  
Adaptador Garantía 1850Nm **⚠**

# Hand Sockets 1"

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

POWER  
MECÁNICOS

AUTOMOTIVE

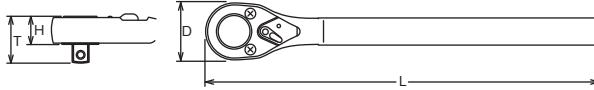
RENEWAL KITS  
MÉGOS DE REPUESTO

**8749**

Reversible Ratchet  
Llave de Carraca Reversible



\* Renewal Kits → 8749RK ➔ P273



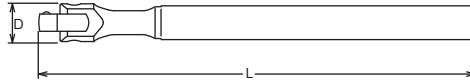
	D (mm)	T (mm)	H (mm)	L (mm)	⚖ (g)	📦 (pce.)
8749	70	62.2	36.2	800	4090	1

**8768**

Hinge Handle  
Mango Articulado



\* Renewal Kits → 8768RK ➔ P274



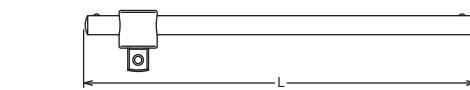
	D (mm)	L (mm)	⚖ (g)	📦 (pce.)
8768	55	600	3190	1

**8785**

T-Handle  
Mango Corredizo



	L (mm)	⚖ (g)	📦 (pce.)
8785	550	3190	1

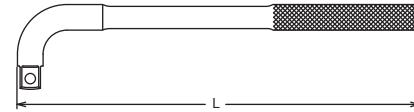


**8788**

L-Handle  
Mango Acodado



	L (mm)	⚖ (g)	📦 (pce.)
8788	600	3600	1



1 "

Hand Sockets

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO



# Hand Sockets 1"

## 8200M • 8200A

Socket Sets  
Juegos de Vasos



### 8200M

METAL CASE: W600×H150×T110mm

12 Pieces Set/ $\Delta\ddot{\text{L}}=18,600\text{g}$

#### Sockets

**8405M** 12-pt. Sockets  
35, 38, 41, 46,  
50, 54, 58, 63

#### Accessories

	8760-200
	8760-400
	8770
	8785

### 8200A

METAL CASE: W600×H150×T110mm

12 Pieces Set/ $\Delta\ddot{\text{L}}=18,600\text{g}$

#### Sockets

**8405A** 12-pt. Sockets  
1.7/16, 1.1/2, 1.5/8,  
1.13/16, 2, 2.1/8,  
2.1/4, 2.1/2

#### Accessories

	8760-200
	8760-400
	8770
	8785

## 8225M

Socket Set  
Juego de Vasos



### 8225M

METAL CASE: W620×H217×T97mm

15 Pieces Set/ $\Delta\ddot{\text{L}}=27,000\text{g}$

#### Sockets

**8405M** 12-pt. Sockets  
32, 33, 36, 41, 46, 50,  
55, 60, 65, 70, 75, 80

#### Accessories

	8749
	8760-200
	8760-400

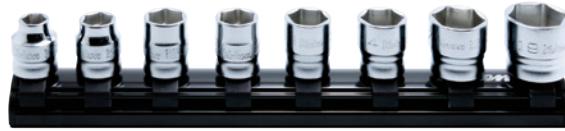
Sockets in sets can be supplied in 6-pt. or 12-pt. format.

# Z-series

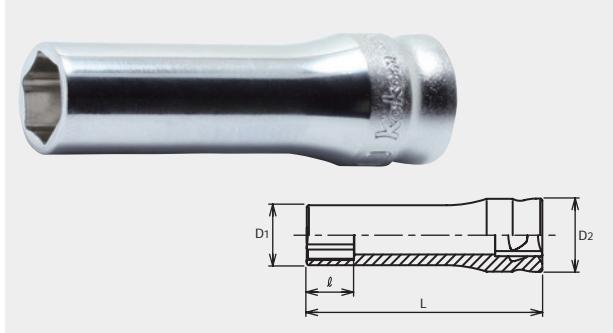


**3400MZ**6-point Sockets  
Vasos Hexagonales

PATENT P.

**RS3400MZ/8**Socket Set on Rail  
Juego de Vasos en Regleta**RS3400MZ/12****3300MZ**6-point Deep Sockets  
Vasos Hexagonales Largos

PATENT P.

**RS3300MZ/8**Socket Set on Rail  
Juego de Vasos en Regleta**RS3300MZ/12****RS3X00MZ/12**Socket Set on Rail  
Juego de Vasos en Regleta

3400MZ (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖ (g)	(pcs.)
New 5.5	8.5	17	3.5	19	16	10
New 6	9.1	17	3.5	19	17	10
New 7	10.3	17	3.5	19	17	10
New 8	11.5	17	4.5	20	17	10
New 10	14	17	4.5	20	18	10
New 11	15.3	17	5.5	21	18	10
New 12	16.5	17	5.5	21	19	10
New 13	17.8	17	8.5	21	19	10
New 14	19	17	8.5	21	20	10
New 15	20.2	18.2	8.5	21	24	10
New 16	21.3	19.3	8.5	21	28	10
New 17	22.5	20.5	8.5	21	32	10
New 18	23.6	21.6	9.5	22	38	10
New 19	24.8	22.8	9.5	22	41	10
New 21	27	25	10.5	23	51	10
New 22	28.3	26.3	10.5	23	58	10

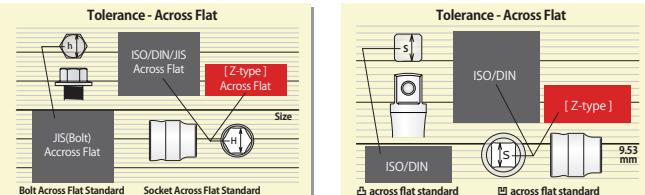
3400MZ is designed 5-9mm shorter than standard 3400M.  
Ideal for working in confined and tight areas.

RS3400MZ/8	8 Pieces Set/Rail 200mm	⚖ (g)
New 8, 10, 11, 12, 13, 14, 17, 19	320	
RS3400MZ/12	12 Pieces Set/Rail 300mm	490

3300MZ (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖ (g)	(pcs.)
New 7	10.3	17	8	55	29	10
New 8	11.5	17	9	55	34	10
New 10	14	17	11	55	43	10
New 11	15.3	17	12	55	45	10
New 12	16.5	17	13	55	49	10
New 13	17.8	17	14	55	52	10
New 14	19	17	16	55	55	10
New 15	20.2	18.2	16	55	65	10
New 16	21.3	19.3	17	55	74	10
New 17	22.5	20.5	18	55	83	10
New 18	23.6	21.6	19	55	90	10
New 19	24.8	22.8	20	55	95	10

RS3300MZ/8	8 Pieces Set/Rail 200mm	⚖ (g)
New 8, 10, 11, 12, 13, 14, 17, 19	600	
RS3300MZ/12	12 Pieces Set/Rail 300mm	900

RS3X00MZ/12	12 Pieces Set/Rail 300mm	⚖ (g)
New 3400MZ 8, 10, 11, 12, 13, 14, 17, 19	550	
New 3300MZ 8, 10, 12, 14		



Manufacturing tolerance is precisely controlled to achieve a secure fitting.

# 3/8"

Z-series

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

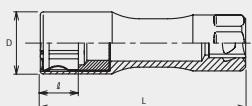
CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

## 3300CZ

Spark Plug Sockets with Spring Clips  
Llaves de Bujía con Presillas

PATENTED



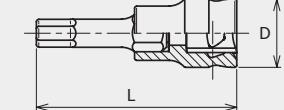
	3300CZ (mm)	D (mm)	$\ell$ (mm)	L (mm)	$\ddot{\text{g}}$ (g)	(pcs.)
New	14	18.4	11	70	67	10
New	16	20.5	13	70	71	10
New	18	22.9	12	70	75	10
New	20.8	26.3	13.5	70	105	10

Slim & light weight body with smaller outside diameter for work in tight spaces.

## 3010MZ-50

Inhex Bit Sockets  
Vasos con Punta Hexagonal

PATENT P.



	3010MZ.50 (mm)	D (mm)	L (mm)	$\ddot{\text{g}}$ (g)	(pcs.)
New	3	17	50	28	10
New	4	17	50	29	10
New	5	17	50	30	10
New	6	17	50	35	10
New	7	17	50	38	10
New	8	17	50	40	10
New	10	17	50	50	10
New	12	19	50	70	10

## RS3010MZ/8-L50

Socket Set on Rail  
Juego de Vasos en Regleta

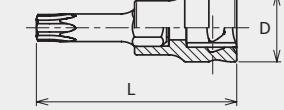


	RS3010MZ/8-L50	8 Pieces Set/Rail 200mm	$\ddot{\text{g}}$ (g)
New	3, 4, 5, 6, 7, 8, 10, 12	460	

## 3025Z-50

TORX® Bit Sockets  
Vasos con Punta TORX®

PATENT P.



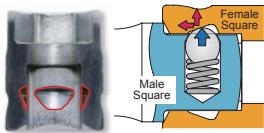
	3025Z.50 (T)	D (mm)	L (mm)	$\ddot{\text{g}}$ (g)	(pcs.)
New	T10	17	50	27	10
New	T15	17	50	28	10
New	T20	17	50	28	10
New	T25	17	50	29	10
New	T27	17	50	30	10
New	T30	17	50	31	10
New	T40	17	50	35	10
New	T45	17	50	38	10
New	T50	17	50	48	10
New	T55	19	50	70	10

## RS3025Z/8-L50

Socket Set on Rail  
Juego de Vasos en Regleta



	RS3025Z/8-L50	8 Pieces Set/Rail 200mm	$\ddot{\text{g}}$ (g)
New	T20, T25, T27, T30, T40, T45, T50, T55	450	



### BALL HOLDING GROOVE

Original Ball Holding system is applied on Z-series. This mechanism gives secure connection between Socket and Handle.

Z-series

**3/8"**HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM

DE TITANIO

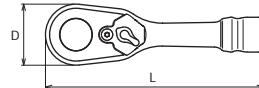
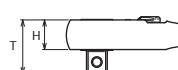
MULTIPLIER  
MULTIPLICADORACCESSORIES  
ACCESORIOSSCREWDRIVERS  
DESTORNILLADORESIMPACT  
DE IMPACTOPOWER  
MECANICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓNRENEWAL KITS  
MÉGOS DE REPUESTO**3725ZS**Reversible Ratchet Short  
Llave de Carraca Reversible Corta

PATENT P.

36

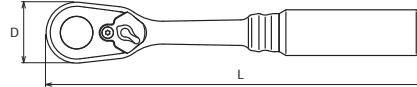
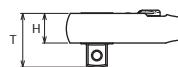


	D (mm)	T (mm)	H (mm)	L (mm)	(g)	(pce.)
New 3725ZS	28	24.5	13.7	100	157	1

**3725Z**Reversible Ratchet  
Llave de Carraca Reversible

PATENT P.

36



	D (mm)	T (mm)	H (mm)	L (mm)	(g)	(pce.)
New 3725Z	28	24.5	13.7	178	254	1

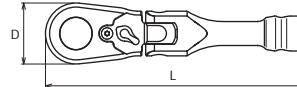
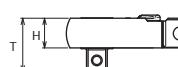
**3726ZS**Flexible Ratchet, reversible (Short)  
Llave de Carraca Flexible, reversible (Corta)

PATENT P.

36



Flexible Head



	D (mm)	T (mm)	H (mm)	L (mm)	(g)	(pce.)
New 3726ZS	28	24.5	13.7	120	196	1

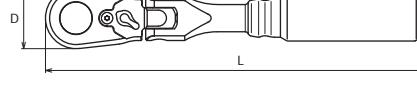
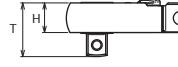
**3726Z**Flexible Ratchet, reversible  
Llave de Carraca Flexible, reversible

PATENT P.

36



Flexible Head



	D (mm)	T (mm)	H (mm)	L (mm)	(g)	(pce.)
New 3726Z	28	24.5	13.7	178	317	1

**FEATURE**

- : Smaller head with New mechanism
- : 36 teeth gear
- : Light ratchet movement

# 3/8"

Z-series

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO



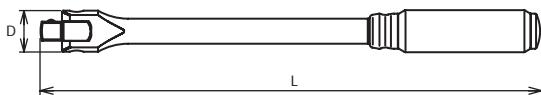
**3768Z-250**

Hinge Handle  
Mango Articulado

PATENTED



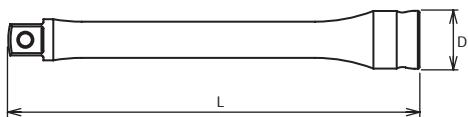
	D (mm)	L (mm)	(g)	(pce.)
New 3768Z-250	20.5	250	309	1



**3760Z-75 · -125 · -250**

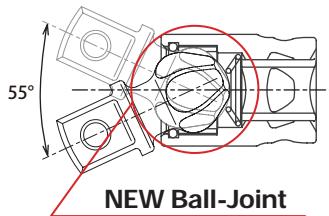
Extension Bars  
Alargaderas

PATENT P.



	D (mm)	L (mm)	(g)	(pcs.)
New 75	17.5	75	66	10
New 125	17.5	125	103	10
New 250	17.5	250	195	5

	D (mm)	L (mm)	(g)	(pcs.)
New 3771Z	18	42.5	44	10



**NEW Ball-Joint**

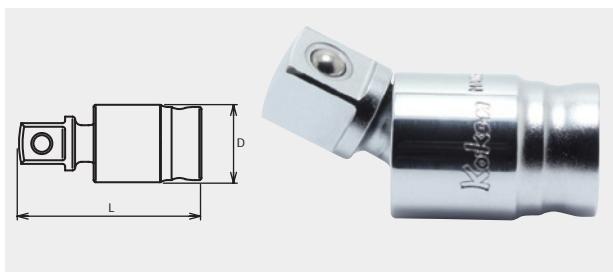
	D (mm)	L (mm)	(g)	(pcs.)
New 3756Z	28	25	40	10

Outside diameter is smaller compared to standard 3756.  
Ideal for working in combination with 3725Z



**3771Z** Universal Joint  
Articulación Universal

PATENT P.



**3756Z** Quick Spinner  
Disco de Giro Rápido

PATENT P.



**RSAL200-3/8×8** Rail  
Regleta

**RSAL300-3/8×12**



	CLIP (pcs.)	RAIL (mm)	(g)	(pce.)
New RSAL200-3/8×8	8	200	140	1
New RSAL300-3/8×12	12	300	210	1

Z-series

**3/8"**HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM

MULTIPLIER  
MULTIPLICADORACCESSORIES  
ACCESORIOSSCREWDRIVERS  
DESTORNILLADORESIMPACT  
DE IMPACTOPOWER  
MECANICOS

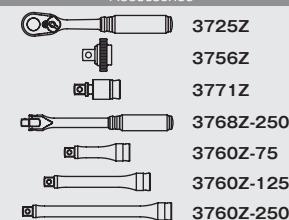
AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓNRENEWAL KITS  
MIEGOS DE REPUESTO**3285Z**

**3285Z**  
PLASTIC TRAY: W390×T180×H25

26 Pieces Set/ $\text{Ø}=\frac{3}{8}$ =2,100g

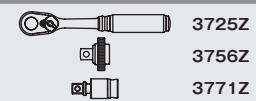
- | Sockets  | Accessories |
|--|-------------|
| 3400MZ 6-pt. Sockets<br>5.5, 6, 7, 8, 10, 12, 13, 14, 17<br>19, 21, 22 | 3725Z       |
| 3300MZ 6-pt. Deep Sockets<br>8, 10, 12, 14                             | 3756Z       |
| 3300CZ Spark Plug Sockets<br>14, 16, 20, 28                            | 3771Z       |

**3285ZA**

**3285ZA**  
PLASTIC TRAY: W390×T90×H25

15 Pieces Set/ $\text{Ø}=\frac{3}{8}$ =750g

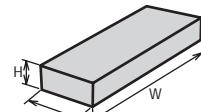
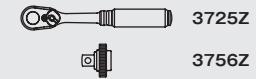
- | Sockets  | Accessories |
|--|-------------|
| 3400MZ 6-pt. Sockets<br>5.5, 6, 7, 8, 10, 12, 13, 14, 17<br>19, 21, 22 | 3725Z       |

**3285ZE**

**3285ZE**  
Rail 200mm/PLASTIC BAG

9 Pieces Set/ $\text{Ø}=\frac{3}{8}$ =600g

- | Sockets   | Accessories |
|---|-------------|
| 3400MZ 6-pt. Sockets<br>8, 10, 12, 13, 14, 17, 19 | 3725Z       |

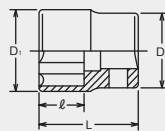


3/8"

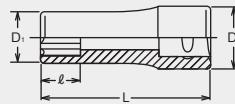
1/2"

# Industrial Sockets



**D3410M**Surface Drive Sockets  
Vasos Surface Drive (de Contacto Curvo)

D3410M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	g (g)	(pcs.)
6	9.9	17.3	6	26	20	10
7	10.8	17.3	6.5	26	20	10
8	12	17.3	7	26	22	10
9	13.3	17.3	7.5	26	23	10
10	14.5	17.3	8	26	24	10
11	15.8	17.3	8.5	26	25	10
12	16.8	17.3	9	26	25	10
13	18	17	9.5	26	24	10
14	19.5	18.5	11	27	31	10
15	20.8	19.5	11.5	28	39	10
16	22	20	12	28	42	10
17	23.3	21.5	12.5	29	51	10
18	24.5	22.5	13	30	51	10
19	25.8	23.5	13.5	30	63	10
20	27	24.5	14	31	75	10
21	28	26	14.5	32	77	10
22	29.5	26.5	15	32	82	10
23	30.8	27.5	15.5	33	95	10
24	32	28.5	16	34	102	10

**D3310M**Surface Drive Deep Sockets  
Vasos Surface Drive (de Contacto Curvo) Largos

D3310M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	g (g)	(pcs.)
6	9.9	17.3	7	55	37	10
7	10.6	17.3	8	55	37	10
8	12	17.3	9	55	40	10
9	13	17.3	10	55	42	10
10	14.5	17.3	11	55	46	10
11	16	17.3	12	55	51	10
12	16.8	17.2	13	55	52	10
13	18	17	14	55	53	10
14	20	18	16	55	60	10
15	21	20	16	55	74	10
16	22	20	17	55	76	10
17	23.5	22	18	55	93	10
18	24.5	23	19	55	98	10
19	25	24	20	55	98	10
20	26	25	21	65	126	10
21	27	26	22	65	126	10
22	29	28	23	65	163	10
23	30	29	24	65	168	10
24	31	30	25	65	161	10

# 3/8"

Industrial Sockets

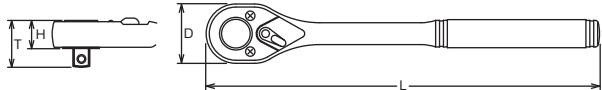


## D3753J

Reversible Ratchet  
Llave de Carraca Reversible



	D (mm)	T (mm)	H (mm)	L (mm)	(g)	(pce.)
D3753J	30.5	26.4	15.7	200	260	1

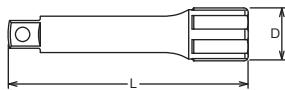


## D3760-125 · -250

Extension Bars  
Alargaderas



	D (mm)	L (mm)	(g)	(pcs.)
125	18	125	106	10
250	18	250	196	10



## D3763-125

Wobble-Fix Extension Bar  
Alargadera Articulada-Fija



PATENTED



## D3770

Universal Joint  
Articulación Universal



## D3785

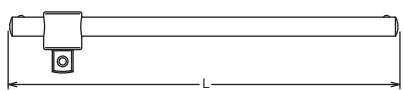
T-Handle  
Mango Corredizo

PATENTED



Koken 3785

	L (mm)	(g)	(pcs.)
D3785	200	157	5



Industrial Sockets

**3/8"**

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECANICOS

AUTOMOTIVE

RENEWAL KITS  
AJECOS DE REPUESTO

Surface Drive Socket Set  
Juego de Vasos de Surface Drive (Contacto Curvo)



**ESI3001** Surface Drive Socket Set  
Juego de Vasos de Surface Drive (Contacto Curvo)

ESI3001  
METAL CASE:W415×H120×T50mm

Sockets  
D3410M Surface Drive Sockets  
8, 9, 10, 11, 12, 13, 14,  
15, 16, 17, 18, 19

17 Pieces Set/ $\Delta\wedge=$ 2,200g

Sockets	Accessories
D3410M Surface Drive Sockets 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19	D3753J
	D3763-125
	D3760-250
	D3770
	D3785

**ESI3217M-10** Surface Drive Socket Set  
Juego de Vasos de Surface Drive (Contacto Curvo)



ESI3217M-10  
METAL CASE:W163×H52×T33mm

Sockets  
D3410M Surface Drive Sockets  
9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22

14 Pieces Set/ $\Delta\wedge=$ 850g



# 1/2"

Industrial Sockets

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

D4410M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	g (g)	(pcs.)
8	13.2	21	8	36	44	10
9	13.8	21	8.5	37	44	10
10	15.3	21	9	37	45	10
11	16.5	21	9.5	37	46	10
12	17.8	21	10	37	47	10
13	19	22	10.5	37	53	10
14	20.3	22	11	37	56	10
15	21.5	22	11.5	37	52	10
16	22.8	22	12	37	62	10
17	24	23	12.5	37	69	10
18	25	24	13	37	74	10
19	26.5	25	14	38	89	10
20	27.8	26	15	38	92	10
21	29	27	15.5	38	102	10
22	30	28	16	40	113	10
23	31.5	29	16.5	40	128	10
24	32.8	30	17	42	140	5
25	34	31	18	42	164	5
26	35	32	19	42	165	5
27	36.5	33	19.5	43	196	5
28	37.8	34	20	43	198	5
29	39	35	20.5	43	190	5
30	40	36	22	46	222	5
31	41.5	37	22.5	46	257	5
32	42.8	38	23	46	250	5

**D4410M**



Surface Drive Sockets

Vasos de Surface Drive (de Contacto Curvo)



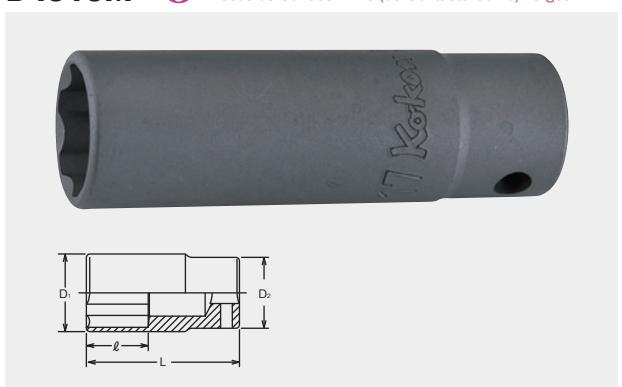
D4310M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	g (g)	(pcs.)
10	15.3	21	11	77	82	10
11	16.5	21	12	77	86	10
12	17.8	21	13	77	92	10
13	19	21.8	14	77	106	10
14	20.3	21.8	15	77	115	10
15	21.5	21.8	16	77	123	10
16	22.8	22	17	77	141	10
17	24	23	18	77	139	10
18	25	24	19	77	149	10
19	26.5	25	20	77	165	10
20	27.8	26	21	77	183	10
21	29	27	23	77	190	10
22	30	28	27	77	200	10
23	31.5	29	27	77	233	10
24	32.8	30	27	77	249	10
25	34	31	27	77	270	10
26	35	32	27	77	279	10
27	36.5	33	28	77	303	10
28	37.8	34	28	77	334	10
29	39	35	28	77	357	10
30	40	36	34	77	342	10
31	41.5	37	34	77	384	10
32	42.8	38	34	77	405	10

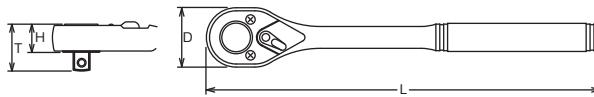
**D4310M**



Surface Drive Deep Sockets

Vasos de Surface Drive (de Contacto Curvo) Largos

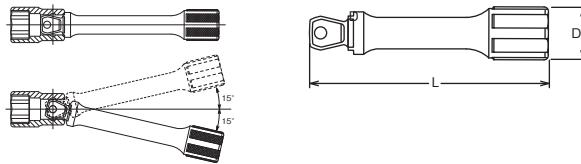


**D4753J**Reversible Ratchet  
Llave de Carraca Reversible

	D (mm)	T (mm)	H (mm)	L (mm)	$\frac{kg}{m}$ (g)	(pce.)
D4753J	38	36.2	21.6	250	510	1

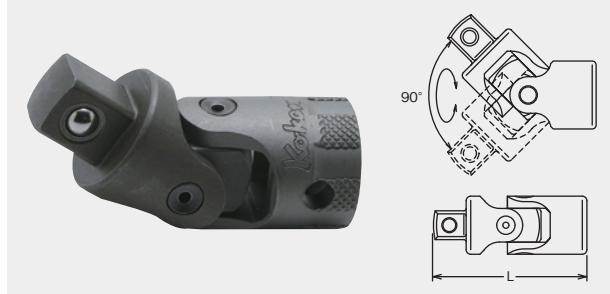
**D4763-125**Wobble-Fix Extension Bar  
Alargadera Articulada-Fija

PATENTED



	D (mm)	L (mm)	$\frac{kg}{m}$ (g)	(pcs.)
125	24	125	157	5

**⚠** The Wobble-Fix Extension Bar has less strength than normal extension bar due to its specific design with a reduced square drive. Make sure to use it correctly.

**D4770**Universal Joint  
Articulación Universal

	L (mm)	$\frac{kg}{m}$ (g)	(pcs.)
D4770	67	150	10

**ESI4001**Surface Drive Socket Set  
Juego de Vasos de Surface Drive (Contacto Curvo)

ESI4001		15 Pieces Set/ $\frac{kg}{m}$ =2,600g
METAL CASE:W415×H120×T50mm		
Sockets	Accessories	
D4410M Surface Drive Sockets 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22	D4753J D4763-125 D4770	

**ESI4251M-10**Surface Drive Socket Set  
Juego de Vasos de Surface Drive (Contacto Curvo)

ESI4251M-10		22 Pieces Set/ $\frac{kg}{m}$ =3,200g
METAL CASE:W330×H68×T48mm		
Sockets	D4410M Surface Drive Sockets 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32	

# Titanium Sockets



**TI4261M**Socket Set Titanium  
Juego de Vasos de Titanio

**TI4261M**  
WOODEN CASE: W445×H190×T60mm

18 Pieces Set/ $\Delta\varnothing=4,280\text{g}$ 

Sockets	Accessories
<b>TI4400M</b> 6-pt. Sockets 8, 10, 11, 12, 13, 14, 17, 19, 21, 22, 24, 26, 27	TI4749J
	TI4760-125
	TI4760-250
	TI4768J-380
	TI4770

**Characteristic of Titanium**

- Light weight : Makes it effective for operating tools. The specific gravity is only about 58% of chrome molybdenum steel which is used for our normal products.
- Non-Corrosion : Corrosion Resistance is greatly improved against salt water and any kind of chemical products.
- Non-Magnetic : Non-Magnetic material will prevent the tools from magnetizing.

**Características del Titánio**

- Peso ligero : Aumenta la eficiencia de las herramientas de trabajo. El peso específico es aproximadamente sólo el 58% del acero al cromo-molibdeno de nuestros productos normales.
- No se oxida : Se aumenta significativamente la resistencia a la corrosión por ambiente salino o por cualquier clase de productos químicos.
- No es magnético : Material paramagnético que evita la magnetización de las herramientas.

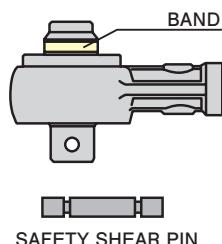
Pentagonal drive is designed to avoid using with normal square drive items, so that it will provide extra safety and much more strength.

El diseño de conductor pentagonal evita su utilización con conductores normales cuadrados, proporcionando más seguridad y mucha mayor resistencia.

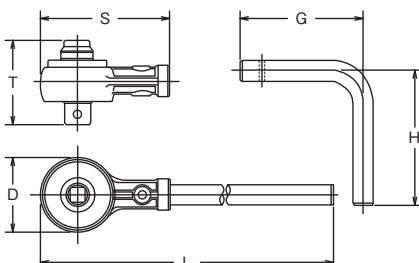


# Power Multiplier



**OVER TORQUE PROTECTION**

If excessive torque is applied, the Safety Shear Pin is designed to break, preventing damage to the inside mechanism of the wrench. If this happens, remove the Band and replace the pin.



## SAFETY ADVISER

- Maintain good posture while working.
- Do not alter or modify the tools.
- Do not use with Impact wrench or other power tools.
- Always set tool in the right position.
- Do not hammer on the tools.
- Wear Safety Goggles, safety shoes and hard hat for your own protection.
- Use a tool below the Maximum torque specified in this catalogue.
- Do not use tool at an excessive torque load. If the bolt/nut cannot be loosened, stop working and use a more appropriate tool.
- Set the reaction bar against a strong stationary object.

MW04	D (mm)	L (mm)	T (mm)	S (mm)	G (mm)	H (mm)
1800	83	499	135	148	82	178
3000	96	596	138	168	115	205

**MW04-1800 • -3000**Power Multiplier  
Multiplicador**MW04-1800**

METAL CASE: W530×H210×T120mm

6 Pieces Set/Δ=12,500g

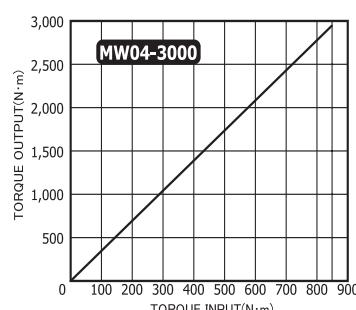
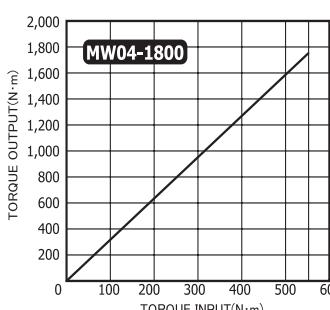
## POWER MULTIPLIER

**MW04-3000**

METAL CASE: W530×H210×T120mm

6 Pieces Set/Δ=14,500g

## POWER MULTIPLIER



# Accessories

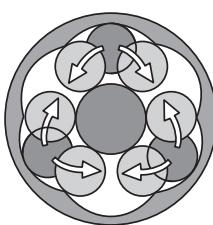
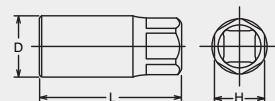
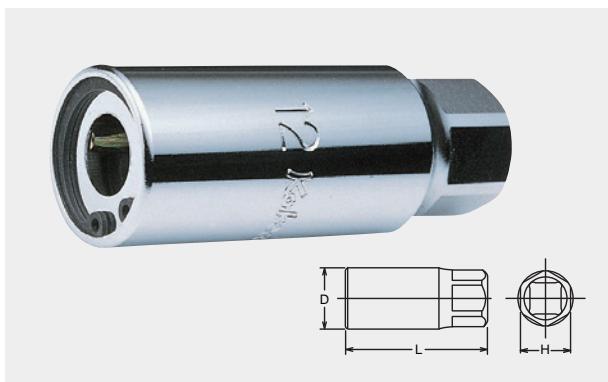


**4100M • 4100A**

Screw and Stud Pullers

Extractores de Espárragos y Tornillos

PATENTED



## Screw and Stud Pullers

Hexagon body design can lessen the excessive load on cages and rollers inside the pullers.

## Extractores de Tornillos y Espárragos

El diseño hexagonal del cuerpo evita cargas excesivas en las celdas y rodillos internos del extractor.

4100M (mm)		D (mm)	L (mm)	H (mm)	(g)	(pcs.)
5		24	65	21	145	10
6		24	65	21	150	10
7		24	65	21	150	10
8		24	65	21	147	10
9		28	75	21	217	10
10		28	75	21	213	10
10.5		28	75	21	202	10
11		28	75	21	218	10
12		28	75	21	209	10
14		34	75	27	326	5
16		34	75	27	300	5

4100A (inch)		D (mm)	L (mm)	H (mm)	(g)	(pcs.)
1/4		24	65	21	150	10
5/16		24	65	21	147	10
3/8		28	75	21	213	10
7/16		28	75	21	218	10
1/2		28	75	21	191	10
9/16		34	75	27	326	5
5/8		34	75	27	300	5

\* Renewal Kits → **4100RK** → **P275**

⚠ 4100M-16 and 4100A-5/8 do not have 1/2" square drive.

Drive the outer hexagon part with 27mm sockets or ring wrenches.

4100M-16 y 4100A-5/8 no tienen conductores cuadrados de 1/2"

Apretar la parte hexagonal exterior con vasos de 27mm o llaves de tuerca.

## Tolerance/Tolerancia

	4100M (mm)		4100A (inch)
5	4.7- 5	1/4	6 - 6.4
6	5.6- 6	5/16	7.6- 8
7	6.6- 7	3/8	9 - 9.6
8	7.6- 8	7/16	10.5-11.1
9	8.4- 9	1/2	12.1-12.7
10	9.4-10	9/16	13.5-14.3
10.5	9.9-10.5	5/8	15.2-16
11	10.4-11		
12	11.4-12		
14	13.2-14		
16	15.2-16		

**4211M • 4211A**

Screw and Stud Pullers Sets

Juegos de Extractores de Tornillos y Espárragos

**4211M**  
METAL CASE: W215×H80×T47mm

4 Pieces Set/ = 1,040g

## PULLER

**4100M** Stud Pullers  
6, 8, 10, 12**4211A**  
METAL CASE: W215×H80×T47mm

4 Pieces Set/ = 1,040g

## PULLER

**4100A** Stud Pullers  
1/4, 5/16, 3/8, 1/2**4214M**

Screw and Stud Pullers Set

Juegos de Extractores de Tornillos y Espárragos

**4214M**  
METAL CASE: W215×H80×T47mm

5 Pieces Set/ = 1,450g

## PULLER

**4100M** Stud Pullers  
6, 8, 10, 12, 14

6100M (mm)		D (mm)	L (mm)	H (mm)	(g)	(pce.)
18		48	100	36	840	1
20		48	100	36	816	1
22		48	100	36	745	1
24		48	100	36	739	1
27		63	125	46	1707	1
28	⚠	63	125	46	1701	1
29		63	125	46	1696	1
30		63	125	46	1691	1

\* Renewal Kits → 6100RK ➔ P275

⚠ 6100M-22 to -30 do not have 3/4" square drive.

Drive the outer hexagon part with sockets or ring wrenches (size 22-24mm = 36H, 27-30mm = 46H).

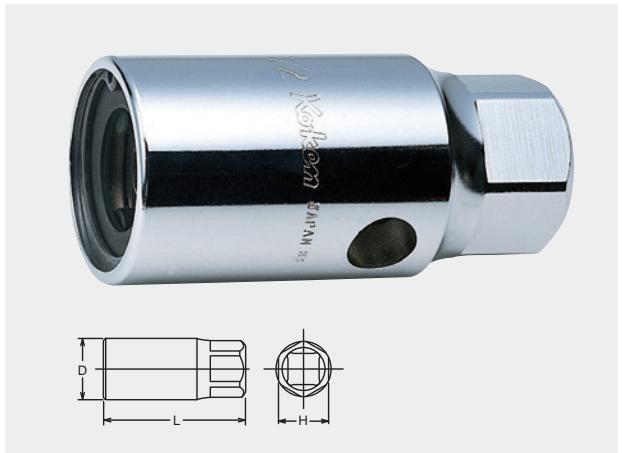
6100M-22-30 no tienen conductores cuadrados de 3/4"

Apretar la parte hexagonal exterior con vasos o llaves de tuerca (medidas 22-24mm = 36H, 27-30mm = 46H)

## 6100M

Screw and Stud Pullers

Extractores de Tornillos y Espárragos



Tolerance/Tolerancia

6100M (mm)						
18		16.9-18				
20		18.8-20				
22		20.8-22				
24		22.7-24				
27		25.7-27				
28		26.7-28				
29		27.6-29				
30		28.6-30				

14100M (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	L (mm)	(g)	∅ (pcs.)	∅ (pcs.)
6		24	25	48	126	10	* 1
7		24	25	48	126	10	* 1
8	1/2"	24	25	48	122	10	* 1
9		28	30	48	181	10	* 2
10		28	30	48	181	10	* 2
12		28	30	48	175	10	* 2

14100A (inch)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	L (mm)	(g)	∅ (pcs.)	∅ (pcs.)
1/4		24	25	48	126	10	* 1
5/16		24	25	48	122	10	* 1
3/8	1/2"	28	30	48	181	10	* 2
7/16		28	30	48	181	10	* 2
1/2		28	30	48	180	10	* 2

\*1 C-Ring=1401C,Pin/O-Ring=1401A/B

➔ P230~231

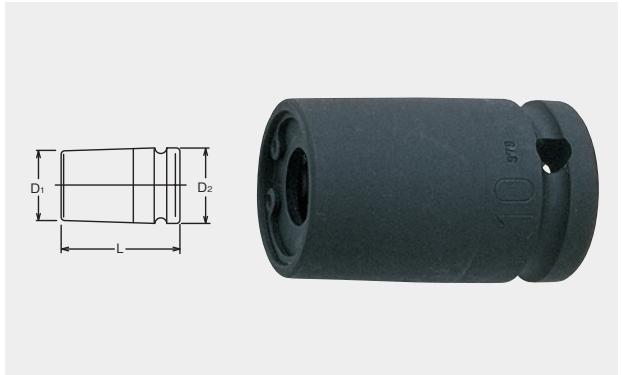
\*2 C-Ring=1402C,Pin/O-Ring=1402A/B

## 14100M • 14100A

IMPACT Screw and Stud Pullers

Extractores de Tornillos y Espárragos de IMPACTO

PATENTED



Tolerance/Tolerancia

14100M (mm)		14100A (inch)		
6		5.6- 6	1/4	6 - 6.4
7		6.6- 7	5/16	7.6- 8
8		7.6- 8	3/8	9 - 9.6
9		8.4- 9	7/16	10.5-11.1
10		9.4-10	1/2	12.1-12.7
12		11.4-12		

## 141S Stud Puller Ratchets Extractores de Espárragos de Carraca



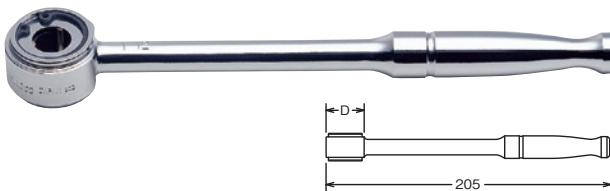
141S (mm)	D (mm)	L (mm)	(g)	(pce.)
6	28	120	150	1
8	28	120	150	1
10	32	120	153	1
12	32	120	152	1

## 141 Stud Puller Ratchets Extractores de Espárragos de Carraca



141S (inch)	D (mm)	L (mm)	(g)	(pce.)
5/16	28	120	150	1
3/8	32	120	153	1
1/2	32	120	152	1

## 141P Stud Puller Ratchets Extractores de Espárragos de Carraca



141 (mm)	D (mm)	L (mm)	(g)	(pce.)
6	28	205	215	1
8	28	205	215	1
10	32	205	234	1
12	32	205	233	1

141 (inch)	D (mm)	L (mm)	(g)	(pce.)
5/16	28	205	215	1
3/8	32	205	234	1
1/2	32	205	233	1



## 1201 Stud Puller Ratchets Set Juego de Extractores de Espárragos de Carraca

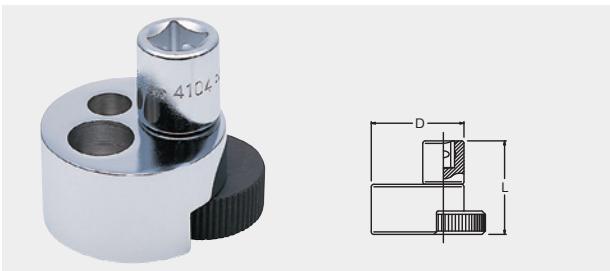


1201	4 Pieces Set/ $\Delta\Delta=973g$
METAL CASE: W240×H100×T32mm	
PULLER	

141S Stud Puller Ratchet

6, 8, 10, 12

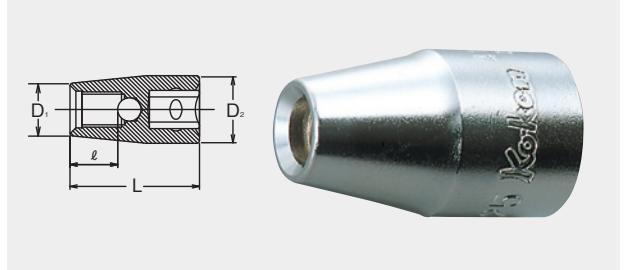
## 4104 Screw and Stud Puller Extractor de Tornillos y Espárragos



4104		Tolerance		D (mm)	L (mm)	(g)	(p.c.s.)
		min	max				
		φ 6	φ 19	54	56	489	2

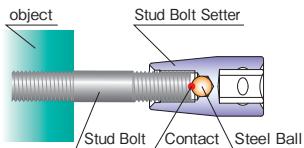
4103M (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	g (g)	pcs. (pcs.)
6(1.0)		10.3	22	10	37	54	10
7(1.0)		11.5	22	10.6	37	58	10
8(1.25)		13.2	22	11.5	37	60	10
10(1.25)	1/2"	15.3	23	13.5	44	86	10
10(1.5)		15.3	23	13.5	44	86	10
12(1.25)		17.8	23	15.5	44	86	10
12(1.75)		17.8	23	15.5	44	86	10

## 4103M


**Stud Bolt Setters**  
Vasos para apretar pernos


4203M	4 Pieces Set/ $\Sigma g=530g$
METAL CASE: W130×H65×T26mm	
Stud Bolt Setter	
4103M Stud Bolt Setters	6(1.0), 8(1.25), 10(1.5), 12(1.75)

4203MF	4 Pieces Set/ $\Sigma g=530g$
METAL CASE: W130×H65×T26mm	
Stud Bolt Setter	
4103M Stud Bolt Setters	6(1.0), 8(1.25), 10(1.25), 12(1.25)

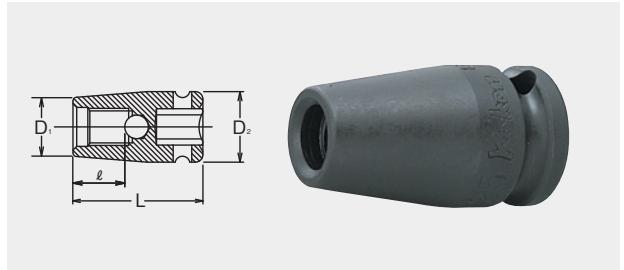


A special socket for installing a stud bolt.  
Inside steel ball prevent the stud bolt stuck onto the socket. After installing a stud bolt, turn to anti-clockwise to removing the socket.

13103M (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	g (g)	pcs. (pcs.)	◎
5(0.8)		9.5	19	9	32	39	10	* 1
6(1.0)		10.8	19	10	32	41	10	* 1
7(1.0)	3/8"	12.5	19	11	32	44	10	* 1
8(1.25)		13.5	19	10.5	35	49	10	* 1
10(1.25)		15.8	19	13.5	35	49	10	* 1
10(1.5)		15.8	19	13.5	35	49	10	* 1

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B ➔ P230~231

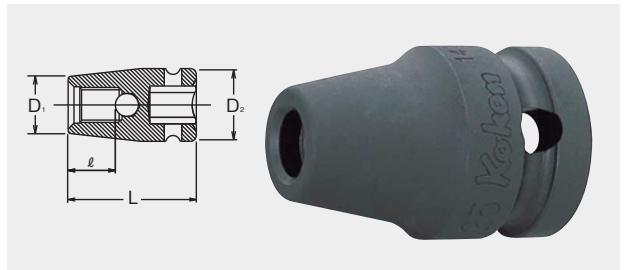
## 13103M


**Impact Stud Bolt Setters**  
Vasos para apretar pernos de Impacto


14103M (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	g (g)	pcs. (pcs.)	◎
6(1.0)		12	25	10	38	75	10	* 1
7(1.0)		13.2	25	11	38	78	10	* 1
8(1.25)		14.5	25	11.5	38	81	10	* 1
10(1.25)	1/2"	17	25	13.5	44	106	10	* 1
10(1.5)		17	25	13.5	44	106	10	* 1
12(1.25)		19.5	25	15.5	44	107	10	* 1
12(1.75)		19.5	25	15.5	44	107	10	* 1
14(1.5)		22	25	18.2	44	128	10	* 1
14(2.0)		22	25	18.2	44	128	10	* 1

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B ➔ P230~231

## 14103M


**Impact Stud Bolt Setters**  
Vasos para apretar pernos de Impacto


# NUT TWISTER®

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM

DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPÁCTO

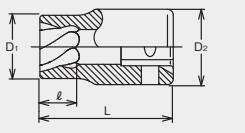
POWER  
MÉCANICOS

AUTOMOTIVE

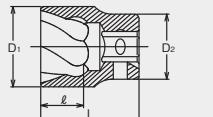
CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
MÉJICOS DE REPUESTO

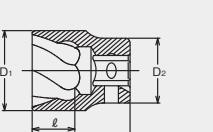
## 2127 NUT TWISTER® AFLOJA TUERCAS



## 3127 NUT TWISTER® AFLOJA TUERCAS



## 4127 NUT TWISTER® AFLOJA TUERCAS



## RS2127/6 NUT TWISTER® Socket Set on Rail Juego de Vasos en Regleta



## RS2127/10 NUT TWISTER® Socket Set on Rail Juego de Vasos en Regleta



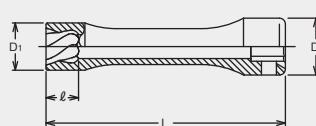
## RS3127/8 NUT TWISTER® Socket Set on Rail Juego de Vasos en Regleta



## RS4127/6 NUT TWISTER® Socket Set on Rail Juego de Vasos en Regleta



## 3128-80 NUT TWISTER® (Long type) AFLOJA TUERCAS (Serie Larga)



## 4128-120 NUT TWISTER® (Long type) AFLOJA TUERCAS (Serie Larga)



2127 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	 (g)	 (pcs.)
New 4		7	13	4	23	14	10
New 4.5		7.4	13	4	23	14	10
New 5		8	13	5	23	14	10
New 5.5		8.8	13	5	23	14	10
New 6		9.5	13	6	23	14	10
New 7		10.9	13	6	23	14	10
New 8		11.5	13	8	23	14	10
New 9		13	13	8	23	15	10
New 9.5		13.8	13	10	23	16	10
New 10		14.8	13	10	23	17	10

3127 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	 (g)	 (pcs.)
8		11.5	19	8	32	40	10
9		13	19	8	32	40	10
9.5		13.8	19	8	32	41	10
10		14.8	19	10	32	41	10
11		16	19	10	32	43	10
12		17	19	12	32	44	10
13		18.5	19	12	32	46	10
14		19.7	19	14	32	48	10
15		20.7	19	14	32	52	10
16		22.2	22	14	32	66	10
17		23.5	22	16	35	80	10
19		26	22	16	35	92	10

4127 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	 (g)	 (pcs.)
14		19.7	30	14	42	125	10
17		23.5	30	16	42	137	10
19		26	30	16	42	146	10
21		28	30	17	42	153	10
22		29.5	30	17	42	158	10
24		32	30	18	42	174	10
25.4		33.5	30	18	42	183	10

RS2127/6	6 Pieces Set/Rail 150mm	 (g)
New 4, 4.5, 5, 5.5, 6, 7	105	

RS2127/10	10 Pieces Set/Rail 150mm	 (g)
New 4, 4.5, 5, 5.5, 6, 7, 8, 9, 9.5, 10	180	

RS3127/8	8 Pieces Set/Rail 200mm	 (g)
8, 9, 10, 11, 12, 13, 14, 16	420	

RS4127/6	6 Pieces Set/Rail 200mm	 (g)
17, 19, 21, 22, 24, 25.4	960	

3128.80 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	 (g)	 (pcs.)
8		13	19	6	80	58	10
9		14.5	19	6	80	61	10
10		15.8	19	8	80	66	10
11		17.2	19	8	80	70	10
12		18.5	19	10	80	77	10
13		19.7	19	10	80	80	10
14		21	19	12	80	82	10

4128.120 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	 (g)	 (pcs.)
17		25.8	30	16	120	227	10
19		28.4	30	16	120	247	10
21		31	30	17	120	262	10
22		32	30	17	120	259	10



A very effective method and easy solution for removing rounded off nuts, bolts and studs. The sharp edges of the NUT TWISTER® Socket opening will tighten around the nut, bolt or stud and turn it easily off.

Un método muy efectivo y una fácil solución para aflojar tuercas, pernos y espárragos redondeados por desgaste. Las afiladas aristas de la boca del vaso AFLOJA TUERCAS NUT TWISTER®, aprieta contra la tuerca, perno o espárrago, haciéndolo girar fácilmente.

3129.32 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	L (mm)	(g)	(pcs.)
2		2	19	32	32	10
3		3	19	32	33	10
4		4	19	32	33	10
6	3/8"	6	19	32	35	10
8		8	19	32	37	10
10		10	19	32	40	10

3129.60 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	L (mm)	(g)	(pcs.)
2		2	19	60	38	10
3		3	19	60	42	10
4		4	19	60	44	10
6	3/8"	6	19	60	47	10
8		8	19	60	53	10
10		10	19	60	64	10

4129.37 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	L (mm)	(g)	(pcs.)
8		8	24	37	59	10
10		10	24	37	63	10
12	1/2"	12	24	37	67	10
14		14	24	37	72	10
16		16	24	37	78	10

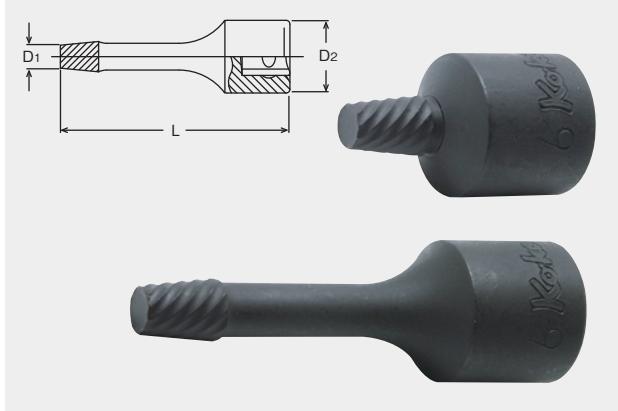
4129.75 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	L (mm)	(g)	(pcs.)
8		8	24	75	80	10
10		10	24	75	94	10
12	1/2"	12	24	75	110	10
14		14	24	75	130	10
16		16	24	75	150	10

RS3129/6-L32	6 Pieces Set/Rail 150mm	(g)
2, 3, 4, 6, 8, 10		250
2, 3, 4, 6, 8, 10		320

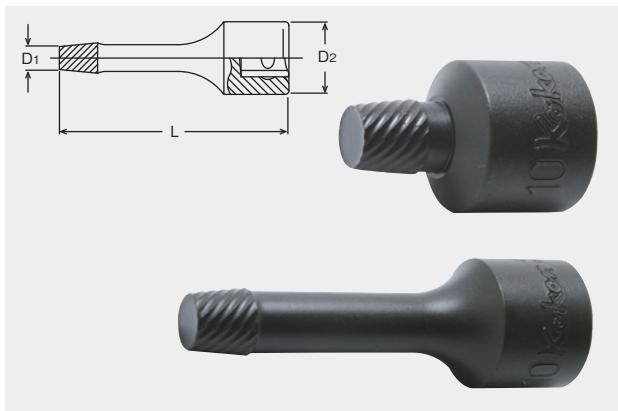
RS4129/5-L37	5 Pieces Set/Rail 150mm	(g)
8, 10, 12, 14, 16		370

RS4129/5-L75	5 Pieces Set/Rail 150mm	(g)
8, 10, 12, 14, 16		600

## 3129-32 · -60

BOLT TWISTER®  
AFLOJA PERNOS

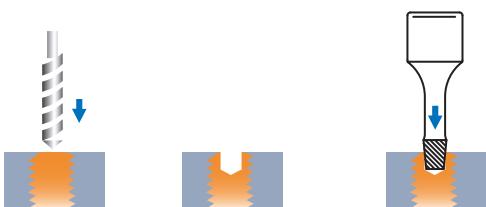
## 4129-37 · -75

BOLT TWISTER®  
AFLOJA PERNOS

## RS3129/6-L32 · -L60

Socket Set on Rail  
Juego de Vasos en Regleta

## RS4129/5-L37 · -L75



Effective method and easy solution for removing twisted off bolt. Drill a hole in the center of bolt and drive BOLT TWISTER® firmly into the hole. The sharp spiral edges will hold the broken bolt and easily remove it.

Un método efectivo y una fácil solución para aflojar pernos rotos. Taladrar un agujero en el centro del perno e introducir el AFLOJA PERNOS BOLT TWISTER® presionando y girando. Las afiladas aristas espirales agarran el perno roto sacándolo.



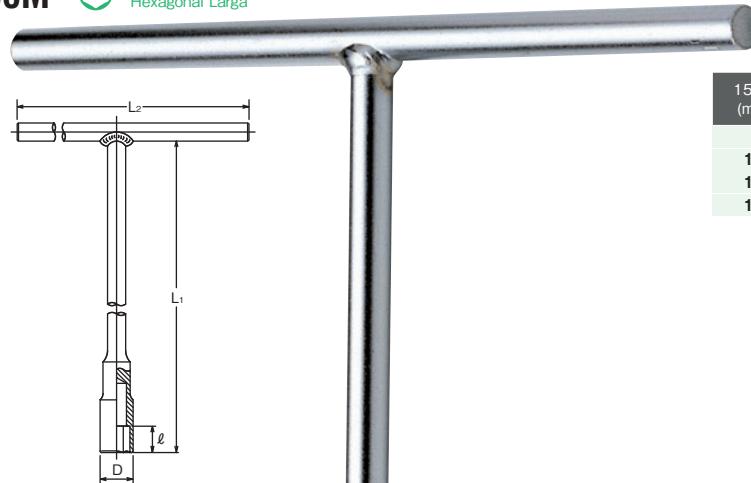
Bolt Twister	Bolt size	Drill size
2	M5	φ 2.4 ~ 2.6
3	M6	φ 3.2 ~ 3.5
4	M8	φ 4.2 ~ 4.5
6	M10 ~ M12	φ 6.2 ~ 6.5
8	M14 ~ M16	φ 8.2 ~ 8.5
10	M18 ~ M20	φ 10.2 ~ 10.5
12	M22 ~ M24	φ 12.2 ~ 12.5
14	M27 ~ M30	φ 14.2 ~ 14.5
16	M33	φ 16.2 ~ 16.5

## T-Type Wrench

HAND  
MANUALES

**156M**

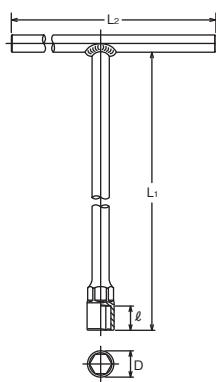
6-Point Deep  
Hexagonal Larga



156M (mm)	D (mm)	l (mm)	L <sub>1</sub> (mm)	L <sub>2</sub> (mm)	⚖️ (g)	📦 (pce.)
8	12	9	355	200	231	1
10	14.5	11	355	200	289	1
12	16.8	13	355	200	429	1
14	20	16	355	200	454	1

**104M · 104A**

6-Point  
Hexagonal



104M (mm)	D (mm)	l (mm)	L <sub>1</sub> (mm)	L <sub>2</sub> (mm)	⚖️ (g)	📦 (pce.)
6	9.5	8	200	180	150	1
7	11	9	200	180	152	1
8	12	10	250	200	183	1
9	14	12	250	200	188	1
10	14	13	250	200	230	1
11	16	14	250	200	234	1
12	18	15	250	250	384	1
13	18.5	17	300	250	412	1
14	20	18	300	250	428	1
15	21	19	300	250	443	1
16	22.5	21	350	300	528	1
17	24	22	350	300	707	1
18	25	23	350	300	707	1
19	26.5	25	350	300	717	1
21	29	27	350	300	1070	1
22	30	28	350	300	1062	1

104A (inch)	D (mm)	l (mm)	L <sub>1</sub> (mm)	L <sub>2</sub> (mm)	⚖️ (g)	📦 (pce.)
1/4	9.5	8	200	180	150	1
5/16	12	10	250	200	183	1
3/8	14	12	250	200	188	1
7/16	16	14	250	200	234	1
1/2	18.5	17	300	250	412	1
9/16	20	18	300	250	428	1
5/8	22.5	21	350	300	528	1
3/4	26.5	25	350	300	717	1

RENEWAL KITS  
AJUEGOS DE REPUESTO

CONSTRUCTION  
CONSTRUCCIÓN

AUTOMOTIVE  
INDUSTRIALES

POWER  
MULTIPLIER

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPÁCTO

MECÁNICOS

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION

RENEWAL KITS

AJUEGOS DE REPUESTO

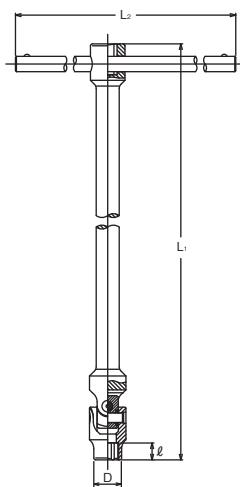
**3116M**

Universal with 6-point Socket

Con articulación universal con Vaso Hexagonal

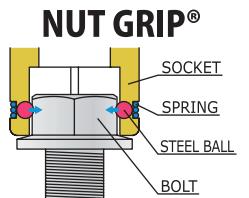
3116M (mm)	D (mm)	$\ell$ (mm)	L <sub>1</sub> (mm)	L <sub>2</sub> (mm)	$\frac{kg}{m}$ (g)	(pce.)
10	14.5	8	800	190	796	1
12	17	10.3	800	190	797	1
13	18	11.3	800	190	797	1
14	19.5	11.3	800	190	797	1
15	21	12.8	800	190	799	1
16	22	12.8	800	190	806	1
17	23.6	13.8	800	190	801	1
18	24	13.8	800	190	809	1

124M.600 (mm)	D (mm)	$\ell$ (mm)	L <sub>1</sub> (mm)	L <sub>2</sub> (mm)	$\frac{kg}{m}$ (g)	(pce.)
8(2B)	12	5	600	200	332	1
10(2B)	14.5	6	600	200	334	1
12(2B)	16.8	7	600	200	424	1
13(2B)	18	8	600	200	425	1
14(2B)	19.5	8.5	600	200	527	1
17(2B)	23.3	9.5	600	200	538	1

**124M-600 (2B)**

Ball Joint plus Nut Grip Socket

Con articulación de rótula y Vaso Sujeta Tuerca



**NUT GRIP®**

Twin balls at the 6-point opening hold bolt-nut tightly for safe and reliable work.

Las dos bolas de la boca Hexagonal sujetan el perno-tuerca permitiendo un trabajo seguro y fiable.

# T-Type Wrench

HAND  
MANUALES

Z-SERIES  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPÁCTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
AJESES DE REPUESTO

**157H**



For Inhex Screws  
Para Tornillos de Seis Lados en el Interior (Inhex)



157H (mm)	L <sub>1</sub> (mm)	L <sub>2</sub> (mm)	(g)	(pce.)
<b>3</b>	160	100	98	1
<b>4</b>	200	120	121	1
<b>5</b>	250	160	158	1
<b>6</b>	300	190	416	1
<b>8</b>	300	190	422	1
<b>10</b>	300	190	433	1

**157P**



For Phillips Screws  
Para Tornillos Phillips



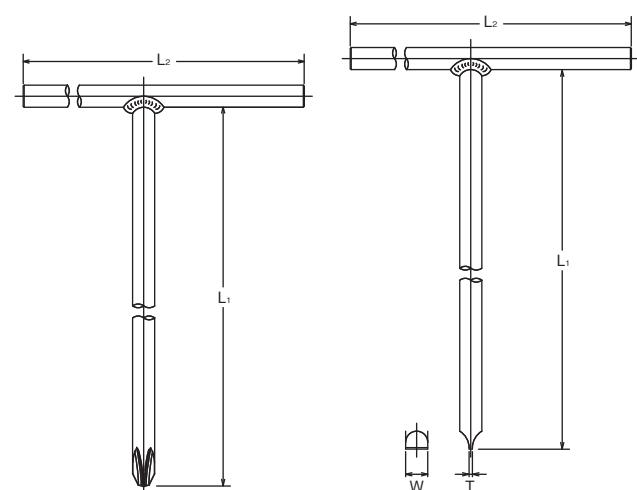
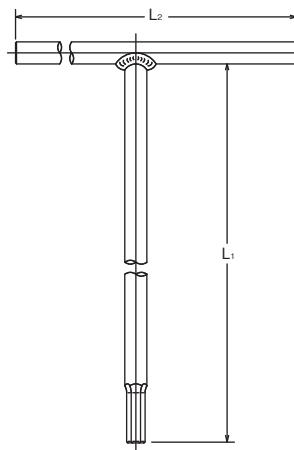
**157S**



For Slotted Heads  
Para Cabezas Ranuradas

157P (PH)	L <sub>1</sub> (mm)	L <sub>2</sub> (mm)	(g)	(pce.)
<b>2</b>	200	180	84	1
<b>3</b>	300	180	189	1

157S	T×W	L <sub>1</sub> (mm)	L <sub>2</sub> (mm)	(g)	(pce.)
<b>6</b>	1.0×6	200	180	84	1
<b>8</b>	1.2×8	250	180	170	1



**2715** T-Handle  
Llaves en T



**3715** T-Handle  
Llaves en T



**3715S** T-Handle  
Llaves en T



**3715SL** T-Handle  
Llaves en T



**3716** Wobble-Me-Fix T-Handle  
Llaves en T PATENTED



**3716**

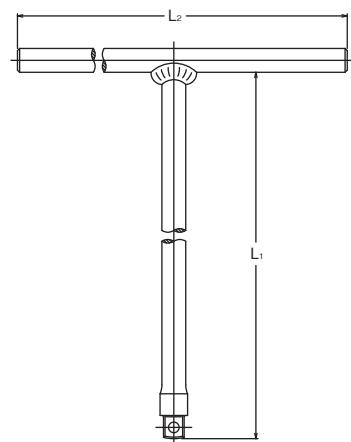
T-Handle  
Llaves en T PATENTED

**3715SLK** T-Handle  
Llaves en T



**3715SLK**

T-Handle  
Llaves en T



**3715SLK**



		L <sub>1</sub> (mm)	L <sub>2</sub> (mm)	 (g)	 (pce.)
2715		200	120	130	1

		L <sub>1</sub> (mm)	L <sub>2</sub> (mm)	 (g)	 (pce.)
3715		268	240	386	1
3715S		268	190	347	1
3715SL		237	200	325	1
3715SLK		236	200	470	1
3716		268	240	379	1

2715/3715/3716

This tool is used sockets in hard to reach places. 3716 has a reduced square drive and similar function as offset extention bars.



## T-Type Wrench

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPÁCTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
MIEGOS DE REPUESTO

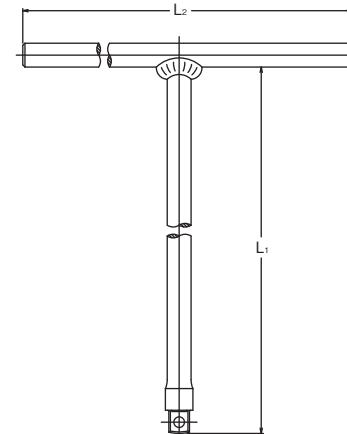
**4715**  T-Handle  
Llaves en T



**4715S**  T-Handle  
Llaves en T



**4715SL**  T-Handle  
Llaves en T



		L <sub>1</sub> (mm)	L <sub>2</sub> (mm)	 (g)	 (pce.)
4715		267	255	475	1
4715S		267	170	402	1
4715SL		250	250	640	1

3131		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	L (mm)	(g)	(pcs.)
M 2.6	M1~M2.6	7	18	40	47	10
M 3	M 3	8.5	18	40	47	10
M 4	M 4	10	18	40	47	10
M 5	M 5	10.5	18	40	48	10
M 6	M 6	11	18	40	48	10
M 8	M 8	11.5	18	40	48	10
M10	M10	12.5	18	40	49	10
M12	M12	14.5	18	40	49	10
M14	M14	16.5	18	40	49	10

For JIS B 4430 Metric Tap

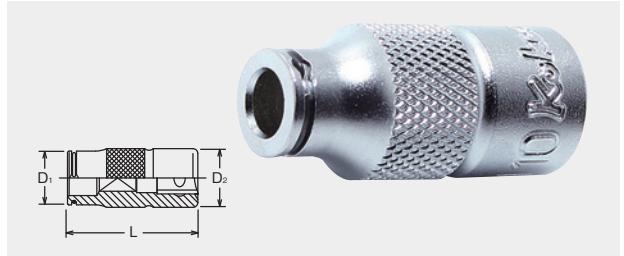
JIS B 4430 J-Type Metric Tap Standard Pitch	Tap Size	d(mm)	S(mm)
	M1-M2.6	3	2.5
	M3	4	3.2
	M4	5	4
	M5	5	4.5
	M6	5.5	4.5
	M8	6.2	5
	M10	7	5.5
	M12	8.5	6.5
	M14	10.5	8

160K	C (mm)	L (mm)	(g)	(pce.)
	[3/8"]	10	220	126

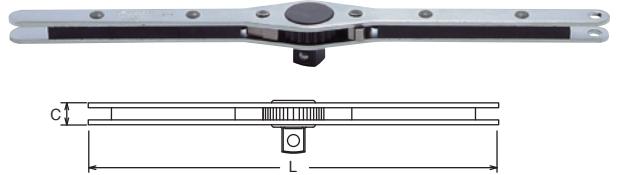
3260	10 Pieces Set/重量=1,050g	
METAL CASE:W240×H100×T32mm		
Sockets	Accessories	
3131 Tap Holders M2.6, M3, M4, M5, M6, M8, M10, M12	160K 3760-125	

3261	10 Pieces Set/重量=1,050g	
METAL CASE:W240×H100×T32mm		
Sockets	Accessories	
3131 Tap Holders M3, M4, M5, M6, M8, M10, M12, M14	160K 3760-125	

### 3131 Tap Holder Adaptadores para machos de terrajas



### 160K Handle Llave



### 3260 Sets Juegos

### 3261



## Ratcheting Ring Wrench

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECANICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCION

RENEWAL KITS  
MIEGOS DE REPUESTO

### 102NM · 102NA



Without reverse lever  
Sin palanca de inversión



### 102KM · 102KA



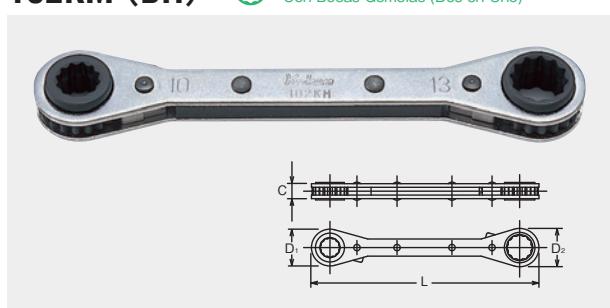
Reversible  
Reversible



### 102KM (BH)



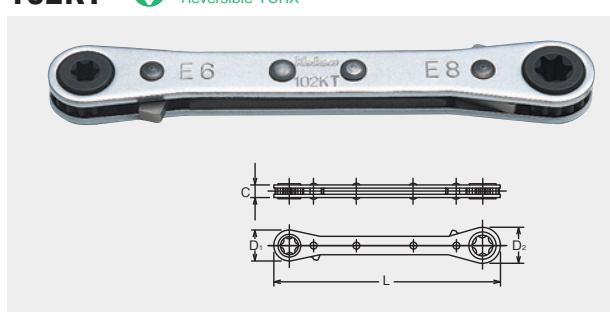
With Twin Openings (Two-in-One)  
Con Bocas Gemelas (Dos en Uno)



### 102KT



Reversible TORX®  
Reversible TORX®



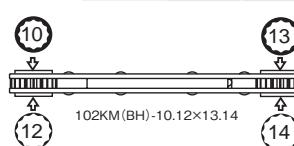
102NM (mm)	L (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	C (mm)	⚖️ (g)	📦 (pcs.)
6×7	108	15.3	16.4	7.5	60	10
7×8	108	15.3	16.4	7.5	60	10
8×9	134	17.1	19.7	7.5	80	10
8×10	134	17.1	19.7	7.5	80	10
10×11	140	20.1	22.7	7.5	87	10
10×12	140	20.1	22.7	7.5	87	10
12×13	145	23.6	24.6	9	112	10
12×14	145	23.6	24.6	9	112	10

102NA (inch)	L (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	C (mm)	⚖️ (g)	📦 (pcs.)
7/32×1/4	108	15.3	16.4	7.5	60	10
1/4 × 9/32	108	15.3	16.4	7.5	60	10
1/4 × 5/16	108	15.3	16.4	7.5	60	10
5/16×11/32	134	17.1	19.7	7.5	80	10
5/16×3/8	134	17.1	19.7	7.5	80	10
3/8 × 7/16	140	20.1	22.7	7.5	87	10
7/16×1/2	145	23.6	24.6	9	112	10
1/2 × 9/16	145	23.6	24.6	9	112	10

102KM (mm)	L (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	C (mm)	⚖️ (g)	📦 (pcs.)
6×7	108	15.3	16.4	7.5	51	10
7×8	108	15.3	16.4	7.5	51	10
8×9	134	17	20	9	76	10
8×10	134	17	20	9	76	10
10×11	141	21	23.5	9	84	10
10×12	141	21	23.5	9	84	10
12×13	146	24	25	9	89	10
12×14	146	24	25	9	89	10
13×17	200	27.1	31.8	16	190	5
14×17	200	27.1	31.8	16	200	5

102KA (inch)	L (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	C (mm)	⚖️ (g)	📦 (pcs.)
7/32×1/4	108	15.3	16.4	7.5	51	10
1/4 × 5/16	108	15.3	16.4	7.5	51	10
3/8 × 7/16	141	21	23.5	9	84	10
1/2 × 9/16	146	24	25	9	89	10

102KM.BH (mm)	L (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	C (mm)	⚖️ (g)	📦 (pcs.)
5.5·6×7·8	108	15.3	16.4	10	60	10
8·10×12·13	141	21	23.5	13	87	10
9·10×11·12	141	21	23.5	13	87	10
10·12×13·14	146	24	25	13	98	10
13·14×15·17	200	27.1	31.8	16	200	5



102KT (E)	L (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	C (mm)	⚖️ (g)	📦 (pcs.)
E 4×E 6	108	15.3	16.4	7.5	51	10
E 6×E 8	108	15.3	16.4	7.5	51	10
E10×E12	134	17	20	9	76	10

103KM	L (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	C (mm)	⚖ (g)	📦 (pcs.)
6 x 7	108	15.3	16.4	7.5	51	5
7 x 8	108	15.3	16.4	7.5	51	5
8 x 9	134	17	20	9	76	5
8 x 10	134	17	20	9	76	5
10 x 11	140	21	23.5	9	84	5
10 x 12	140	21	23.5	9	84	5
12 x 13	145	24	25	9	89	5
12 x 14	145	24	25	9	89	5

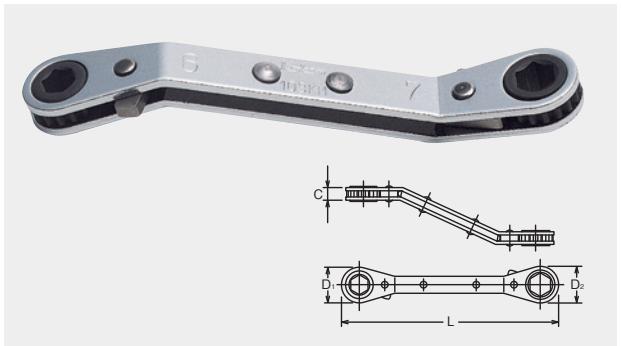
103KA	L (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	C (mm)	⚖ (g)	📦 (pcs.)
7/32 x 1/4	108	15.3	16.4	7.5	51	5
1/4 x 5/16	108	15.3	16.4	7.5	51	5
5/16 x 11/32	134	17	20	9	76	5
3/8 x 7/16	140	21	23.5	9	84	5
1/2 x 9/16	145	24	25	9	89	5

103KT	L (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	C (mm)	⚖ (g)	📦 (pcs.)
E 4xE 6	104	15.3	16.4	7.5	51	5
E 6xE 8	104	15.3	16.4	7.5	51	5
E10xE12	128	17	20	9	76	5
E14xE16	139	24	25	9	89	5

R810	L (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	C (mm)	⚖ (g)	📦 (pcs.)
1/4x5/16	108	15.3	16.4	7.5	60	10
3/8x7/16	140	20.1	22.7	7.5	87	10
1/2x9/16	145	23.6	24.6	9	112	10

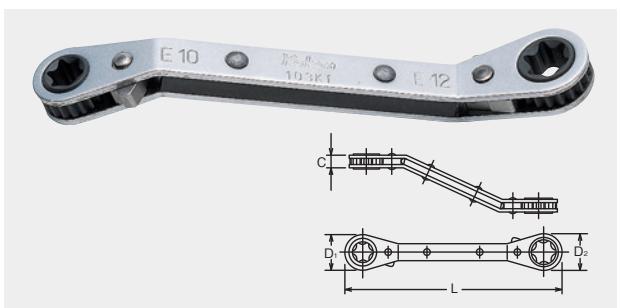
## 103KM • 103KA

Reversible  
Reversible



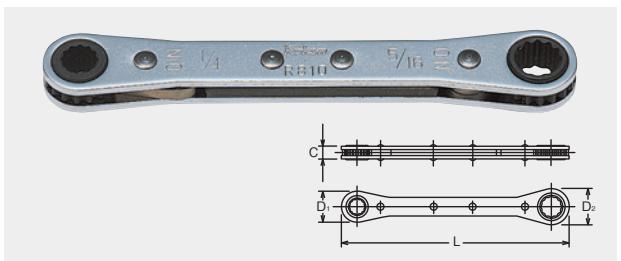
## 103KT

Reversible TORX®  
Reversible TORX®



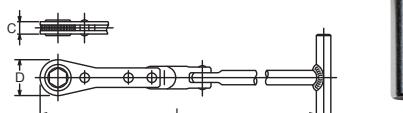
## R810

Reversible  
Reversible



## 154M

Push and Pull-Ratchets  
Llaves de Carraca de Empuje y Tracción



154M	L (mm)	D (mm)	C (mm)	⚖ (g)	📦 (pcs.)
8	294	17.1	7.5	178	2
10	297	20.1	7.5	183	2
12	300	23.6	9	189	2
13	301	24.6	9	194	2
14	301	24.6	9	194	2



## 154ML

Push and Pull-Ratchets  
Llaves de Carraca de Empuje y Tracción

154ML	L (mm)	D (mm)	C (mm)	⚖ (g)	📦 (pcs.)
10	297	20.1	7.5	230	2
12	300	23.6	9	252	2

**TORX®** is a registered trademark of Acument Intellectual Properties, LLC.  
**TORX®** es una marca registrada de Acument Intellectual Properties, LLC.

## Ratcheting Ring Wrench

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECANICOS

AUTOMOTIVE

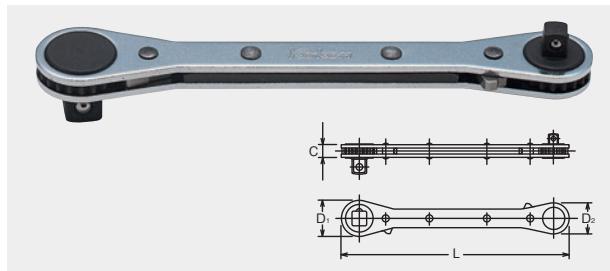
CONSTRUCTION  
CONSTRUCCION

RENEWAL KITS  
MIEGOS DE REPUESTO

**137**



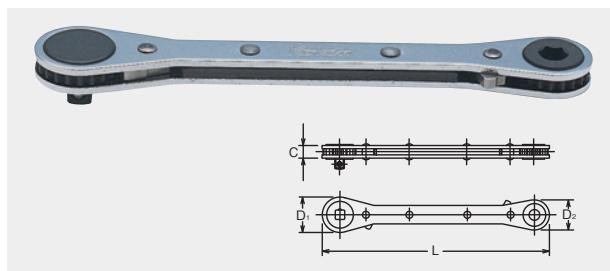
For 1/4" and 3/8" Square Drive Sockets  
Para Vasos con Conductor Cuadrado de 1/4" y 3/8"



**138**



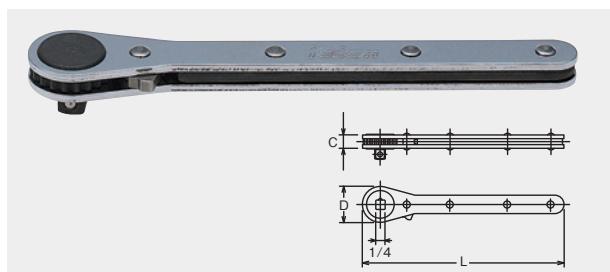
For Bits 101  
Para Puntas 101



**139**



For 1/4" Square Drive Sockets  
Para Vasos con Conductor Cuadrado de 1/4"



**145KM-10H**



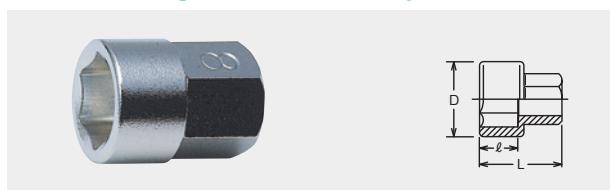
Reversible, 10mm 6-pt.  
Reversible, 10mm Hexagonal



**150-10H**



Sockets with 10mm 6-point Drive End  
Vasos con Conductor Hexagonal 10mm



**1203**



Sockets with 10mm 6-point Drive End in Set with Ratchet  
Juego de Vasos con Conductor Hex con Llave de Carraca



137	L (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	C (mm)	Weight (g)	(pcs.)
137	141	23.5	21	9	104	5

1/4" x 3/8"

138	L (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	C (mm)	Weight (g)	(pcs.)
138	141	23.5	21	9	97	10

1/4" x 1/4"

139	L (mm)	D (mm)	C (mm)	Weight (g)	(pcs.)
139	125	20.1	7.5	80	10

1/4"



145KM (mm)	L (mm)	D (mm)	C (mm)	Weight (g)	(pcs.)
145KM (mm)	125	20.1	7.5	72	10

150.10H (mm)	D (mm)	l (mm)	L (mm)	Weight (g)	(pcs.)
5	12	3.5	11	6	10
6	12	4.5	12.5	7	10
7	12	5	14	7	10
8	12	6	15.5	7	10
9	13	6	16	7	10
10	14.3	7	17	9	10

1203		7 Pieces Set/总重=250g
METAL CASE:W130×H65×T20mm	Sockets	Accessory
150.10H 5, 6, 7, 8, 9, 10	145KM-10H	145KM-10H

R810A	5 Pieces Set/ $\text{Ø} \frac{5}{16}$ =208g
METAL CASE: W130×H65×T20mm	
Bits	Accessory
<b>101P</b> Phillips Bits 1, 2, 3	102NA-1/4x5/16
<b>101S</b> Slotted Bit 1×7	

**R810A** Bit Set  
Juego de Puntas

R810B	10 Pieces Set/ $\text{Ø} \frac{5}{16}$ =268g
METAL CASE: W130×H65×T20mm	
Bits	Accessory
<b>101P</b> Phillips Bits 1, 2, 3	102NA-1/4x5/16
<b>101S</b> Slotted Bit 1×7	
<b>128H</b> Hex Bits 3, 4, 5, 6, 8	

**R810B** Bit Set  
Juego de Puntas

R810C	12 Pieces Set/ $\text{Ø} \frac{5}{16}$ =227g
METAL CASE: W130×H65×T20mm	
Bits,Sockets	Accessories
<b>101P</b> Phillips Bits 1, 2, 3	102NA-1/4x5/16
<b>101S</b> Slotted Bit 1×7	101A
<b>2400M</b> Sockets 5, 6, 7, 8, 9, 10	

**R810C** Bit and Socket Set  
Juego de Puntas y Vasos

R810D	17 Pieces Set/ $\text{Ø} \frac{5}{16}$ =336g
METAL CASE: W130×H65×T20mm	
Bits,Sockets	Accessories
<b>101P</b> Phillips Bits 1, 2, 3	102NA-1/4x5/16
<b>101S</b> Slotted Bit 1×7	101A
<b>128H</b> Hex Bits 3, 4, 5, 6, 8	
<b>2400M</b> Sockets 5, 6, 7, 8, 9, 10	

**R810D** Bit and Socket Set  
Juego de Puntas y Vasos

R810E	9 Pieces Set/ $\text{Ø} \frac{5}{16}$ =445g
METAL CASE: W130×H65×T20mm	
Sockets	Accessories
<b>2300M</b> Deep Sockets 6, 7, 8, 9, 10, 11, 12	102NA-1/4x5/16
	101A

**R810E** Socket Set  
Juego de Vasos

# Ratcheting Ring Wrench

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

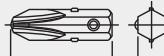
POWER  
MECANICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCION

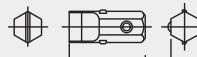
RENEWAL KITS  
MIEGOS DE REPUESTO

**101P**  Phillips Bits  
Puntas Phillips



101P (PH)	D (mm)	L (mm)	(g)	(pcs.)
<b>1</b>	6.35	20.5	3	10
<b>2</b>	6.35	20.5	4	10
<b>3</b>	6.35	20.5	5	10

**101S**  Bits for Slotted head  
Puntas Rectas/Planas



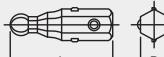
101S	D (mm)	L (mm)	(g)	(pcs.)
<b>1.0×7</b>	6.35	15	3	10
<b>1.2×7</b>	6.35	15	3	10

**101H**  Hex Bits  
Puntas Hexagonales



101H (mm)	D (mm)	L (mm)	(g)	(pcs.)
<b>3</b>	6.35	20.5	5	10
<b>4</b>	6.35	20.5	5	10
<b>5</b>	6.35	20.5	5	10
<b>6</b>	6.35	20.5	5	10
<b>7</b>	6.35	20.5	6	10
<b>8</b>	6.35	20.5	7	10

**101B**  Ball-point Hex Bits  
Puntas Hexagonales con bola 



101B (mm)	D (mm)	L (mm)	(g)	(pcs.)
<b>3</b>	6.35	25	4	10
<b>4</b>	6.35	25	4	10
<b>5</b>	6.35	25	5	10
<b>6</b>	6.35	25	5	10

 Ball point bits have less strength due to the special design.  
Make sure to use them correctly.

**101T (T)**  TORX® Bits  
Puntas TORX®



101T (T)	D (mm)	L (mm)	(g)	(pcs.)
<b>T 9</b>	6.35	25	4	10
<b>T10</b>	6.35	25	4	10
<b>T15</b>	6.35	25	5	10
<b>T20</b>	6.35	25	5	10
<b>T25</b>	6.35	25	5	10
<b>T27</b>	6.35	25	6	10
<b>T30</b>	6.35	25	6	10

**101T (TH)**  Tamper-Resistant TORX® Bits  
Punta TORX®, indeformable 



101T (TH)	D (mm)	L (mm)	(g)	(pcs.)
<b>T10H</b>	6.35	25	4	10
<b>T15H</b>	6.35	25	4	10
<b>T20H</b>	6.35	25	5	10
<b>T25H</b>	6.35	25	5	10
<b>T27H</b>	6.35	25	6	10
<b>T30H</b>	6.35	25	6	10

 Tamper Resistant TORX® Bits have less strength due to special design.  
Make sure to use it correctly.

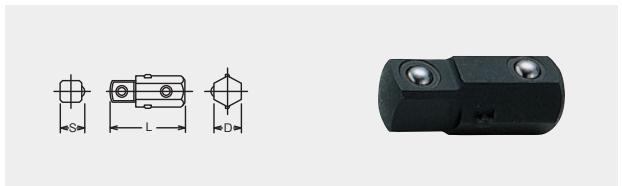
128H (mm)	D (mm)	L (mm)	(g)	(pcs.)
3	8	32	11	10
4	8	32	11	10
5	8	32	12	10
6	8	32	12	10
8	8	32	13	10

**128H** Hex Bits  
Puntas Hexagonales

128T (T)	D (mm)	L (mm)	(g)	(pcs.)
T10	8	32	9	10
T15	8	32	9	10
T20	8	32	9	10
T25	8	32	10	10
T27	8	32	10	10
T30	8	32	11	10

**128T** TORX® Bits  
Puntas TORX®

101A	D (mm)	S (mm)	L (mm)	(g)	(pcs.)
	8	6.35	20	8	10

**101A** Adaptor  
Adaptador

1202	15 Pieces Set/ =420g
METAL CASE: W190×H60×T30mm	
Bits	Accessory
101P Phillips Bits 1, 2, 3	138
101S Slotted Bit 1×7	
101B Ballpoint Hex Bits 3, 4, 5, 6	
101T Torx® Bits T10, T15, T20, T25, T27, T30	

**1202** Bit Set  
Juego de Puntas

2254M	12 Pieces Set/ =450g
METAL CASE: W160×H100×T28mm	
Bits	Accessories
101P Phillips Bits 1, 2, 3	102NA-1/4x5/16
101S Slotted Bits 1×7, 1.2×7	2769F
101H Hex Bits 3, 4, 5	101A
	2137

**2254M** Bit Set  
Juego de Puntas

# ATTACK DRIVER®

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECANICOS

AUTOMOTIVE

RENEWAL KITS  
AJEgos DE REPUESTO CONSTRUCCION

## 3112N

Attack Driver  
Destornillador de Impacto

PATENTED



		L (mm)	 (g)	 (pce.)
3112N		159	730	1
3112G		159	810	1

\* Renewal Kits → 3112RK ➔ P275

## 3112G

Attack Driver  
Destornillador de Impacto

PATENTED



		L (mm)	 (g)	 (pce.)
4112N		163	730	1
4112G		163	810	1

\* Renewal Kits → 4112RK ➔ P275

## 4112N

Attack Driver  
Destornillador de Impacto

PATENTED



		L (mm)	 (g)	 (pce.)
6112		190	1900	1

\* Renewal Kits → 6112RK ➔ P275

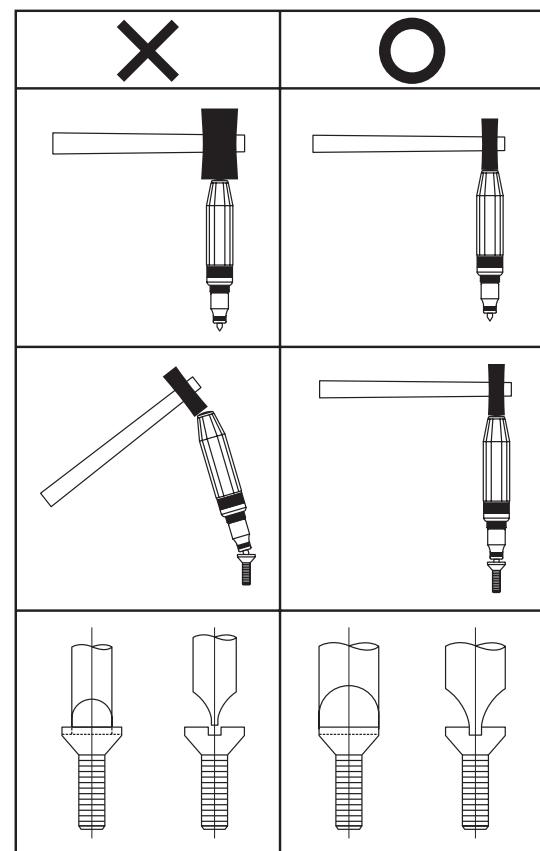


Black finished head prevents peeling off the chrome plate by striking the head.

## 4112G

Attack Driver  
Destornillador de Impacto

PATENTED



## 6112

Attack Driver  
Destornillador de Impacto



<b>AN318A</b>	6 Pieces Set/ $\frac{1}{4}$ "=1,070g
METAL CASE:W190×H59×T45mm	
Bits	Accessories
<b>100P.32</b> Phillips Bits 2, 3	<b>3112N</b>
<b>100S.32</b> Slotted Bits 9, 11	<b>3138</b>

<b>AN112A</b>	6 Pieces Set/ $\frac{1}{4}$ "=1,070g
METAL CASE:W190×H59×T45mm	
Bits	Accessories
<b>100P.32</b> Phillips Bits 2, 3	<b>4112N</b>
<b>100S.32</b> Slotted Bits 9, 11	<b>4138</b>

<b>AG318A</b>	6 Pieces Set/ $\frac{1}{4}$ "=1,150g
METAL CASE:W220×H82×T60mm	
Bits	Accessories
<b>100P.32</b> Phillips Bits 2, 3	<b>3112G</b>
<b>100S.32</b> Slotted Bits 9, 11	<b>3138</b>

<b>AG112A</b>	6 Pieces Set/ $\frac{1}{4}$ "=1,150g
METAL CASE:W220×H82×T60mm	
Bits	Accessories
<b>100P.32</b> Phillips Bits 2, 3	<b>4112G</b>
<b>100S.32</b> Slotted Bits 9, 11	<b>4138</b>

<b>AN112C</b>	8 Pieces Set/ $\frac{1}{4}$ "=1,350g
METAL CASE:W215×H80×T47mm	
Bits	Accessories
<b>100P.80</b> Phillips Bits 1, 2, 3	<b>4112N</b>
<b>100S.80</b> Slotted Bits 7, 9, 12	<b>4138</b>

<b>New AG112F</b>	25 Pieces Set/ $\frac{1}{4}$ "=1,530g
METAL CASE:W220×H82×T60mm	
Bits	Accessories
<b>100P.32</b> Phillips Bits 2, 3	<b>4112G</b>
<b>100P.32 PZ</b> Bits PZ2, PZ3	<b>4138</b>
<b>100S.32</b> Slotted Bits 9, 11	
<b>100H.32</b> Hex Bits 4, 5, 6, 7, 8, 10	
<b>100T.32</b> TORX® Bits T25, T27, T30, T40, T45, T50	
<b>100X.32</b> XZN Bits M5, M6, M8, M10	

<b>AG112H</b>	18 Pieces Set/ $\frac{1}{4}$ "=1,480g
METAL CASE:W220×H82×T60mm	
Bits	Accessories
<b>100P.32</b> Phillips Bits 2, 3, 4	<b>4112G</b>
<b>100S.32</b> Slotted Bits 8, 9, 10, 12, 14	<b>4138</b>
<b>100H.32</b> Hex Bits 5, 6, 8, 10	
<b>100T.32</b> TORX® Bits T30, T40, T45, T50	

## AN318A AN112A

Attack Driver Set  
Juego de Destornilladores de Impacto



## AG318A AG112A

Attack Driver Set  
Juego de Destornilladores de Impacto



## AN112C

Attack Driver Set  
Juego de Destornilladores de Impacto



## AG112F

Attack Driver Set  
Juego de Destornilladores de Impacto

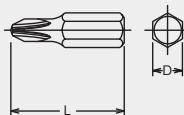


## AG112H

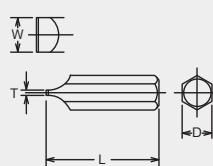
Attack Driver Set  
Juego de Destornilladores de Impacto



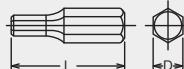
## 108P-25 · -32 · -50

Phillips Bits  
Puntas Phillips

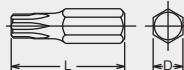
## 108S-25 · -39

Bits for Slotted head  
Puntas Rectas/Planas

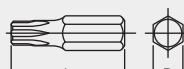
## 108H-25

Hex Bits  
Puntas Hexagonales

## 108T-25 (T)

TORX® Bits  
Puntas TORX®

## 108T-25 (TH)

Tamper-Resistant TORX® Bits  
Punta TORX®, indeformable

Tamper Resistant TORX® Bits have less strength due to special design.  
Make sure to use it correctly.

108P.25 (PH)	D (mm)	L (mm)	(g)	(pcs.)
1	6.35	25	5	10
2	6.35	25	5	10
3	6.35	25	6	10

108P.32 (PH)	D (mm)	L (mm)	(g)	(pcs.)
1	6.35	32	7	10
2	6.35	32	7	10
3	6.35	32	8	10

108P.50 (PH)	D (mm)	L (mm)	(g)	(pcs.)
1	6.35	50	10	10
2	6.35	50	11	10
3	6.35	50	11	10

108S.25	T×W (mm)	D (mm)	L (mm)	(g)	(pcs.)
3	0.5×3	6.35	25	3	10
4	0.6×4	6.35	25	3	10
4.5	0.6×4.5	6.35	25	4	10
5	0.8×5	6.35	25	5	10
5.5	0.8×5.5	6.35	25	5	10
6	1.0×6	6.35	25	5	10
8	1.2×8	6.35	25	6	10

108S.39	T×W (mm)	D (mm)	L (mm)	(g)	(pcs.)
3	0.5×3	6.35	39	6	10
4	0.6×4	6.35	39	6	10
4.5	0.6×4.5	6.35	39	6	10
5	0.8×5	6.35	39	7	10
5.5	0.8×5.5	6.35	39	8	10
6	1.0×6	6.35	39	9	10
8	1.2×8	6.35	39	12	10

108H.25 (mm)	D (mm)	L (mm)	(g)	(pcs.)
3	6.35	25	4	10
4	6.35	25	5	10
5	6.35	25	5	10
6	6.35	25	6	10
7	6.35	25	7	10
8	6.35	25	8	10
10	6.35	25	11	10

108H.25 (inch)	D (mm)	L (mm)	(g)	(pcs.)
1/8	6.35	25	4	10
9/64	6.35	25	5	10
3/16	6.35	25	5	10
7/32	6.35	25	6	10
1/4	6.35	25	7	10

108T.25 (T)	D (mm)	L (mm)	(g)	(pcs.)
T10	6.35	25	4	10
T15	6.35	25	4	10
T20	6.35	25	5	10
T25	6.35	25	6	10
T27	6.35	25	6	10
T30	6.35	25	6	10

108T.25 (TH)	D (mm)	L (mm)	(g)	(pcs.)
T10H	6.35	25	4	10
T15H	6.35	25	4	10
T20H	6.35	25	5	10
T25H	6.35	25	6	10
T27H	6.35	25	6	10
T30H	6.35	25	6	10

Tamper Resistant TORX® Bits have less strength due to special design.  
Make sure to use it correctly.

**TORX®** is a registered trademark of Acument Intellectual Properties, LLC.  
**TORX** es una marca registrada de Acument Intellectual Properties, LLC.

# 1/4"

DIN3126 C6.3

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

**2137** Bit Holder  
Porta-punta



**3137** Bit Holder  
Porta-punta



**4137** Bit Holder  
Porta-punta



**12139** Impact Bit Holder  
Porta-punta de Impacto



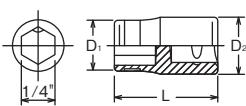
**13139** Impact Bit Holder  
Porta-punta de Impacto



**14139** Impact Bit Holder  
Porta-punta de Impacto



	□	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	L (mm)	⚖ (g)	❖ (pcs.)
2137	1/4"	12	12	22.5	13	10
3137	3/8"	13	16.5	30	30	10
4137	1/2"	13	22	38	53	10



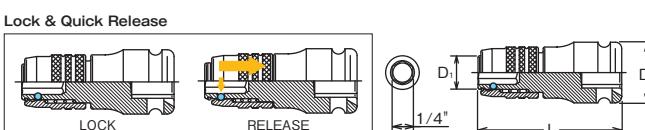
	□	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	L (mm)	⚖ (g)	❖ (pcs.)	∅
12139-1/4	1/4"	11	13	26	15	10	* 1
13139-1/4	3/8"	11	19	30	32	10	* 2
14139-1/4	1/2"	11	25	38	62	10	* 3

\*1 Pin/O-Ring=1200A/B

→ P230~231

\*2 C-Ring=1301C,Pin/O-Ring=1301A/B

\*3 C-Ring=1401C,Pin/O-Ring=1401A/B



	□	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	L (mm)	⚖ (g)	❖ (pcs.)	∅
13142-D6.3	3/8"	16	19	45	60	10	* 1
14142-D6.3	1/2"	16	25	55	97	10	* 2

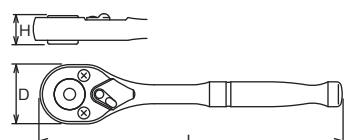
\*1 C-Ring=1301C,Pin/O-Ring=1301A/B

→ P230~231

\*2 C-Ring=1401C,Pin/O-Ring=1401A/B

**13142-D6.3** Impact Bit Holder for 1/4" (6.3) Bits  
Porta-punta de Impacto para Puntas 1/4" (6.3)

**14142-D6.3** Impact Bit Holder for 1/4" (6.3) Bits  
Porta-punta de Impacto para Puntas 1/4" (6.3)



	D (mm)	H (mm)	L (mm)	⚖ (g)	❖ (pcs.)
2749P-1/4HF	25	12	125	96	10
2774P-1/4HF	25	12	165	133	2

**2749P-1/4HF** Reversible Ratchet, for Bits 1/4"  
Llave de Carraca Reversible, para Puntas 1/4"



**2774P-1/4HF** Flexible Ratchet, reversible, for Bits 1/4"  
Llave de Carraca Reversible, para Puntas 1/4"

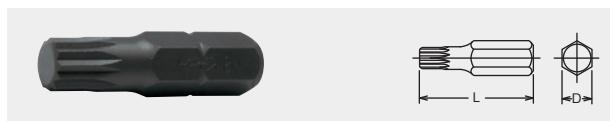
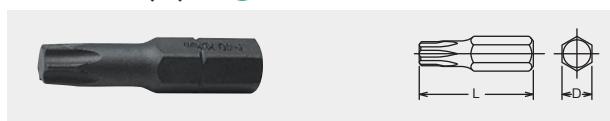
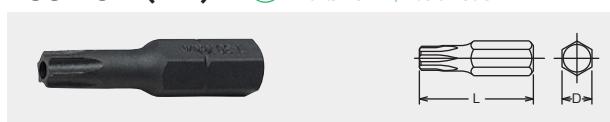


**100P-32 · -80 · -125**
 Phillips Bits  
Puntas Phillips


100P.80 (PH)	D (mm)	L (mm)	(g)	(pcs.)
1	8	80	30	10
2	8	80	30	10
3	8	80	31	10
4	8	80	32	10

**100P-32 (PZ)**
 PZ Bits  
Puntas PZ
**100S-32 · -80**
 Bits for Slotted head  
Puntas Rectas/Planas


100S.32	T×W (mm)	D (mm)	L (mm)	(g)	(pcs.)
6	1 × 6	8	32	10	10
7	1 × 7	8	32	11	10
8	1.2 × 8	8	32	12	10
9	1.6 × 9	8	32	12	10
10	1.6 × 10	8	32	13	10
11	1.6 × 11	8	32	15	10
12	2 × 12	8	32	18	10
14	2 × 14	8	32	21	10

**100H-32**
 Hex Bits  
Puntas Hexagonales
**100X-32 (XZN)**
 XZN Bits  
Puntas XZN
**100T-32 (T)**
 TORX® Bits  
Puntas TORX®
**100T-32 (TH)**
 Tamper-Resistant TORX® Bits  
Punta TORX®, indeformable


 Tamper Resistant TORX® Bits have less strength due to special design.  
Make sure to use it correctly.

100P.32 (PH)	D (mm)	L (mm)	(g)	(pcs.)
1	8	32	11	10
2	8	32	11	10
3	8	32	12	10
4	8	32	12	10

100P.125 (PH)	D (mm)	L (mm)	(g)	(pcs.)
2	8	125	48	10
3	8	125	49	10

100P.32 (PZ)	D (mm)	L (mm)	(g)	(pcs.)
New PZ2	8	32	10	10
New PZ3	8	32	11	10

100S.80	T×W (mm)	D (mm)	L (mm)	(g)	(pcs.)
6	1 × 6	8	80	29	10
7	1 × 7	8	80	30	10
8	1.2 × 8	8	80	31	10
9	1.6 × 9	8	80	32	10
10	1.6 × 10	8	80	33	10
11	1.6 × 11	8	80	33	10
12	2 × 12	8	80	34	10
14	2 × 14	8	80	37	10

100H.32 (mm)	D (mm)	L (mm)	(g)	(pcs.)
3	8	32	11	10
4	8	32	11	10
5	8	32	12	10
6	8	32	12	10
7	8	32	13	10
8	8	32	13	10
10	8	32	16	10
12	8	32	23	10
14	8	32	29	10

100X.32 (XZN)	D (mm)	L (mm)	(g)	(pcs.)
New M 5	8	32	10	10
New M 6	8	32	11	10
New M 8	8	32	12	10
New M10	8	32	16	10
New M12	8	32	19	10

100T.32 (T)	D (mm)	L (mm)	(g)	(pcs.)
T10	8	32	9	10
T15	8	32	9	10
T20	8	32	9	10
T25	8	32	10	10
T27	8	32	10	10
T30	8	32	11	10
T40	8	32	12	10
T45	8	32	12	10
T50	8	32	12	10
T55	8	32	12	10

100T.32 (TH)	D (mm)	L (mm)	(g)	(pcs.)
T10H	8	32	9	10
T15H	8	32	9	10
T20H	8	32	9	10
T25H	8	32	10	10
T27H	8	32	10	10
T30H	8	32	11	10
T40H	8	32	12	10
T45H	8	32	12	10
T50H	8	32	12	10
T55H	8	32	12	10

**TORX®** is a registered trademark of Acument Intellectual Properties, LLC.

**TORX** es una marca registrada de Acument Intellectual Properties, LLC.

# 5/16"

DIN3126 C8

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

**2138** Bit Holder  
Porta-punta



**3138** Bit Holder  
Porta-punta



**4138** Bit Holder  
Porta-punta



**12140** Impact Bit Holder  
Porta-punta de Impacto



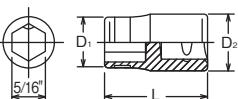
**13140** Impact Bit Holder  
Porta-punta de Impacto



**14140** Impact Bit Holder  
Porta-punta de Impacto



		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	L (mm)	(g)	(pcs.)
2138	1/4"	16	16	26	32	10
3138	3/8"	16	18	38	55	10
4138	1/2"	16	22	38	62	10



		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	L (mm)	(g)	(pcs.)
12140-5/16	1/4"	14	13	26	15	10 * 1
13140-5/16	3/8"	14	19	30	32	10 * 2
14140-5/16	1/2"	14	25	38	62	10 * 3

\*1 Pin/O-Ring=1200A/B

\*2 C-Ring=1301C,Pin/O-Ring=1301A/B

➔ P230~231

\*3 C-Ring=1401C,Pin/O-Ring=1401A/B

**2749P-5/16HF** Reversible Ratchet, for Bits 5/16"  
Llave de Carraca Reversible, para Puntas 5/16"



**2774P-5/16HF** Flexible Ratchet, reversible, for Bits 5/16"  
Llave de Carraca Reversible, para Puntas 5/16"



	D (mm)	H (mm)	L (mm)	(g)	(pcs.)
2749P-5/16HF	25	14	125	96	10
2774P-5/16HF	25	14	165	133	2

# Double ended Bits **5/16"**

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

POWER  
MECANICOS

AUTOMOTIVE

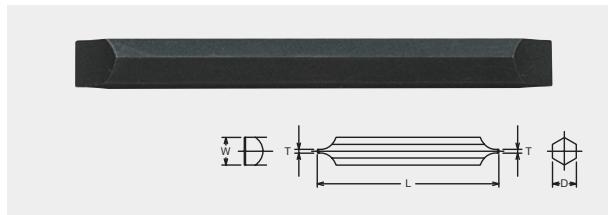
RENEWAL KITS  
MIEGOS DE REPUESTO

## 131P-80 Phillips Bits Puntas Phillips



131P.80		D (mm)	L (mm)		(g)		(pcs.)
1	No.1 × No.2	8	80	28	10		
2	No.2 × No.3	8	80	29	10		
3	No.3 × No.3	8	80	29	10		

## 131S-80 Bits for Slotted heads Puntas Rectas/Planas



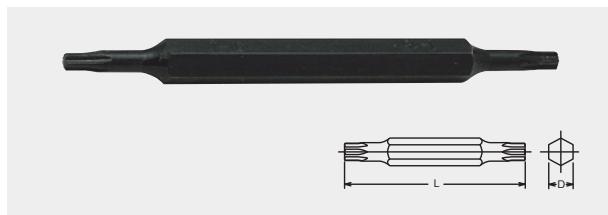
131S.80	T×W (mm)	D (mm)	L (mm)		(g)		(pcs.)
6	1.0 × 6	8	80	29	10		
7	1.0 × 7	8	80	29	10		
8	1.2 × 8	8	80	30	10		
9	1.6 × 9	8	80	31	10		

## 131PS-80 Double Ended Bits Puntas



131PS.80		D (mm)	L (mm)		(g)		(pcs.)
2	No.2 × No.6	8	80	29	10		
3	No.3 × No.8	8	80	29	10		

## 131T-80 TORX® Bits Puntas TORX®



131T.80 (T)	D (mm)	L (mm)		(g)		(pcs.)
T10×T15	8	80	27	10		
T20×T25	8	80	27	10		
T27×T30	8	80	28	10		

## 3141 Bit Holder, extra deep for 131P-80, 131S-80, 131T-80 Porta-punta, extra-largo para 131P-80, 131S-80, 131T-80



## 4141 Bit Holder, extra deep for 131P-80, 131S-80, 131T-80 Porta-punta, extra-largo para 131P-80, 131S-80, 131T-80



		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	L (mm)		(g)		(pcs.)
3141		16	18	48	60	10		
4141		16	22	52	70	10		

		L (mm)	(g)	(pcs.)
110-35B		35	9	10
110-50B		50	15	10
110-50P		50	15	10
110-100B		100	34	10
110-100P		100	34	10
110-150B		150	54	10
110-150P		150	54	10

◆ DIN 3126 Form E 6.3

		L (mm)	(g)	(pcs.)
112-50B		50	22	10
112-50P		50	22	10
112-100B		100	71	10
112-150B		150	121	10

◆ DIN 3126 Form E 6.3



		L (mm)	(g)	(pcs.)
135E-60B		60	64	10
135E-60P		60	64	10

◆ DIN 3126 Form E 6.3

		L (mm)	(g)	(pcs.)
117-50B		50	16	10
117-100B		100	36	10

◆ DIN 3126 Form G7

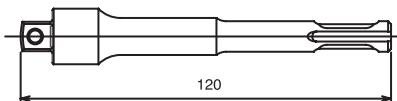
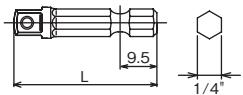
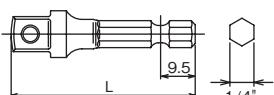
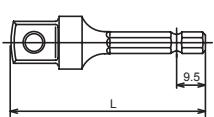
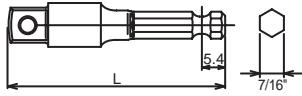
		D (mm)	L (mm)	(g)	(pcs.)
120-50B		8	50	26	10

◆ DIN 3126 Form E8

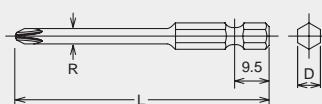
		D (mm)	(g)	(pcs.)
186-75P		75	65	10
186-75P		75	85	10

◆ DIN 3126 Form E11.2

		D (mm)	(g)	(pcs.)
BD022-120P		120	100	10
BD022-120P		120	160	10

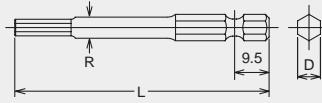
**110-35B · -50B · -100B · -150B**
 Adaptors with ball  
Adaptadores con Bola
**112-50B · -100B · -150B**
 Adaptors with ball  
Adaptadores con Bola
**135E-60B**
 Adaptor with ball  
Adaptador con Bola
**117-50B · -100B**
 Adaptors with ball  
Adaptadores con Bola
**120-50B**
 Adaptor with ball  
Adaptador con Bola
**186-75P**
 Adaptor with Pin  
Adaptador con Perno
**BD022-120P**
 Hammer Drill Adaptor  
Adaptador para Taladro de Percusión


## 121P-50 · -70 · -100

 Phillips Bits  
Puntas Phillips


121P.50 (PH)	D (mm)	R (mm)	L (mm)	g (g)	(pcs.)
1	6.35	4.5	50	12	10
2	6.35	5.5	50	12	10
3	6.35	—	50	13	10

## 121H-50 · -70 · -100 · -150

 Hex Bits  
Puntas Hexagonales


121H.50 (mm)	D (mm)	R (mm)	L (mm)	g (g)	(pcs.)
3	6.35	3.5	50	12	10
4	6.35	4.5	50	12	10
5	6.35	5.6	50	13	10
6	6.35	—	50	14	10

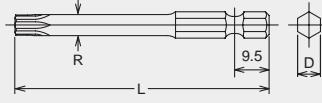
121P.70 (PH)	D (mm)	R (mm)	L (mm)	g (g)	(pcs.)
1	6.35	4.5	70	15	10
2	6.35	5.5	70	15	10
3	6.35	—	70	16	10

121P.100 (PH)	D (mm)	R (mm)	L (mm)	g (g)	(pcs.)
1	6.35	4.5	100	23	10
2	6.35	5.5	100	23	10
3	6.35	—	100	24	10

121H.70 (mm)	D (mm)	R (mm)	L (mm)	g (g)	(pcs.)
3	6.35	4.0	70	15	10
4	6.35	4.5	70	15	10
5	6.35	5.6	70	16	10
6	6.35	—	70	18	10

121H.100 (mm)	D (mm)	R (mm)	L (mm)	g (g)	(pcs.)
3	6.35	4.0	100	23	10
4	6.35	4.5	100	23	10
5	6.35	5.6	100	24	10
6	6.35	—	100	26	10

121H.150 (mm)	D (mm)	R (mm)	L (mm)	g (g)	(pcs.)
3	6.35	4.5	150	37	10
4	6.35	5.0	150	37	10
5	6.35	6.0	150	38	10
6	6.35	—	150	39	10

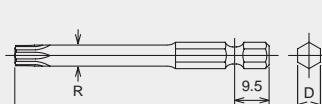
121T-50 · -70 · -100 · -150 (T)  TORX® Bits  
Puntas TORX®

121T.50 (T)	D (mm)	R (mm)	L (mm)	g (g)	(pcs.)
T20	6.35	4.1	50	12	10
T25	6.35	4.6	50	12	10
T27	6.35	5.2	50	13	10
T30	6.35	5.7	50	13	10
T40	6.35	—	50	14	10

121T.70 (T)	D (mm)	R (mm)	L (mm)	g (g)	(pcs.)
T20	6.35	4.1	70	16	10
T25	6.35	4.6	70	16	10
T27	6.35	5.2	70	17	10
T30	6.35	5.7	70	17	10
T40	6.35	—	70	18	10

121T.100 (T)	D (mm)	R (mm)	L (mm)	g (g)	(pcs.)
T20	6.35	4.1	100	24	10
T25	6.35	4.6	100	24	10
T27	6.35	5.2	100	24	10
T30	6.35	5.7	100	25	10
T40	6.35	—	100	26	10

121T.150 (T)	D (mm)	R (mm)	L (mm)	g (g)	(pcs.)
T20	6.35	4.5	150	37	10
T25	6.35	5.0	150	37	10
T27	6.35	5.6	150	37	10
T30	6.35	6.0	150	38	10
T40	6.35	—	150	39	10

121T-70 (TH)  Tamper-Resistant TORX® Bits  
Punta TORX®, indeformable 

121T.70 (TH)	D (mm)	R (mm)	L (mm)	g (g)	(pcs.)
T20H	6.35	4.1	70	16	10
T25H	6.35	4.6	70	16	10
T27H	6.35	5.2	70	17	10
T30H	6.35	5.7	70	17	10
T40H	6.35	—	70	18	10

 Tamper Resistant TORX® Bits have less strength due to special design.  
Make sure to use it correctly.

	D (mm)	L (mm)		(g)		(pcs.)
123PT (PH)	6.35	75		18		10
2	6.35	100		24		10

	D (mm)	L (mm)		(g)		(pcs.)
123PN.75 123PG.75 (PH)	6.35	75		16		10
1	6.35	75		16		10
3	6.35	75		17		10

	D (mm)	L (mm)		(g)		(pcs.)
123PN.100 123PG.100 (PH)	6.35	100		23		10
1	6.35	100		23		10
3	6.35	100		24		10

	D (mm)		L (mm)		(g)		(pcs.)
8	13.5	3.5	45		55		10
10	16	4.2	45		58		10
12	18.5	5.6	45		65		10
14	21	6.4	45		70		10



		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	L (mm)		(g)		(pcs.)	
12137E		12	13	40		22		10	* 1
13137H		22.5	19	42		77		10	* 2
13137E		12	19	40		40		10	* 2
14137E		12	25	48		70		10	* 3

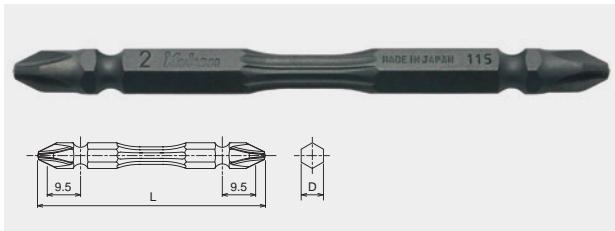
\*1 Pin/O-Ring=1200A/B

\*2 C-Ring=1301C, Pin/O-Ring=1301A/B → P230~231

\*3 C-Ring=1401C, Pin/O-Ring=1401A/B

**123PT-75 · -100**

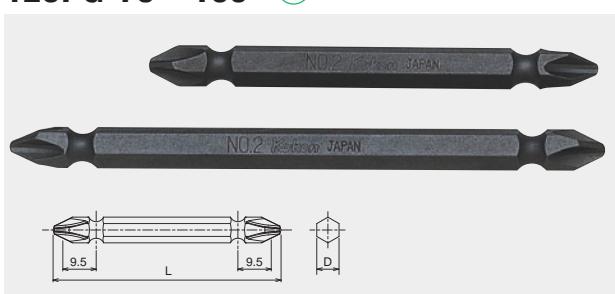
Double ended Torsion Bits  
Puntas Phillips, simétricas, Torsion

**123PN-75 · -100**

Double ended Bits  
Puntas Phillips, simétricas

**123PG-75 · -100**

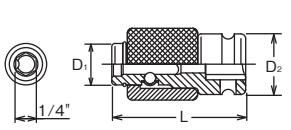
Magnetic type

**165LM**

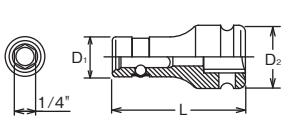
Slide socket with Magnet

**13137H**

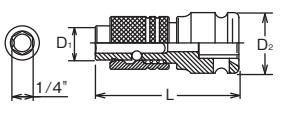
Impact Bit Holder for 1/4"(6.3) Bits  
Porta-punta de impacto para Puntas 1/4"(6.3)

**12137E**

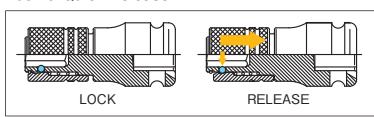
Impact Bit Holder for 1/4"(6.3) Bits  
Porta-punta de impacto para Puntas 1/4"(6.3)

**13137E****14137E****13142-F6.3**

Impact Bit Holder for 1/4"(6.3) Bits  
Porta-punta de impacto para Puntas 1/4"(6.3)

**14142-F6.3**

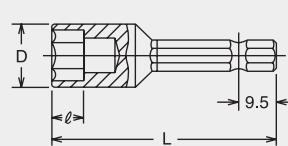
## Lock &amp; Quick Release



		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	L (mm)		(g)		(pcs.)	
13142-F6.3		16.5	19	45		60		10	* 1
14142-F6.3		16.5	25	45		100		10	* 2

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B → P230~231  
\*2 C-Ring=1401C, Pin/O-Ring=1401A/B

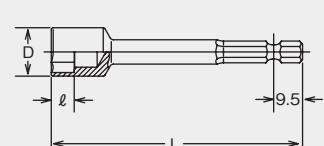
**113-50**  Nut Setters  
Vasos para apretar tuercas Hexagonales



113.50 (mm)	D (mm)	l (mm)	L (mm)	g (g)	(pcs.)
5.5	9	4	50	15	10
6	10	5	50	17	10
7	11	5	50	19	10
8	12	6	50	20	10
10	14	7	50	31	10
12	17	8	50	39	10
13	18	8	50	42	10
14	19	9	50	46	10

113.50 (inch)	D (mm)	l (mm)	L (mm)	g (g)	(pcs.)
1/4	10	5	50	17	10
5/16	12	6	50	20	10
3/8	14	7	50	31	10
1/2	18	8	50	42	10

**113-75 · -100 · -150 · -200 · -250**  Nut Setters  
Vasos para apretar tuercas Hexagonales



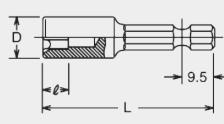
113.75 (mm)	D (mm)	l (mm)	L (mm)	g (g)	(pcs.)
7	11.5	5	75	31	10
8	12.7	6	75	32	10
10	14.5	7	75	35	10
12	17	8	75	42	10
13	18	8	75	41	10
14	19	9	75	43	10

113.100 (mm)	D (mm)	l (mm)	L (mm)	g (g)	(pcs.)
7	11.5	5	100	40	10
8	12.7	6	100	41	10
10	14.5	7	100	45	10
12	17	8	100	52	10
13	18	8	100	51	10
14	19	9	100	53	10

113.150 (mm)	D (mm)	l (mm)	L (mm)	g (g)	(pcs.)
7	11.5	5	150	59	10
8	12.7	6	150	60	10
10	14.5	7	150	64	10
12	17	8	150	70	10
13	18	8	150	76	10
14	19	9	150	78	10

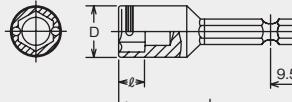
113.200 (mm)	D (mm)	l (mm)	L (mm)	g (g)	(pcs.)
7	11.5	5	200	78	10
8	12.7	6	200	79	10
10	14.5	7	200	83	10
12	17	8	200	91	10
13	18	8	200	93	10
14	19	9	200	95	10

**113-50 (E)**  Nut Setters, TORX®  
Vasos para apretar tuercas, TORX®



113.50 (E)	D (mm)	l (mm)	L (mm)	g (g)	(pcs.)
E 4	6.1	4.5	50	12	10
E 5	7.5	4.5	50	15	10
E 6	8.3	5.0	50	17	10
E 7	8.8	5.8	50	18	10
E 8	10.1	6.6	50	19	10
E10	12	7.4	50	20	10

**113-50 (2B)**  Nut Setters Nut Grip®  
Vasos para apretar tuercas con 2 bolas



113.50 (mm)	D (mm)	l (mm)	L (mm)	g (g)	(pcs.)
7(2B)	11	5	50	20	10
8(2B)	12	6	50	21	10
10(2B)	14.2	7	50	26	10
13(2B)	18	8	50	31	10

113.50 (inch)	D (mm)	l (mm)	L (mm)	g (g)	(pcs.)
3/8(2B)	14.2	7	50	26	10

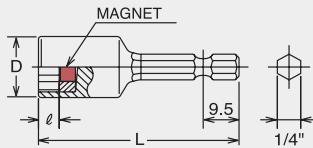
1/4"

DIN3126 E6.3

115-50



Nut Setters with Magnet  
Vasos para tuercas con Imán

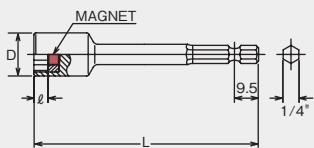


115.50 (mm)	D (mm)	$\ell$ (mm)	L (mm)	$\frac{lb}{in}$ (g)	$\frac{oz}{in}$ (pcs.)
5.5	9	2.1	50	15	10
6	10	2.4	50	17	10
7	11	2.8	50	19	10
8	12	3.5	50	20	10
10	14	4.2	50	29	10
12	17	5.6	50	40	10
13	18	6	50	50	10
14	19	6.4	50	60	10

115.50 (inch)	D (mm)	$\ell$ (mm)	L (mm)	$\frac{lb}{in}$ (g)	$\frac{oz}{in}$ (pcs.)
1/4	10	1.8	50	17	10
1/4(DP2.4)	10	2.4	50	17	10
5/16	12	3.5	50	20	10
3/8	14	4.2	50	29	10
1/2	18	6	50	50	10

115-75 · -100 · -150 · -200 · -250

Nut Setters with Magnet  
Vasos para tuercas con Imán



115.75 (mm)	D (mm)	$\ell$ (mm)	L (mm)	$\frac{lb}{in}$ (g)	$\frac{oz}{in}$ (pcs.)
7	11.5	2.8	75	32	10
8	12.7	3.5	75	33	10
10	14.5	4.2	75	38	10
12	17	5.6	75	46	10
13	18	6	75	49	10
14	19	6.4	75	52	10

115.100 (mm)	D (mm)	$\ell$ (mm)	L (mm)	$\frac{lb}{in}$ (g)	$\frac{oz}{in}$ (pcs.)
7	11.5	2.8	100	41	10
8	12.7	3.5	100	42	10
10	14.5	4.2	100	50	10
12	17	5.6	100	58	10
13	18	6	100	62	10
14	19	6.4	100	65	10

115.150 (mm)	D (mm)	$\ell$ (mm)	L (mm)	$\frac{lb}{in}$ (g)	$\frac{oz}{in}$ (pcs.)
7	11.5	2.8	150	60	10
8	12.7	3.5	150	61	10
10	14.5	4.2	150	68	10
12	17	5.6	150	77	10
13	18	6	150	82	10
14	19	6.4	150	85	10

115.200 (mm)	D (mm)	$\ell$ (mm)	L (mm)	$\frac{lb}{in}$ (g)	$\frac{oz}{in}$ (pcs.)
7	11.5	2.8	200	79	10
8	12.7	3.5	200	80	10
10	14.5	4.2	200	88	10
12	17	5.6	200	97	10
13	18	6	200	102	10
14	19	6.4	200	105	10

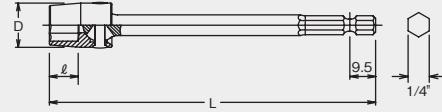
115.250 (mm)	D (mm)	$\ell$ (mm)	L (mm)	$\frac{lb}{in}$ (g)	$\frac{oz}{in}$ (pcs.)
7	11.5	2.8	250	101	10
8	12.7	3.5	250	103	10
10	14.5	4.2	250	110	10
12	17	5.6	250	118	10
13	18	6	250	122	10
14	19	6.4	250	124	10



**113UN-100 · -150 · -200**

6-point Universal Joint Nut Setters

Vasos para apretar tuercas Hexagonales con Articulación Universal



113UN.100 (mm)	D (mm)	l (mm)	L (mm)	$\frac{lb}{in}$ (g)	(pcs.)
8	13	7	100	50	10
10	15	8	100	53	10
12	17	10	100	56	10
13	18	10	100	65	10
14	19.2	10	100	67	10

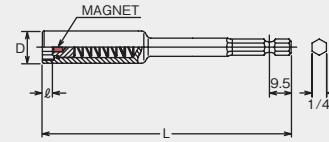
113UN.150 (mm)	D (mm)	l (mm)	L (mm)	$\frac{lb}{in}$ (g)	(pcs.)
8	13	7	150	65	10
10	15	8	150	70	10
12	17	10	150	77	10
13	18	10	150	92	10
14	19.2	10	150	92	10

113UN.200 (mm)	D (mm)	l (mm)	L (mm)	$\frac{lb}{in}$ (g)	(pcs.)
8	13	7	200	75	10
10	15	8	200	87	10
12	17	10	200	98	10
13	18	10	200	116	10
14	19.2	10	200	116	10

**115G-75 · -100 · -150 · -200**

Nut Setters with Sliding Magnet

Vasos para tuercas con Imán Corredizo

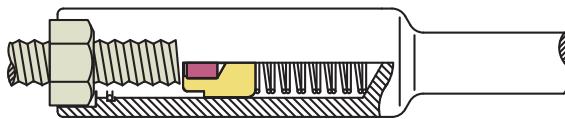


115G.75 (mm)	D (mm)	l (mm)	L (mm)	$\frac{lb}{in}$ (g)	(pcs.)
7	11.5	3.5	75	34	10
8	12.7	4	75	41	10
10	14.5	4.5	75	48	10
12	17	6	75	65	10
13	18	6.5	75	70	10
14	19	7	75	73	10

115G.100 (mm)	D (mm)	l (mm)	L (mm)	$\frac{lb}{in}$ (g)	(pcs.)
7	11.5	3.5	100	51	10
8	12.7	4	100	51	10
10	14.5	4.5	100	57	10
12	17	6	100	77	10
13	18	6.5	100	80	10
14	19	7	100	82	10

115G.150 (mm)	D (mm)	l (mm)	L (mm)	$\frac{lb}{in}$ (g)	(pcs.)
7	11.5	3.5	150	67	10
8	12.7	4	150	70	10
10	14.5	4.5	150	77	10
12	17	6	150	95	10
13	18	6.5	150	100	10
14	19	7	150	105	10

115G.200 (mm)	D (mm)	l (mm)	L (mm)	$\frac{lb}{in}$ (g)	(pcs.)
7	11.5	3.5	200	86	10
8	12.7	4	200	89	10
10	14.5	4.5	200	96	10
12	17	6	200	119	10
13	18	6.5	200	125	10
14	19	7	200	128	10



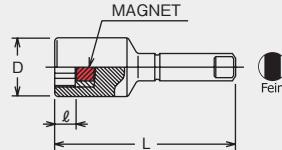
Sliding magnet system provides bolt clearance and magnetic function at the same time. The item 115G is mainly designed for assembly line work.

El sistema de imán corredizo proporciona espacio para el perno y al mismo tiempo acción magnética. El artículo 115G está diseñado específicamente para líneas de montaje.

**119**

Nut Setters with Magnet

Vasos para tuercas con Imán



119.50 (mm)	D (mm)	l (mm)	L (mm)	$\frac{lb}{in}$ (g)	(pcs.)
5.5	9	2.1	50	17	10
6	10	2.4	50	20	10
7	11	2.8	50	22	10
8	12	3.5	50	23	10
10	14	4.2	50	30	10
12	17	5.6	50	42	10
13	18	6	50	52	10

119.50 (inch)	D (mm)	l (mm)	L (mm)	$\frac{lb}{in}$ (g)	(pcs.)
1/4	10	1.8	50	20	10
5/16	12	3.5	50	23	10
3/8	14	4.2	50	30	10

# Screwdrivers



## Screwdrivers

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM

DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

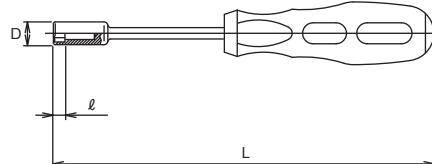
AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
MÉJICOS DE REPUESTO

### 167M • 167A

 Socket Drivers  
Destornilladores de Vaso

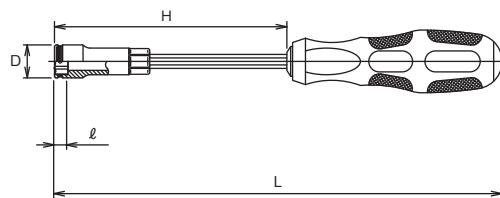


167M (mm)	D (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
3	5.8	3	225	62	6
3.5	5.8	3	225	62	6
4	6.7	3.5	225	64	6
4.5	7.2	4.5	225	65	6
5	7.8	5	225	66	6
5.5	8.4	5.5	225	68	6
6	9.1	6	225	70	6
7	10.9	6.5	235	101	6
8	12	7	235	103	6
9	13.2	7.5	235	107	6
10	14.5	8	235	111	6
11	15.9	8.5	245	155	6
12	16.8	9	245	161	6
13	18.2	9.5	245	167	6
14	19.2	11	245	178	6

167A (inch)	D (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
1/4	9.1	6	225	70	6

### 167C (2B)

 Interchangeable Socket Driver, Nut Grip®



167C(2B) (mm)	D (mm)	H (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
New 7(2B)	11.5	122	4	235	120	6
New 8(2B)	12.3	122	5	235	125	6
New 10(2B)	14.2	122	6	235	130	6
New 12(2B)	17.3	122	7	235	135	6

New 167C/3-2B

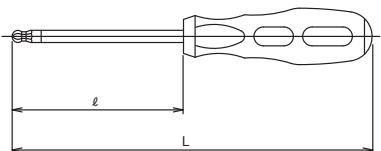
PLASTIC BAG

4 Pieces Set/SET=280g

Socket Drivers

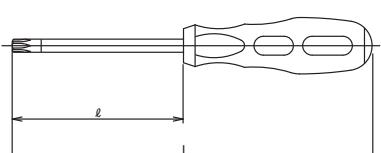
 Socket:7, 8, 10

Grip:167C-GRIP

**168H-B**
 Ball point Hex Screwdrivers


168H (mm)	$\ell$ (mm)	L (mm)	(g)	(pcs.)
3B	80	150	25	6
4B	125	225	60	6
5B	125	235	85	6
6B	125	245	150	6
7B	125	245	151	6
8B	125	245	153	6

Ball point Hex Screwdrivers have less strength due to the special design. Make sure to use them correctly.

**168T (TH)**
 Tamper-Resistant TORX® Screwdrivers


168T (TH) (mm)	$\ell$ (mm)	L (mm)	(g)	(pcs.)
T10H	80	150	25	6
T15H	80	150	25	6
T20H	125	225	60	6
T25H	125	225	60	6
T27H	125	235	90	6
T30H	125	235	92	6
T40H	125	245	153	6

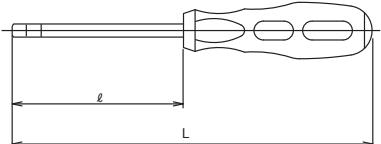
Tamper Resistant TORX® Screwdrivers have less strength due to the special design. Make sure to use it correctly.

**168T/7-TH**

New 168T-T10H, T15H, T20H, T25H, T27H, T30H, T40H 480



168R (mm)	$\ell$ (mm)	L (mm)	(g)	(pcs.)
1	125	225	60	6
2	125	235	85	6

**168T/7 (TH)**
 Set Juego
**168R**
 Square Screwdriver
**168P (PZ)**
 PZ Screwdriver


168P (PZ) (mm)	$\ell$ (mm)	L (mm)	(g)	(pcs.)
PZ1	75	175	78	6
PZ2	100	210	129	6
PZ3	150	270	203	6

**TORX®** is a registered trademark of Acument Intellectual Properties, LLC.  
**TORX®** es una marca registrada de Acument Intellectual Properties, LLC.

A binding Design Agreement prevents Ko-ken Tool Co., Ltd. from exporting its Screwdrivers to the USA.

## Screwdrivers

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM

DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECANICOS

AUTOMOTIVE

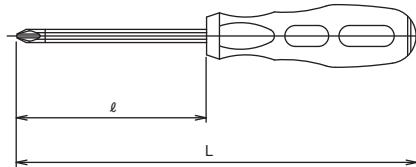
RENEWAL KITS  
MIEGOS DE REPUESTO  
CONSTRUCCIÓN

**166P**



Screwdriver (Blade-Through type)  
Destornilladores

**166S**



166P (PH)	$\ell$ (mm)	L (mm)	$\ddot{\text{g}}$ (g)	(pcs.)
1	75	175	78	6
2	100	210	129	6
3	150	270	203	6

166S	$\ell$ (mm)	L (mm)	$\ddot{\text{g}}$ (g)	(pcs.)
5	75	175	78	6
6	100	210	129	6
8	150	270	203	6



**166PS/6**



Set  
Juego



**166PS/6**

CARDBOARD BOX: W280×H115×T40mm  
Screwdrivers

**166P** Screwdrivers  
1, 2, 3

**166S** Screwdrivers  
5, 6, 8

6 Pieces Set/ $\Delta\Delta$ =885g

**PK166PS/6**



Set  
Juego



**PK166PS/6**

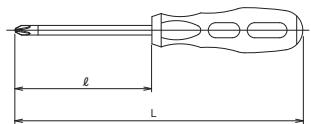
PLASTIC TRAY

6 Pieces Set/ $\Delta\Delta$ =950g

Screwdrivers

**166P** Screwdrivers  
1, 2, 3

**166S** Screwdrivers  
5, 6, 8

**168P** Screwdriver  
**168S**


168P (PH)	$\ell$ (mm)	L (mm)	(g)	(pcs.)
1	75	175	59	6
2	100	210	86	6
3	150	270	150	6

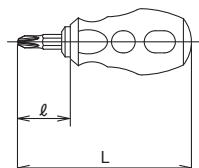
168S	$\ell$ (mm)	L (mm)	(g)	(pcs.)
5	75	175	59	6
6	100	210	86	6
8	150	270	150	6

168PS/6	6 Pieces Set/ $\Delta\Delta$ =660g
CARDBOARD BOX: W280×H115×T40mm	
Screwdrivers	
168P Screwdrivers 1, 2, 3	
168S Screwdrivers 5, 6, 8	

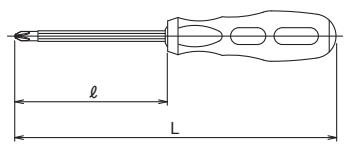
**168PS/6** Set Juego

**PK168PS/6** Set Juego


PK168PS/6	6 Pieces Set/ $\Delta\Delta$ =720g
PLASTIC TRAY	
Screwdrivers	
168P Screwdrivers 1, 2, 3	
168S Screwdrivers 5, 6, 8	



168CS	$\ell$ (mm)	L (mm)	(g)	(pcs.)
2×6	22	86	46	6

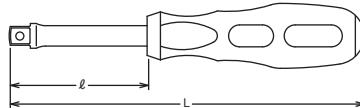


168C	$\ell$ (mm)	L (mm)	(g)	(pcs.)
2×6	100	210	108	6
2×6(150)	150	260	120	6
2×6(200)	200	310	133	6

**168CS** Interchangeable Screwdriver, Stubby

**168C** Interchangeable Screwdriver


## Screwdrivers

**2769N-150 · -220**Spin Type Handle  
Mango Tipo Destornillador

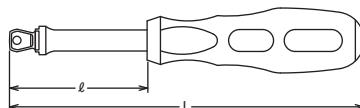
2769N		$\ell$ (mm)	L (mm)	 (g)	 (pcs.)
150		50	150	68	2
220		120	220	100	2

Plastic or rubber handles are not intended to act as insulation.  
Los mangos de plástico o de goma no están previstos para aislamiento.

**2769NWF-150 · -220**

Spin Type Handle (Wobble-Fix)

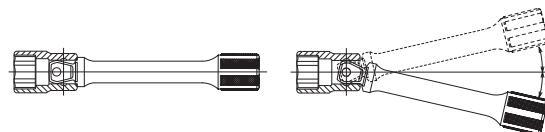
Mango Tipo Destornillador (Articulado-Fijo)



2769NWF		$\ell$ (mm)	L (mm)	 (g)	 (pcs.)
150		50	150	68	2
220		120	220	100	2

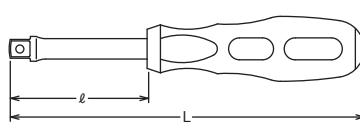
Two way usage : one for as a flexible extension bar to provide at 15° angle operation, the other for use as a normal extension bar.

Dos formas de utilización : Una, como alargadera flexible que permite trabajar con un ángulo de 15°, otra, como alargadera normal.

**3769N-160 · -230**

Spin Type Handle

Mango Tipo Destornillador

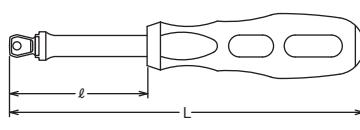


3769N		$\ell$ (mm)	L (mm)	 (g)	 (pcs.)
160		50	160	96	2
230		120	230	126	2

**3769NWF-160 · -230**

Spin Type Handle (Wobble-Fix)

Mango Tipo Destornillador (Articulado-Fijo)



3769NWF		$\ell$ (mm)	L (mm)	 (g)	 (pcs.)
160		50	160	96	2
230		120	230	126	2

1/4"

3/8"

1/2"

5/8"

3/4"

1"

1-1/2"

2-1/2"

3-1/2"

# Impact Sockets



# Impact Sockets **1/4"**

HAND  
MANUALES

Z-SERIES  
INDUSTRIALES

TITANIUM  
DE TITANIO

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

POWER  
MECÁNICOS

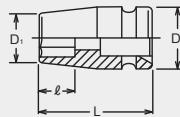
AUTOMOTIVE  
CONSTRUCCIÓN

RENEWAL KITS  
MÉJICOS DE REPUESTO

## 12400M • 12400A



6-point Sockets  
Vasos Hexagonales



12400M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	⌚
4	7.5	13	4	23	14	10	* 1
4.5	8.1	13	4	23	14	10	* 1
5	8.8	13	4	23	14	10	* 1
5.5	9.4	13	4	23	14	10	* 1
6	10	13	5	23	14	10	* 1
7	11.3	13	5	23	14	10	* 1
8	12.5	13	6	23	14	10	* 1
9	13.8	13	7	23	14	10	* 1
10	15	13	7	23	15	10	* 1
11	16.3	13	8	23	18	10	* 1
12	17.5	13	8	23	19	10	* 1
13	18.8	13	8	23	19	10	* 1
14	20	13	9	23	20	10	* 1

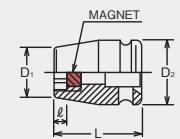
12400A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	⌚
5/32	7.5	13	4	23	14	10	* 1
3/16	8.1	13	4	23	14	10	* 1
1/4	10	13	5	23	14	10	* 1
9/32	11.3	13	5	23	14	10	* 1
5/16	12.5	13	6	23	14	10	* 1
11/32	13.8	13	7	23	14	10	* 1
3/8	15	13	7	23	15	10	* 1
7/16	16.3	13	8	23	18	10	* 1
1/2	18.8	13	8	23	19	10	* 1
9/16	20	13	9	23	20	10	* 1

\*1 Pin/O-Ring=1200A/B → P231

## 12400MG • 12400AG



6-point Sockets with Magnet  
Vasos Hexagonales con Imán



12400MG (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	⌚
4	7.5	13	2.1	23	12	10	* 1
4.5	8.1	13	2.1	23	13	10	* 1
5	8.8	13	2.1	23	15	10	* 1
5.5	9.4	13	2.1	23	15	10	* 1
6	10	13	2.4	23	16	10	* 1
7	11.3	13	2.8	23	16	10	* 1
8	12.5	13	3.5	23	17	10	* 1
9	13.8	13	3.8	23	18	10	* 1
10	15	13	4.2	23	18	10	* 1
11	16.3	13	4.9	23	21	10	* 1
12	17.5	13	5.6	25	21	10	* 1
13	18.8	13	6	25	21	10	* 1
14	20	13	6.4	25	20	10	* 1

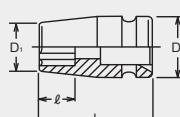
12400AG (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	⌚
3/16	8.1	13	2.1	23	13	10	* 1
1/4	10	13	2.4	23	16	10	* 1
5/16	12.5	13	3.5	23	17	10	* 1
11/32	13.8	13	3.8	23	18	10	* 1
3/8	15	13	4.2	23	18	10	* 1
7/16	16.3	13	4.9	23	21	10	* 1
1/2	18.8	13	6	25	21	10	* 1
9/16	20	13	6.4	25	20	10	* 1

\*1 Pin/O-Ring=1200A/B → P231

## 12410M



Surface Drive Sockets  
Vasos Surface Drive (de Contacto Curvo)



12410M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	⌚
6	10	13	5	23	14	10	* 1
7	11.3	13	5	23	15	10	* 1
8	12.5	13	6	23	15	10	* 1
9	13.8	13	7	23	14	10	* 1
10	15	13	7	23	14	10	* 1
11	16.3	13	8	23	17	10	* 1
12	17.5	13	8	23	19	10	* 1
13	18.8	13	8	23	19	10	* 1

\*1 Pin/O-Ring=1200A/B → P231

# 1/4"

Impact Sockets

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

12465M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	∅
10	15	13	8	23	17	10	* 1
11	16.3	13	8	23	18	10	* 1
12	17.5	13	9	23	18	10	* 1
13	18.8	13	9	23	20	10	* 1

\*1 Pin/O-Ring=1200A/B ➔ P231

## 12465M



Pathfinder Sockets  
Vasos Pathfinder (Guia)



12425 (E)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	∅
E 4	6.6	13	4.6	23	14	10	* 1
E 5	7.7	13	5.2	23	15	10	* 1
E 6	8.7	13	5.4	23	15	10	* 1
E 7	9.2	13	6.6	23	15	10	* 1
E 8	9.7	13	7	23	15	10	* 1
E10	12.2	13	8.2	23	15	10	* 1

\*1 Pin/O-Ring=1200A/B ➔ P231

## 12425



TORX® Sockets  
Vasos TORX®



12460M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	∅
5.5	9.7	13	4	23	15	10	* 1
6	10.3	13	5	23	15	10	* 1
7	11.6	13	5	23	16	10	* 1
8	12.8	13	6	23	16	10	* 1
10	15.3	13	7	23	19	10	* 1
13	19.1	13	8	23	23	10	* 1

12460A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	∅
1/4	10.3	13	5	23	15	10	* 1
5/16	12.8	13	6	23	16	10	* 1
3/8	15.3	13	7	23	19	10	* 1
1/2	19.1	13	8	23	23	10	* 1

\*1 Pin/O-Ring=1200A/B ➔ P231

## 12460M • 12460A



For Self-Tapping Screws  
Para Tornillos Autorroscantes



12460MG (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	∅
5.5	9.7	13	2.1	23	16	10	* 1
6	10.3	13	2.4	23	16	10	* 1
7	11.6	13	2.8	23	16	10	* 1
8	12.8	13	3.5	25	18	10	* 1
10	15.3	13	4.2	28	20	10	* 1
13	19.1	13	6	30	23	10	* 1
14	20	13	6.4	30	24	10	* 1

12460AG (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	∅
1/4	10.3	13	2.4	23	16	10	* 1
5/16	12.8	13	3.5	25	18	10	* 1
3/8	15.3	13	4.2	28	20	10	* 1
7/16	16.6	13	4.9	29	27	10	* 1
1/2	19.1	13	6	30	23	10	* 1

\*1 Pin/O-Ring=1200A/B ➔ P231

## 12460MG • 12460AG



With Magnet for Self-Tapping Screws  
Con Imán para Tornillos Autorroscantes



# Impact Sockets **1/4"**

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

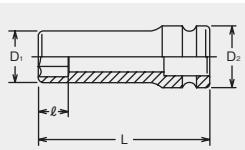
POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION

RENEWAL KITS  
MIEGOS DE REPUESTO

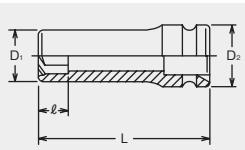
## 12300M 6-point Sockets, deep Vasos Hexagonales Largos



12300M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	(g)	(pcs.)	
8	12.5	13	8	48	32	10	* 1
10	15	13	10	48	34	10	* 1
12	17.5	13	12	48	49	10	* 1
13	18.8	13	13	48	52	10	* 1
14	20	13	14	48	57	10	* 1

\*1 Pin/O-Ring=1200A/B → P231

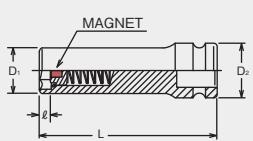
## 12365M Pathfinder Sockets, deep Vasos Pathfinder (Guia) Largos



12365M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	(g)	(pcs.)	
10	15	13	8	48	34	10	* 1
11	16.3	13	8	48	46	10	* 1
12	17.5	13	9	48	49	10	* 1
13	18.8	13	9	48	52	10	* 1

\*1 Pin/O-Ring=1200A/B → P231

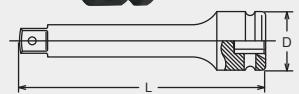
## 12300G Impact Socket with Sliding Magnet Vasos de Impacto con Iman Corredizo



12300G (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	(g)	(pcs.)	
8	12.5	13	4	48	32	10	* 1
10	15	13	4.5	48	34	10	* 1
12	17.5	13	6	48	49	10	* 1
13	18.8	13	6.5	48	52	10	* 1
14	20	13	7	48	57	10	* 1

\*1 Pin/O-Ring=1200A/B → P231

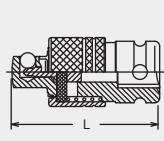
## 12760-55 · -75 Extension Bars Alargaderas



12760	D (mm)	L (mm)	(g)	(pcs.)	
55	13	55	26	10	* 1
75	13	75	45	10	* 1

\*1 Pin/O-Ring=1200A/B → P231

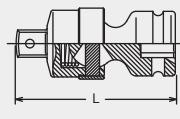
## 12222AL Adaptor (Quick Release) Adaptador (Extracción Rápida)



12222AL	L (mm)	(g)	(pcs.)	
35	30	10	1	

\*1 Pin/O-Ring=1200A/B → P231

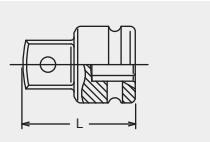
## 12770 Universal Joint Articulación Universal



12770	L (mm)	(g)	(pcs.)	
39	30	10	1	

\*1 Pin/O-Ring=1200A/B → P231

## 12233A Adaptor Adaptador



12233A	(sq.)	(sq.)	L (mm)	(g)	(pcs.)	
12233A-B	1/4"	3/8"	22	15	10	* 1
12233A-P	1/4"	3/8"	22	15	10	* 1

\*1 Pin/O-Ring=1200A/B → P231



# 3/8"

Impact Sockets

13400M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖ (g)	📦 (pcs.)	∅
6	10.8	19	5	32	40	10	* 1
7	12	19	5	32	40	10	* 1
8	13.3	19	6	32	40	10	* 1
9	14.5	19	7	32	40	10	* 1
10	15.8	19	7	32	40	10	* 1
11	17	19	8	32	41	10	* 1
12	18.3	19	9	32	43	10	* 1
13	19.5	22	10	32	56	10	* 2
14	20.8	22	10	32	56	10	* 2
15	22	22	11	32	56	10	* 2
16	23.3	22	11	32	57	10	* 2
17	24.5	22	12	32	60	10	* 2
18	25.8	22	12	32	62	10	* 2
19	27	22	12	32	67	10	* 2
20	28.3	22	12	32	70	10	* 2
21	29.5	22	12	32	71	10	* 2
22	30.8	22	13	32	72	10	* 2
23	32	22	13	32	75	10	* 2
24	33.3	22	13	32	78	10	* 2

13405M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖ (g)	📦 (pcs.)	∅
8	13.3	19	6	32	40	10	* 1
9	14.5	19	7	32	40	10	* 1
10	15.8	19	7	32	40	10	* 1
12	18.3	19	9	32	43	10	* 1
13	19.5	22	10	32	56	10	* 2
14	20.8	22	10	32	56	10	* 2
15	22	22	11	32	56	10	* 2
17	24.5	22	12	32	60	10	* 2
19	27	22	12	32	67	10	* 2

13405A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖ (g)	📦 (pcs.)	∅
1/4	10.8	19	5	32	40	10	* 1
5/16	13.3	19	6	32	40	10	* 1
3/8	15.8	19	7	32	40	10	* 1
7/16	17	19	8	32	41	10	* 1
1/2	19.5	22	10	32	56	10	* 2
9/16	20.8	22	10	32	56	10	* 2
5/8	23.3	22	11	32	57	10	* 2
11/16	24.5	22	12	32	60	10	* 2
3/4	27	22	12	32	67	10	* 2
13/16	29.5	22	12	32	71	10	* 2
7/8	30.8	22	13	32	72	10	* 2

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B → P230~231  
\*2 C-Ring=1302C, Pin/O-Ring=1302A/B

13401MS (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖ (g)	📦 (pcs.)	∅
New 8	12.3	18.5	6	22	25	10	* 1
New 10	14.8	18.5	6	22	25	10	* 1
New 12	17.3	18.5	10	22	20	10	* 1
New 13	18.5	21.5	10	22	30	10	* 2
New 14	19.8	21.5	10	22	30	10	* 2

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B → P230~231  
\*2 C-Ring=1302C, Pin/O-Ring=1302A/B

RS13401MS/5	5 Pieces Set/Rail 150mm	⚖ (g)
8, 10, 12, 13, 14	180	

## 13400M • 13400A

6-point Sockets  
Vasos Hexagonales

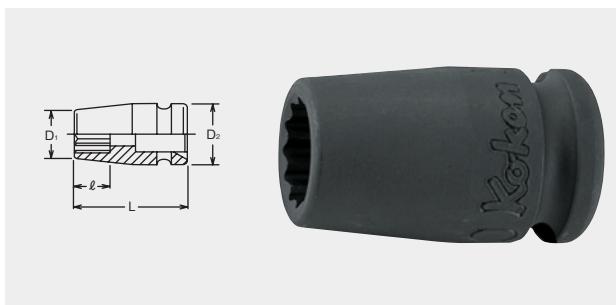


13400A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖ (g)	📦 (pcs.)	∅
1/4	10.8	19	5	32	40	10	* 1
5/16	13.3	19	6	32	40	10	* 1
3/8	15.8	19	7	32	40	10	* 1
7/16	17	19	8	32	41	10	* 1
1/2	19.5	22	10	32	56	10	* 2
9/16	20.8	22	10	32	56	10	* 2
5/8	23.3	22	11	32	57	10	* 2
11/16	24.5	22	12	32	60	10	* 2
3/4	27	22	12	32	67	10	* 2
13/16	29.5	22	12	32	71	10	* 2
7/8	30.8	22	13	32	72	10	* 2

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B → P230~231  
\*2 C-Ring=1302C, Pin/O-Ring=1302A/B

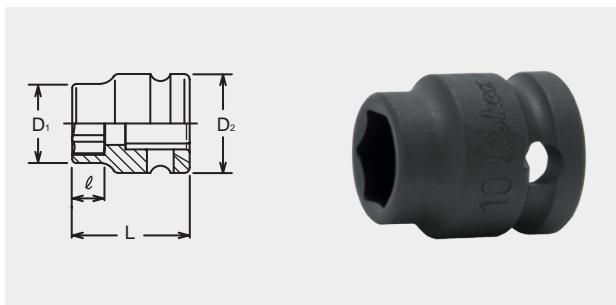
## 13405M • 13405A

12-point Sockets  
Vasos Bihexagonales



## 13401MS

6-point short sockets, Thin-walled.  
Vasos Hexagonales de Pared Delgada, Short



## RS13401MS/5



Socket Set on Rail  
Juego de Vasos en Regleta

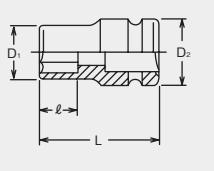


# Impact Sockets **3/8"**

## 13401M • 13401A



6-point Socket, Thin Walled  
Vasos Hexagonales de Pared Delgada



	INDUSTRIAL INDUSTRIALES						
	TITANIUM DE TITANIO	MULTIPLIER MULTIPLICADOR	ACCESSORIES ACCESORIOS				
13401A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	g (g)	(pcs.)	Ø (mm)
1/4	9.8	18.5	5	32	28	10	*1
5/16	12.3	18.5	6	32	31	10	*1
3/8	14.8	18.5	7	32	34	10	*1
7/16	16	18.5	8	32	35	10	*1
1/2	18.5	21.5	10	32	43	10	*2
9/16	19.8	21.5	10	32	49	10	*2
5/8	22.3	21.5	11	32	51	10	*2
11/16	23.5	21.5	12	32	54	10	*2
3/4	26	21.5	12	32	60	10	*2
13/16	28.5	21.5	12	32	70	10	*2
7/8	29.8	21.5	13	32	73	10	*2

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B → P230~231

\*2 C-Ring=1302C, Pin/O-Ring=1302A/B

	INDUSTRIAL INDUSTRIALES						
	TITANIUM DE TITANIO	MULTIPLIER MULTIPLICADOR	ACCESSORIES ACCESORIOS				
13401M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	g (g)	(pcs.)	Ø (mm)
6	9.8	18.5	5	32	28	10	*1
7	11	18.5	5	32	30	10	*1
8	12.3	18.5	6	32	31	10	*1
9	13.5	18.5	7	32	32	10	*1
10	14.8	18.5	7	32	34	10	*1
11	16	18.5	8	32	35	10	*1
12	17.3	18.5	9	32	36	10	*1
13	18.5	21.5	10	32	43	10	*2
14	19.8	21.5	10	32	49	10	*2
15	21	21.5	11	32	49	10	*2
16	22.3	21.5	11	32	51	10	*2
17	23.5	21.5	12	32	54	10	*2
18	24.8	21.5	12	32	57	10	*2
19	26	21.5	12	32	60	10	*2
20	27.3	21.5	12	32	65	10	*2
21	28.5	21.5	12	32	70	10	*2
22	29.8	21.5	13	32	73	10	*2
23	31	21.5	13	32	73	10	*2
24	32.3	21.5	13	32	75	10	*2

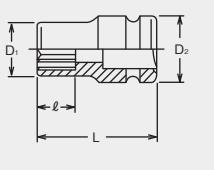
\*1 C-Ring=1301C, Pin/O-Ring=1301A/B → P230~231

\*2 C-Ring=1302C, Pin/O-Ring=1302A/B

## 13406M • 13406A



12-point Socket, Thin Walled  
Vasos Bihexagonales de Pared Delgada



	POWER MECÁNICOS						
	AUTOMOTIVE	IMPACTO DE IMPACTO	SCREWDRIVERS DESTORNILLADORES				
13406A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	g (g)	(pcs.)	Ø (mm)
1/4	9.8	18.5	5	32	28	10	*1
5/16	12.3	18.5	6	32	31	10	*1
3/8	14.8	18.5	7	32	34	10	*1
7/16	16	18.5	8	32	35	10	*1
1/2	18.5	21.5	10	32	43	10	*2
9/16	19.8	21.5	10	32	49	10	*2
5/8	22.3	21.5	11	32	51	10	*2
11/16	23.5	21.5	12	32	54	10	*2
3/4	26	21.5	12	32	60	10	*2
13/16	28.5	21.5	12	32	70	10	*2
7/8	29.8	21.5	13	32	73	10	*2

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B → P230~231

\*2 C-Ring=1302C, Pin/O-Ring=1302A/B

	POWER MECÁNICOS						
	AUTOMOTIVE	IMPACTO DE IMPACTO	SCREWDRIVERS DESTORNILLADORES				
13406M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	g (g)	(pcs.)	Ø (mm)
6	9.8	18.5	5	32	28	10	*1
7	11	18.5	5	32	30	10	*1
8	12.3	18.5	6	32	31	10	*1
9	13.5	18.5	7	32	32	10	*1
10	14.8	18.5	7	32	34	10	*1
11	16	18.5	8	32	35	10	*1
12	17.3	18.5	9	32	36	10	*1
13	18.5	21.5	10	32	43	10	*2
14	19.8	21.5	10	32	49	10	*2
15	21	21.5	11	32	49	10	*2
16	22.3	21.5	11	32	51	10	*2
17	23.5	21.5	12	32	54	10	*2
18	24.8	21.5	12	32	57	10	*2
19	26	21.5	12	32	60	10	*2
20	27.3	21.5	12	32	65	10	*2
21	28.5	21.5	12	32	70	10	*2
22	29.8	21.5	13	32	73	10	*2
23	31	21.5	13	32	73	10	*2
24	32.3	21.5	13	32	75	10	*2

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B → P230~231

\*2 C-Ring=1302C, Pin/O-Ring=1302A/B

## RS13401M/9



Socket Set on Rail  
Juego de Vasos en Regleta



RS13401M/9	9 Pieces Set/Rail 250mm	g (g)
8, 10, 12, 13, 14, 17, 19, 21, 22		505

# 3/8"

Impact Sockets

13400MG (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	❖ (pcs.)	∅
6	10.8	19	2.4	32	46	10	* 1
7	12	19	2.8	32	45	10	* 1
8	13.3	19	3.5	32	45	10	* 1
9	14.5	19	3.8	32	44	10	* 1
10	15.8	19	4.2	32	49	10	* 1
11	17	19	4.9	32	50	10	* 1
12	18.3	19	5.6	32	55	10	* 1
13	19.5	22	6	32	70	10	* 2
14	20.8	22	6.4	32	76	10	* 2
15	22	22	6.8	32	76	10	* 2
16	23.3	22	7	32	88	10	* 2
17	24.5	22	7.5	32	95	10	* 2
18	25.8	22	7.8	32	105	10	* 2
19	27	22	8	32	116	10	* 2
21	29.5	22	8	32	125	10	* 2
22	30.8	22	9.5	32	135	10	* 2

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B → P230~231

\*2 C-Ring=1302C, Pin/O-Ring=1302A/B

13410M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	❖ (pcs.)	∅
6	10.8	19	5	32	40	10	* 1
7	12	19	5	32	40	10	* 1
8	13.3	19	6	32	40	10	* 1
9	14.5	19	7	32	40	10	* 1
10	15.8	19	7	32	40	10	* 1
11	17	19	8	32	42	10	* 1
12	18.3	19	9	32	50	10	* 1
13	19.5	22	10	32	56	10	* 2
14	20.8	22	10	32	56	10	* 2
15	22	22	11	32	56	10	* 2
16	23.3	22	11	32	57	10	* 2
17	24.5	22	12	32	60	10	* 2
19	27	22	12	32	67	10	* 2
22	30.8	22	13	32	72	10	* 2

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B → P230~231

\*2 C-Ring=1302C, Pin/O-Ring=1302A/B

13465M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	❖ (pcs.)	∅
10	15.8	19	8	32	43	10	* 1
11	17	19	8	32	44	10	* 1
12	18.3	19	9	32	47	10	* 1
13	19.5	22	9	32	55	10	* 2
14	20.8	22	11	32	56	10	* 2
15	22	22	11	32	56	10	* 2
16	23.3	22	11	32	57	10	* 2
17	24.5	22	12	32	60	10	* 2
18	25.8	22	13	32	63	10	* 2
19	27	22	13	32	66	10	* 2

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B → P230~231

\*2 C-Ring=1302C, Pin/O-Ring=1302A/B

13425 (E)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	❖ (pcs.)	∅
E 4	9.7	19	4.6	32	44	10	* 1
E 5	10.2	19	5.2	32	43	10	* 1
E 6	10.7	19	5.4	32	44	10	* 1
E 7	11.2	19	6.6	32	44	10	* 1
E 8	11.7	19	7	32	44	10	* 1
E10	12.2	19	8.2	32	42	10	* 1
E12	14.2	19	9.3	32	43	10	* 1
E14	17.2	19	10.6	32	44	10	* 1
E16	18.2	19	11.8	32	42	10	* 1

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B → P230~231

\*2 C-Ring=1302C, Pin/O-Ring=1302A/B

13425-EPL (EPL)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	❖ (pcs.)	∅
8EPL	12	19	5.2	32	44	10	* 1
10EPL	13.3	19	6.2	32	44	10	* 1

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B → P230~231

## 13400MG • 13400AG

6-point Sockets with Magnet  
Vasos Hexagonales con Imán



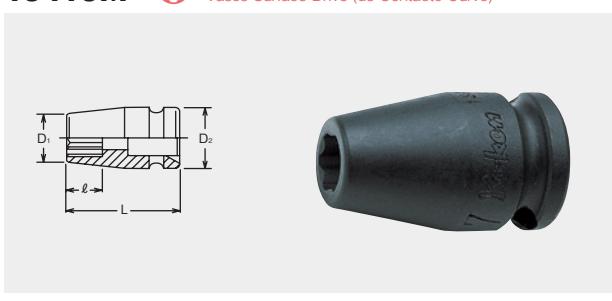
13400AG (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	❖ (pcs.)	∅
1/4	10.8	19	2.4	32	46	10	* 1
5/16	13.3	19	3.5	32	45	10	* 1
11/32	14.5	19	3.8	32	44	10	* 1
3/8	15.8	19	4.2	32	49	10	* 1
7/16	17	19	4.9	32	50	10	* 1
1/2	19.5	22	6	32	70	10	* 2
9/16	20.8	22	6.4	32	76	10	* 2
5/8	23.3	22	7	32	88	10	* 2
11/16	24.5	22	7.5	32	95	10	* 2
3/4	27	22	8	32	116	10	* 2

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B → P230~231

\*2 C-Ring=1302C, Pin/O-Ring=1302A/B

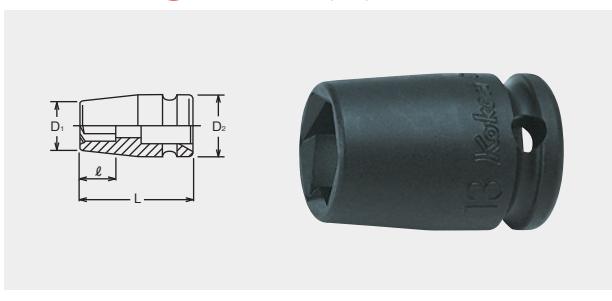
## 13410M

Surface Drive Sockets  
Vasos Surface Drive (de Contacto Curvo)



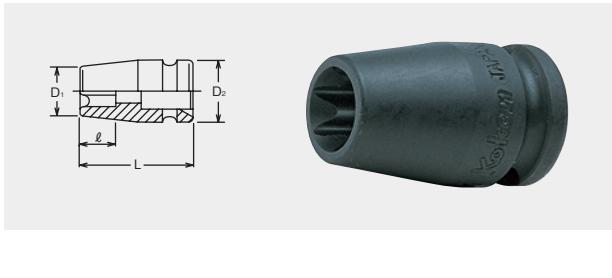
## 13465M

Pathfinder Sockets  
Vasos Pathfinder (Guía)



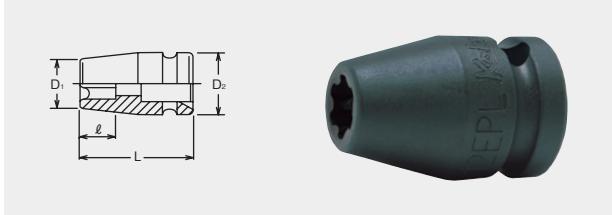
## 13425

TORX® Sockets  
Vasos TORX®



## 13425-EPL

TORX PLUS® Sockets  
Vasos TORX PLUS®



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# Impact Sockets **3/8"**

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM

DE TITANIO

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

RENEWAL KITS  
MIESES DE REPUESTO

## 13460M · 13460A



For Self-Tapping Screws  
Para Tornillos Autorroscantes



13460M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	⌚
6	11.4	19	5	32	43	10	* 1
7	12.8	19	5	32	44	10	* 1
8	14.1	19	6	32	44	10	* 1
10	16.6	19	7	32	45	10	* 1
13	20.3	22	10	32	60	10	* 2

13460A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	⌚
1/4	11.4	19	5	32	43	10	* 1
3/8	16.6	19	7	32	45	10	* 1
1/2	20.3	22	10	32	60	10	* 2

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B  
\*2 C-Ring=1302C, Pin/O-Ring=1302A/B → P230 ~ 231

## 13460MG · 13460AG

Sockets with magnets for Self-Tapping Screws  
Vasos con Imán para Tornillos Autorroscantes



13460MG (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	⌚
6	11.4	19	2.4	32	44	10	* 1
7	12.8	19	2.8	32	46	10	* 1
8	14.1	19	3.5	32	48	10	* 1
10	16.6	19	4.2	33	54	10	* 1
13	20.3	22	6	34	81	10	* 2

13460AG (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	⌚
1/4	11.4	19	2.4	32	44	10	* 1
5/16	14.1	19	3.5	32	48	10	* 1
3/8	16.6	19	4.2	33	54	10	* 1
1/2	20.3	22	6	34	81	10	* 2

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B  
\*2 C-Ring=1302C, Pin/O-Ring=1302A/B → P230 ~ 231

## 13401LH



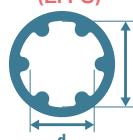
LHS Sockets  
Vasos LHS



13401LH (LH-S)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	⌚
5S	11	19	5	32	32	10	* 1
6S	12.3	19	5.6	32	34	10	* 1
8S	16	19	6.8	32	36	10	* 1
10S	18.5	22	8	32	50	10	* 2
12S	22.3	22	9.2	32	58	10	* 2
14S	24.8	22	10.4	32	63	10	* 2
16S	28.5	22	11.6	32	77	10	* 2

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B  
\*2 C-Ring=1302C, Pin/O-Ring=1302A/B → P230 ~ 231

LHSTIX®  
(LH-S)



LH-S	LH-5S	LH-6S	LH-8S	LH-10S	LH-12S	LH-14S	LH-16S
D (ref. mm)	7.5	9.0	12.0	15.0	18.0	21.0	24.0
d (ref. mm)	5.60	6.78	9.04	11.30	13.56	15.82	18.08

## 13400-WN



Weld Nut Sockets



13400-WN	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	⌚
8WN	18.3	19	8	32	48	10	* 1
9WN	19.5	22	9	32	47	10	* 2
10WN	20.8	22	10	32	65	10	* 2
12WN	24.5	22	12	32	73	10	* 2
14WN	27	22	14	32	79	10	* 2
17WN	32	22	17	35	110	10	* 2

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B  
\*2 C-Ring=1302C, Pin/O-Ring=1302A/B → P230 ~ 231

# 3/8"

Impact Sockets

13301X (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖ (g)	📦 (pcs.)	∅
8	12.3	18.5	8	50	40	10	* 1
10	14.8	18.5	10	50	46	10	* 1
11	16	18.5	11	50	49	10	* 1
12	17.3	18.5	12	50	53	10	* 1
13	18.5	21.5	13	50	67	10	* 2
14	19.8	21.5	14	50	70	10	* 2
15	21	21.5	15	50	75	10	* 2
16	22.3	21.5	16	50	78	10	* 2
17	23.5	21.5	17	50	82	10	* 2
19	26	21.5	19	50	93	10	* 2
21	28.5	21.5	21	50	104	10	* 2
22	29.8	21.5	22	50	110	10	* 2
23	31	21.5	23	50	115	10	* 2
24	32.3	21.5	24	50	120	10	* 2

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B → P230~231

\*2 C-Ring=1302C, Pin/O-Ring=1302A/B

RS13301X/9	9 Pieces Set/Rail 250mm	⚖ (g)
8, 10, 12, 13, 14, 17, 19, 21, 22	710	

13300XG (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖ (g)	📦 (pcs.)	∅
8	13.3	19	4	50	40	10	* 1
10	15.8	19	4.5	50	46	10	* 1
12	18.3	19	6	50	55	10	* 1
13	19.5	22	6.5	50	70	10	* 2
14	20.8	22	7	50	75	10	* 2

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B → P230~231

\*2 C-Ring=1302C, Pin/O-Ring=1302A/B

13300M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖ (g)	📦 (pcs.)	∅
6	10.8	19	6	80	77	10	* 1
7	12	19	7	80	82	10	* 1
8	13.3	19	8	80	82	10	* 1
9	14.5	19	9	80	88	10	* 1
10	15.8	19	10	80	94	10	* 1
11	17	19	11	80	110	10	* 1
12	18.3	19	12	80	111	10	* 1
13	19.5	22	13	80	138	10	* 2
14	20.8	22	14	80	148	10	* 2
15	22	22	15	80	157	10	* 2
16	23.3	22	16	80	156	10	* 2
17	24.5	22	17	80	168	10	* 2
18	25.8	22	18	80	190	10	* 2
19	27	22	19	80	192	10	* 2
20	28.3	22	20	80	224	10	* 2
21	29.5	22	21	80	226	10	* 2
22	30.8	22	22	80	231	10	* 2

13300A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖ (g)	📦 (pcs.)	∅
1/4	10.8	19	6	80	77	10	* 1
5/16	13.3	19	8	80	82	10	* 1
3/8	15.8	19	10	80	94	10	* 1
7/16	17	19	11	80	110	10	* 1
1/2	19.5	22	13	80	138	10	* 2
9/16	20.8	22	14	80	148	10	* 2
5/8	23.3	22	16	80	156	10	* 2
11/16	24.5	22	17	80	168	10	* 2
3/4	27	22	19	80	192	10	* 2
13/16	29.5	22	21	80	226	10	* 2
7/8	30.8	22	22	80	231	10	* 2

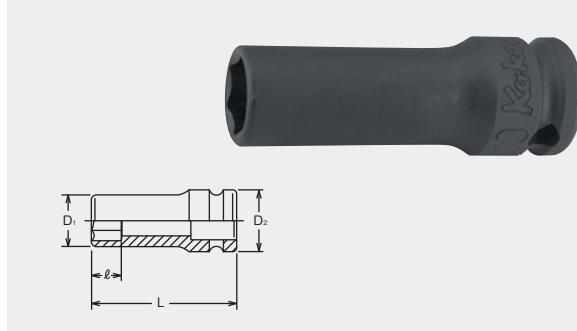
\*1 C-Ring=1301C, Pin/O-Ring=1301A/B → P230~231

\*2 C-Ring=1302C, Pin/O-Ring=1302A/B

## 13301X



6-point Sockets, Semi-deep  
Vasos Hexagonales Medianos de Pared Delgada



## RS13301X/9



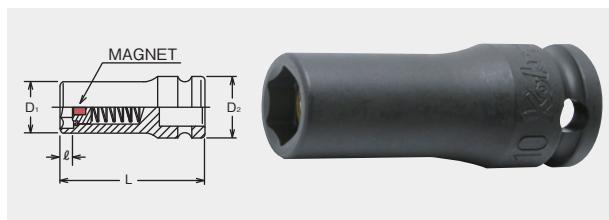
Socket Set on Rail  
Juego de Vasos en Regleta



## 13300XG



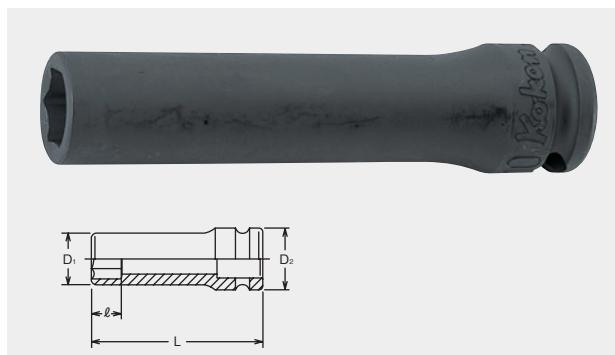
Impact Sockets with Sliding Magnet  
Vasos de Impacto con Imán Corredizo



## 13300M • 13300A



6-point Sockets, deep  
Vasos Hexagonales Largos



\*1 C-Ring=1301C, Pin/O-Ring=1301A/B → P230~231

\*2 C-Ring=1302C, Pin/O-Ring=1302A/B

HAND  
MANUALES

Z-SERIES  
INDUSTRIALES

TITANIUM  
DE TITANIO

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

# Impact Sockets **3/8"**

HAND  
MANUALES

Z-SERIES  
INDUSTRIALES

TITANIUM

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

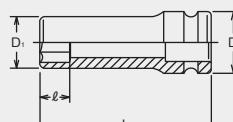
CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
MÉJICOS DE REPUESTO

**13301M · 13301A**



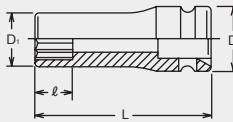
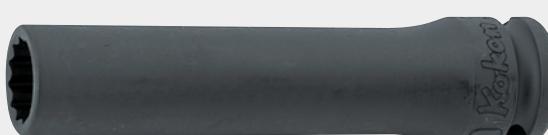
6-point Deep Sockets, Thin Walled  
Vasos Hexagonales Largos de Pared Delgada



**13305M**



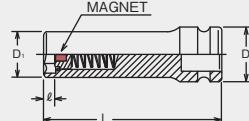
12-point Sockets, deep  
Vasos Bihexagonales Largos



**13300G**



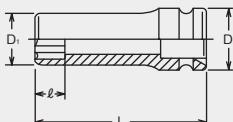
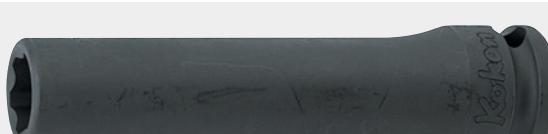
Impact Sockets with Sliding Magnet  
Vasos de Impacto con Imán Corredizo



**13310M**



Surface Drive Sockets, deep  
Vasos Surface Drive (de Contacto Curvo) Largos



13301M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	秤 (g)	(pcs.)	Ø
<b>6</b>	10	18.5	6	80	65	10	* 1
<b>7</b>	11	18.5	7	80	66	10	* 1
<b>8</b>	12.3	18.5	8	80	68	10	* 1
<b>9</b>	13.5	18.5	9	80	70	10	* 1
<b>10</b>	14.8	18.5	10	80	72	10	* 1
<b>11</b>	16	18.5	11	80	80	10	* 1
<b>12</b>	17.3	18.5	12	80	85	10	* 1
<b>13</b>	18.5	21.5	13	80	100	10	* 2
<b>14</b>	19.8	21.5	14	80	110	10	* 2
<b>15</b>	21	21.5	15	80	120	10	* 2
<b>16</b>	22.3	21.5	16	80	130	10	* 2
<b>17</b>	23.5	21.5	17	80	136	10	* 2
<b>18</b>	24.8	21.5	18	80	145	10	* 2
<b>19</b>	26	21.5	19	80	155	10	* 2
<b>20</b>	27.3	21.5	20	80	170	10	* 2
<b>21</b>	28.5	21.5	21	80	181	10	* 2
<b>22</b>	29.8	21.5	22	80	190	10	* 2

13301A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	秤 (g)	(pcs.)	Ø
<b>1/4</b>	10	18.5	6	80	65	10	* 1
<b>5/16</b>	12.3	18.5	8	80	68	10	* 1
<b>3/8</b>	14.8	18.5	10	80	72	10	* 1
<b>7/16</b>	16	18.5	11	80	80	10	* 1
<b>1/2</b>	18.5	21.5	13	80	100	10	* 2
<b>9/16</b>	19.8	21.5	14	80	110	10	* 2
<b>5/8</b>	22.3	21.5	16	80	130	10	* 2
<b>11/16</b>	23.5	21.5	17	80	136	10	* 2
<b>3/4</b>	26	21.5	19	80	155	10	* 2
<b>13/16</b>	28.5	21.5	21	80	181	10	* 2
<b>7/8</b>	29.8	21.5	22	80	190	10	* 2

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B  
\*2 C-Ring=1302C, Pin/O-Ring=1302A/B → P230~231

13305M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	秤 (g)	(pcs.)	Ø
<b>8</b>	13.3	19	8	80	82	10	* 1
<b>10</b>	15.8	19	10	80	94	10	* 1
<b>12</b>	18.3	19	12	80	111	10	* 1
<b>13</b>	19.5	22	13	80	138	10	* 2
<b>14</b>	20.8	22	14	80	148	10	* 2

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B  
\*2 C-Ring=1302C, Pin/O-Ring=1302A/B → P230~231

13300G (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	秤 (g)	(pcs.)	Ø
<b>8</b>	13.3	19	4	80	82	10	* 1
<b>10</b>	15.8	19	4.5	80	105	10	* 1
<b>12</b>	18.3	19	6	80	136	10	* 1
<b>13</b>	19.5	22	6.5	80	165	10	* 2
<b>14</b>	20.8	22	7	80	186	10	* 2
<b>15</b>	22	22	7	80	195	10	* 2
<b>17</b>	24.5	22	8	80	220	10	* 2
<b>19</b>	27	22	9	80	230	10	* 2

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B  
\*2 C-Ring=1302C, Pin/O-Ring=1302A/B → P230~231

13310M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	秤 (g)	(pcs.)	Ø
<b>8</b>	13.3	19	8	80	90	10	* 1
<b>9</b>	14.5	19	9	80	90	10	* 1
<b>10</b>	15.8	19	10	80	97	10	* 1
<b>11</b>	17	19	11	80	110	10	* 1
<b>12</b>	18.3	19	12	80	105	10	* 1
<b>13</b>	19.5	22	13	80	135	10	* 2
<b>14</b>	20.8	22	14	80	145	10	* 2
<b>15</b>	22	22	15	80	160	10	* 2
<b>16</b>	23.3	22	16	80	156	10	* 2
<b>17</b>	24.5	22	17	80	168	10	* 2
<b>19</b>	27	22	19	80	190	10	* 2

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B  
\*2 C-Ring=1302C, Pin/O-Ring=1302A/B → P230~231

# 3/8" Impact Sockets

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

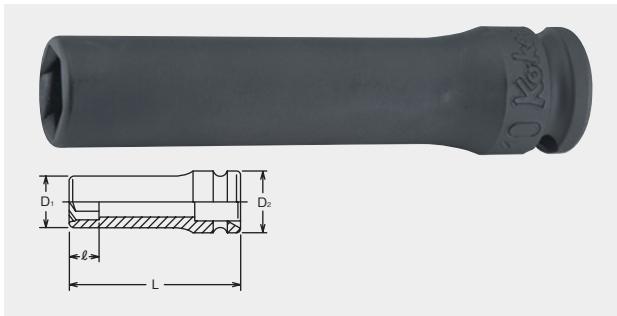
13365M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	∅
10	15.8	19	8	80	99	10	* 1
11	17	19	8	80	108	10	* 1
12	18.3	19	9	80	110	10	* 1
13	19.5	22	9	80	142	10	* 2
14	20.8	22	11	80	144	10	* 2
15	22	22	11	80	150	10	* 2
16	23.3	22	11	80	159	10	* 2
17	24.5	22	12	80	170	10	* 2
18	25.8	22	13	80	201	10	* 2
19	27	22	13	80	203	10	* 2

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B → P230~231  
\*2 C-Ring=1302C, Pin/O-Ring=1302A/B

## 13365M



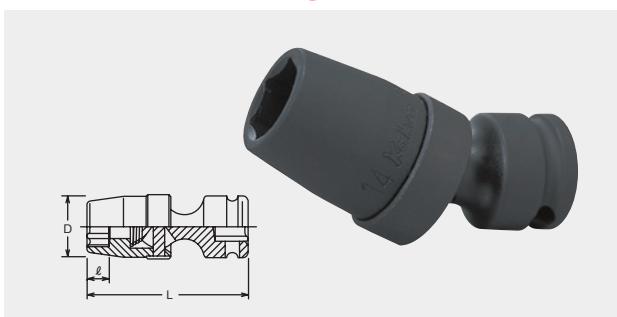
Pathfinder Sockets deep  
Vasos Pathfinder (Guia) Largos



## 13440M • 13440A



Universal Sockets  
Vasos con Articulación Universal



13440M (mm)	D (mm)	ℓ (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	∅
10	15.8	5	57	115	10	* 1
11	17	6	57	115	10	* 1
12	18.3	6	57	115	10	* 1
13	19.5	6	57	115	10	* 1
14	20.8	7	59	120	10	* 1
15	22	7	59	120	10	* 1
16	23.3	8	59	120	10	* 1
17	24.5	8	59	120	10	* 1
18	25.8	9	61	126	10	* 1
19	27	10	61	130	10	* 1
20	29.5	10	61	135	10	* 1
22	32	13	61	185	10	* 1
24	34.5	13	63	190	10	* 1

13440A (inch)	D (mm)	ℓ (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	∅
3/8	15.8	5	57	115	10	* 1
7/16	17	6	57	115	10	* 1
1/2	19.5	6	57	115	10	* 1
9/16	20.8	7	59	120	10	* 1
5/8	23.3	8	59	120	10	* 1
11/16	24.5	8	59	120	10	* 1
3/4	27	10	61	130	10	* 1

\*1 C-Ring=1302C, Pin/O-Ring=1302A/B → P230~231

13440T (E)	D (mm)	ℓ (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	∅
E10	13.3	8.2	58	115	10	* 1
E12	15.8	9.3	58	115	10	* 1
E14	17	10.6	58	115	10	* 1

\*1 C-Ring=1302C, Pin/O-Ring=1302A/B → P230~231

## 13440T



TORX® Universal Sockets  
Vasos TORX® con Articulación Universal



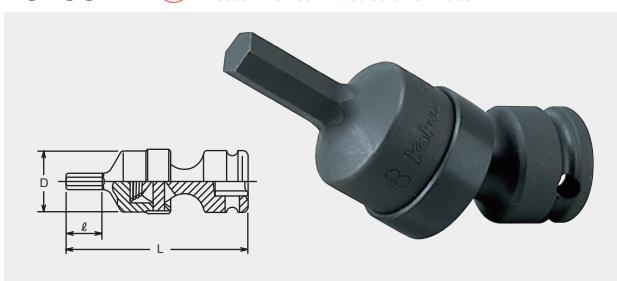
13430M (mm)	D (mm)	ℓ (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	∅
5	24	15	74	120	10	* 1
6	24	15	74	131	10	* 1
8	24	20	74	136	10	* 1
10	24	20	74	141	10	* 1
17	24	7	53	150	10	* 1

\*1 C-Ring=1302C, Pin/O-Ring=1302A/B → P230~231

## 13430M



Universal Inhex Sockets  
Vasos Inhex con Articulación Universal



# Impact Sockets **3/8"**

HAND  
MANUALES

Z-SERIES  
INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO  
MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

POWER  
MECÁNICOS

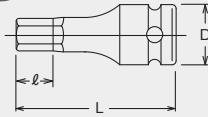
AUTOMOTIVE

RENEWAL KITS  
MÉJICOS DE REPUESTO

## 13012M-52



Inhex Sockets  
Vasos con Punta Hexagonal



13012M.52 (mm)	D (mm)	$\ell$ (mm)	L (mm)	$\frac{\text{kg}}{\text{m}}$ (g)	$\frac{\text{m}}{\text{m}}$ (pcs.)	$\frac{\text{m}}{\text{m}}$
4	18	15.5	52	35	10	* 1
5	18	15.5	52	35	10	* 1
6	18	15.5	52	39	10	* 1
8	21	15.5	52	60	10	* 2
10	21	15.5	52	70	10	* 2
12	21	15.5	52	79	10	* 2

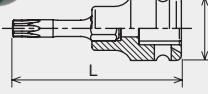
\*1 C-Ring=1301C, Pin/O-Ring=1301A/B → P230~231

\*2 C-Ring=1302C, Pin/O-Ring=1302A/B

## 13025-50



TORX® Bit Sockets  
Vasos con Punta TORX®



13025.50 (T)	D (mm)	L (mm)	$\frac{\text{kg}}{\text{m}}$ (g)	$\frac{\text{m}}{\text{m}}$ (pcs.)	$\frac{\text{m}}{\text{m}}$
New T20	19	50	35	10	* 1
New T25	19	50	35	10	* 1
New T27	19	50	38	10	* 1
New T30	19	50	38	10	* 1
New T40	19	50	45	10	* 1
New T45	19	50	45	10	* 1
New T50	19	50	50	10	* 1
New T55	22	50	72	10	* 2

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B → P230~231

\*2 C-Ring=1302C, Pin/O-Ring=1302A/B

## RS13025/8-L50



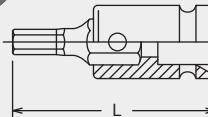
Socket Set on Rail  
Juego de Vasos en Regleta



## 13105-11



Hex Bit Sockets  
Vasos con Punta Hexagonal



RS13025/8-L50	8 Pieces Set/Rail 200mm	$\frac{\text{kg}}{\text{m}}$ (g)
New T20, T25, T27, T30, T40, T45, T50, T55	380	

13105.11 (mm)	L (mm)	$\frac{\text{kg}}{\text{m}}$ (g)	$\frac{\text{m}}{\text{m}}$ (pcs.)	$\frac{\text{m}}{\text{m}}$
3	54	87	10	* 1
4	54	87	10	* 1
5	54	88	10	* 1
6	54	89	10	* 1
7	54	90	10	* 1
8	54	92	10	* 1
10	54	96	10	* 1
12	54	101	10	* 1
14	54	108	10	* 1
17	54	120	10	* 1
19	54	128	10	* 1

13105.11 (inch)	L (mm)	$\frac{\text{kg}}{\text{m}}$ (g)	$\frac{\text{m}}{\text{m}}$ (pcs.)	$\frac{\text{m}}{\text{m}}$
1/4	54	89	10	* 1
5/16	54	92	10	* 1
3/8	54	96	10	* 1
1/2	54	108	10	* 1
3/4	54	128	10	* 1

\*1 C-Ring=1302C, Pin/O-Ring=1302A/B → P230~231

13105.11 (T)	L (mm)	$\frac{\text{kg}}{\text{m}}$ (g)	$\frac{\text{m}}{\text{m}}$ (pcs.)	$\frac{\text{m}}{\text{m}}$
T30	54	87	10	* 1
T40	54	87	10	* 1
T45	54	87	10	* 1
T50	54	92	10	* 1
T55	54	96	10	* 1
T60	54	101	10	* 1

\*1 C-Ring=1302C, Pin/O-Ring=1302A/B → P230~231

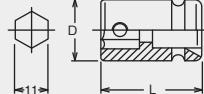
13105	D (mm)	L (mm)	$\frac{\text{kg}}{\text{m}}$ (g)	$\frac{\text{m}}{\text{m}}$ (pcs.)	$\frac{\text{m}}{\text{m}}$
13105	22	32	70	10	* 1

\*1 C-Ring=1302C, Pin/O-Ring=1302A/B → P230~231

## 13105



Bit Holder, For 107-11  
Porta Punta



# 3/8"

Impact Sockets

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

107.11 (mm)	L (mm)		(g)		(pcs.)
3	35	15		10	
4	35	16		10	
5	35	16		10	
6	35	18		10	
7	35	19		10	
8	35	20		10	
10	35	26		10	
11	35	28		10	
12	35	31		10	
14	35	38		10	
16	35	47		10	
17	35	50		10	
18	35	53		10	
19	35	56		10	

107.11(L80) (mm)	L (mm)		(g)		(pcs.)
4	80	54		10	
5	80	54		10	
6	80	56		10	
7	80	57		10	
8	80	59		10	
10	80	64		10	
11	80	66		10	
12	80	76		10	
14	80	98		10	

107.11 (T)	L (mm)		(g)		(pcs.)
T30	35	18		10	
T40	35	20		10	
T45	35	22		10	
T50	35	26		10	
T55	35	31		10	
T60	35	38		10	

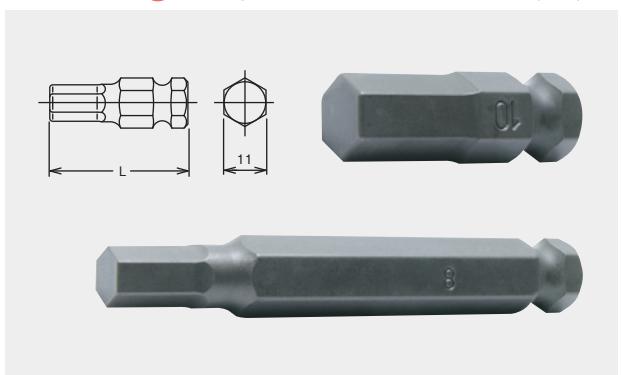
107.11(L80) (T)	L (mm)		(g)		(pcs.)
New T30	80	54		10	
New T40	80	54		10	
New T45	80	56		10	
New T50	80	57		10	
New T55	80	66		10	
New T60	80	76		10	

107.11 (XZN)	L (mm)		(g)		(pcs.)
M 4	35	18		10	
M 5	35	20		10	
M 6	35	22		10	
M 8	35	26		10	
M10	35	31		10	
M12	35	38		10	

107.11(L80) (XZN)	L (mm)		(g)		(pcs.)
New M 4	80	54		10	
New M 5	80	54		10	
New M 6	80	56		10	
New M 8	80	57		10	
New M10	80	66		10	
New M12	80	76		10	
New M14	80	80		10	

## 107-11

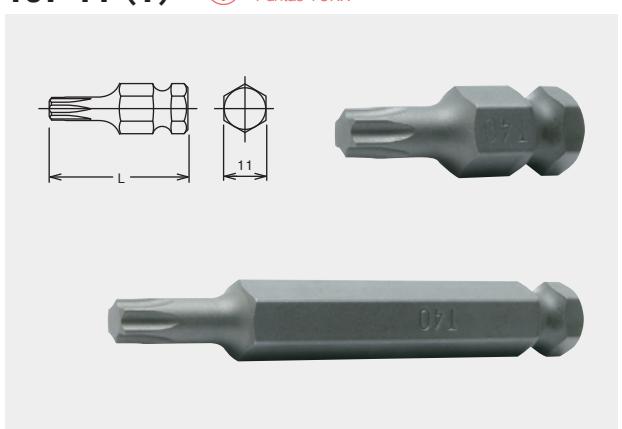
Bits for Inhex Screws  
Puntas para Tornillos de Seis Lados en el Interior (Inhex)



107.11 (inch)	L (mm)		(g)		(pcs.)
3/16	35	15		10	
7/32	35	16		10	
1/4	35	18		10	
5/16	35	20		10	
3/8	35	26		10	
7/16	35	28		10	
1/2	35	38		10	
5/8	35	47		10	
3/4	35	56		10	

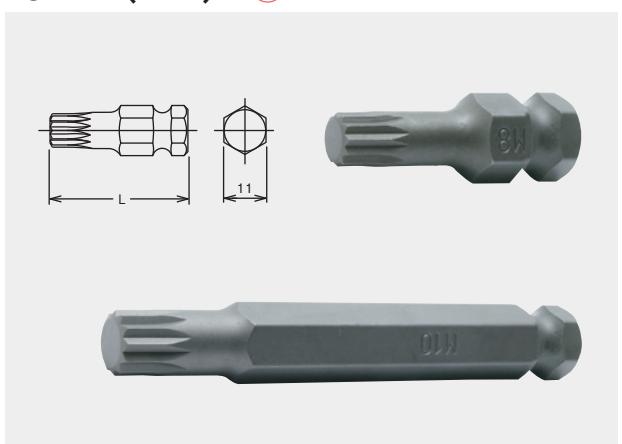
## 107-11 (T)

TORX® Bits  
Puntas TORX®



## 107-11 (XZN)

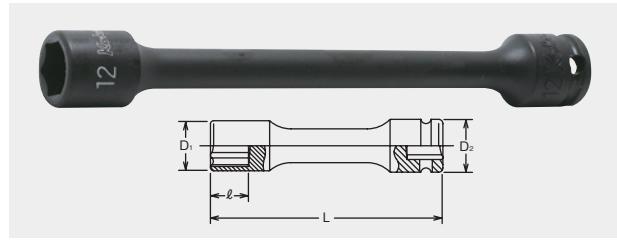
XZN Bits  
Puntas XZN



# Impact Sockets **3/8"**

## 13145M-100 · -150 · -200 · -250

 Extra Long Sockets  
Vasos Extra-Largos



13145M.100		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	秤 (g)	壶 (pce.)	€
New	8	13.3	19	8	100	90	1	* 1
New	10	15.8	19	10	100	92	1	* 1
New	12	18.3	19	12	100	100	1	* 1
New	14	20.8	19	14	100	112	1	* 1
New	17	24.5	19	17	100	140	1	* 1

13145M.150 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	秤 (g)	壶 (pce.)	€
6	10.8	19	6	150	105	1	* 1
8	13.3	19	8	150	110	1	* 1
10	15.8	19	10	150	120	1	* 1
12	18.3	19	12	150	128	1	* 1
13	19.5	19	13	150	137	1	* 1
14	20.8	19	14	150	146	1	* 1
15	22	19	15	150	155	1	* 1
17	24.5	19	17	150	163	1	* 1

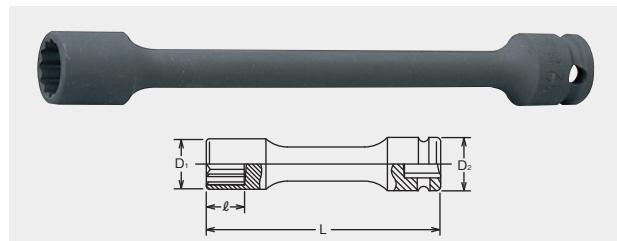
13145M.200 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	秤 (g)	壶 (pce.)	€
6	10.8	19	6	200	136	1	* 1
8	13.3	19	8	200	141	1	* 1
10	15.8	19	10	200	151	1	* 1
12	18.3	19	12	200	159	1	* 1
13	19.5	19	13	200	168	1	* 1
14	20.8	19	14	200	177	1	* 1
15	22	19	15	200	186	1	* 1
17	24.5	19	17	200	194	1	* 1

13145M.250 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	秤 (g)	壶 (pce.)	€
6	10.8	19	6	250	167	1	* 1
8	13.3	19	8	250	172	1	* 1
10	15.8	19	10	250	182	1	* 1
12	18.3	19	12	250	190	1	* 1
13	19.5	19	13	250	199	1	* 1
14	20.8	19	14	250	208	1	* 1
15	22	19	15	250	217	1	* 1
17	24.5	19	17	250	225	1	* 1

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B → P230~231

## 13145M-100 (12P) · -150 (12P) · -200 (12P)

 Extra Long 12-Point Sockets  
Vasos Bihexagonales, Extra-Largos



13145M.100 (12P) (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	秤 (g)	壶 (pce.)	€	
New	10	15.8	19	10	100	91	1	* 1
New	12	18.3	19	12	100	100	1	* 1

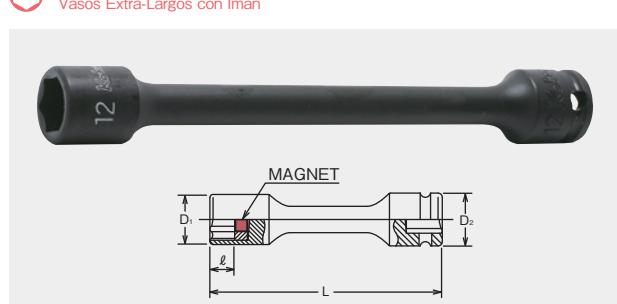
13145M.150 (12P) (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	秤 (g)	壶 (pce.)	€
10	15.8	19	10	150	120	1	* 1
12	18.3	19	12	150	128	1	* 1

13145M.200 (12P) (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	秤 (g)	壶 (pce.)	€
10	15.8	19	10	200	151	1	* 1
12	18.3	19	12	200	159	1	* 1

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B → P230~231

## 13145MG-100 · -150 · -200

 Extra Long Sockets with Magnet  
Vasos Extra-Largos con Imán



13145MG.100 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	秤 (g)	壶 (pce.)	€	
8	13.3	19	3.5	100	90	1	* 1	
10	15.8	19	4.2	100	93	1	* 1	
12	18.3	19	5.6	100	105	1	* 1	
New	13	19.5	19	6	100	115	1	* 1
New	14	20.8	19	6.4	100	120	1	* 1

13145MG.150 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	秤 (g)	壶 (pce.)	€	
10	15.8	19	4.2	150	125	1	* 1	
12	18.3	19	5.6	150	136	1	* 1	
13	19.5	19	6	150	145	1	* 1	
New	14	20.8	19	6.4	150	150	1	* 1

13145MG.200 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	秤 (g)	壶 (pce.)	€	
10	15.8	19	4.2	200	182	1	* 1	
12	18.3	19	5.6	200	190	1	* 1	
13	19.5	19	6	200	208	1	* 1	
New	14	20.8	19	6.4	200	225	1	* 1

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B → P230~231

# 3/8"

Impact Sockets

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN  
JUEGOS DE PIEZAS DE REPUESTO

13146M.150 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	⚠️ (pce.)	∅
8	12	19	6	150	128	1	* 1
10	14.3	19	7	150	131	1	* 1
12	18	19	8	150	133	1	* 1
13	19.3	19	8.5	150	132	1	* 1
14	20	19	9	150	132	1	* 1

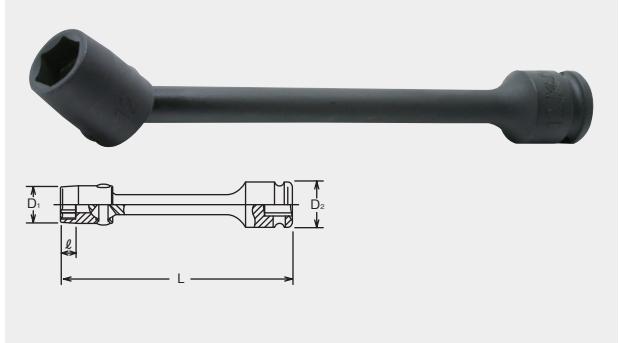
13146M.200 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	⚠️ (pce.)	∅
8	12	19	6	200	159	1	* 1
10	14.3	19	7	200	162	1	* 1
12	18	19	8	200	164	1	* 1
13	19.3	19	8.5	200	163	1	* 1
14	20	19	9	200	163	1	* 1

13146M.250 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	⚠️ (pce.)	∅
8	12	19	6	250	190	1	* 1
10	14.3	19	7	250	193	1	* 1
12	18	19	8	250	195	1	* 1
13	19.3	19	8.5	250	194	1	* 1
14	20	19	9	250	194	1	* 1

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B ➔ P230~231

## 13146M-150 · -200 · -250

Extra Long Universal Sockets  
Vasos Extra Largo con Articulación Universal



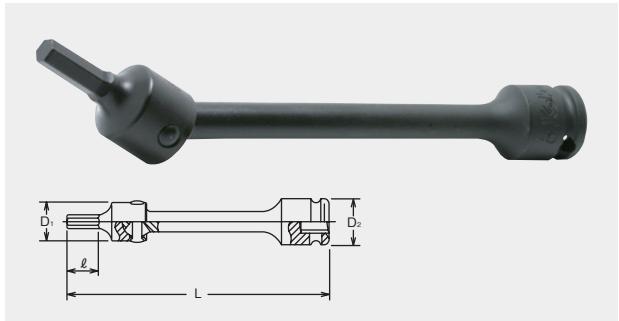
13147M.150 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	⚠️ (pce.)	∅
4	21	19	15	150	125	1	* 1
5	21	19	15	150	128	1	* 1
6	21	19	15	150	132	1	* 1
8	21	19	15	150	136	1	* 1
10	21	19	15	150	140	1	* 1

13147M.200 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	⚠️ (pce.)	∅
4	21	19	15	200	156	1	* 1
5	21	19	15	200	159	1	* 1
6	21	19	15	200	163	1	* 1
8	21	19	15	200	167	1	* 1
10	21	19	15	200	171	1	* 1

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B ➔ P230~231

## 13147M-150 · -200

Extra Long Universal Inhex Sockets  
Vasos Inhex Extra Largos con Articulación Universal

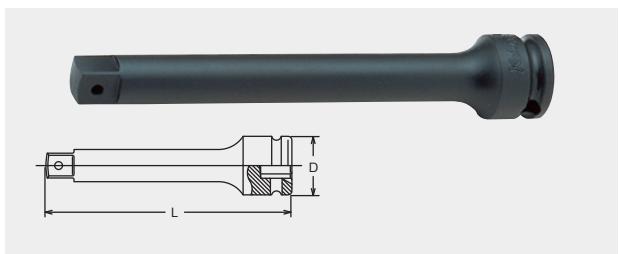


13760	D (mm)	L (mm)	⚖️ (g)	⚠️ (pce.)	∅	
New New	75	22	75	95	10	* 1
100	22	100	120	10	10	* 1
125	22	125	141	10	10	* 1
150	22	150	165	10	10	* 1
200	22	200	210	10	10	* 1
250	22	250	210	10	10	* 1

\*1 C-Ring=1302C, Pin/O-Ring=1302A/B ➔ P230~231

## 13760-75 · -100 · -125 · -150 · -200 · -250

Extension Bars  
Alargaderas



# Impact Sockets **3/8"**

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM

DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
MÉJICOS DE REPUESTO

## 13333AL

Adaptor (Quick Release)  
Adaptador (Extracción Rápida)



## 13770

Universal Joint  
Articulación Universal



## 13771

Universal Joint  
Articulación Universal



## 13322A

Adaptor  
Adaptador



## 13344A

Adaptor  
Adaptador



## 13241M

Socket Set  
Juego de Vasos

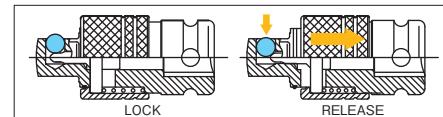


## 13242M

Socket Set  
Juego de Vasos

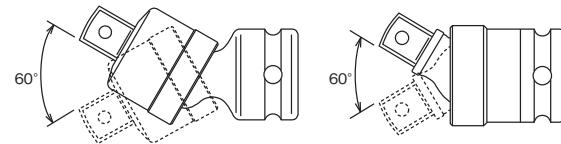


### Lock & Quick Release



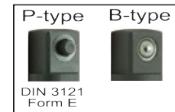
13333AL	L (mm)	(g)	(pcs.)	Ø
	45	62	10	* 1

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B → P230~231



13770	L (mm)	(g)	(pcs.)	Ø
13770-B	56	110	10	* 1
13770-P	56	110	10	* 1
13771	48	92	10	* 1
13771-B	48	92	10	* 1
13771-P	48	92	10	* 1

\*1 C-Ring=1302C, Pin/O-Ring=1302A/B → P230~231



13322A	□ (sq.)	□ (sq.)	L (mm)	(g)	(pcs.)	Ø
13322A-B	3/8"	1/4"	25	25	10	* 1
13322A-P	3/8"	1/4"	25	25	10	* 1

\*1 C-Ring=1301CC, Pin/O-Ring=1301A/B → P230~231

Adapting down from bigger square drive to smaller square drive may lead to excessive torque load and possibly cause breakage. Always stay within safe torque of the smaller square drive.

13344A	□ (sq.)	□ (sq.)	L (mm)	(g)	(pcs.)	Ø
13344A-B	3/8"	1/2"	32.5	53	10	* 1
13344A-P	3/8"	1/2"	32.5	53	10	* 1

\*1 C-Ring=1302C, Pin/O-Ring=1302A/B → P230~231

## 13241M

11 Pieces Set/ $\Delta$ =850g

METAL CASE:W240×H30×T35mm

Sockets

13400M 6-pt. Sockets

9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19

## 13242M

11 Pieces Set/ $\Delta$ =1,140g

METAL CASE:W310×H90×T48mm

Sockets

13400M 6-pt. Sockets

9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19

# 1/2"

## Impact Sockets

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

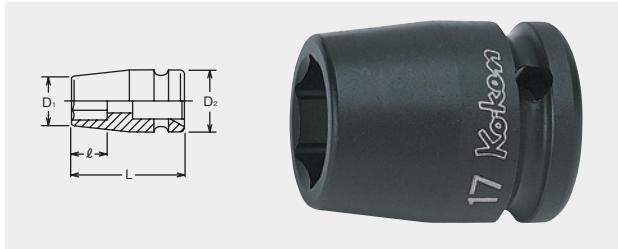
14400M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖ (g)	📦 (pcs.)	⌚
8	14.5	25	6	38	85	10	*1
9	15.7	25	7	38	85	10	*1
10	17	25	7	38	85	10	*1
11	18.2	25	8	38	85	10	*1
12	19.5	25	9	38	85	10	*1
13	20.7	25	10	38	85	10	*1
14	22	25	10	38	85	10	*1
15	23.2	30	11	38	130	10	*2
16	24.5	30	11	38	130	10	*2
17	25.7	30	12	38	130	10	*2
18	27	30	13	38	130	10	*2
19	28.2	30	13	38	125	10	*2
20	29.5	30	13	38	127	10	*2
21	30.7	30	14	38	120	10	*2
22	32	30	14	38	130	10	*2
23	33.2	30	14	38	130	10	*2
24	34.5	30	14	38	135	10	*2
25	35.7	30	14	38	135	10	*2
26	37	30	14	38	160	10	*2
27	38.2	30	16	40	160	10	*2
28	39.5	30	16	40	170	10	*2
29	40.7	30	17	42	190	10	*2
30	42	30	17	42	190	10	*2
31	43.2	30	17	42	213	10	*2
32	44.5	30	18	42	216	10	*2
33	45.7	30	19	46	260	5	*2
34	47	30	19	46	263	5	*2
35	48.2	30	19	46	275	5	*2
36	49.5	30	20	46	285	5	*2
41	55.7	30	21	55	411	2	*2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B → P230~231

\*2 C-Ring=1402C, Pin/O-Ring=1402A/B

## 14400M • 14400A

6-point Sockets  
Vasos Hexagonales



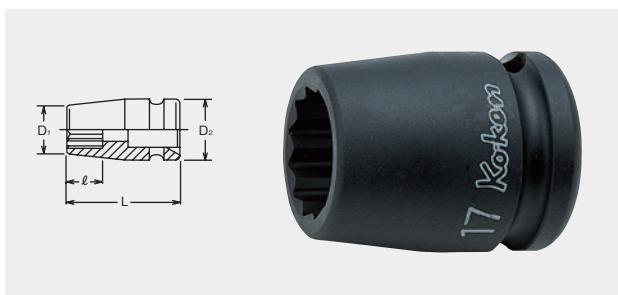
14400A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖ (g)	📦 (pcs.)	⌚
5/16	14.5	25	6	38	85	10	*1
3/8	17	25	7	38	85	10	*1
7/16	18.2	25	8	38	85	10	*1
1/2	20.7	25	10	38	85	10	*1
9/16	22	25	10	38	85	10	*1
5/8	24.5	30	11	38	130	10	*2
11/16	25.7	30	12	38	130	10	*2
3/4	28.2	30	13	38	125	10	*2
13/16	30.7	30	14	38	120	10	*2
7/8	32	30	14	38	130	10	*2
15/16	34.5	30	14	38	135	10	*2
1	35.7	30	14	38	135	10	*2
1. 1/16	38.2	30	16	40	160	10	*2
1. 1/8	40.7	30	17	42	190	10	*2
1. 3/16	42	30	17	42	190	10	*2
1. 1/4	44.5	30	18	42	216	10	*2
1. 5/16	45.7	30	19	46	260	5	*2
1. 3/8	47	30	19	46	263	5	*2
New 1. 1/2	52	30	20	53	365	5	*2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B → P230~231

\*2 C-Ring=1402C, Pin/O-Ring=1402A/B

## 14405M • 14405A

12-point Sockets  
Vasos Bihexagonales



14405A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖ (g)	📦 (pcs.)	⌚
5/16	14.5	25	6	38	85	10	*1
3/8	17	25	7	38	85	10	*1
7/16	18.2	25	8	38	85	10	*1
1/2	20.7	25	10	38	85	10	*1
9/16	22	25	10	38	85	10	*1
5/8	24.5	30	11	38	130	10	*2
11/16	25.7	30	12	38	130	10	*2
3/4	28.2	30	13	38	125	10	*2
13/16	30.7	30	14	38	120	10	*2
7/8	32	30	14	38	130	10	*2
15/16	34.5	30	14	38	135	10	*2
1	35.7	30	14	38	135	10	*2
1. 1/16	38.2	30	16	40	160	10	*2
1. 1/8	40.7	30	17	42	190	10	*2
1. 3/16	42	30	17	42	190	10	*2
1. 1/4	44.5	30	18	42	216	10	*2
1. 5/16	45.7	30	19	46	260	5	*2
1. 3/8	47	30	19	46	263	5	*2
New 1. 1/2	52	30	20	53	365	5	*2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B → P230~231

\*2 C-Ring=1402C, Pin/O-Ring=1402A/B

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B → P230~231

\*2 C-Ring=1402C, Pin/O-Ring=1402A/B

# Impact Sockets **1/2"**

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

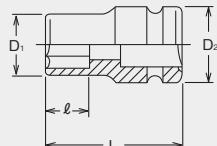
AUTOMOTIVE  
CONSTRUCCIÓN

RENEWAL KITS  
MÉJICOS DE REPUESTO

**14401M · 14401A**



6-point Sockets, Thin Walled  
Vasos Hexagonales de Pared Delgada



14401A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	∅
5/16	13	24	6	38	57	10	* 1
3/8	15.5	24	7	38	60	10	* 1
7/16	16.7	24	8	38	62	10	* 1
1/2	19.2	24	10	38	65	10	* 1
9/16	20.5	24	10	38	67	10	* 1
5/8	23	29	11	38	102	10	* 2
11/16	24.2	29	12	38	105	10	* 2
3/4	26.7	29	13	38	107	10	* 2
13/16	29.2	29	14	38	109	10	* 2
7/8	30.5	29	14	38	114	10	* 2
15/16	33	29	14	38	122	10	* 2
1	34.2	29	14	38	129	10	* 2
1. 1/16	35.5	29	14	40	131	10	* 2
1. 1/8	39.2	29	17	42	165	10	* 2
1. 3/16	40.5	29	17	42	178	10	* 2
1. 1/4	43	29	18	42	188	10	* 2
1. 5/16	44.2	29	19	46	219	5	* 2
1. 3/8	45.5	29	19	46	248	5	* 2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B

→ P230~231

\*2 C-Ring=1402C, Pin/O-Ring=1402A/B

14401M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	∅
8	13	24	6	38	57	10	* 1
9	14.2	24	7	38	58	10	* 1
10	15.5	24	7	38	60	10	* 1
11	16.7	24	8	38	62	10	* 1
12	18	24	9	38	63	10	* 1
13	19.2	24	10	38	65	10	* 1
14	20.5	24	10	38	67	10	* 1
15	21.7	29	11	38	100	10	* 2
16	23	29	11	38	102	10	* 2
17	24.2	29	12	38	105	10	* 2
18	25.5	29	13	38	105	10	* 2
19	26.7	29	13	38	107	10	* 2
20	28	29	13	38	108	10	* 2
21	29.2	29	14	38	109	10	* 2
22	30.5	29	14	38	114	10	* 2
23	31.7	29	14	38	118	10	* 2
24	33	29	14	38	122	10	* 2
25	34.2	29	14	38	129	10	* 2
26	35.5	29	14	38	131	10	* 2
27	36.7	29	16	40	145	10	* 2
28	38	29	16	40	152	10	* 2
29	39.2	29	17	42	165	10	* 2
30	40.5	29	17	42	178	10	* 2
31	41.7	29	17	42	185	10	* 2
32	43	29	18	42	188	10	* 2
33	44.2	29	19	46	219	5	* 2
34	45.5	29	19	46	248	5	* 2
36	48	29	20	46	264	5	* 2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B

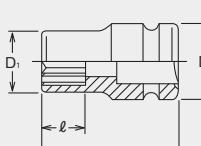
\*2 C-Ring=1402C, Pin/O-Ring=1402A/B

→ P230~231

**14406M · 14406A**



12-point Sockets, Thin Walled  
Vasos Bihexagonales de Pared Delgada



14406A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	∅
5/16	13	24	6	38	57	10	* 1
3/8	15.5	24	7	38	60	10	* 1
7/16	16.7	24	8	38	62	10	* 1
1/2	19.2	24	10	38	65	10	* 1
9/16	20.5	24	10	38	67	10	* 1
5/8	23	29	11	38	102	10	* 2
11/16	24.2	29	12	38	105	10	* 2
3/4	26.7	29	13	38	107	10	* 2
13/16	29.2	29	14	38	109	10	* 2
7/8	30.5	29	14	38	114	10	* 2
15/16	33	29	14	38	122	10	* 2
1	34.2	29	14	38	129	10	* 2
1. 1/16	35.5	29	14	40	131	10	* 2
1. 1/8	39.2	29	17	42	165	10	* 2
1. 3/16	40.5	29	17	42	178	10	* 2
1. 1/4	43	29	18	42	188	10	* 2
1. 5/16	44.2	29	19	46	219	5	* 2
1. 3/8	45.5	29	19	46	248	5	* 2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B

→ P230~231

\*2 C-Ring=1402C, Pin/O-Ring=1402A/B

14406M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	∅
8	13	24	6	38	57	10	* 1
9	14.2	24	7	38	58	10	* 1
10	15.5	24	7	38	60	10	* 1
11	16.7	24	8	38	62	10	* 1
12	18	24	9	38	63	10	* 1
13	19.2	24	10	38	65	10	* 1
14	20.5	24	10	38	67	10	* 1
15	21.7	29	11	38	100	10	* 2
16	23	29	11	38	102	10	* 2
17	24.2	29	12	38	105	10	* 2
18	25.5	29	13	38	105	10	* 2
19	26.7	29	13	38	107	10	* 2
20	28	29	13	38	108	10	* 2
21	29.2	29	14	38	109	10	* 2
22	30.5	29	14	38	114	10	* 2
23	31.7	29	14	38	118	10	* 2
24	33	29	14	38	122	10	* 2
25	34.2	29	14	38	129	10	* 2
26	35.5	29	14	38	131	10	* 2
27	36.7	29	16	40	145	10	* 2
28	38	29	16	40	152	10	* 2
29	39.2	29	17	42	165	10	* 2
30	40.5	29	17	42	178	10	* 2
31	41.7	29	17	42	185	10	* 2
32	43	29	18	42	188	10	* 2
33	44.2	29	19	46	219	5	* 2
34	45.5	29	19	46	248	5	* 2
36	48	29	20	46	264	5	* 2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B

\*2 C-Ring=1402C, Pin/O-Ring=1402A/B

→ P230~231

**RS14401M/10**



Socket Set on Rail  
Juego de Vasos en Regleta



RS14401M/10	10 Pieces Set/Rail 300mm	⚖️ (g)
10, 12, 13, 14, 17, 19, 21, 22, 24, 27		1,010

# 1/2"

## Impact Sockets

14400MG (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	∅
8	14.5	25	3.5	38	95	10	* 1
10	17	25	4.2	38	95	10	* 1
12	19.5	25	5.6	38	100	10	* 1
13	20.7	25	6	38	100	10	* 1
14	22	25	6.4	38	105	10	* 1
15	23.2	30	6.8	38	140	10	* 2
16	24.5	30	7	38	145	10	* 2
17	25.7	30	7.5	38	145	10	* 2
18	27	30	7.8	38	147	10	* 2
19	28.2	30	8	38	147	10	* 2
New 21	30.7	30	13.5	38	165	10	* 2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B → P230~231

\*2 C-Ring=1402C, Pin/O-Ring=1402A/B

### 14400MG



6-point Sockets with Magnet  
Vasos Hexagonales con Imán



14401LH (L-H-S)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	∅
6S	13	25	5.6	38	65	10	* 1
8S	16.7	25	6.8	38	69	10	* 1
10S	19.2	25	8	38	75	10	* 1
12S	23	30	9.2	38	115	10	* 2
14S	25.5	30	10.4	38	121	10	* 2
16S	29.2	30	11.6	38	128	10	* 2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B → P230~231

\*2 C-Ring=1402C, Pin/O-Ring=1402A/B

### 14401LH



LHS Sockets  
Vasos LHS



14410M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	∅
10	17	25	7	38	100	10	* 1
11	18.2	25	8	38	103	10	* 1
12	19.5	25	9	38	110	10	* 1
13	20.7	25	10	38	113	10	* 1
14	22	25	10	38	115	10	* 1
15	23.2	30	11	38	120	10	* 2
16	24.5	30	11	38	120	10	* 2
17	25.7	30	12	38	126	10	* 2
18	27	30	13	38	121	10	* 2
19	28.2	30	13	38	124	10	* 2
20	29.5	30	13	38	123	10	* 2
21	30.7	30	14	38	120	10	* 2
22	32	30	14	38	130	10	* 2
24	34.5	30	14	38	134	10	* 2
25	35.7	30	14	38	135	10	* 2
26	37	30	14	38	160	10	* 2
27	38.2	30	16	40	160	10	* 2
28	39.5	30	16	40	170	10	* 2
29	40.7	30	17	42	190	10	* 2
30	42	30	17	42	190	10	* 2
31	43.2	30	17	42	213	10	* 2
32	44.5	30	18	42	216	10	* 2
34	47	30	19	46	263	5	* 2
36	49.5	30	20	46	263	5	* 2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B → P230~231

\*2 C-Ring=1402C, Pin/O-Ring=1402A/B

### 14410M



Surface Drive Sockets  
Vasos Surface Drive (de Contacto Curvo)



14465M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	∅
10	17	25	8	38	89	10	* 1
11	18.2	25	8	38	87	10	* 1
12	19.5	25	9	38	87	10	* 1
13	20.7	25	9	38	86	10	* 1
14	22	25	11	38	86	10	* 1
15	23.2	30	11	38	131	10	* 2
16	24.5	30	11	38	131	10	* 2
17	25.7	30	12	38	132	10	* 2
18	27	30	13	38	128	10	* 2
19	28.2	30	13	38	128	10	* 2
20	29.5	30	14	38	125	10	* 2
21	30.7	30	14	38	128	10	* 2
22	32	30	15	38	130	10	* 2
23	33.2	30	15	38	135	10	* 2
24	34.5	30	15	38	135	10	* 2
25	35.7	30	15	38	133	10	* 2
26	37	30	15	38	152	10	* 2
27	38.2	30	16	40	169	10	* 2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B → P230~231

\*2 C-Ring=1402C, Pin/O-Ring=1402A/B

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LHSTIK™ es una marca registrada de OSG CORPORATION System Engineering Department.

### 14465M



Pathfinder Sockets  
Vasos Pathfinder (Guía)



HAND  
MANUALES

Z-SERIES  
INDUSTRIAL

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

# Impact Sockets **1/2"**

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM

DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS

DESTORNILLADORES

IMPACT  
DE IMPACTO

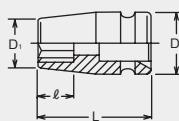
POWER  
MECANICOS

AUTOMOTIVE

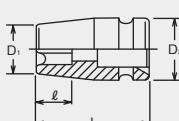
CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
MÉJICOS DE REPUESTO

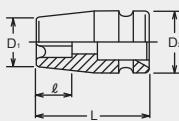
## 14415M Double Square Sockets Vasos Octagonales



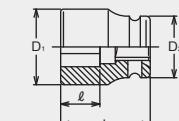
## 14425 TORX® Sockets Vasos TORX®



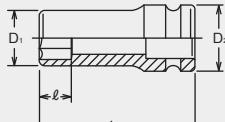
## 14425-EPL TORX PLUS® Sockets Vasos TORX PLUS®



## 14400-WN Weld Nut Sockets



## 14301X 6-point Sockets, Semi-Deep Vasos Hexagonales Medianos de pared Delgada



## RS14301X/10 Socket Set on Rail Juego de Vasos en Regleta



14415M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	秤 (g)	(pcs.)	Ø
14	25.7	30	10	38	138	10	* 1
15	27	30	11	38	145	10	* 1
16	29.5	30	11	38	150	10	* 1
17	30.7	30	12	38	155	10	* 1
18	32	30	13	38	165	10	* 1
19	33.2	30	14	38	170	10	* 1
22	38.2	30	14	40	185	10	* 1
24	42	30	14	42	215	10	* 1
27	45.7	30	16	46	278	5	* 1
28	47	30	16	46	285	5	* 1

\*1 C-Ring=1402C, Pin/O-Ring=1402A/B → P230~231

14425 (E) (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	秤 (g)	(pcs.)	Ø
E10	14.2	25	8.2	38	86	10	* 1
E12	15.2	25	9.3	38	85	10	* 1
E14	18.2	25	10.6	38	88	10	* 1
E16	19.2	25	11.8	38	88	10	* 1
E18	22.2	25	13	38	89	10	* 1
E20	24.2	30	14.4	38	134	10	* 2
E22	26.2	30	15.5	40	140	10	* 2
E24	28.2	30	17	40	138	10	* 2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B → P230~231

\*2 C-Ring=1402C, Pin/O-Ring=1402A/B → P230~231

14425-EPL (EPL) (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	秤 (g)	(pcs.)	Ø
10EPL	14.5	25	6.2	38	86	10	* 1
12EPL	17	25	7.2	38	86	10	* 1
14EPL	18.2	25	8.1	38	88	10	* 1
16EPL	20.7	25	9.1	38	88	10	* 1
18EPL	22	25	10.2	38	90	10	* 1
20EPL	24.5	30	11.2	38	135	10	* 2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B → P230~231

\*2 C-Ring=1402C, Pin/O-Ring=1402A/B → P230~231

14400-WN (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	秤 (g)	(pcs.)	Ø
8WN	18.3	25	8	38	93	10	* 1
9WN	19.5	25	9	38	93	10	* 1
10WN	20.8	25	10	38	92	10	* 1
12WN	24.5	30	12	38	139	10	* 2
14WN	27	30	14	38	136	10	* 2
17WN	32	30	17	40	150	10	* 2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B → P230~231

\*2 C-Ring=1402C, Pin/O-Ring=1402A/B → P230~231

14301X (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	秤 (g)	(pcs.)	Ø
8	13	24	8	60	72	10	* 1
10	15.5	24	10	60	79	10	* 1
11	16.7	24	11	60	82	10	* 1
12	18	24	12	60	88	10	* 1
13	19.2	24	13	60	92	10	* 1
14	20.5	24	14	60	97	10	* 1
15	21.7	29	15	60	125	10	* 2
16	23	29	16	60	135	10	* 2
17	24.2	29	17	60	142	10	* 2
19	26.7	29	19	60	151	10	* 2
21	29.2	29	21	60	170	10	* 2
22	30.5	29	22	65	187	10	* 2
23	31.7	29	23	65	192	10	* 2
24	33	29	24	65	202	10	* 2
26	35.5	29	26	65	218	10	* 2
27	36.7	29	27	65	231	10	* 2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B → P230~231

\*2 C-Ring=1402C, Pin/O-Ring=1402A/B → P230~231

RS14301X/10	10 Pieces Set/Rail 300mm	秤 (g)
10, 12, 13, 14, 17, 19, 21, 22, 24, 27		1,585

**TORX** is a registered trademark of Acument Intellectual Properties, LLC.  
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# 1/2"

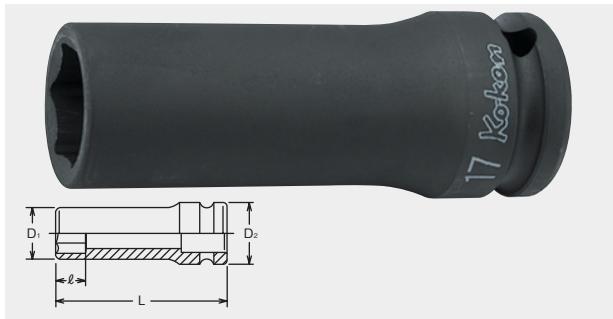
## Impact Sockets

14300M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖ (g)	📦 (pcs.)	⊖
8	14.5	25	8	80	137	10	* 1
9	15.7	25	9	80	138	10	* 1
10	17	25	10	80	140	10	* 1
11	18.2	25	11	80	156	10	* 1
12	19.5	25	12	80	162	10	* 1
13	20.7	25	13	80	162	10	* 1
14	22	25	14	80	174	10	* 1
15	23.2	30	15	80	220	10	* 2
16	24.5	30	16	80	232	10	* 2
17	25.7	30	17	80	232	10	* 2
18	27	30	18	80	232	10	* 2
19	28.2	30	19	80	259	10	* 2
20	29.5	30	20	80	265	10	* 2
21	30.7	30	21	80	265	10	* 2
22	32	30	22	85	290	10	* 2
23	33.2	30	23	85	300	10	* 2
24	34.5	30	24	85	329	10	* 2
25	35.7	30	25	85	345	10	* 2
26	37	30	26	85	350	10	* 2
27	38.2	30	27	85	385	10	* 2
28	39.5	30	28	85	390	10	* 2
29	40.7	30	29	85	416	10	* 2
30	42	30	30	85	457	10	* 2
31	43.2	30	31	85	505	10	* 2
32	44.5	30	32	85	542	10	* 2
33	45.7	30	33	85	562	2	* 2
34	47	30	33	85	570	2	* 2
35	48.2	30	35	85	600	2	* 2
36	49.5	30	36	85	600	2	* 2
41	55.7	30	38	85	630	2	* 2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B → P230~231  
 \*2 C-Ring=1402C, Pin/O-Ring=1402A/B

## 14300M • 14300A

6-point Deep Sockets  
Vasos Hexagonales Largos



14300A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖ (g)	📦 (pcs.)	⊖
5/16	14.5	25	8	80	137	10	* 1
3/8	17	25	10	80	140	10	* 1
7/16	18.2	25	11	80	156	10	* 1
1/2	20.7	25	13	80	162	10	* 1
9/16	22	25	14	80	174	10	* 1
5/8	24.5	30	16	80	232	10	* 2
11/16	25.7	30	17	80	232	10	* 2
3/4	28.2	30	19	80	259	10	* 2
13/16	30.7	30	21	80	265	10	* 2
7/8	32	30	22	85	290	10	* 2
15/16	34.5	30	24	85	329	10	* 2
1	35.7	30	25	85	345	10	* 2
1. 1/16	38.2	30	27	85	385	10	* 2
1. 1/8	40.7	30	29	85	416	10	* 2
1. 3/16	42	30	30	85	457	10	* 2
1. 1/4	44.5	30	32	85	542	10	* 2
New 1. 7/16	50.7	30	37	85	580	10	* 2
New 1. 1/2	52	30	38	85	600	10	* 2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B → P230~231  
 \*2 C-Ring=1402C, Pin/O-Ring=1402A/B



## 14301M • 14301A

6-point Deep Sockets, Thin-walled  
Vasos Hexagonales Largos de Pared Delgada



14301A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖ (g)	📦 (pcs.)	⊖
3/8	15.5	24	10	80	98	10	* 1
7/16	16.7	24	11	80	104	10	* 1
1/2	19.2	24	13	80	120	10	* 1
9/16	20.5	24	14	80	127	10	* 1
15/16	21.7	29	15	80	169	10	* 2
1	23	29	16	80	173	10	* 2
1. 1/16	24.2	29	17	80	182	10	* 2
1. 1/8	25.5	29	18	80	192	10	* 2
1. 3/16	26.7	29	19	80	197	10	* 2
1. 1/4	28	29	20	80	203	10	* 2
1. 1/2	29.2	29	21	80	218	10	* 2
2. 30.5	29	22	85	244	10	* 2	
2. 31.7	29	23	85	253	10	* 2	
2. 33	29	24	85	261	10	* 2	
2. 34.2	29	25	85	282	10	* 2	
2. 35.5	29	26	85	299	10	* 2	
2. 36.7	29	27	85	314	10	* 2	
2. 38	29	29	85	273	10	* 2	
2. 39.2	29	29	85	280	10	* 2	
2. 40.5	29	30	85	360	10	* 2	
2. 41.7	29	31	85	370	10	* 2	
2. 43	29	32	85	380	10	* 2	
2. 44.5	29	34	85	411	2	* 2	
2. 46.7	29	35	85	450	2	* 2	
2. 48	29	36	85	460	2	* 2	

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B → P230~231  
 \*2 C-Ring=1402C, Pin/O-Ring=1402A/B

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B → P230~231  
 \*2 C-Ring=1402C, Pin/O-Ring=1402A/B

# Impact Sockets **1/2"**

HAND  
MANUALES

Z-SERIES  
INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO  
MULTIPLIER  
MULTIPLICADOR

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

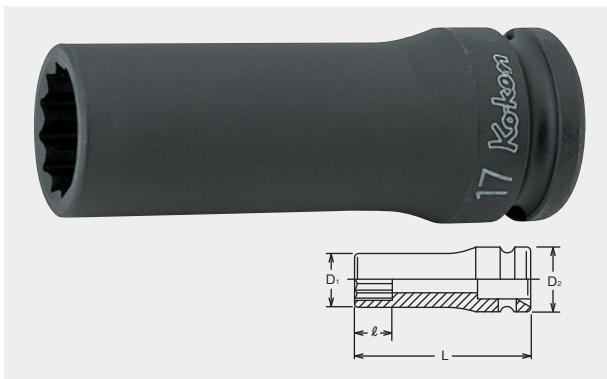
AUTOMOTIVE  
CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
MÉJICOS DE REPUESTO

## 14305M



12-point Deep Sockets  
Vasos Bihexagonales Largos



14305M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	∅
<b>8</b>	14.5	25	8	80	137	10	* 1
<b>10</b>	17	25	10	80	140	10	* 1
<b>11</b>	18.2	25	11	80	156	10	* 1
<b>12</b>	19.5	25	12	80	162	10	* 1
<b>13</b>	20.7	25	13	80	162	10	* 1
<b>14</b>	22	25	14	80	174	10	* 1
<b>15</b>	23.2	30	15	80	220	10	* 2
<b>16</b>	24.5	30	16	80	232	10	* 2
<b>17</b>	25.7	30	17	80	232	10	* 2
<b>18</b>	27	30	18	80	232	10	* 2
<b>19</b>	28.2	30	19	80	259	10	* 2
<b>20</b>	29.5	30	20	80	265	10	* 2
<b>21</b>	30.7	30	21	80	265	10	* 2
<b>22</b>	32	30	22	85	290	10	* 2
<b>24</b>	34.5	30	24	85	329	10	* 2
<b>27</b>	38.2	30	27	85	385	10	* 2
<b>28</b>	39.5	30	30	85	390	10	* 2
<b>30</b>	42	30	30	85	457	10	* 2
<b>32</b>	44.5	30	32	85	542	10	* 2
<b>36</b>	49.5	30	36	85	635	2	* 2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B

\*2 C-Ring=1402C, Pin/O-Ring=1402A/B

► P230 ~ 231

## 14306M



12-point Deep Sockets, Thin-Walled  
Vasos Bihexagonales Largos de Pared Delgada



14306M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	∅
<b>10</b>	15.5	24	10	80	98	10	* 1
<b>12</b>	18	24	12	80	111	10	* 1
<b>13</b>	19.2	24	13	80	120	10	* 1
<b>14</b>	20.5	24	14	80	127	10	* 1
<b>15</b>	21.7	29	15	80	169	10	* 2
<b>16</b>	23	29	16	80	173	10	* 2
<b>17</b>	24.2	29	17	80	182	10	* 2
<b>18</b>	25.5	29	18	80	192	10	* 2
<b>19</b>	26.7	29	19	80	197	10	* 2
<b>21</b>	29.2	29	21	80	218	10	* 2
<b>22</b>	30.5	29	22	85	244	10	* 2
<b>24</b>	33	29	24	85	261	10	* 2
<b>27</b>	36.7	29	27	85	314	10	* 2
<b>30</b>	40.5	29	30	85	360	10	* 2
<b>32</b>	43	29	32	85	380	10	* 2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B

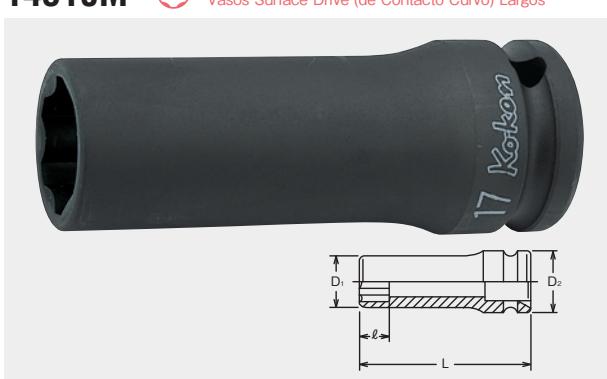
\*2 C-Ring=1402C, Pin/O-Ring=1402A/B

► P230 ~ 231

## 14310M



Surface Drive Sockets, deep  
Vasos Surface Drive (de Contacto Curvo) Largos



14310M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	∅
<b>10</b>	17	25	10	80	136	10	* 1
<b>11</b>	18.2	25	11	80	148	10	* 1
<b>12</b>	19.5	25	12	80	156	10	* 1
<b>13</b>	20.7	25	13	80	158	10	* 1
<b>14</b>	22	25	14	80	170	10	* 1
<b>15</b>	23.2	30	15	80	225	10	* 2
<b>16</b>	24.5	30	16	80	228	10	* 2
<b>17</b>	25.7	30	17	80	232	10	* 2
<b>18</b>	27	30	18	80	232	10	* 2
<b>19</b>	28.2	30	19	80	252	10	* 2
<b>20</b>	29.5	30	20	80	260	10	* 2
<b>21</b>	30.7	30	21	80	260	10	* 2
<b>22</b>	32	30	22	85	290	10	* 2
<b>24</b>	34.5	30	24	85	322	10	* 2
<b>25</b>	35.7	30	25	85	338	10	* 2
<b>26</b>	37	30	26	85	350	10	* 2
<b>27</b>	38.2	30	27	85	380	10	* 2
<b>30</b>	42	30	30	85	450	10	* 2
<b>32</b>	44.5	30	32	85	535	10	* 2
<b>34</b>	47	30	34	85	563	2	* 2
<b>36</b>	49.5	30	36	85	630	2	* 2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B

\*2 C-Ring=1402C, Pin/O-Ring=1402A/B

► P230 ~ 231

# 1/2" Impact Sockets

14300G (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	∅
10	17	25	4.5	80	139	10	* 1
12	19.5	25	6	80	165	10	* 1
13	20.7	25	6.5	80	185	10	* 1
14	22	25	7	80	189	10	* 1
17	25.7	30	8	80	272	10	* 2
New 19	28.2	30	9	80	308	10	* 2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B → P230~231  
 \*2 C-Ring=1402C, Pin/O-Ring=1402A/B

14365M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	∅
10	17	25	8	80	138	10	* 1
11	18.2	25	8	80	144	10	* 1
12	19.5	25	9	80	165	10	* 1
13	20.7	25	9	80	170	10	* 1
14	22	25	11	80	178	10	* 1
15	23.2	30	11	80	237	10	* 2
16	24.5	30	11	80	245	10	* 2
17	25.7	30	12	80	263	10	* 2
18	27	30	13	80	268	10	* 2
19	28.2	30	13	80	270	10	* 2
20	29.5	30	14	80	274	10	* 2
21	30.7	30	14	80	287	10	* 2
22	32	30	15	85	314	10	* 2
23	33.2	30	15	85	320	10	* 2
24	34.5	30	15	85	335	10	* 2
26	37	30	15	85	388	10	* 2
27	38.2	30	16	85	407	10	* 2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B → P230~231  
 \*2 C-Ring=1402C, Pin/O-Ring=1402A/B

14325 (E)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	∅
E10	14.2	25	8.2	80	136	10	* 1
E12	15.2	25	9.3	80	141	10	* 1
E14	18.2	25	10.6	80	147	10	* 1
E16	19.2	25	11.8	80	151	10	* 1
E18	22.2	25	13	80	218	10	* 1
E20	24.2	30	14.4	80	225	10	* 2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B → P230~231  
 \*2 C-Ring=1402C, Pin/O-Ring=1402A/B

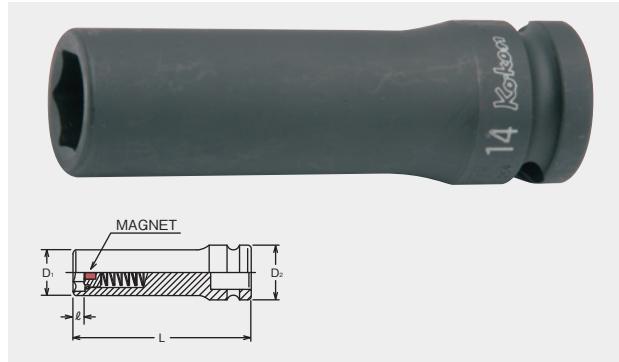
14440M (mm)	D (mm)	ℓ (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	∅
13	20.7	6	67.5	210	10	* 1
14	22	7	69.5	210	10	* 1
15	23.2	7	69.5	210	10	* 1
16	24.5	8	69.5	206	10	* 1
17	25.7	8	69.5	220	10	* 1
18	27	9	69.5	218	10	* 1
19	28.2	10	73.5	260	10	* 1
20	29.5	10	73.5	270	10	* 1
21	30.7	11	73.5	280	10	* 1
22	32	13	73.5	290	10	* 1
24	34.5	14	73.5	300	10	* 1

14440A (inch)	D (mm)	ℓ (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	∅
1/2	20.7	6	67.5	210	10	* 1
9/16	22	7	69.5	210	10	* 1
5/8	24.5	8	69.5	206	10	* 1
11/16	25.7	8	69.5	220	10	* 1
3/4	28.2	10	73.5	260	10	* 1

\*1 C-Ring=1402C, Pin/O-Ring=1402A/B → P230~231

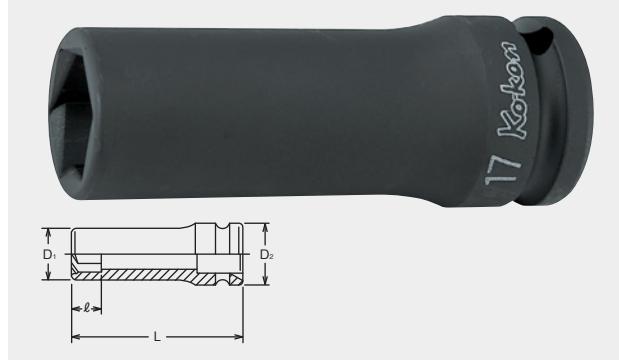
## 14300G Impact Socket with Sliding Magnet

Vasos de Impacto con Imán Corredizo



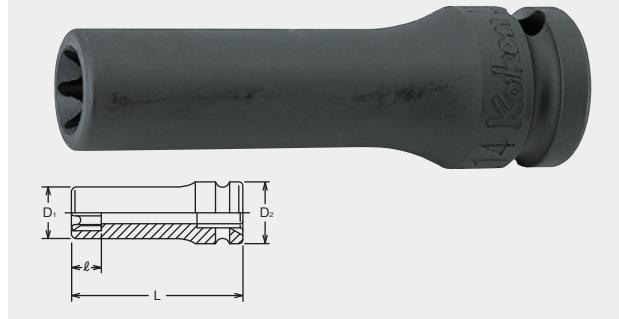
## 14365M Pathfinder Sockets, deep

Vasos Pathfinder (Guía) Largos



## 14325 TORX® Deep Sockets

Vasos TORX® Largos



## 14440M • 14440A Universal Sockets

Vasos con Articulación Universal



# Impact Sockets **1/2"**

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM

DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
MÉJICOS DE REPUESTO

## 14012M-60

Inhex Sockets  
Vasos Inhex



14012M.60 (mm)	D (mm)	l (mm)	L (mm)	 (g)	 (pcs.)	
4	25	15.5	60	68	10	* 1
5	25	15.5	60	71	10	* 1
6	25	15.5	60	74	10	* 1
7	25	15.5	60	80	10	* 1
8	25	15.5	60	84	10	* 1
10	30	15.5	60	140	10	* 2
12	30	15.5	60	150	10	* 2
14	30	15.5	60	170	10	* 2
17	30	15.5	60	190	10	* 2
19	30	15.5	60	210	10	* 2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B → P230 ~ 231

\*2 C-Ring=1402C, Pin/O-Ring=1402A/B

## RS14012M/10-L60

Inhex Sockets  
Vasos Inhex



RS14012M/10-L60	10 Pieces Set/Rail 300mm	 (g)
New 4, 5, 6, 7, 8, 10, 12, 14, 17, 19	1,300	

## 14025-60

TORX® Bit Sockets  
Vasos con Punta TORX®



14025.60 (mm)	D (mm)	L (mm)	 (g)	 (pcs.)	
New T30	25	60	80	10	* 1
New T40	25	60	85	10	* 1
New T45	25	60	85	10	* 1
New T50	25	60	95	10	* 1
New T55	25	60	110	10	* 1
New T60	30	60	160	10	* 2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B → P230 ~ 231

\*2 C-Ring=1402C, Pin/O-Ring=1402A/B

## RS14025/6-L60

TORX® Bit Sockets  
Vasos con Punta TORX®



RS14025/6-L60	6 Pieces Set/Rail 200mm	 (g)
New T30, T40, T45, T50, T55, T60	650	

## 14105

Bit Holder  
Porta Punta



14105	D (mm)	L (mm)	 (g)	 (pcs.)	
14105L	22	38	126	10	* 1
14105L	22	43	160	10	* 1

\*1 C-Ring=1402C, Pin/O-Ring=1402A/B → P230 ~ 231

## 14105L

Bit Holder  
Porta Punta



# 1/2"

## Impact Sockets

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

107.11 (mm)	L (mm)		(g)		(pcs.)
3	35	15		10	
4	35	16		10	
5	35	16		10	
6	35	18		10	
7	35	19		10	
8	35	20		10	
10	35	26		10	
11	35	28		10	
12	35	31		10	
14	35	38		10	
16	35	47		10	
17	35	50		10	
18	35	53		10	
19	35	56		10	

107.11(L80) (mm)	L (mm)		(g)		(pcs.)
4	80	54		10	
5	80	54		10	
6	80	56		10	
7	80	57		10	
8	80	59		10	
10	80	64		10	
11	80	66		10	
12	80	76		10	
14	80	98		10	

107.11 (T)	L (mm)		(g)		(pcs.)
T30	35	18		10	
T40	35	20		10	
T45	35	22		10	
T50	35	26		10	
T55	35	31		10	
T60	35	38		10	

107.11(L80) (T)	L (mm)		(g)		(pcs.)
New T30	80	54		10	
New T40	80	54		10	
New T45	80	56		10	
New T50	80	57		10	
New T55	80	66		10	
New T60	80	76		10	

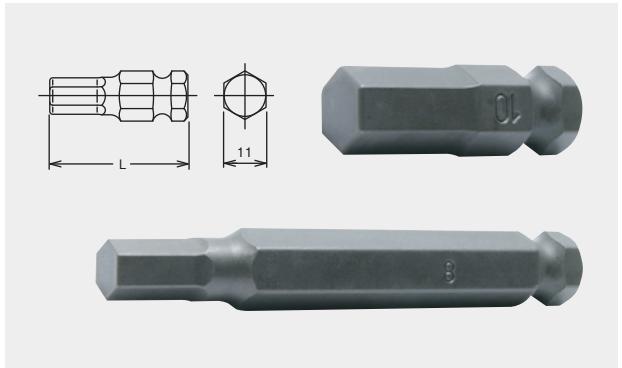
107.11 (XZN)	L (mm)		(g)		(pcs.)
M 4	35	18		10	
M 5	35	20		10	
M 6	35	22		10	
M 8	35	26		10	
M10	35	31		10	
M12	35	38		10	

107.11(L80) (XZN)	L (mm)		(g)		(pcs.)
New M 4	80	54		10	
New M 5	80	54		10	
New M 6	80	56		10	
New M 8	80	57		10	
New M10	80	66		10	
New M12	80	76		10	
New M14	80	80		10	

## 107-11



Bits for Inhex Screws  
Puntas para Tornillos Inhex

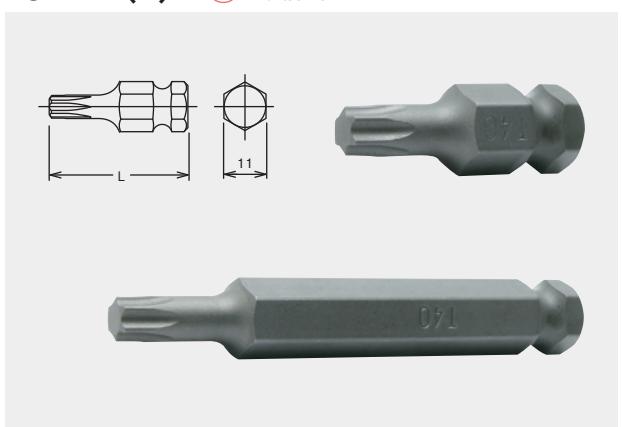


107.11 (inch)	L (mm)		(g)		(pcs.)
3/16	35	15		10	
7/32	35	16		10	
1/4	35	18		10	
5/16	35	20		10	
3/8	35	26		10	
7/16	35	28		10	
1/2	35	38		10	
5/8	35	47		10	
3/4	35	56		10	

## 107-11 (T)



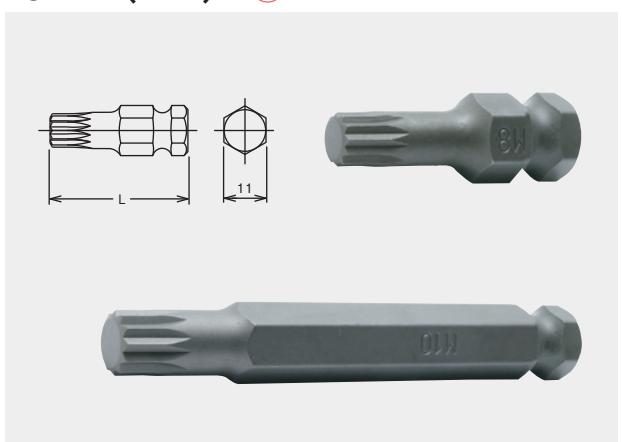
TORX® Bits  
Puntas TORX®



## 107-11 (XZN)



XZN Bits  
Puntas XZN



# Impact Sockets **1/2"**

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM

DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

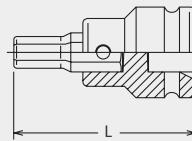
CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
MÉJICOS DE REPUESTO

## 14105-11



Hex bit sockets  
Vasos con Punta Hexagonal

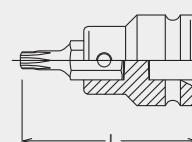


14105.11 (mm)	L (mm)	(g)	(pcs.)	
3	60	141	10	* 1
4	60	142	10	* 1
5	60	142	10	* 1
6	60	144	10	* 1
7	60	145	10	* 1
8	60	146	10	* 1
10	60	152	10	* 1
11	60	154	10	* 1
12	60	157	10	* 1
14	60	164	10	* 1
16	60	173	10	* 1
17	60	176	10	* 1
18	60	179	10	* 1
19	60	182	10	* 1

## 14105-11 (T)



TORX® Bit Sockets  
Vasos con Punta TORX®



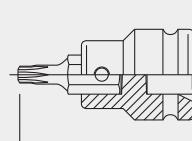
14105.11 (inch)	L (mm)	(g)	(pcs.)	
1/4	60	144	10	* 1
5/16	60	146	10	* 1
3/8	60	152	10	* 1
1/2	60	164	10	* 1
3/4	60	182	10	* 1

\*1 C-Ring=1402C, Pin/O-Ring=1402A/B ➔ P230~231

## 14105-11 (XZN)



XZN Bit Sockets  
Vasos con Punta XZN



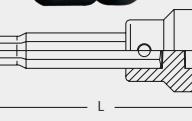
14105.11 (XZN)	L (mm)	(g)	(pcs.)	
M 4	60	144	10	* 1
M 5	60	146	10	* 1
M 6	60	152	10	* 1
M 8	60	157	10	* 1
M10	60	160	10	* 1
M12	60	164	10	* 1

\*1 C-Ring=1402C, Pin/O-Ring=1402A/B ➔ P230~231

## 14105-L105



Hex Bit Sockets  
Vasos con Punta Hexagonal



14105(L105) (mm)	L (mm)	(g)	(pcs.)	
New 4	105	180	10	* 1
New 5	105	180	10	* 1
New 6	105	185	10	* 1
New 7	105	185	10	* 1
New 8	105	185	10	* 1
New 10	105	190	10	* 1
New 11	105	190	10	* 1
New 12	105	200	10	* 1
New 14	105	230	10	* 1

\*1 C-Ring=1402C, Pin/O-Ring=1402A/B ➔ P230~231

## 14105-L105 (T)



TORX® Bit Sockets  
Vasos con Punta TORX®



14105(L105) (T)	L (mm)	(g)	(pcs.)	
New T30	105	180	10	* 1
New T40	105	180	10	* 1
New T45	105	185	10	* 1
New T50	105	185	10	* 1
New T55	105	195	10	* 1
New T60	105	205	10	* 1

\*1 C-Ring=1402C, Pin/O-Ring=1402A/B ➔ P230~231

# 1/2"

Impact Sockets

	L (mm)	(g)	(pcs.)	
New 14106	43	160	10	* 1

\*1 C-Ring=1402C, Pin/O-Ring=1402A/B → P230~231



107.16 (mm)	L (mm)	(g)	(pcs.)
10	40	46	10
12	40	52	10
13	40	56	10
14	40	60	10
16	40	69	10
17	40	73	10
18	40	78	10
19	40	80	10
22	40	97	10

107.16 (inch)	L (mm)	(g)	(pcs.)
1/2	40	56	10
9/16	40	60	10
5/8	40	69	10
3/4	40	80	10

107.16 (T)	L (mm)	(g)	(pcs.)
T55	50	57	10
T60	50	64	10
T70	50	73	10

107.16 (XZN)	L (mm)	(g)	(pcs.)
M14	60	83	10
M16	60	93	10
M18	60	103	10

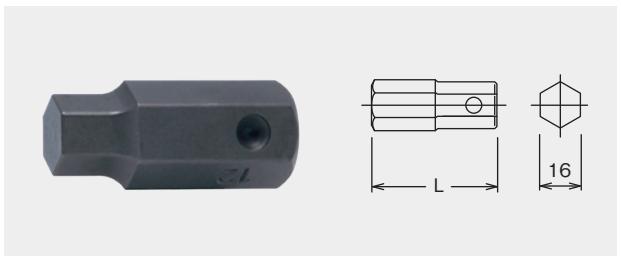
## 14106

Bit Holder for 107-16  
Porta Punta



## 107-16

Bits for Inhex screws  
Puntas para Tornillos Inhex



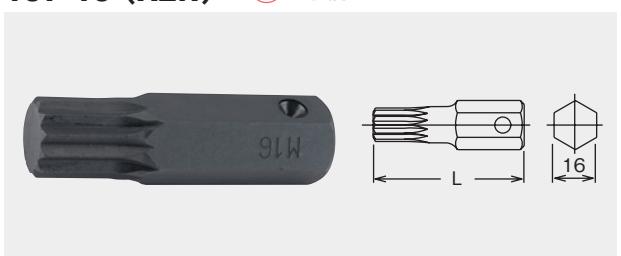
## 107-16 (T)

TORX® Bits  
Puntas TORX®



## 107-16 (XZN)

XZN Bits  
Puntas XZN



HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

# Impact Sockets **1/2"**

HAND  
MANUALES

Z-SERIES  
INDUSTRIALES

TITANIUM  
DE TITANIO

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

POWER  
MECÁNICOS

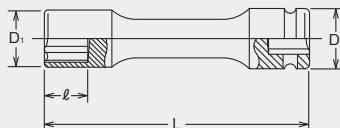
IMPACT  
DE IMPACTO

AUTOMOTIVE  
CONSTRUCTION

RENEWAL KITS  
MÉJICOS DE REPUESTO

## 14145M-150 · -200 · -250

Extra Long Sockets  
Vasos Extra-Largos



14145M.200 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	g (g)	(pce.)	⌚
10	17	25	10	200	234	1	* 1
12	19.5	25	12	200	248	1	* 1
13	20.7	25	13	200	260	1	* 1
14	22	25	14	200	272	1	* 1
15	23.2	25	15	200	284	1	* 1
16	24.5	25	16	200	290	1	* 1
17	25.7	25	17	200	297	1	* 1
18	27	25	18	200	305	1	* 1
19	28.2	25	19	200	311	1	* 1

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B ➔ P230~231

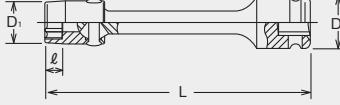
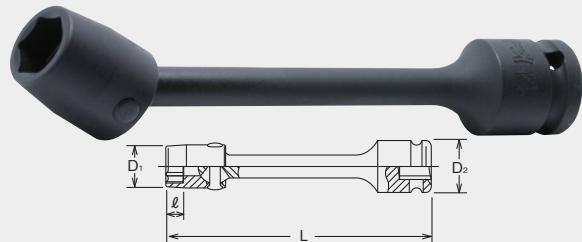
14145M.150 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	g (g)	(pce.)	⌚
10	17	25	10	150	190	1	* 1
12	19.5	25	12	150	204	1	* 1
13	20.7	25	13	150	216	1	* 1
14	22	25	14	150	228	1	* 1
15	23.2	25	15	150	240	1	* 1
16	24.5	25	16	150	245	1	* 1
17	25.7	25	17	150	253	1	* 1
18	27	25	18	150	260	1	* 1
19	28.2	25	19	150	267	1	* 1

14145M.250 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	g (g)	(pce.)	⌚
10	17	25	10	250	278	1	* 1
12	19.5	25	12	250	292	1	* 1
13	20.7	25	13	250	304	1	* 1
14	22	25	14	250	316	1	* 1
15	23.2	25	15	250	328	1	* 1
16	24.5	25	16	250	335	1	* 1
17	25.7	25	17	250	341	1	* 1
18	27	25	18	250	350	1	* 1
19	28.2	25	19	250	355	1	* 1

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B ➔ P230~231

## 14146M-150 · -200 · -250

Extra Long Universal Sockets  
Vasos con Articulación Universal Extra-Largos



14146M.200 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	g (g)	(pce.)	⌚
10	16	25	6.5	200	241	1	* 1
12	19.3	25	7.5	200	244	1	* 1
13	20	25	8	200	245	1	* 1
14	21	25	8.5	200	247	1	* 1
15	22	25	9	200	245	1	* 1
16	23	25	9.5	200	244	1	* 1
17	25	25	9.5	200	244	1	* 1
18	26	25	11	200	250	1	* 1
19	28	25	11.5	200	254	1	* 1

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B ➔ P230~231

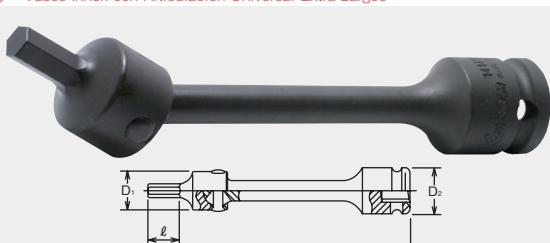
14146M.150 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	g (g)	(pce.)	⌚
10	16	25	6.5	150	197	1	* 1
12	19.3	25	7.5	150	200	1	* 1
13	20	25	8	150	201	1	* 1
14	21	25	8.5	150	203	1	* 1
15	22	25	9	150	201	1	* 1
16	23	25	9.5	150	200	1	* 1
17	25	25	9.5	150	200	1	* 1
18	26	25	11	150	210	1	* 1
19	28	25	11.5	150	210	1	* 1

14146M.250 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	g (g)	(pce.)	⌚
10	16	25	6.5	250	285	1	* 1
12	19.3	25	7.5	250	288	1	* 1
13	20	25	8	250	289	1	* 1
14	21	25	8.5	250	291	1	* 1
15	22	25	9	250	289	1	* 1
16	23	25	9.5	250	288	1	* 1
17	25	25	9.5	250	288	1	* 1
18	26	25	11	250	290	1	* 1
19	28	25	11.5	250	299	1	* 1

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B ➔ P230~231

## 14147M-150 · -200

Extra Long Universal Inhex Sockets  
Vasos Inhex con Articulación Universal Extra-Largos



14147M.150 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	g (g)	(pce.)	⌚
6	25	25	15	150	200	1	* 1
8	25	25	15	150	205	1	* 1
10	25	25	15	150	210	1	* 1
12	25	25	15	150	217	1	* 1

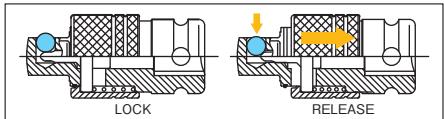
\*1 C-Ring=1401C, Pin/O-Ring=1401A/B ➔ P230~231

# 1/2" Impact Sockets

	D (mm)	L (mm)	$\text{g}$ (g)	(pce.)	$\odot$
New	50	30	50	150	1 * 1
New	75	30	75	188	1 * 1
New	100	30	100	240	1 * 1
	125	30	125	275	1 * 1
	150	30	150	300	1 * 1
	175	30	175	358	1 * 1
New	200	30	200	405	1 * 1
	250	30	250	480	1 * 1

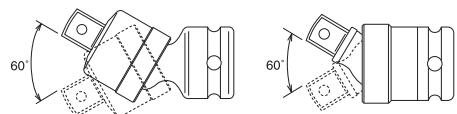
\*1 C-Ring=1402C, Pin/O-Ring=1402A/B → P230~231

Lock & Quick Release



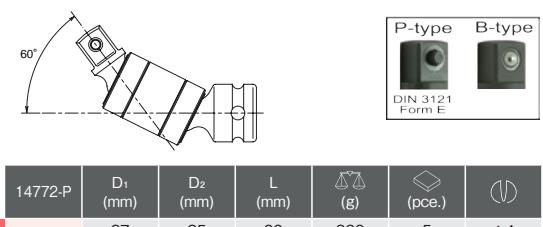
	L (mm)	$\text{g}$ (g)	(pce.)	$\odot$
14444AL	55	128	5	* 1

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B → P230~231



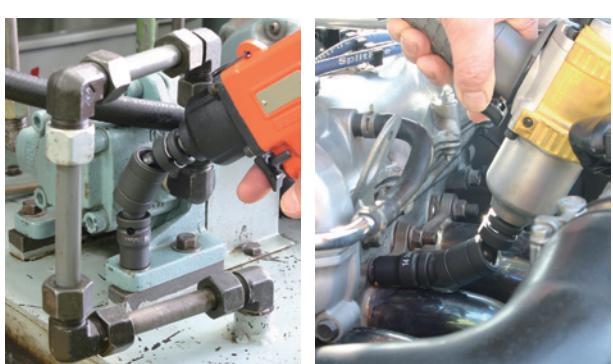
	L (mm)	$\text{g}$ (g)	(pce.)	$\odot$
14770	74	210	5	* 1
14770-B	74	210	5	* 1
14770-P	74	210	5	* 1
14771	65	198	5	* 1
14771-B	65	198	5	* 1
14771-P	65	198	5	* 1

\*1 C-Ring=1402C, Pin/O-Ring=1402A/B → P230~231



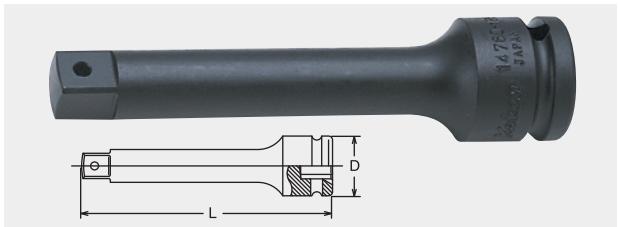
	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	L (mm)	$\text{g}$ (g)	(pce.)	$\odot$
New	27	25	90	230	5	* 1

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B → P230~231



## 14760-50 · -75 · -100 · -125 · -150 · -175 · -200 · -250

Extension Bars  
Alargaderas



## 14444AL

Adaptor (Quick Release)  
Adaptador (Extracción Rápida)



## 14770

Universal Joint  
Articulación Universal



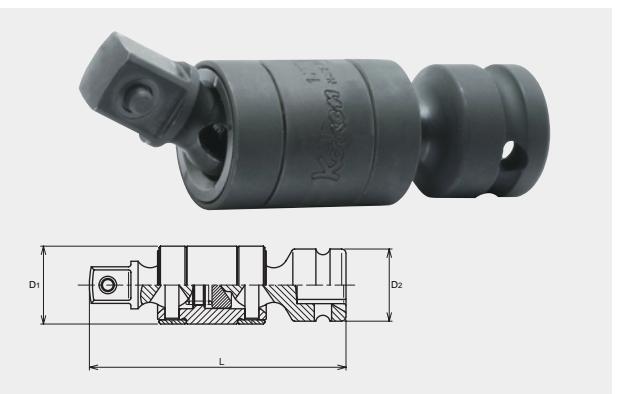
## 14771

Universal Joint  
Articulación Universal



## 14772-P

Universal Double Joint  
Articulación Universal



HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

# Impact Sockets **1/2"**

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

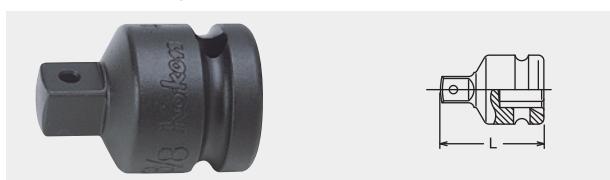
IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

RENEWAL KITS  
MÉJICOS DE REPUESTO CONSTRUCCIÓN

**14433A** Adaptor  
Adaptador



	□ (sq.)	□ (sq.)	L (mm)	(g)	(pcs.)	€
14433A	1/2"	3/8"	36	68	10	* 1
14433A-B	1/2"	3/8"	36	68	10	* 1
14433A-P	1/2"	3/8"	36	68	10	* 1

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B → P230~231

⚠ Adapting down to a smaller square drive may lead to excessive torque load and possibly cause breakage. Always stay within limit torque of the smaller square drive.



**14455A** Adaptor  
Adaptador



	□ (sq.)	□ (sq.)	L (mm)	(g)	(pcs.)	€
14455A	1/2"	5/8"	42	135	10	* 1

\*1 C-Ring=1402C, Pin/O-Ring=1402A/B → P230~231

**14466A** Adaptor  
Adaptador



	□ (sq.)	□ (sq.)	L (mm)	(g)	(pcs.)	€
14466A	1/2"	3/4"	44	146	10	* 1
14466A-B	1/2"	3/4"	44	146	10	* 1

\*1 C-Ring=1402C, Pin/O-Ring=1402A/B → P230~231

**14203M** Set Juego



14203M		10 Pieces Set/€=900g
METAL CASE: W215×H80×T47mm		
Bits	Bit Holder	
107.11 Hex Bits 5, 6, 7, 8	14105 Bit Holder	
107.16 Hex Bits 12, 14, 17, 19	14106 Bit Holder	

**14204M** Set Juego



14204M		18 Pieces Set/€=1,370g
METAL CASE: W310×H90×T48mm		
Bits	Bit Holder	
107.11 Hex Bits 4, 5, 6, 7, 8, 10, 12, 14	14105 Bit Holder	
107.11 (L80) Hex Bits 4, 5, 6, 7, 8, 10, 12, 14	168H-2.5 (40) Screwdriver	

**14204T** Set Juego



14204T		14 Pieces Set/€=1,180g
METAL CASE: W310×H90×T48mm		
Bits	Bit Holder	
107.11 (T) TORX® Bits T30, T40, T45, T50, T55, T60	14105 Bit Holder	
107.11 (T) (L80) TORX® Bits T30, T40, T45, T50, T55, T60	168H-2.5 (40) Screwdriver	

**14204X** Set Juego



14204X		14 Pieces Set/€=1,180g
METAL CASE: W310×H90×T48mm		
Bits	Bit Holder	
107.11 (XZN) XZN Bits M4, M5, M6, M8, M10, M12	14105 Bit Holder	
107.11 (L80) XZN Bits M4, M5, M6, M8, M10, M12	168H-2.5 (40) Screwdriver	

# 1/2" Impact Sockets

<b>New</b>	<b>14207M</b>	10 Pieces Set/ $\Delta\wedge$ =2,700g
METAL CASE:W310×H90×T48mm		
Sockets		
○	<b>14300M</b> 6-pt Deep Sockets 10, 12, 13, 14, 17, 19, 21, 22, 24, 27	

**14207M** ○ Socket Set  
Juego de Vasos



<b>New</b>	<b>14208M</b>	13 Pieces Set/ $\Delta\wedge$ =3,500g
METAL CASE:W395×H90×T50mm		
Sockets		
○	<b>14300M</b> 6-pt Deep Sockets 10, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24, 27	

**14208M** ○ Socket Set  
Juego de Vasos



<b>14241M</b>	13 Pieces Set/ $\Delta\wedge$ =2,000g
METAL CASE:W196×H100×T45mm	
Sockets	
○	<b>14400M</b> 6-pt. Sockets 10, 11, 12, 13, 14, 15, 16, 17, 19, 21, 22, 24, 27

**14241M** ○ Socket Set  
Juego de Vasos

**14241M-05** ○



<b>New</b>	<b>14241M-05</b>	13 Pieces Set/ $\Delta\wedge$ =2,000g
METAL CASE:W196×H100×T45mm		
Sockets		
○	<b>14405M</b> 12-pt. Sockets 10, 11, 12, 13, 14, 15, 16, 17, 19, 21, 22, 24, 27	

**14242M** ○ Socket Set  
Juego de Vasos



<b>14242M</b>	12 Pieces Set/ $\Delta\wedge$ =1,890g
METAL CASE:W310×H90×T48mm	
Sockets	
○	<b>14400M</b> 6-pt. Sockets 10, 11, 12, 13, 14, 15, 16, 17, 19, 21, 22, 27

<b>New</b>	<b>14245M-05</b>	18 Pieces Set/ $\Delta\wedge$ =2,250g
METAL CASE:W310×H90×T48mm		
Sockets		
○	<b>14405M</b> 12-pt. Sockets 10, 12, 13, 14, 16, 17, 18, 19, 21, 22, 24, 27	14760-125

○	14770
○	1401A, 1402A
○	1401B, 1402B

**14245M-05** ○ Socket Set  
Juego de Vasos



<b>S14240M</b>	14400M 98 Pieces Set/ $\Delta\wedge$ =13,690g
DISPLAY STAND:W510×H150×T230mm	
○ 10mm:8pcs	15mm:7pcs
○ 11mm:8pcs	16mm:7pcs
○ 12mm:8pcs	17mm:7pcs
○ 13mm:8pcs	19mm:7pcs
○ 14mm:8pcs	21mm:7pcs
	22mm:6pcs
	23mm:6pcs
	24mm:6pcs
	27mm:5pcs

**S14240M** ○ Display Stand  
Expositor



# Impact Sockets **5/8"**

HAND  
MANUALES

Z-SERIES  
INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE  
CONSTRUCIÓN

RENEWAL KITS  
MÉJICOS DE REPUESTO CONSTRUCCIÓN

## 15400M 6-point Sockets Vasos Hexagonales



15400M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	 (g)	 (pcs.)	
<b>14</b>	24	35	10	47.5	220	10	* 1
<b>17</b>	27.8	35	12	47.5	225	10	* 1
<b>19</b>	30.3	35	13	47.5	225	10	* 1
<b>21</b>	32.8	35	15	47.5	225	10	* 1
<b>22</b>	34	35	15	47.5	225	10	* 1
<b>23</b>	35.4	35	16	47.5	225	10	* 1
<b>24</b>	36.5	35	16	50.5	245	10	* 1
<b>26</b>	39	35	16	50.5	260	10	* 1

\*1 Pin/O-Ring=1500A/B  P231

## 15400A 6-point Sockets Vasos Hexagonales



15400A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	 (g)	 (pcs.)	
<b>9/16</b>	24	35	10	47.5	220	10	* 1
<b>5/8</b>	26.5	35	11	47.5	225	10	* 1
<b>11/16</b>	27.8	35	12	47.5	225	10	* 1
<b>3/4</b>	30.3	35	13	47.5	225	10	* 1
<b>13/16</b>	32.8	35	15	47.5	225	10	* 1
<b>7/8</b>	34	35	15	47.5	225	10	* 1
<b>15/16</b>	36.5	35	16	50.5	245	10	* 1

\*1 Pin/O-Ring=1500A/B  P231

## 15410M Surface Drive Sockets Vasos Surface Drive (de Contacto Curvo)



15410M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	 (g)	 (pcs.)	
<b>14</b>	24	35	10	47.5	220	10	* 1
<b>17</b>	27.8	35	12	47.5	225	10	* 1
<b>19</b>	30.3	35	13	47.5	225	10	* 1
<b>21</b>	32.8	35	15	47.5	225	10	* 1
<b>22</b>	34	35	15	47.5	225	10	* 1
<b>23</b>	35.4	35	16	47.5	225	10	* 1
<b>24</b>	36.5	35	16	50.5	245	10	* 1
<b>26</b>	39	35	16	50.5	260	10	* 1

\*1 Pin/O-Ring=1500A/B  P231

# 5/8" Impact Sockets

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

15300M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	⊖
14	24	35	14	90	295	10	* 1
17	27.8	35	17	90	325	10	* 1
19	30.3	35	19	90	350	10	* 1
21	32.8	35	21	90	380	10	* 1
22	34	35	22	90	390	10	* 1

\*1 Pin/O-Ring=1500A/B ➔ P231

## 15300M



6-point Deep Sockets  
Vasos Hexagonales Largos



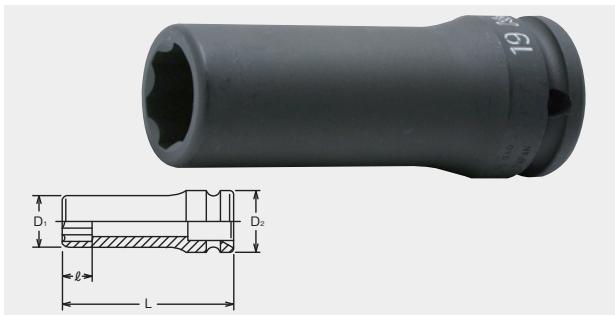
15310M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	⊖
14	24	35	14	90	295	10	* 1
17	27.8	35	17	90	325	10	* 1
19	30.3	35	19	90	350	10	* 1
21	32.8	35	21	90	380	10	* 1
22	34	35	22	90	390	10	* 1

\*1 Pin/O-Ring=1500A/B ➔ P231

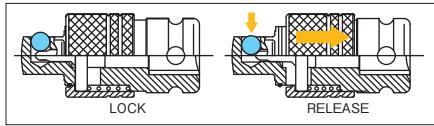
## 15310M



Surface Drive Sockets, deep  
Vasos Surface Drive (de Contacto Curvo) Largos



### Lock & Quick Release



15555AL	L (mm)	⚖️ (g)	📦 (pcs.)	⊖
	70	310	10	* 1

\*1 Pin/O-Ring=1500A/B ➔ P231

15770	L (mm)	⚖️ (g)	📦 (pcs.)	⊖
	88	420	10	* 1

\*1 Pin/O-Ring=1500A/B ➔ P231

15544A	凹 (sq.)	凸 (sq.)	L (mm)	⚖️ (g)	📦 (pcs.)	⊖
15544A	5/8"	1/2"	46	165	10	* 1
15544A-P	5/8"	1/2"	46	165	10	* 1

\*1 Pin/O-Ring=1500A/B ➔ P231

**⚠** Adapting down from bigger square drive to smaller square drive may lead to excessive torque load and possibly cause breakage. Always stay within safe torque of the smaller square drive.

15566A	凹 (sq.)	凸 (sq.)	L (mm)	⚖️ (g)	📦 (pcs.)	⊖
	5/8"	3/4"	48	200	10	* 1

\*1 Pin/O-Ring=1500A/B ➔ P231

## 15555AL

Adaptor (Quick Release)  
Adaptador (Extracción Rápida)



## 15770

Universal Joint  
Articulación Universal



## 15544A

Adaptor  
Adaptador



## 15566A

Adaptor  
Adaptador



# Impact Sockets **3/4"**

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
MIESES DE REPUESTO

## 16400M • 16400A

6-point Sockets  
Vasos Hexagonales



16400A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	⌚
11/16	30	44	12	50	355	5	* 1
3/4	32.5	44	13	50	360	5	* 1
13/16	35	44	15	50	374	5	* 1
7/8	36.3	44	15	50	373	5	* 1
15/16	38.8	44	16	50	370	5	* 1
1	40	44	16	50	374	5	* 1
1. 1/16	42.5	44	16	50	375	5	* 1
1. 1/8	45	44	18	53	412	5	* 1
1. 3/16	46.3	44	18	53	410	5	* 1
1. 1/4	48.8	44	19	53	428	5	* 1
1. 5/16	51.3	44	20	55	490	5	* 1
1. 3/8	52.5	44	20	55	494	5	* 1
1. 7/16	55	44	20	55	526	2	* 1
1. 1/2	56.3	44	20	57	558	2	* 1
1. 9/16	58.8	44	20	57	598	2	* 1
1. 5/8	60	44	22	57	572	2	* 1
1.11/16	62.5	44	23	62	720	2	* 1
1. 3/4	65	44	23	62	757	2	* 1
1.13/16	66.3	44	23	62	755	2	* 1
1. 7/8	68.8	54	23	62	940	2	* 2
1.15/16	70	54	23	62	912	2	* 2
2	72.5	54	30	62	969	2	* 2
2. 1/16	73.8	54	29	62	1011	2	* 2
2. 1/8	76.3	54	29	62	1035	2	* 2
2. 3/16	77.5	54	29	62	1056	2	* 2
2. 1/4	80	54	32	65	1126	2	* 2
2. 5/16	81.3	54	31	65	1163	2	* 2
2. 3/8	83.8	54	31	65	1215	2	* 2

16400M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	⌚
17	30	44	12	50	355	5	* 1
18	31.3	44	13	50	372	5	* 1
19	32.5	44	13	50	360	5	* 1
20	33.8	44	14	50	375	5	* 1
21	35	44	15	50	374	5	* 1
22	36.3	44	15	50	373	5	* 1
23	37.5	44	16	50	373	5	* 1
24	38.8	44	16	50	370	5	* 1
25	40	44	16	50	374	5	* 1
26	41.3	44	16	50	378	5	* 1
27	42.5	44	16	50	375	5	* 1
28	43.8	44	16	50	383	5	* 1
29	45	44	18	53	412	5	* 1
30	46.3	44	18	53	410	5	* 1
31	47.5	44	18	53	426	5	* 1
32	48.8	44	19	53	428	5	* 1
33	50	44	20	55	470	5	* 1
34	51.3	44	20	55	490	5	* 1
35	52.5	44	20	55	494	5	* 1
36	53.8	44	20	55	498	5	* 1
37	55	44	20	55	526	2	* 1
38	56.3	44	20	57	558	2	* 1
39	57.5	44	20	57	579	2	* 1
40	58.8	44	20	57	598	2	* 1
41	60	44	22	57	572	2	* 1
42	61.3	44	22	57	617	2	* 1
43	62.5	44	23	62	720	2	* 1
44	63.8	44	23	62	761	2	* 1
45	65	44	23	62	757	2	* 1
46	66.3	44	23	62	755	2	* 1
47	67.5	54	23	62	805	2	* 2
48	68.8	54	23	62	940	2	* 2
49	70	54	23	62	912	2	* 2
50	71.3	54	30	62	930	2	* 2
52	73.8	54	29	62	1011	2	* 2
54	76.3	54	29	62	1035	2	* 2
55	77.5	54	29	62	1056	2	* 2
56	78.8	54	29	62	1091	2	* 2
57	80	54	32	65	1126	2	* 2
58	81.3	54	31	65	1163	2	* 2
59	82.5	54	31	65	1185	2	* 2
60	83.8	54	31	65	1215	2	* 2

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B

\*2 C-Ring=1801C, Pin/O-Ring=1602A/B

► P230 ~ 231

## 16405M • 16405A

12-point Sockets  
Vasos Bihexagonales



16405A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	⌚
3/4	32.5	44	13	50	360	5	* 1
13/16	35	44	15	50	374	5	* 1
7/8	36.3	44	15	50	373	5	* 1
15/16	38.8	44	16	50	370	5	* 1
1	40	44	16	50	374	5	* 1
1. 1/16	42.5	44	16	50	375	5	* 1
1. 1/8	45	44	18	53	412	5	* 1
1. 3/16	46.3	44	18	53	410	5	* 1
1. 1/4	48.8	44	19	53	428	5	* 1
1. 5/16	51.3	44	20	55	490	5	* 1
1. 3/8	52.5	44	20	55	494	5	* 1
1. 7/16	55	44	20	55	526	2	* 1
1. 1/2	56.3	44	20	57	558	2	* 1
1. 5/8	60	44	22	57	572	2	* 1
1.11/16	62.5	44	23	62	720	2	* 1
1. 3/4	65	44	23	62	757	2	* 2
1. 7/8	68.8	54	23	62	940	2	* 2
2	72.5	54	30	62	969	2	* 2

16405M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	⌚
17	30	44	12	50	355	5	* 1
18	31.3	44	13	50	372	5	* 1
19	32.5	44	13	50	360	5	* 1
20	33.8	44	14	50	375	5	* 1
21	35	44	15	50	374	5	* 1
22	36.3	44	15	50	373	5	* 1
23	37.5	44	16	50	373	5	* 1
24	38.8	44	16	50	370	5	* 1
25	40	44	16	50	374	5	* 1
26	41.3	44	16	50	378	5	* 1
27	42.5	44	16	50	375	5	* 1
28	43.8	44	16	50	383	5	* 1
29	45	44	18	53	412	5	* 1
30	46.3	44	18	53	410	5	* 1
32	48.8	44	19	53	428	5	* 1
33	50	44	20	55	470	5	* 1
34	51.3	44	20	55	490	5	* 1
36	53.8	44	20	55	498	5	* 1
38	56.3	44	20	57	558	2	* 1
41	60	44	22	57	572	2	* 1
42	61.3	44	22	57	617	2	* 1
46	66.3	44	23	62	755	2	* 1
50	71.3	54	30	62	930	2	* 2
52	73.8	54	29	62	1011	2	* 2
55	77.5	54	29	62	1056	2	* 2
60	83.8	54	31	65	1215	2	* 2

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B

\*2 C-Ring=1801C, Pin/O-Ring=1602A/B

► P230 ~ 231

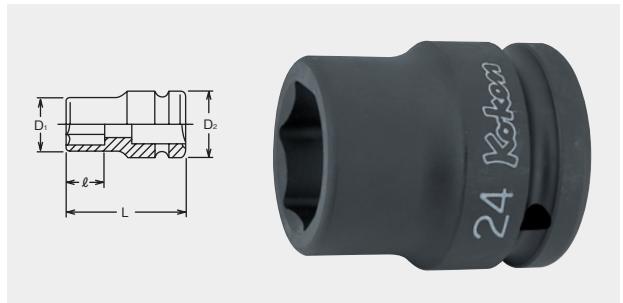
# 3/4"

Impact Sockets

16401M • 16401A



6-point Sockets, Thin Walled  
Vasos Hexagonales de Pared Delgada



16401M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	g (g)	□ (pcs.)	∅
17	28	43	12	50	300	5	* 1
18	29.3	43	13	50	300	5	* 1
19	30.5	43	13	50	300	5	* 1
20	31.8	43	14	50	302	5	* 1
21	33	43	15	50	305	5	* 1
22	34.3	43	15	50	310	5	* 1
23	35.5	43	16	50	315	5	* 1
24	36.8	43	16	50	325	5	* 1
25	38	43	16	50	326	5	* 1
26	39.3	43	16	50	330	5	* 1
27	40.5	43	16	50	340	5	* 1
28	41.8	43	16	50	345	5	* 1
29	43	43	18	53	355	5	* 1
30	44.3	43	18	53	365	5	* 1
31	45.5	43	18	53	375	5	* 1
32	46.8	43	19	53	385	5	* 1
33	48	43	20	55	395	5	* 1
34	49.3	43	20	55	420	5	* 1
35	50.5	43	20	55	430	5	* 1
36	51.8	43	20	55	440	5	* 1
37	53	43	20	55	460	2	* 1
38	54.3	43	20	57	472	2	* 1
40	56.8	43	20	57	525	2	* 1
41	58	43	22	57	555	2	* 1
42	59.3	43	22	57	565	2	* 1
44	61.8	43	23	62	670	2	* 1
46	64.3	43	23	62	710	2	* 1

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B ➔ P230~231

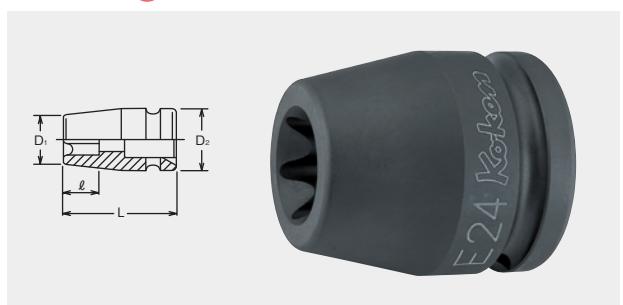
16401A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	g (g)	□ (pcs.)	∅
11/16	28	43	12	50	300	5	* 1
3/4	30.5	43	13	50	300	5	* 1
13/16	33	43	15	50	305	5	* 1
7/8	34.3	43	15	50	310	5	* 1
15/16	36.8	43	16	50	325	5	* 1
1	38	43	16	50	326	5	* 1
1. 1/16	40.5	43	16	50	340	5	* 1
1. 1/8	43	43	18	53	355	5	* 1
1. 3/16	44.3	43	18	53	365	5	* 1
1. 1/4	46.8	43	19	53	385	5	* 1
1. 3/8	50.5	43	20	55	430	5	* 1
1. 7/16	53	43	20	55	460	2	* 1
1. 1/2	54.3	43	20	57	472	2	* 1
1. 9/16	56.8	43	20	57	525	2	* 1
1. 5/8	58	43	22	57	555	2	* 1
1.13/16	64.3	43	23	62	710	2	* 1

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B ➔ P230~231

16425 (E)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	g (g)	□ (pcs.)	∅
E18	26.3	44	13	50	355	5	* 1
E20	28.8	44	14.4	50	370	5	* 1
E22	31.3	44	15.5	50	390	5	* 1
E24	32.5	44	17	50	390	5	* 1
New E26	35	44	18.8	60	460	2	* 1
New E28	36.3	44	25.2	60	465	2	* 1

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B ➔ P230~231

16425 TORX® Sockets  
Vasos TORX®



E	E4	E5	E6	E7	E8	E10	E11	E12	E14	E16	E18	E20	E22	E24
S (ref. mm)	3.83	4.72	5.69	6.17	7.47	9.37	10.03	11.12	12.85	14.71	16.64	18.41	20.24	22.10

# Impact Sockets **3/4"**

HAND  
MANUALES

**16301X**



6-point Semi-Deep Sockets, Thin Walled  
Vasos Hexagonales Medianos de Pared Delgada



16301X (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	∅
17	28	43	17	75	370	2	* 1
18	29.3	43	18	75	380	2	* 1
19	30.5	43	19	75	393	2	* 1
20	31.8	43	20	75	400	2	* 1
21	33	43	21	75	408	2	* 1
22	34.3	43	22	75	418	2	* 1
23	35.5	43	23	75	425	2	* 1
24	36.8	43	24	75	435	2	* 1
25	38	43	25	75	449	2	* 1
26	39.3	43	26	75	455	2	* 1
27	40.5	43	27	75	464	2	* 1
28	41.8	43	28	75	479	2	* 1
29	43	43	29	75	489	2	* 1
30	44.3	43	30	75	506	2	* 1
31	45.5	43	31	75	518	2	* 1
32	46.8	43	32	75	535	2	* 1
35	50.5	43	35	75	585	2	* 1
36	51.8	43	36	75	603	2	* 1
37	53	43	37	75	645	2	* 1
38	54.3	43	38	80	691	2	* 1
40	56.8	43	38	80	725	2	* 1
41	58	43	38	80	755	2	* 1
46	64.3	43	38	80	808	2	* 1

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B ➔ P230~231

**16300M • 16300A**



6-point Sockets, deep  
Vasos Hexagonales Largos



16300M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	∅
17	30	44	17	100	544	2	* 1
18	31.3	44	18	100	642	2	* 1
19	32.5	44	19	100	655	2	* 1
20	33.8	44	20	100	680	2	* 1
21	35	44	21	100	700	2	* 1
22	36.3	44	22	100	700	2	* 1
23	37.5	44	23	100	720	2	* 1
24	38.8	44	24	100	705	2	* 1
25	40	44	25	100	715	2	* 1
26	41.3	44	26	100	760	2	* 1
27	42.5	44	27	100	765	2	* 1
28	43.8	44	28	100	800	2	* 1
29	45	44	29	100	835	2	* 1
30	46.3	44	30	100	840	2	* 1
31	47.5	44	31	100	815	2	* 1
32	48.8	44	32	100	875	2	* 1
33	50	44	33	100	920	2	* 1
34	51.3	44	34	100	950	2	* 1
35	52.5	44	35	100	980	2	* 1
36	53.8	44	36	100	960	2	* 1
37	55	44	37	100	970	2	* 1
38	56.3	44	38	100	990	2	* 1
40	58.8	44	38	100	1060	2	* 1
41	60	44	38	100	1120	2	* 1
42	61.3	44	38	100	1153	2	* 1
43	62.5	44	38	100	1200	2	* 1
46	66.3	44	38	100	1305	2	* 1
50	71.3	54	61	100	1469	2	* 2
55	77.5	54	59	100	1620	2	* 2

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B ➔ P230~231  
\*2 C-Ring=1801C, Pin/O-Ring=1602A/B

16300A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	∅
3/4	32.5	44	19	100	655	2	* 1
13/16	35	44	21	100	700	2	* 1
7/8	36.3	44	22	100	700	2	* 1
15/16	38.8	44	24	100	705	2	* 1
1	40	44	25	100	715	2	* 1
1. 1/16	42.5	44	27	100	765	2	* 1
1. 1/8	45	44	29	100	835	2	* 1
1. 3/16	46.3	44	30	100	840	2	* 1
1. 1/4	48.8	44	32	100	875	2	* 1
1. 5/16	51.3	44	34	100	950	2	* 1
1. 3/8	52.5	44	35	100	980	2	* 1
1. 7/16	55	44	37	100	970	2	* 1
1. 1/2	56.3	44	38	100	990	2	* 1
1. 9/16	58.8	44	38	100	1060	2	* 1
1. 5/8	60	44	38	100	1120	2	* 1
1.11/16	62.5	44	38	100	1200	2	* 1
1. 3/4	65	44	38	100	1284	2	* 1
1.13/16	66.3	44	38	100	1305	2	* 1
1. 7/8	68.8	54	38	100	1561	2	* 2
2	72.5	54	60	100	1516	2	* 2

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B  
\*2 C-Ring=1801C, Pin/O-Ring=1602A/B ➔ P230~231

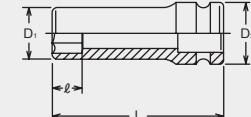
# 3/4"

Impact Sockets

## 16301M • 16301A



6-point Deep Sockets, Thin Walled  
Vasos Hexagonales Largos de Pared Delgada



16301M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	◇ (pcs.)	∅
17	28	43	17	100	470	2	* 1
18	29.3	43	18	100	475	2	* 1
19	30.5	43	19	100	480	2	* 1
20	31.8	43	20	100	491	2	* 1
21	33	43	21	100	505	2	* 1
22	34.3	43	22	100	528	2	* 1
23	35.5	43	23	100	542	2	* 1
24	36.8	43	24	100	560	2	* 1
25	38	43	25	100	581	2	* 1
26	39.3	43	26	100	600	2	* 1
27	40.5	43	27	100	610	2	* 1
28	41.8	43	28	100	639	2	* 1
29	43	43	29	100	650	2	* 1
30	44.3	43	30	100	670	2	* 1
31	45.5	43	31	100	690	2	* 1
32	46.8	43	32	100	715	2	* 1
33	48	43	33	100	730	2	* 1
34	49.3	43	34	100	750	2	* 1
35	50.5	43	35	100	785	2	* 1
36	51.8	43	36	100	830	2	* 1
37	53	43	37	100	850	2	* 1
38	54.3	43	38	100	885	2	* 1
40	56.8	43	38	100	925	2	* 1
41	58	43	38	100	970	2	* 1
42	59.3	43	38	100	990	2	* 1
46	64.3	43	38	100	1150	2	* 1

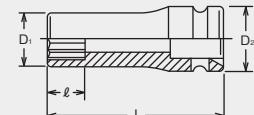
\*1 C-Ring=1600C, Pin/O-Ring=1601A/B ➔ P230~231

16301A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	◇ (pcs.)	∅
11/16	28	43	17	100	470	2	* 1
3/4	30.5	43	19	100	480	2	* 1
13/16	33	43	21	100	505	2	* 1
7/8	34.3	43	22	100	528	2	* 1
15/16	36.8	43	24	100	560	2	* 1
1	38	43	25	100	581	2	* 1
1. 1/16	40.5	43	27	100	610	2	* 1
1. 1/8	43	43	29	100	650	2	* 1
1. 3/16	44.3	43	30	100	670	2	* 1
1. 1/4	46.8	43	32	100	715	2	* 1
1. 3/8	50.5	43	35	100	785	2	* 1
1. 7/16	53	43	37	100	850	2	* 1
1. 1/2	54.3	43	38	100	885	2	* 1
1. 9/16	56.8	43	38	100	925	2	* 1
1. 5/8	58	43	38	100	970	2	* 1
1.13/16	64.3	43	38	100	1150	2	* 1

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B ➔ P230~231

## 16305M

12-point Sockets, deep  
Vasos Bihexagonales Largos

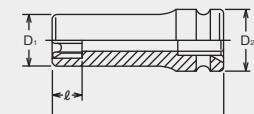


16305M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	◇ (pcs.)	∅
17	30	44	17	100	544	2	* 1
19	32.5	44	19	100	655	2	* 1
21	35	44	21	100	700	2	* 1
22	36.3	44	22	100	700	2	* 1
23	37.5	44	23	100	720	2	* 1
24	38.8	44	24	100	715	2	* 1
26	41.3	44	26	100	760	2	* 1
27	42.5	44	27	100	765	2	* 1
28	43.8	44	28	100	800	2	* 1
29	45	44	29	100	835	2	* 1
30	46.3	44	30	100	840	2	* 1
32	48.8	44	32	100	875	2	* 1
35	52.5	44	35	100	980	2	* 1
36	53.8	44	36	100	960	2	* 1
38	56.3	44	38	100	990	2	* 1
41	60	44	38	100	1120	2	* 1
46	66.3	44	38	100	1305	2	* 1

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B ➔ P230~231

## 16325

TORX® Deep Sockets  
Vasos TORX® Largos



16325 (E)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	◇ (pcs.)	∅
E18	26.3	44	13	100	520	2	* 1
E20	28.8	44	14.4	100	560	2	* 1
E22	31.3	44	15.5	100	600	2	* 1
E24	32.5	44	17	100	630	2	* 1

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B ➔ P230~231

# Impact Sockets **3/4"**

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM

DE TITANIO

ACCESSORIES

ACCESSORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECANICOS

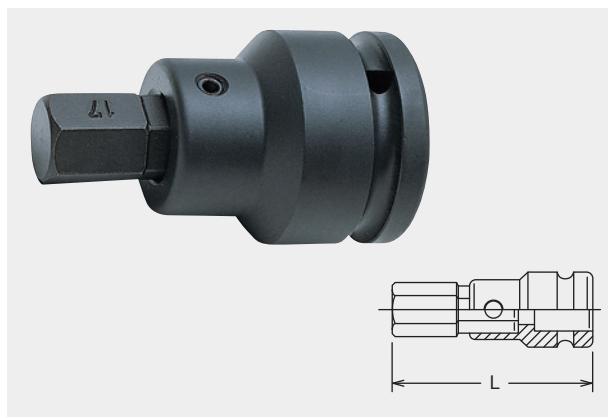
CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
MIEGOS DE REPUESTO

## 16106-16



Hex bit sockets  
Vasos con Punta Hexagonal



16106.16 (mm)	L (mm)		(g)		(pce.)	
10	76		416		1	* 1
12	76		422		1	* 1
13	76		426		1	* 1
14	76		430		1	* 1
16	76		439		1	* 1
17	76		443		1	* 1
18	76		448		1	* 1
19	76		450		1	* 1
22	76		473		1	* 1

16106.16 (inch)	L (mm)		(g)		(pce.)	
1/2	76		426		1	* 1
9/16	76		430		1	* 1
5/8	76		439		1	* 1
3/4	76		450		1	* 1

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B → P230~231

## 16106



Bit Holder, For 107-16  
Porta Punta



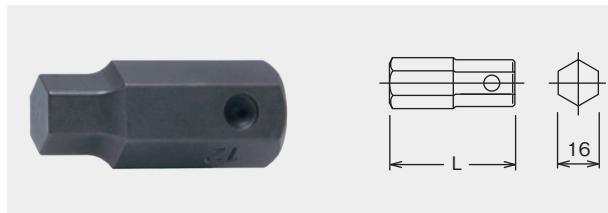
16106	D (mm)	L (mm)		(g)		(pcs.)	
16106	32	52		370		2	* 1

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B → P230~231

## 107-16



Bits for Inhex Screws  
Puntas para Tornillos Inhex



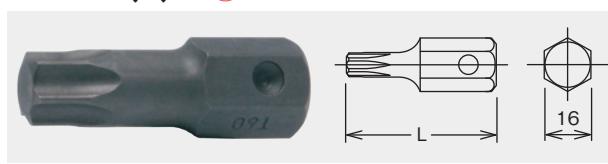
107.16 (mm)	L (mm)		(g)		(pcs.)	
10	40		46		10	
12	40		52		10	
13	40		56		10	
14	40		60		10	
16	40		69		10	
17	40		73		10	
18	40		78		10	
19	40		80		10	
22	40		97		10	

107.16 (inch)	L (mm)		(g)		(p.cs.)	
1/2	40		56		10	
9/16	40		60		10	
5/8	40		69		10	
3/4	40		80		10	

## 107-16 (T)



TORX® Bits  
Puntas TORX®



107.16 (T)	L (mm)		(g)		(p.cs.)	
T55	50		57		10	
T60	50		64		10	
T70	50		73		10	

## 107-16 (XZN)



XZN Bits  
Puntas XZN



107.16 (XZN)	L (mm)		(g)		(p.cs.)	
M14	60		83		10	
M16	60		93		10	
M18	60		103		10	

# 3/4" Impact Sockets

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

16107.22 (mm)	L (mm)		(g)		(pce.)	
19	88		670		1	* 1
22	88		692		1	* 1
24	88		706		1	* 1
27	88		730		1	* 1
30	88		757		1	* 1
32	93		783		1	* 1

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B ➔ P230~231



16107	D (mm)	L (mm)		(g)		(pce.)	
16107	44	60		530		2	* 1

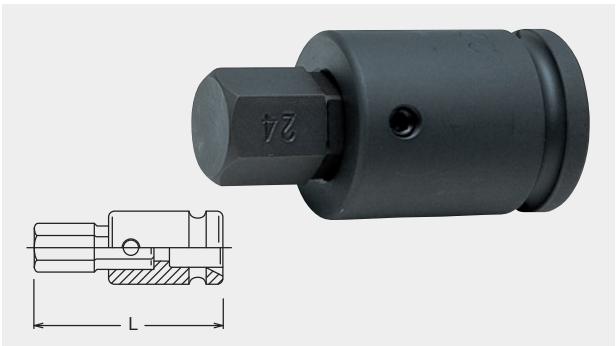
\*1 C-Ring=1600C, Pin/O-Ring=1601A/B ➔ P230~231

107.22 (mm)	L (mm)		(g)		(pce.)
17	50		120		10
19	50		140		10
22	50		162		10
24	50		176		10
27	50		200		10
30	50		227		10
32	55		243		10

107.22 (T)	L (mm)		(g)		(pce.)
T 80	60		141		10
T 90	60		155		10
T100	60		170		10

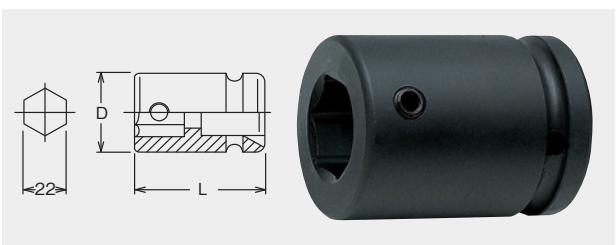
## 16107-22

Hex bit sockets  
Vasos con Punta Hexagonal



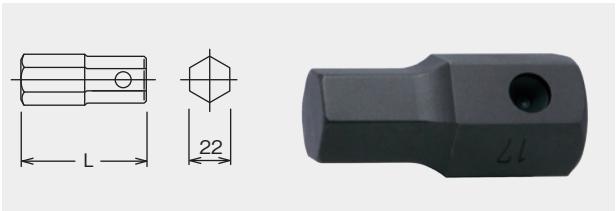
## 16107

Bit Holder  
Porta Punta



## 107-22

Bits for Inhex Screws  
Puntas para Tornillos Inhex



## 107-22 (T)

TORX® Bits  
Puntas TORX®



## 16760-150 · -175 · -200 · -250 · -330

Extension Bars  
Alargaderas



16760	D (mm)	L (mm)		(g)		(pce.)	
New 150	44	150		775		1	* 1
175	44	175		870		1	* 1
New 200	44	200		955		1	* 1
250	44	250		1150		1	* 1
330	44	330		1460		1	* 1

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B ➔ P230~231

**TORX®** is a registered trademark of Acument Intellectual Properties, LLC.  
**TORX®** es una marca registrada de Acument Intellectual Properties, LLC.

Koken TOOL CO., LTD.

# Impact Sockets **3/4"**

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

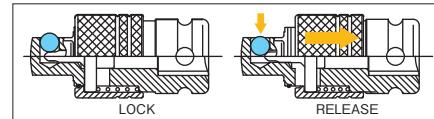
RENEWAL KITS  
MÉGOS DE REPUESTO

## 16666AL

Adaptor (Quick Release)  
Adaptador (Extracción Rápida)



Lock & Quick Release

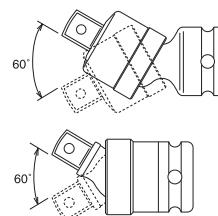


	L (mm)	(g)	(pce.)	€
16666AL	75	660	2	* 1

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B → P230~231

## 16770

Universal Joint  
Articulación Universal



## 16771

Universal Joint  
Articulación Universal



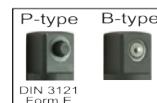
	L (mm)	(g)	(pce.)	€
16770	106	790	1	* 1
16771	95	720	1	* 1

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B → P230~231

## 16644A · 16655A

Adaptors  
Adaptadores

No Warranty  
Sin Garantía



	□ (sq.)	□ (sq.)	L (mm)	(g)	(pce.)	€
16644A	3/4"	1/2"	52	310	1	* 1
16644A-B	3/4"	1/2"	52	310	1	* 1
16644A-P	3/4"	1/2"	52	310	1	* 1

	□ (sq.)	□ (sq.)	L (mm)	(g)	(pce.)	€
16655A	3/4"	5/8"	53	336	1	* 1

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B → P230~231

**⚠** Adapting down to a smaller square drive may lead to excessive torque load and possibly cause breakage. Always stay within limit torque of the smaller square drive.

## 16688A

Adapter  
Adaptador

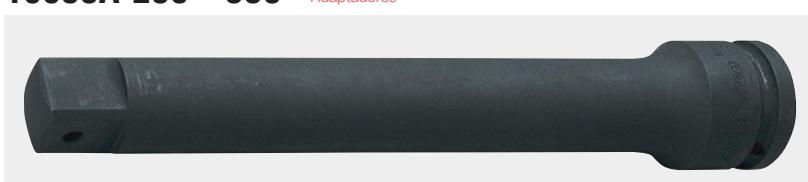


	□ (sq.)	□ (sq.)	L (mm)	(g)	(pce.)	€
16688A	3/4"	1"	62	435	1	* 1
16688A-250	3/4"	1"	250	1400	1	* 1
16688A-330	3/4"	1"	330	1880	1	* 1

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B → P230~231

## 16688A-250 · -330

Adaptors  
Adaptadores



# 3/4" Impact Sockets

**16201M • 16201A**



Socket Sets  
Juegos de Vasos



New	<b>16201M</b>	13 Pieces Set/ $\Delta\wedge$ =6,800g
METAL CASE: W320×H110×T70mm		
Sockets		
○	<b>16400M</b> 6-pt. Sockets	19, 21, 22, 23, 24, 26, 27, 30, 32, 33, 36, 38, 41

New	<b>16201A</b>	11 Pieces Set/ $\Delta\wedge$ =6,000g
METAL CASE: W320×H110×T70mm		
Sockets		
○	<b>16400A</b> 6-pt. Sockets	3/4, 7/8, 15/16, 1, 1,1/16, 1,1/8, 1,1/4, 1,5/16, 1,3/8, 1,7/16, 1,1/2

**16201M-01 • 16201A-01**



New	<b>16201M-01</b>	13 Pieces Set/ $\Delta\wedge$ =6,000g
METAL CASE: W320×H110×T70mm		
Sockets		
○	<b>16401M</b> 6-pt. Sockets, Thin-walled	19, 21, 22, 23, 24, 26, 27, 30, 32, 33, 36, 38, 41

New	<b>16201A-01</b>	11 Pieces Set/ $\Delta\wedge$ =5,400g
METAL CASE: W320×H110×T70mm		
Sockets		
○	<b>16401A</b> 6-pt. Sockets, Thin-walled	3/4, 7/8, 15/16, 1, 1,1/16, 1,1/8, 1,1/4, 1,5/16, 1,3/8, 1,7/16, 1,1/2

**16245M**



Socket Sets  
Juegos de Vasos



New	<b>16245M</b>	17 Pieces Set/ $\Delta\wedge$ =12,000g
METAL CASE: W580×H200×T85mm		
Sockets	Accessories	

○	<b>16400M</b> 6-pt. Sockets	16760-175
○	19, 21, 22, 24, 27, 29, 30, 32, 33, 35, 36, 38, 41, 46, 50	16760-330

HAND  
MANUALES

Z-SERIES  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

Koken  
TOOL CO., LTD.

# Impact Sockets 1 "

HAND  
MANUALES

Z-SERIES  
INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE  
CONSTRUCCIÓN

RENEWAL KITS

MIEGOS DE REPUESTO  
CONSTRUCCIÓN

**18400M • 18400A**

6-point Sockets  
Vasos Hexagonales



18400M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	磅 (g)	(pcs.)	◎
17	32.8	54	12	57	579	2	* 1
19	35.3	54	13	57	590	2	* 1
21	37.8	54	15	57	605	2	* 1
22	39	54	15	57	620	2	* 1
23	40.3	54	16	57	615	2	* 1
24	41.5	54	16	57	627	2	* 1
25	42.8	54	16	57	620	2	* 1
26	44	54	16	57	640	2	* 1
27	45.3	54	16	57	627	2	* 1
28	46.5	54	16	57	640	2	* 1
29	47.8	54	18	57	657	2	* 1
30	49	54	21	62	657	2	* 1
31	50.3	54	21	62	687	2	* 1
32	51.5	54	21	62	685	2	* 1
33	52.8	54	21	62	685	2	* 1
34	54	54	21	62	690	2	* 1
35	55.3	54	21	62	710	2	* 1
36	56.5	54	21	62	712	2	* 1
37	57.8	54	21	62	735	2	* 1
38	59	54	25	66	720	2	* 1
40	61.5	54	25	66	850	2	* 1
41	62.8	54	25	66	850	2	* 1
42	64	54	25	66	905	2	* 1
43	65.3	54	27	68	977	2	* 1
44	66.5	54	27	68	970	2	* 1
45	67.8	54	27	68	963	2	* 1
46	69	54	29	70	1010	2	* 1
47	70.3	54	36	70	997	2	* 1
48	71.5	54	35	70	990	2	* 1
50	74	54	35	70	1065	2	* 1
52	76.5	54	40	75	1185	2	* 1
54	79	54	40	75	1252	2	* 1
55	80.3	54	39	75	1260	2	* 1
56	81.5	54	39	75	1277	2	* 1
58	84	54	39	75	1340	2	* 1
60	86.5	54	39	75	1400	2	* 1
62	89	54	38	75	1410	2	* 1
63	90.3	54	38	75	1383	2	* 1
65	92.8	54	38	75	1630	2	* 1
67	95.3	54	38	75	1580	2	* 1
68	96.5	54	37	75	1583	1	* 1
70	99	54	37	75	1625	1	* 1
75	105.3	86	37	80	2675	1	* 2
80	111.5	86	41	85	2996	1	* 2
85	117.8	86	37	90	3378	1	* 2
90	124	86	40	95	3871	1	* 2
95	130.3	86	43	100	4500	1	* 2

\*1 C-Ring=1801C, Pin/O-Ring=1801A/B

→ P230 ~ 231

\*2 C-Ring=1802C, Pin/O-Ring=1802A/B

18400A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	磅 (g)	(pcs.)	◎
11/16	32.8	54	12	57	579	2	* 1
3/4	35.3	54	13	57	590	2	* 1
13/16	37.8	54	15	57	605	2	* 1
7/8	39	54	15	57	620	2	* 1
15/16	41.5	54	16	57	627	2	* 1
1	42.8	54	16	57	620	2	* 1
1. 1/16	45.3	54	16	57	627	2	* 1
1. 1/8	47.8	54	18	57	657	2	* 1
1. 3/16	49	54	21	62	657	2	* 1
1. 1/4	51.5	54	21	62	685	2	* 1
1. 5/16	54	54	21	62	690	2	* 1
1. 3/8	55.3	54	21	62	710	2	* 1
1. 7/16	57.8	54	21	62	735	2	* 1
1. 1/2	59	54	25	66	720	2	* 1
1. 9/16	61.5	54	25	66	850	2	* 1
1. 5/8	62.8	54	25	66	850	2	* 1
1.11/16	65.3	54	27	68	977	2	* 1
1. 3/4	67.8	54	27	68	963	2	* 1
1.13/16	69	54	29	70	1010	2	* 1
1. 7/8	71.5	54	35	70	990	2	* 1
1.15/16	72.8	54	35	70	1000	2	* 1
2	75.3	54	35	70	1060	2	* 1
2. 1/16	76.5	54	40	75	1185	2	* 1
2. 1/8	79	54	40	75	1252	2	* 1
2. 3/16	80.3	54	39	75	1260	2	* 1
2. 1/4	82.8	54	39	75	1337	2	* 1
2. 5/16	84	54	39	75	1340	2	* 1
2. 3/8	86.5	54	39	75	1400	2	* 1
2. 7/16	89	54	38	75	1410	2	* 1
2. 1/2	91.5	54	38	75	1498	2	* 1
2. 9/16	92.8	54	38	75	1630	2	* 1
2. 5/8	95.3	54	38	75	1580	2	* 1
2.11/16	96.5	54	37	75	1583	1	* 1
2. 3/4	99	54	37	75	1625	1	* 1
2.13/16	101.5	86	37	80	2705	1	* 2
2. 7/8	102.8	86	38	80	2629	1	* 2
2.15/16	105.3	86	37	80	2675	1	* 2
3	106.5	86	37	80	2705	1	* 2
3. 1/16	109	86	42	85	2967	1	* 2
3. 1/8	111.5	86	41	85	2996	1	* 2
3. 1/4	115.3	86	44	90	3328	1	* 2
3. 3/8	119	86	36	90	3389	1	* 2
3. 1/2	124	86	40	95	3871	1	* 2

\*1 C-Ring=1801C, Pin/O-Ring=1801A/B

\*2 C-Ring=1802C, Pin/O-Ring=1802A/B

→ P230 ~ 231



18401M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	❖ (pcs.)	∅
17	29.8	53	12	57	481	2	* 1
19	32.3	53	13	57	492	2	* 1
21	34.8	53	15	57	512	2	* 1
22	36	53	15	57	520	2	* 1
24	38.5	53	16	57	520	2	* 1
27	42.3	53	16	57	540	2	* 1
30	46	53	21	62	572	2	* 1
32	48.5	53	21	62	600	2	* 1
33	49.8	53	21	62	613	2	* 1
35	52.3	53	21	62	630	2	* 1
36	53.5	53	21	62	635	2	* 1
38	56	53	25	66	705	2	* 1
41	59.8	53	25	66	740	2	* 1
46	66	53	29	70	900	2	* 1
50	71	53	35	70	940	2	* 1

18401A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	❖ (pcs.)	∅
11/16	29.8	53	12	57	481	2	* 1
3/4	32.3	53	13	57	492	2	* 1
13/16	34.8	53	15	57	512	2	* 1
7/8	36	53	15	57	520	2	* 1
15/16	38.5	53	16	57	520	2	* 1
1. 1/16	42.3	53	16	57	540	2	* 1
1. 3/16	46	53	21	62	572	2	* 1
1. 1/4	48.5	53	21	62	600	2	* 1
1. 3/8	52.3	53	21	62	630	2	* 1
1. 1/2	56	53	25	66	705	2	* 1
1. 5/8	59.8	53	25	66	740	2	* 1
1.13/16	66	53	29	70	900	2	* 1

\*1 C-Ring=1801C, Pin/O-Ring=1801A/B ➔ P230~231

18405M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	❖ (pcs.)	∅
27	45.3	54	16	57	607	2	* 1
30	49	54	21	62	657	2	* 1
32	51.5	54	21	62	685	2	* 1
33	52.8	54	21	62	690	2	* 1
35	55.3	54	21	62	690	2	* 1
36	56.5	54	21	62	692	2	* 1
38	59	54	25	66	700	2	* 1
40	61.5	54	25	66	830	2	* 1
46	69	54	29	70	990	2	* 1
50	74	54	35	70	1021	2	* 1
55	80.3	54	39	75	1234	2	* 1
56	81.5	54	39	75	1250	2	* 1
60	86.5	54	39	75	1400	2	* 1
65	92.8	54	38	75	1600	2	* 1

18405A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	❖ (pcs.)	∅
3/4	35.3	54	13	57	590	2	* 1
7/8	39	54	15	57	620	2	* 1
1	42.8	54	16	57	620	2	* 1
1. 1/8	47.8	54	18	57	660	2	* 1
1. 3/16	49	54	21	62	660	2	* 1
1. 1/4	51.5	54	21	62	690	2	* 1
1. 3/8	55.3	54	21	62	710	2	* 1
1. 7/16	57.8	54	21	62	735	2	* 1
1. 1/2	59	54	25	66	720	2	* 1
1. 3/4	67.8	54	27	68	970	2	* 1
1.15/16	72.8	54	35	70	1000	2	* 1

\*1 C-Ring=1801C, Pin/O-Ring=1801A/B ➔ P230~231

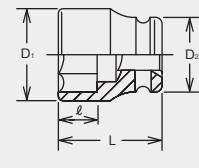
18301X (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	❖ (pcs.)	∅
17	29.8	53	17	80	635	2	* 1
19	32.3	53	19	80	655	2	* 1
21	34.8	53	21	80	680	2	* 1
22	36	53	22	80	686	2	* 1
24	38.5	53	24	80	693	2	* 1
27	42.3	53	27	80	745	2	* 1
30	46	53	30	80	761	2	* 1
32	48.5	53	32	85	770	2	* 1
33	49.8	53	33	85	781	2	* 1
35	52.3	53	35	85	800	2	* 1
36	53.5	53	36	85	808	2	* 1
38	56	53	38	85	865	2	* 1
41	59.8	53	38	85	937	2	* 1
46	66	53	38	85	1032	2	* 1
50	71	53	55	85	1220	2	* 1

\*1 C-Ring=1801C, Pin/O-Ring=1801A/B ➔ P230~231

## 18401M • 18401A



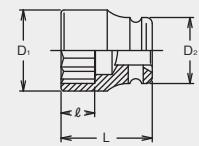
6-point Sockets, Thin Walled  
Vasos Hexagonales de Pared Delgada



## 18405M • 18405A



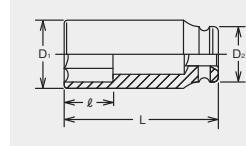
12-point Sockets  
Vasos Bihexagonales



## 18301X



6-point Semi-Deep Sockets, Thin Walled  
Vasos Hexagonales Medianos de Pared Delgada



# Impact Sockets 1 "

HAND  
MANUALES

Z-SERIES  
INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

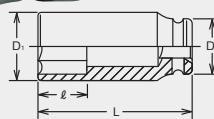
AUTOMOTIVE

RENEWAL KITS  
MÉJICOS DE REPUESTO

CONSTRUCTION  
CONSTRUCCIÓN

## 18300M • 18300A

6-point Sockets, deep  
Vasos Hexagonales Largos



18300M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	ACCESORIES ACCESSORIOS	MULTIPLIER MULTIPLICADOR	TITANIUM DE TITANIO
19	35.3	54	19	108	1010	2	* 1	
22	39	54	22	108	1010	2	* 1	
23	40.3	54	26	108	1063	2	* 1	
24	41.5	54	24	108	1060	2	* 1	
25	42.8	54	25	108	1085	2	* 1	
26	44	54	26	108	1133	2	* 1	
27	45.3	54	27	108	1125	2	* 1	
28	46.5	54	28	108	1140	2	* 1	
29	47.8	54	29	108	1120	2	* 1	
30	49	54	30	108	1179	2	* 1	
31	50.3	54	31	108	1125	2	* 1	
32	51.5	54	32	108	1200	2	* 1	
33	52.8	54	33	108	1200	2	* 1	
34	54	54	34	108	1280	2	* 1	
35	55.3	54	35	108	1300	2	* 1	
36	56.5	54	36	108	1280	2	* 1	
37	57.8	54	37	108	1320	2	* 1	
38	59	54	38	108	1423	2	* 1	
40	61.5	54	38	108	1415	2	* 1	
41	62.8	54	38	108	1450	2	* 1	
42	64	54	38	108	1550	2	* 1	
44	66.5	54	38	108	1636	2	* 1	
45	67.8	54	38	108	1660	2	* 1	
46	69	54	38	108	1680	2	* 1	
48	71.5	54	67	108	1500	2	* 1	
50	74	54	66	108	1650	2	* 1	
52	76.5	54	65	108	1770	2	* 1	
55	80.3	54	63	108	1855	2	* 1	
60	86.5	54	60	108	2047	2	* 1	
65	92.8	54	58	108	2310	2	* 1	
70	99	54	55	108	2440	1	* 1	
75	105.3	86	52	108	3646	1	* 2	
80	111.5	86	49	108	4039	1	* 2	
85	117.8	86	59	108	4000	1	* 2	
90	124	86	57	108	4200	1	* 2	
95	130.3	86	55	108	4400	1	* 2	

\*1 C-Ring=1801C, Pin/O-Ring=1801A/B

➡ P230~231

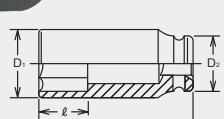
\*2 C-Ring=1802C, Pin/O-Ring=1802A/B

18300A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	(pcs.)	⌚
11/16	32.8	54	17	108	978	2	* 1
3/4	35.3	54	19	108	1010	2	* 1
7/8	39	54	22	108	1010	2	* 1
15/16	41.5	54	24	108	1060	2	* 1
1	42.8	54	25	108	1085	2	* 1
1. 1/16	45.3	54	27	108	1125	2	* 1
1. 1/8	47.8	54	29	108	1120	2	* 1
1. 3/16	49	54	30	108	1179	2	* 1
1. 1/4	51.5	54	32	108	1200	2	* 1
1. 5/16	54	54	34	108	1280	2	* 1
1. 3/8	55.3	54	35	108	1300	2	* 1
1. 7/16	57.8	54	37	108	1320	2	* 1
1. 1/2	59	54	38	108	1423	2	* 1
1. 9/16	61.5	54	38	108	1415	2	* 1
1. 5/8	62.8	54	38	108	1450	2	* 1
1.11/16	65.3	54	38	108	1577	2	* 1
1. 3/4	67.8	54	38	108	1660	2	* 1
1.13/16	69	54	38	108	1680	2	* 1
1. 7/8	71.5	54	67	108	1500	2	* 1
1.15/16	72.8	54	67	108	1570	2	* 1
2	75.3	54	66	108	1605	2	* 1
2. 1/16	76.5	54	65	108	1770	2	* 1
2. 1/8	79	54	64	108	1812	2	* 1
2. 3/16	80.3	54	63	108	1855	2	* 1
2. 1/4	82.8	54	62	108	1916	2	* 1
2. 5/16	84	54	61	108	1987	2	* 1
2. 3/8	86.5	54	60	108	2047	2	* 1
2. 7/16	89	54	59	108	2041	2	* 1
2. 1/2	91.5	54	58	108	2250	2	* 1
2. 9/16	92.8	54	58	108	2310	2	* 1
2. 5/8	95.3	54	56	108	2370	1	* 1
2. 3/4	99	54	55	108	2440	1	* 1
2. 7/8	102.8	86	53	108	3600	1	* 2
2.15/16	105.3	86	52	108	3646	1	* 2
3	106.5	86	51	108	3677	1	* 2
3. 1/16	109	86	50	108	3939	1	* 2
3. 1/8	111.5	86	49	108	4039	1	* 2
3. 3/16	112.8	86	48	108	4170	1	* 2

18301M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	(pcs.)	⌚
17	29.8	53	17	108	692	2	* 1
19	32.3	53	19	108	725	2	* 1
21	34.8	53	21	108	750	2	* 1
22	36	53	22	108	770	2	* 1
24	38.5	53	24	108	800	2	* 1
27	42.3	53	27	108	860	2	* 1
30	46	53	30	108	910	2	* 1
32	48.5	53	32	108	970	2	* 1
33	49.8	53	33	108	980	2	* 1
35	52.3	53	35	108	986	2	* 1
36	53.5	53	36	108	992	2	* 1
38	56	53	38	108	1025	2	* 1
41	59.8	53	38	108	1213	2	* 1
46	66	53	38	108	1400	2	* 1
50	71	53	38	108	1435	2	* 1

18301A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	(pcs.)	⌚
11/16	29.8	53	17	108	692	2	* 1
3/4	32.3	53	19	108	725	2	* 1
13/16	34.8	53	21	108	750	2	* 1
7/8	36	53	22	108	770	2	* 1
15/16	38.5	53	24	108	800	2	* 1
1. 1/16	42.3	53	27	108	860	2	* 1
1. 3/16	46	53	30	108	910	2	* 1
1. 1/4	48.5	53	32	108	970	2	* 1
1. 3/8	52.3	53	35	108	986	2	* 1
1. 1/2	56	53	38	108	1025	2	* 1
1. 5/8	59.8	53	38	108	1213	2	* 1
1.13/16	66	53	38	108	1400	2	* 1

\*1 C-Ring=1801C, Pin/O-Ring=1801A/B ➡ P230~231



1 "

Impact Sockets

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALESTITANIUM  
DE TITANIOMULTIPLIER  
MULTIPLICADORACCESSORIES  
ACCESORIOSSCREWDRIVERS  
DESTORNILLADORESIMPACT  
DE IMPACTOPOWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓNRENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

18106.16 (mm)	L (mm)		(g)		(pce.)	
10	92		686		1	* 1
12	92		692		1	* 1
13	92		696		1	* 1
14	92		700		1	* 1
16	92		709		1	* 1
17	92		713		1	* 1
18	92		718		1	* 1
19	92		764		1	* 1
22	92		781		1	* 1

18106.16 (inch)	L (mm)		(g)		(pce.)	
1/2	92		696		1	* 1
9/16	92		700		1	* 1
5/8	92		709		1	* 1
3/4	92		764		1	* 1

\*1 C-Ring=1801C, Pin/O-Ring=1801A/B → P230~231

18106	D (mm)	L (mm)		(g)		(pcs.)	
18106	32	68		640		2	* 1

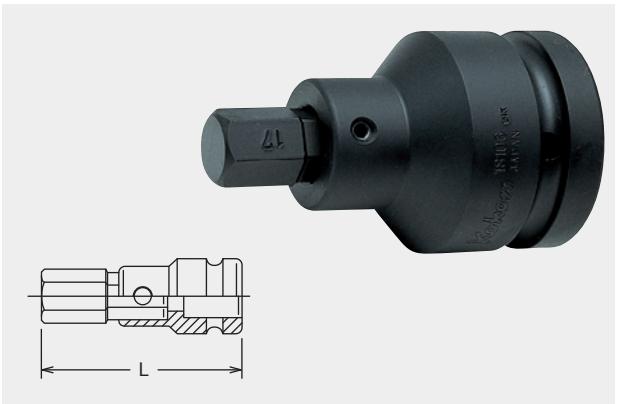
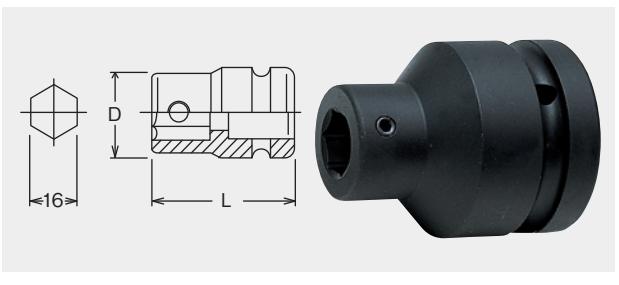
\*1 C-Ring=1801C, Pin/O-Ring=1801A/B → P230~231

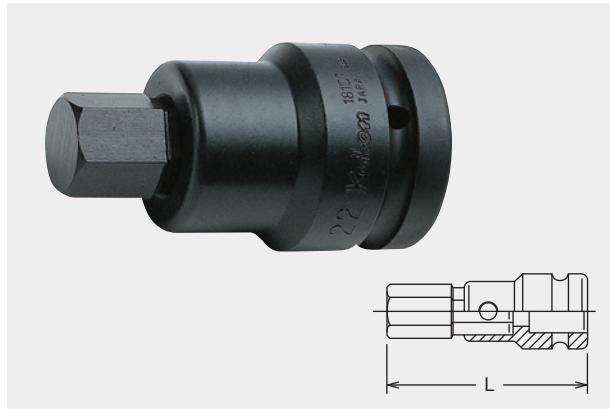
107.16 (mm)	L (mm)		(g)		(pcs.)
10	40		46		10
12	40		52		10
13	40		56		10
14	40		60		10
16	40		69		10
17	40		73		10
18	40		78		10
19	40		80		10
22	40		97		10

107.16 (inch)	L (mm)		(g)		(pcs.)
1/2	40		56		10
9/16	40		60		10
5/8	40		69		10
3/4	40		80		10

107.16 (T)	L (mm)		(g)		(pcs.)
T55	50		57		10
T60	50		64		10
T70	50		73		10

107.16 (XZN)	L (mm)		(g)		(pcs.)
M14	60		83		10
M16	60		93		10
M18	60		103		10

**18106-16**Hex Bit Sockets  
Vasos con Punta Hexagonal**18106**Bit Holder  
Porta Punta**107-16**Bits for Inhex Screws  
Puntas para Tornillos Inhex**107-16 (T)**TORX® Bits  
Puntas TORX®**107-16 (XZN)**XZN Bits  
Puntas XZN

**18107-22**Hex Bit Sockets  
Vasos con Punta Hexagonal

18107.22 (mm)	L (mm)	 (g)	 (pce.)	
19	98	910	1	* 1
22	98	932	1	* 1
24	98	946	1	* 1
27	98	986	1	* 1
30	98	1008	1	* 1
32	103	1029	1	* 1

\*1 C-Ring=1801C, Pin/O-Ring=1801A/B ➔ P230~231

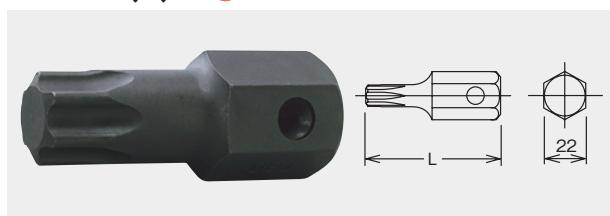
**18107**Bit Holder  
Porta Punta

	D (mm)	L (mm)	 (g)	 (pce.)	
18107	44	70	770	2	* 1

\*1 C-Ring=1801C, Pin/O-Ring=1801A/B ➔ P230~231

**107-22**Bits for Inhex Screws  
Puntas para Tomillos Inhex

107.22 (mm)	L (mm)	 (g)	 (pce.)
17	50	120	10
19	50	140	10
22	50	162	10
24	50	176	10
27	50	200	10
30	50	227	10
32	55	243	10

**107-22 (T)**TORX® Bits  
Puntas TORX®

107.22 (T)	L (mm)	 (g)	 (pce.)
T 80	60	141	10
T 90	60	155	10
T100	60	170	10

1 "

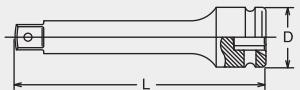
Impact Sockets

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALESTITANIUM  
DE TITANIOMULTIPLIER  
MULTIPLICADORACCESSORIES  
ACCESORIOSSCREWDRIVERS  
DESTORNILLADORESIMPACT  
DE IMPACTOPOWER  
MECÁNICOS

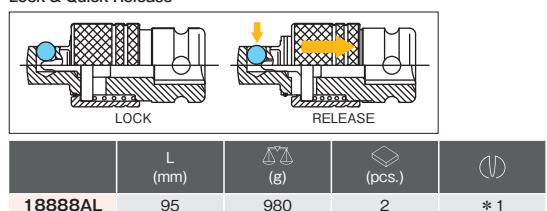
AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN  
RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO**18760-175 · -200 · -250 · -330**Extension Bars  
Alargaderas

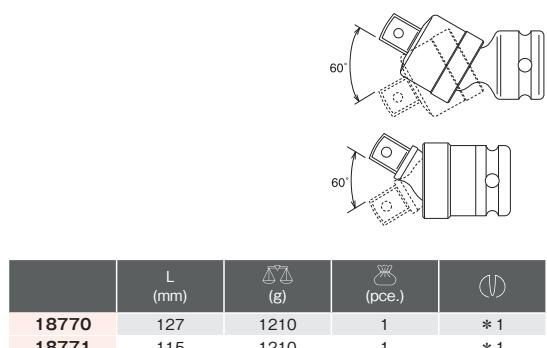
18760	D (mm)	L (mm)	$\Delta\delta$ (g)	(pce.)	Ø
175	54	175	1400	1	* 1
New 200	54	200	1580	1	* 1
250	54	250	1885	1	* 1
330	54	330	2380	1	* 1

\*1 C-Ring=1801C, Pin/O-Ring=1801A/B ➔ P230~231

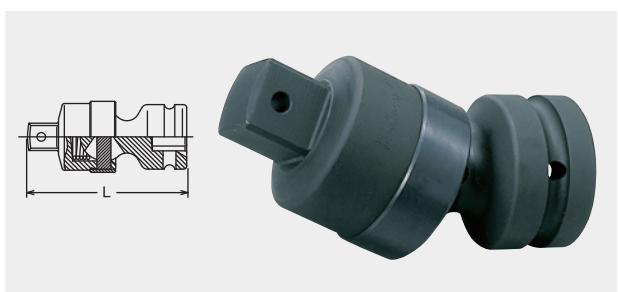
## Lock &amp; Quick Release

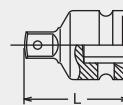


\*1 C-Ring=1801C, Pin/O-Ring=1801A/B ➔ P230~231

**18888AL**Adaptor (Quick Release)  
Adaptador (Extracción Rápida)

\*1 C-Ring=1801C, Pin/O-Ring=1801A/B ➔ P230~231

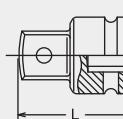
**18770**Universal Joint  
Articulación Universal**18771**Universal Joint  
Articulación Universal

**18866A**Adaptors  
AdaptadoresNo Warranty  
Sin Garantía**18866A-200**

	E (sq.)	F (sq.)	L (mm)	$\Delta\Delta$ (g)	(pce.)	Ø
18866A	1"	3/4"	65	580	1	* 1
18866A-200	1"	3/4"	200	1100	1	* 1

\*1 C-Ring=1801C, Pin/O-Ring=1801A/B ➔ P230~231

Adapting down from bigger square drive to smaller square drive may lead to excessive torque load and possibly cause breakage. Always stay within safe torque of the smaller square drive.

**18877A**Adaptor  
Adaptador

	E (sq.)	F (sq.)	L (mm)	$\Delta\Delta$ (g)	(pce.)	Ø
18877A	1"	1.1/2"	80	935	1	* 1

\*1 C-Ring=1801C, Pin/O-Ring=1801A/B ➔ P230~231



# 1-1/2"

## Impact Sockets

17400M • 17400A

6-point Sockets  
Vasos Hexagonales

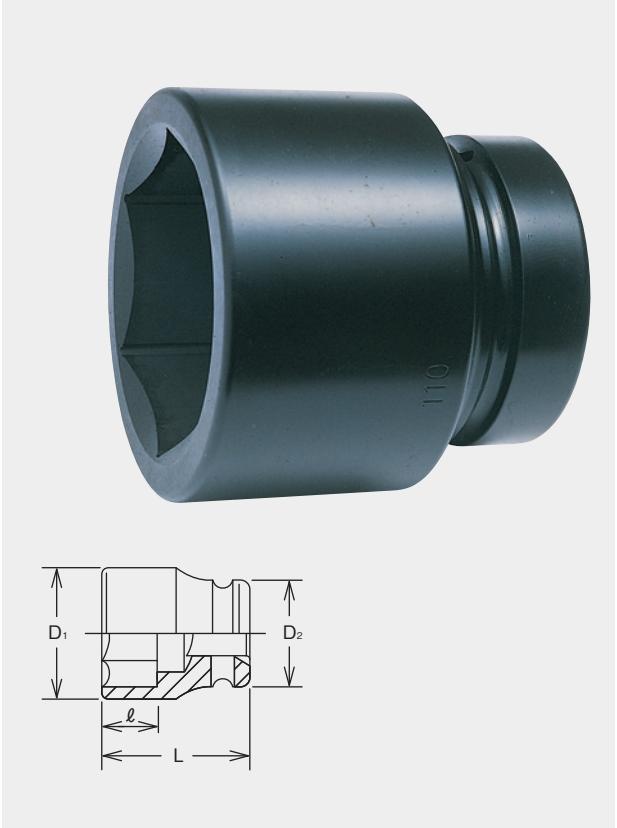
17400M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	.SizeType (pce.)	∅
41	68	86	22	80	2346	1	*1
42	70	86	22	80	2330	1	*1
46	74	86	26	84	2360	1	*1
50	79	86	27	84	2400	1	*1
52	82	86	38	84	2340	1	*1
54	84	86	38	84	2340	1	*1
55	85	86	44	90	2450	1	*1
58	88	86	44	90	2510	1	*1
60	91	86	43	90	2640	1	*1
65	97	86	48	95	3050	1	*1
70	103	86	52	100	3350	1	*1
75	108	86	56	105	3700	1	*1
80	115	86	60	110	4240	1	*1
85	122	86	60	110	4550	1	*1
90	128	86	60	112	4840	1	*1
95	135	127	52	112	7660	1	*2
100	140	127	53	115	7700	1	*2
105	146	127	57	120	8000	1	*2
110	153	127	60	124	9200	1	*2
115	160	127	62	128	10700	1	*2
120	166	127	64	132	11200	1	*2
125	173	127	67	136	13000	1	*2
130	180	127	69	140	14200	1	*2
135	186	127	73	145	14940	1	*2
140	190	127	76	150	15600	1	*2
150	200	127	83	160	16500	1	*2

17400A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	.SizeType (pce.)	∅
1. 5/8	68	86	22	80	2346	1	*1
1.11/16	71	86	22	80	2300	1	*1
1. 3/4	73	86	22	80	2290	1	*1
1.13/16	74	86	26	84	2360	1	*1
1. 7/8	77	86	26	84	2440	1	*1
1.15/16	79	86	27	84	2400	1	*1
2	80	86	27	84	2420	1	*1
2. 1/16	82	86	38	84	2340	1	*1
2. 1/8	84	86	38	84	2340	1	*1
2. 3/16	85	86	44	90	2450	1	*1
2. 1/4	87	86	43	90	2460	1	*1
2. 5/16	88	86	44	90	2510	1	*1
2. 3/8	91	86	43	90	2640	1	*1
2. 7/16	93	86	47	95	2860	1	*1
2. 1/2	96	86	47	95	3000	1	*1
2. 9/16	97	86	48	95	3050	1	*1
2. 5/8	100	86	51	100	3300	1	*1
2.11/16	101	86	51	100	3300	1	*1
2. 3/4	103	86	52	100	3350	1	*1
2.13/16	105	86	55	105	3670	1	*1
2. 7/8	106	86	55	105	3610	1	*1
2.15/16	108	86	56	105	3700	1	*1
3	108	86	55	105	3680	1	*1
3. 1/8	115	86	60	110	4240	1	*1
3. 1/4	118	86	59	110	4370	1	*1
3. 3/8	123	86	60	110	4570	1	*1
3. 1/2	128	86	60	112	4840	1	*1
3. 5/8	132	86	52	112	5230	1	*1
3. 3/4	135	127	52	112	7660	1	*2
3. 7/8	140	127	53	115	7700	1	*2
4	146	127	57	120	8000	1	*2
4. 1/8	146	127	57	120	8000	1	*2
4. 1/4	153	127	60	124	9200	1	*2
4. 1/2	160	127	62	128	10700	1	*2
4. 5/8	166	127	64	132	11200	1	*2
4. 3/4	168	127	64	132	11200	1	*2
4. 7/8	173	127	67	136	13000	1	*2
5	180	127	69	140	14200	1	*2
5. 1/4	186	127	73	145	14940	1	*2
6	205	127	88	165	16500	1	*2
6. 1/2	205	127	94	175	17500	1	*2

\*1 C-Ring=1700C, Pin/O-Ring=1701A/B → P230~231

\*2 Pin/O-Ring=1702A/B

6-point Sockets  
Vasos Hexagonales



HAND  
MANUALES

Z-SERIES  
INDUSTRIAL  
TITANIUM  
DE TITANIO

MULTIPLIER  
ACCESORIOS  
SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
POWER  
MECANICOS

AUTOMOTIVE  
CONSTRUCTION  
CONSTRUCCION

RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

# Impact Sockets 1-1/2"

**17405M • 17405A**



12-point Sockets  
Vasos Bihexagonales



17405M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖ (g)	📦 (pcs.)	⌚
46	74	86	26	84	2360	1	* 1
50	79	86	27	84	2400	1	* 1
55	85	86	44	90	2450	1	* 1
60	91	86	43	90	2640	1	* 1
65	97	86	48	95	3050	1	* 1
70	103	86	52	100	3350	1	* 1
75	108	86	56	105	3700	1	* 1
80	115	86	60	110	4240	1	* 1
85	122	86	60	110	4550	1	* 1
90	128	86	60	112	4840	1	* 1

17405A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖ (g)	📦 (pcs.)	⌚
1.11/16	71	86	22	80	2300	1	* 1
1. 3/4	73	86	22	80	2290	1	* 1
1. 7/8	77	86	26	84	2440	1	* 1
1.15/16	79	86	27	84	2400	1	* 1
2	80	86	27	84	2420	1	* 1
2. 1/16	82	86	38	84	2340	1	* 1
2. 1/8	84	86	38	84	2340	1	* 1
2. 3/16	85	86	44	90	2450	1	* 1
2. 1/4	87	86	43	90	2460	1	* 1
2. 3/8	91	86	43	90	2640	1	* 1
2. 7/16	93	86	47	95	2860	1	* 1
2. 1/2	96	86	47	95	3000	1	* 1
2. 9/16	97	86	48	95	3050	1	* 1
2. 5/8	100	86	51	100	3300	1	* 1

\*1 C-Ring=1700C, Pin/O-Ring=1701A/B ➔ P230~231

**17300M • 17300A**



6-point Deep Sockets  
Vasos Hexagonales Largos



17300M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖ (g)	📦 (pce.)	⌚
41	68	86	27	115	3080	1	* 1
42	70	86	27	115	3140	1	* 1
46	74	86	28	125	3440	1	* 1
50	79	86	30	135	3840	1	* 1
54	84	86	30	135	4160	1	* 1
55	85	86	33	135	4130	1	* 1
60	91	86	35	135	4370	1	* 1
65	97	86	38	145	5260	1	* 1
70	103	86	40	145	5780	1	* 1
75	108	86	42	155	6580	1	* 1
80	115	86	46	165	7740	1	* 1
85	122	86	49	165	7420	1	* 1
90	128	86	52	175	9630	1	* 1
95	135	127	55	175	10450	1	* 2
100	140	127	58	185	9741	1	* 2
105	146	127	62	195	10850	1	* 2
110	153	127	65	195	11500	1	* 2
115	160	127	68	195	12160	1	* 2
120	166	127	72	205	13680	1	* 2
125	173	127	74	205	14450	1	* 2
130	180	127	76	205	15190	1	* 2

17300A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖ (g)	📦 (pce.)	⌚
1. 5/8	68	86	27	115	3080	1	* 1
1.11/16	71	86	27	115	3180	1	* 1
1. 3/4	73	86	27	115	3210	1	* 1
1.13/16	74	86	28	125	3440	1	* 1
1. 7/8	77	86	28	125	3550	1	* 1
1.15/16	79	86	28	125	3590	1	* 1
2	80	86	30	135	3916	1	* 1
2. 1/16	82	86	30	135	4030	1	* 1
2. 1/8	84	86	30	135	4160	1	* 1
2. 3/16	85	86	33	135	4200	1	* 1
2. 1/4	87	86	33	135	4160	1	* 1
2. 3/8	91	86	35	135	4370	1	* 1
2. 7/16	93	86	35	135	4490	1	* 1
2. 1/2	96	86	35	135	4630	1	* 1
2. 9/16	97	86	38	145	5260	1	* 1
2. 5/8	100	86	38	145	5320	1	* 1
2.11/16	101	86	38	145	5670	1	* 1
2. 3/4	103	86	40	145	5780	1	* 1
2.13/16	105	86	40	145	6000	1	* 1
2. 7/8	106	86	40	145	6080	1	* 1
2.15/16	108	86	42	155	6580	1	* 1
3	108	86	42	155	6850	1	* 1
3. 1/8	115	86	46	165	7740	1	* 1
3. 3/4	135	127	55	175	12200	1	* 2
3. 7/8	140	127	56	175	11080	1	* 2

\*1 C-Ring=1700C, Pin/O-Ring=1701A/B ➔ P230~231

\*2 Pin/O-Ring=1702A/B

\*1 C-Ring=1700C, Pin/O-Ring=1701A/B ➔ P230~231

\*2 Pin/O-Ring=1702A/B

# 1-1/2" Impact Sockets

17108	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	L (mm)	(g)	(pce.)	Ø
New 60	86	85	2200	1	* 1	

\*1 C-Ring=1700C, Pin/O-Ring=1701A/B → P230~231



107.32 (mm)	L (mm)	(g)	(pce.)	Ø
New 19	60	300	10	
New 22	60	320	10	
New 24	60	330	10	
New 27	60	360	10	
New 30	60	390	10	
New 32	60	410	10	
New 36	60	460	10	

\*1 C-Ring=1700C, Pin/O-Ring=1701A/B → P230~231

17760	D (mm)	L (mm)	(g)	(pce.)	Ø
175	86	175	3300	1	* 1
250	86	250	4500	1	* 1
330	86	330	5200	1	* 1

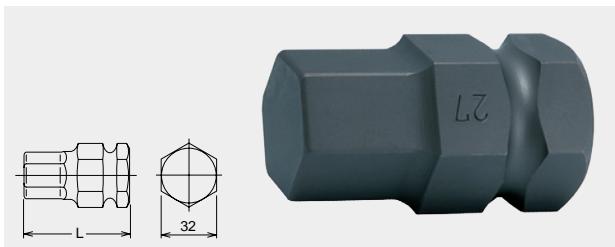
\*1 C-Ring=1700C, Pin/O-Ring=1701A/B → P230~231

17770	L (mm)	(g)	(pce.)	Ø
200	4700	1	* 1	

**17108** Bit Holder, For 107-32  
Porta Punta



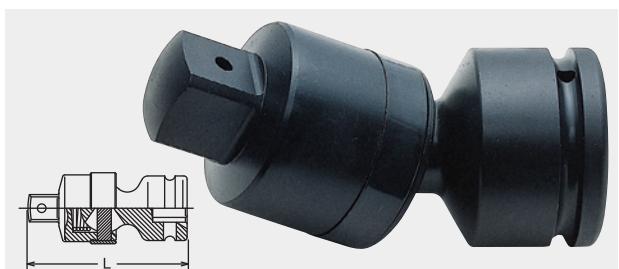
**107-32** Bit for Inhex Screws  
Puntas para Tomillos Inhex



**17760-175 · -250 · -330** Extension Bars  
Alargaderas



**17770** Universal Joint  
Articulación Universal



**17788A** ⚠ · **17799A** Adapters  
Adaptadores No Warranty  
Sin Garantía



17788A	凹 (sq.)	凸 (sq.)	L (mm)	(g)	(pce.)	Ø
1.1/2"	1"		97	2600	1	* 1

\*1 C-Ring=1700C, Pin/O-Ring=1701A/B → P230~231

17799A	凹 (sq.)	凸 (sq.)	L (mm)	(g)	(pce.)	Ø
1.1/2"	2.1/2"		115	3790	1	* 1

\*1 C-Ring=1700C, Pin/O-Ring=1701A/B → P230~231

**⚠** Adapting down from bigger square drive to smaller square drive may lead to excessive torque load and possibly cause breakage. Always stay within safe torque of the smaller square drive.

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

# Impact Sockets 2-1/2"

**19400M • 19400A**



6-point Sockets  
Vasos Hexagonales

HAND  
MANUALES

Z-SERIES  
INDUSTRIAL  
INDUSTRIALES

TITANIUM

DE TITANIO

MULTIPLIER

MULTIPLICADOR

ACCESSORIES

ACCESORIOS

SCREWDRIVERS

DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION

RENEWAL KITS

MIEGOS DE REPUESTO

CONSTRUCCIÓN

CONSTRUCCIÓN



19400M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pce.)	∅
50	88	127	39	115	7270	1	* 1
55	94	127	42	115	7350	1	* 1
60	100	127	45	125	7870	1	* 1
65	105	127	48	125	7790	1	* 1
70	110	127	51	125	7640	1	* 1
75	118	127	54	125	7740	1	* 1
80	124	127	57	125	7640	1	* 1
85	127	127	61	132	7840	1	* 1
90	135	127	64	132	8500	1	* 1
95	140	127	71	140	10160	1	* 1
100	146	127	71	142	11500	1	* 1
105	155	127	74	146	11350	1	* 1
110	160	127	76	155	12710	1	* 1
115	167	127	78	158	13980	1	* 1
120	175	175	79	160	15430	1	* 2
125	180	175	82	165	16590	1	* 2
130	185	175	85	169	17590	1	* 2
135	190	175	89	175	19030	1	* 2
140	200	175	93	180	21810	1	* 2
145	205	175	95	183	24440	1	* 2
150	210	175	97	192	25720	1	* 2
160	225	175	102	200	30920	1	* 2
165	230	175	105	204	32610	1	* 2
170	235	175	106	207	34390	1	* 2
175	240	175	109	211	36210	1	* 2
180	250	175	110	214	40630	1	* 2
185	255	175	113	218	42690	1	* 2
190	265	175	113	220	47440	1	* 2
200	275	175	116	225	51550	1	* 2
210	285	175	123	235	57170	1	* 2
215	290	175	126	240	60260	1	* 2
225	305	175	133	250	70180	1	* 2
235	315	175	140	260	77060	1	* 2

19400A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pce.)	∅
2. 3/8	100	127	45	125	7870	1	* 1
2. 7/16	102	127	46	125	7840	1	* 1
2. 1/2	103	127	47	125	7810	1	* 1
2. 9/16	105	127	48	125	7790	1	* 1
2. 5/8	107	127	49	125	7790	1	* 1
2.11/16	108	127	50	125	7790	1	* 1
2. 3/4	110	127	51	125	7640	1	* 1
2.13/16	113	127	52	125	7690	1	* 1
2. 7/8	115	127	53	125	7730	1	* 1
2.15/16	118	127	54	125	7740	1	* 1
3	120	127	55	125	7740	1	* 1
3. 1/8	124	127	57	125	7640	1	* 1
3. 1/4	125	127	59	125	7740	1	* 1
3. 3/8	127	127	61	132	7840	1	* 1
3. 1/2	135	127	64	132	8500	1	* 1
3. 5/8	138	127	64	132	9330	1	* 1
3. 3/4	140	127	71	140	10160	1	* 1
3. 7/8	143	127	70	140	10830	1	* 1
4	146	127	71	142	11500	1	* 1
4. 1/8	155	127	70	142	11250	1	* 1
4. 1/4	160	127	76	155	12710	1	* 1
4. 1/2	167	127	78	158	13980	1	* 1
4. 5/8	175	175	79	160	15430	1	* 2
4. 7/8	180	175	82	165	16590	1	* 2
5	183	175	81	165	17090	1	* 2
5. 1/4	190	175	89	175	19030	1	* 2
5. 3/8	198	175	94	180	20880	1	* 2
5. 1/2	200	175	93	180	21810	1	* 2
5. 5/8	203	175	94	182	22480	1	* 2
5. 3/4	207	175	103	192	24440	1	* 2
6	217	175	100	196	28510	1	* 2
6. 1/8	218	175	99	196	29720	1	* 2
6. 5/8	233	175	105	205	33500	1	* 2
7	248	175	110	213	39160	1	* 2

\*1 Pin/O-Ring=1901A/B → P231

\*2 Pin/O-Ring=1902A/B

# 2-1/2" Impact Sockets

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

19300M	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	秤 (g)	包裹 (pce.)	Ø
75	118	127	42	190	11930	1	* 1
80	124	127	46	190	12280	1	* 1
85	127	127	49	195	12480	1	* 1
90	135	127	52	205	14000	1	* 1
95	140	127	55	210	14630	1	* 1
100	146	127	58	215	15520	1	* 1
105	155	127	62	220	18250	1	* 1
110	160	127	65	225	18740	1	* 1
115	167	127	68	230	20940	1	* 1
120	175	175	72	235	23530	1	* 2
125	180	175	74	238	26110	1	* 2
130	185	175	76	243	25320	1	* 2
135	190	175	80	248	26290	1	* 2
140	200	175	82	248	28940	1	* 2
145	205	175	84	248	29520	1	* 2
150	210	175	88	255	30600	1	* 2
155	215	175	92	255	31680	1	* 2
160	225	175	95	260	35560	1	* 2
165	230	175	98	260	36040	1	* 2
170	235	175	100	265	37230	1	* 2
175	240	175	102	270	39420	1	* 2

\*1 Pin/O-Ring=1901A/B → P231

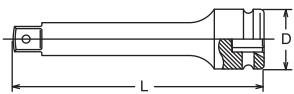
\*2 Pin/O-Ring=1902A/B

## 19300M 6-point Deep Sockets Vasos Hexagonales Largos



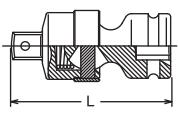
19760	D (mm)	L (mm)	秤 (g)	包裹 (pce.)	Ø
250	127	250	17800	1	* 1
500	127	500	27800	1	* 1

\*1 Pin/O-Ring=1901A/B → P231



19770	L (mm)	秤 (g)	包裹 (pce.)	Ø
	303	21360	1	* 1

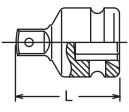
\*1 Pin/O-Ring=1901A/B → P231



19977A	凹 (sq.)	凸 (sq.)	L (mm)	秤 (g)	包裹 (pce.)	Ø
	2.1/2"	1.1/2"	144	7210	1	* 1

\*1 Pin/O-Ring=1901A/B → P231

**⚠** Adapting down from bigger square drive to smaller square drive may lead to excessive torque load and possibly cause breakage. Always stay within safe torque of the smaller square drive.



## 19760-250 · -500 Extension Bars Alargaderas



## 19770 Universal Joint Articulación Universal



## 19977A Adaptor Adaptador No Warranty Sin Garantía **⚠**



# Impact Sockets 3-1/2"

**10400M • 10400A**  6-point Sockets  
Vasos Hexagonales

HAND  
MANUALES

Z-SERIES  
INDUSTRIAL  
INDUSTRIALES

TITANIUM

DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

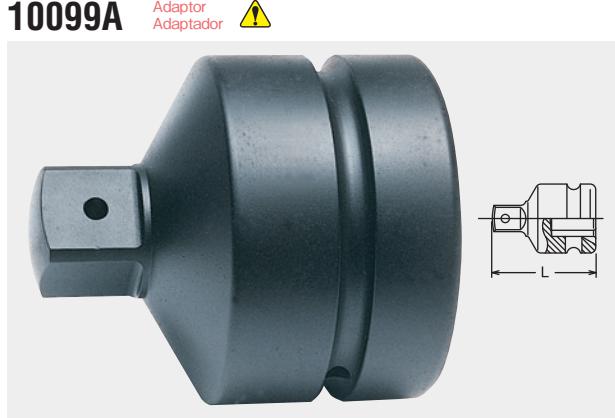
RENEWAL KITS  
MÉJICOS DE REPUESTO



10400M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pce.)	∅
105	165	175	86	176	19370	1	* 1
110	170	175	88	179	20160	1	* 1
115	175	175	90	183	21160	1	* 1
120	180	175	91	185	21930	1	* 1
125	188	175	94	190	23940	1	* 1
130	193	175	97	194	25050	1	* 1
135	200	175	101	199	26930	1	* 1
140	205	175	105	205	28560	1	* 1
145	210	200	106	207	29600	1	* 2
150	215	200	109	212	31240	1	* 2
160	228	200	114	220	35500	1	* 2
165	235	200	117	224	37940	1	* 2
170	240	200	118	227	39660	1	* 2
175	245	200	121	231	41400	1	* 2
180	255	200	122	234	45740	1	* 2
185	265	200	125	238	50350	1	* 2
190	275	200	125	239	54650	1	* 2
200	285	200	128	245	59190	1	* 2
210	295	200	135	255	64970	1	* 2
215	300	200	138	260	68150	1	* 2

10400A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pce.)	∅
4.1/8	165	175	86	176	19370	1	* 1
4.1/4	168	175	87	178	19770	1	* 1
4.3/8	172	175	88	180	20660	1	* 1
4.1/2	175	175	89	182	21160	1	* 1
4.5/8	178	175	90	183	21550	1	* 1
4.3/4	180	175	91	185	21930	1	* 1
4.7/8	188	175	94	190	23940	1	* 1
5	188	175	95	191	24500	1	* 1
5.1/8	193	175	97	194	25050	1	* 1
5.1/4	197	175	100	198	25990	1	* 1
5.3/8	201	175	102	202	27750	1	* 1
5.1/2	205	175	105	205	28560	1	* 1
5.5/8	208	200	106	208	30110	1	* 2
5.3/4	212	200	108	210	30610	1	* 2
5.7/8	215	200	109	212	31240	1	* 2
6	219	200	110	214	32460	1	* 2
6.1/8	223	200	112	216	33670	1	* 2
6.1/4	227	200	114	218	34590	1	* 2
6.3/8	231	200	115	221	36720	1	* 2
6.1/2	235	200	117	224	37940	1	* 2
6.5/8	238	200	118	226	38800	1	* 2
6.3/4	241	200	119	228	39870	1	* 2
6.7/8	245	200	120	230	40640	1	* 2
7	251	200	121	232	43570	1	* 2
7.1/8	257	200	122	234	46450	1	* 2
7.1/4	263	200	123	236	48400	1	* 2
7.3/8	269	200	124	238	52500	1	* 2
7.1/2	275	200	125	240	55350	1	* 2
7.5/8	278	200	127	242	56050	1	* 2
7.3/4	282	200	129	245	57620	1	* 2
7.7/8	285	200	130	248	60870	1	* 2
8	290	200	132	250	62550	1	* 2
8.1/8	293	200	133	251	63760	1	* 2
8.1/4	295	200	135	255	64970	1	* 2
8.3/8	298	200	136	258	65580	1	* 2
8.1/2	300	200	138	260	68150	1	* 2
8.5/8	305	200	139	262	70760	1	* 2
8.3/4	310	200	140	264	73830	1	* 2
8.7/8	313	200	142	267	75780	1	* 2

\*1 Pin/O-Ring=2001A/B → P231  
\*2 Pin/O-Ring=2002A/B → P231



New 10099A	凹 (sq.)	凸 (sq.)	L (mm)	⚖️ (g)	📦 (pce.)	∅
3 1/2"	2 1/2"	182	16870	1	* 1	

\*1 Pin/O-Ring=2001A/B → P231

⚠️ Adapting down from bigger square drive to smaller square drive may lead to excessive torque load and possibly cause breakage. Always stay within safe torque of the smaller square drive.

**3/8"**

**1/2"**

**3/4"**

# Sleeve Drive Sockets



## Sleeve Drive Sockets

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM

DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

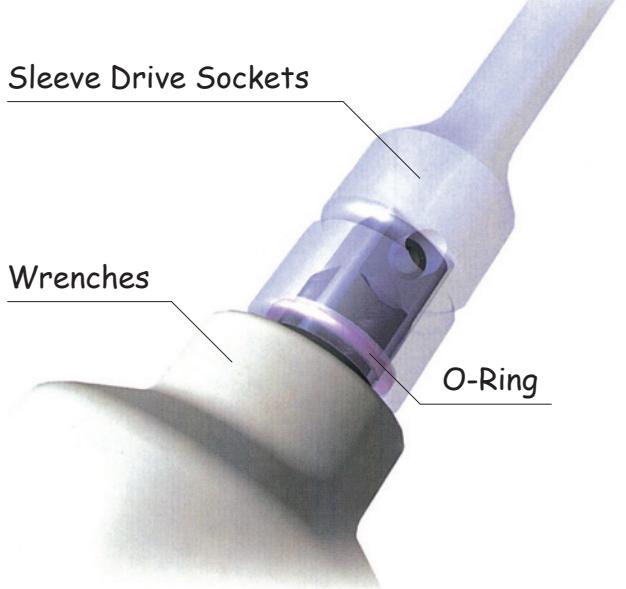
AUTOMOTIVE

RENEWAL KITS  
MIEGOS DE REPUESTO

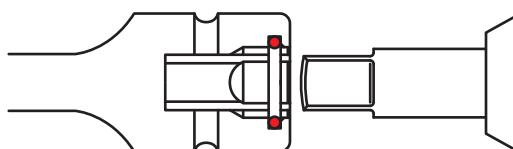


The deepened drive end of the **Sleeve-Drive** tools prevents the sometimes "wobbly" connection between pulse tool - extension - socket. An O-ring inside **Sleeve-Drive** optimizes the perfect fit of extension bars and sockets on the anvil to the effect, that the exactness of the required torque given by the pulse tool is generally improved. Further, the **Sleeve-Drive** avoids the direct transmission of vibrations on the pulse tool and finally on the operator.

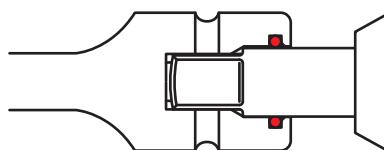
El extremo de accionamiento alargado de las herramientas con **casquillo conductor** evita la unión a veces "holgada" entre la herramienta de percusión-alargadera-vaso. Una junta tórica en el interior del **casquillo conductor** optimiza el ajuste perfecto de las alargaderas y los vasos en el elemento de accionamiento lo que se traduce en la mejora de la exactitud del par requerido suministrado por la herramienta de percusión.



SLEEVE DRIVE SOCKET



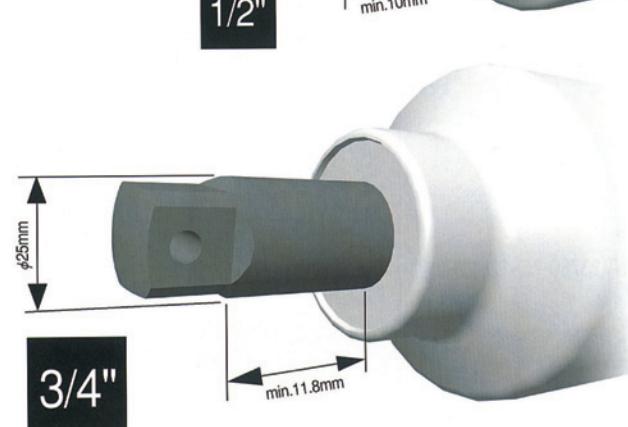
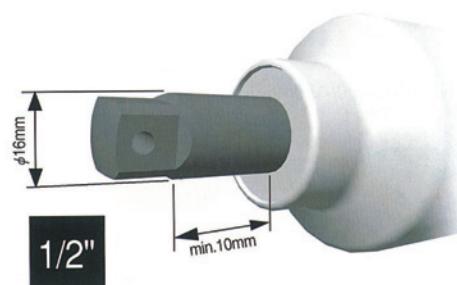
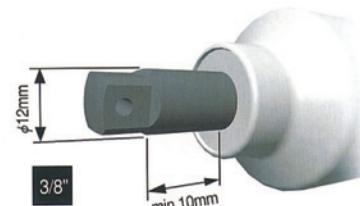
PULSE TOOL



The "**Sleeve Drive**" Sockets and accessories are designed for use on Pulse Tools with anvils of certain lengths and diameters as shown hereunder.

Los Vasos y accesorios con Casquillo Conducto se han diseñado para su utilización con Herramientas de Percusión con elementos de accionamiento de cierta longitud y diámetro como se muestra a continuación.

	Anvil Diameter (mm)	Minimum Anvil Length (mm)
3/8"sq.	12	10
1/2"sq.	16	10
3/4"sq.	25	11.8



# 3/8"

Sleeve Drive Sockets

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

NV13400 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖ (g)	📦 (pcs.)	∅
10	15.8	19	7	43	53	10	* 1
11	17	19	8	43	54	10	* 1
12	18.3	19	9	43	55	10	* 1
13	19.5	22	10	43	80	10	* 2
14	20.8	22	10	43	80	10	* 2
15	22	22	11	43	81	10	* 2
16	23.3	22	11	43	83	10	* 2
17	24.5	22	11	43	85	10	* 2
18	25.8	22	11	43	89	10	* 2
19	27	22	11	43	98	10	* 2
21	29.5	22	11	43	105	10	* 2
22	30.8	22	11	43	112	10	* 2

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B

→ P230~231

NV13105	D (mm)	L (mm)	⚖ (g)	📦 (pcs.)	∅
New	22	43	90	5	* 1

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B

→ P230~231

NV13145.100 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖ (g)	📦 (pcs.)	∅
6	13	19	6	100	108	10	* 1
8	13	19	8	100	110	10	* 1
10	15.5	19	10	100	112	10	* 1
12	18	19	12	100	120	10	* 1
13	19	19	13	100	127	10	* 1
14	21	19	14	100	131	10	* 1
15	22	19	15	100	133	10	* 1
16	24	19	15	100	144	10	* 1
17	25	19	15	100	154	10	* 1

NV13145.150 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖ (g)	📦 (pcs.)	∅
6	13	19	6	150	163	10	* 1
8	13	19	8	150	158	10	* 1
10	15.5	19	10	150	165	10	* 1
12	18	19	12	150	168	10	* 1
13	19	19	13	150	170	10	* 1
14	21	19	14	150	175	10	* 1
15	22	19	15	150	177	10	* 1
16	24	19	15	150	190	10	* 1
17	25	19	15	150	203	10	* 1

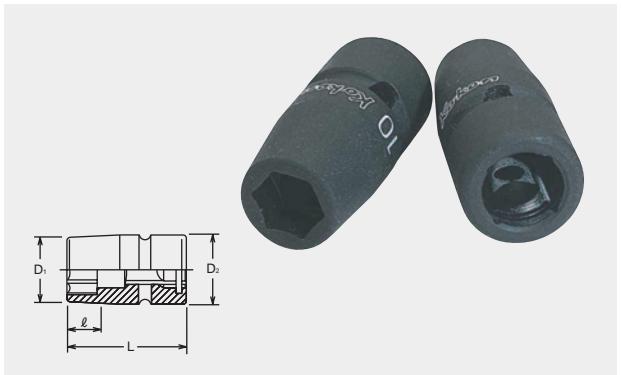
NV13145.200 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖ (g)	📦 (pcs.)	∅
6	13	19	6	200	209	10	* 1
8	13	19	8	200	203	10	* 1
10	15.5	19	10	200	212	10	* 1
12	18	19	12	200	214	10	* 1
13	19	19	13	200	218	10	* 1
14	21	19	14	200	220	10	* 1
15	22	19	15	200	226	10	* 1
16	24	19	15	200	235	10	* 1
17	25	19	15	200	250	10	* 1

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B

→ P230~231

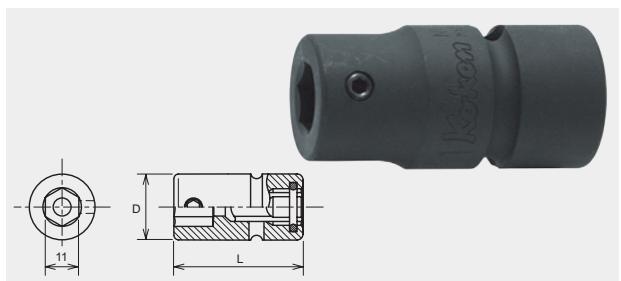
## NV13400

6-point Sockets  
Vasos Hexagonales



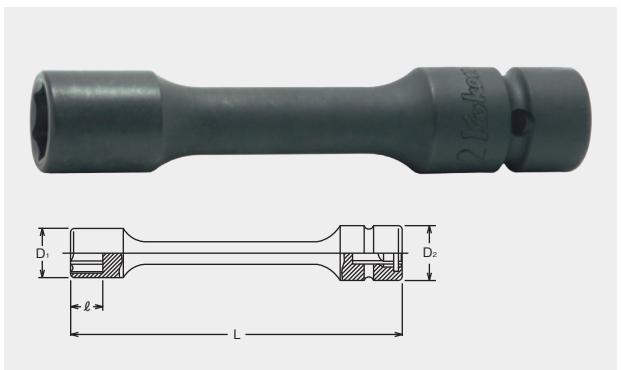
## NV13105

Bit Holder  
Porta Punta



## NV13145-100 · -150 · -200

Extended Sockets  
Vasos con Alargadera



## NV13760-75P · -125P · -250P

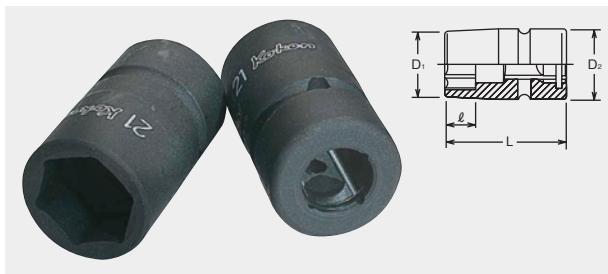
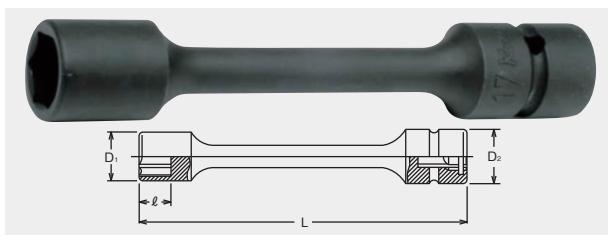
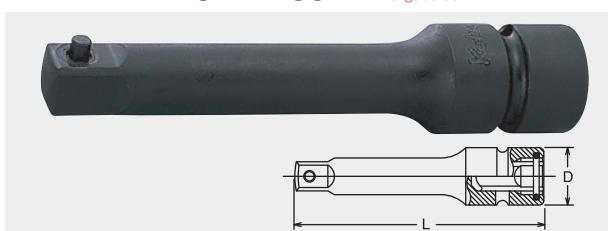
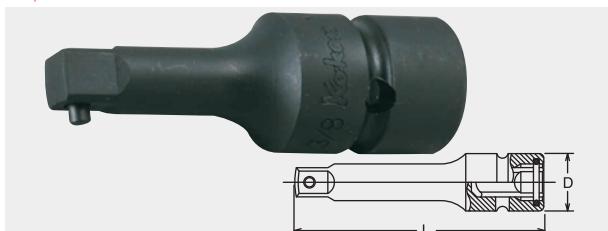
Extension Bars  
Alargaderas



NV13760	D (mm)	L (mm)	⚖ (g)	📦 (pcs.)	∅
75P	19	75	93	10	* 1
125P	19	125	147	10	* 1
250P	19	250	253	10	* 1

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B

→ P230~231

**NV14400**6-point Sockets  
Vasos Hexagonales**NV14145-100 · -150 · -200**Extended Sockets  
Vasos con Alargadera**NV14105**Bit Holder  
Porta Punta**NV14760-75P · -125P ·  
-175P · -250P**Extension Bars  
Alargaderas**NV14433A-75P · -100P · -150P**Adapters  
Adaptadores      No Warranty  
Sin Garantía

NV14400 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖ (g)	กระเป๋า (pcs.)	∅
12	19.5	25	9	54	120	10	* 1
13	20.7	25	10	54	120	10	* 1
14	22	25	10	54	120	10	* 1
15	23.2	30	11	54	188	10	* 2
16	24.5	30	11	54	189	10	* 2
17	25.7	30	12	54	190	10	* 2
18	27	30	12	54	190	10	* 2
19	28.2	30	12	54	190	10	* 2
21	30.7	30	12	54	191	10	* 2
22	32	30	12	54	192	10	* 2
23	33.2	30	12	54	196	10	* 2
24	34.5	30	12	54	200	10	* 2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B → P230~231

\*2 C-Ring=1402C, Pin/O-Ring=1402A/B

→ P230~231

NV14145.150 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖ (g)	กระเป๋า (pcs.)	∅
10	15.5	25	10	150	200	10	* 1
12	18	25	12	150	215	10	* 1
13	19	25	13	150	220	10	* 1
14	21	25	14	150	225	10	* 1
15	22	25	15	150	230	10	* 1
16	24	25	15	150	240	10	* 1
17	25	25	15	150	250	10	* 1
18	26	25	15	150	262	10	* 1
19	28	25	15	150	275	10	* 1

NV14145.200 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖ (g)	กระเป๋า (pcs.)	∅
10	15.5	25	10	200	236	10	* 1
12	18	25	12	200	250	10	* 1
13	19	25	13	200	260	10	* 1
14	21	25	14	200	270	10	* 1
15	22	25	15	200	275	10	* 1
16	24	25	15	200	287	10	* 1
17	25	25	15	200	300	10	* 1
18	26	25	15	200	310	10	* 1
19	28	25	15	200	320	10	* 1

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B → P230~231

NV14105	D (mm)	L (mm)	⚖ (g)	กระเป๋า (pcs.)	∅
New	22	43	115	5	* 1

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B → P230~231

NV14760	D (mm)	L (mm)	⚖ (g)	กระเป๋า (pcs.)	∅
75P	25	75	149	10	* 1
125P	25	125	230	10	* 1
175P	25	175	308	10	* 1
250P	25	250	422	10	* 1

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B → P230~231

NV14433A	寸 (mm)	寸 (mm)	L (mm)	⚖ (g)	กระเป๋า (pcs.)	∅
75P	1/2"	3/8"	75	120	1	* 1
100P	1/2"	3/8"	100	145	1	* 1
150P	1/2"	3/8"	150	187	1	* 1

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B → P230~231

⚠ Adapting down from bigger square drive to smaller square drive may lead to excessive torque load and possibly cause breakage. Always stay within safe torque of the smaller square drive.

# 3/4"

Sleeve Drive Sockets

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN  
RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

NV16400 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖ (g)	📦 (pzs.)	∅
17	30	44	12	65	448	5	* 1
18	31.3	44	13	65	470	5	* 1
19	32.5	44	13	65	455	5	* 1
21	35	44	15	65	472	5	* 1
22	36.3	44	16	65	471	5	* 1
23	37.5	44	16	65	471	5	* 1
24	38.8	44	16	65	467	5	* 1
26	41.3	44	16	65	477	5	* 1
27	42.5	44	16	65	473	5	* 1
28	43.8	44	16	68	483	5	* 1
29	45	44	18	68	464	5	* 1
30	46.3	44	18	68	492	5	* 1
32	48.8	44	19	70	514	5	* 1
33	50	44	20	70	564	5	* 1
34	51.3	44	20	70	588	5	* 1
35	52.5	44	20	70	593	5	* 1
36	53.8	44	20	70	598	5	* 1
38	56.3	44	20	72	670	2	* 1
41	60	44	22	72	687	2	* 1
46	66.3	44	23	77	906	2	* 1
50	69	44	23	77	1116	2	* 1

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B ➔ P230~231

NV16400



6-point Sockets  
Vasos Hexagonales



NV16760-175 · -250 · -330

Extension Bars  
Alargaderas



NV16760	D (mm)	L (mm)	⚖ (g)	📦 (pzs.)	∅
175	44	175	870	1	* 1
250	44	250	1160	1	* 1
330	44	330	1460	1	* 1

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B ➔ P230~231

# C-Ring Lock Clamps and Pullers

## Aro de Sujeción en C y Extractor

HAND  
MANUALES

Z-SERIES  
INDUSTRIAL  
INDUSTRIALES

TITANIUM

DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

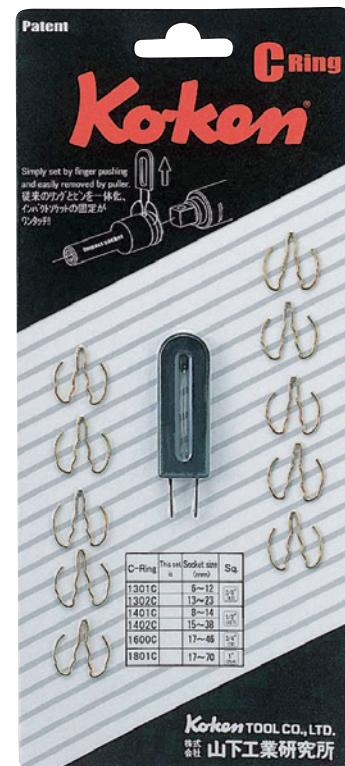
IMPACT  
DE IMPACTO

POWER  
MECÁNICOS

AUTOMOTIVE

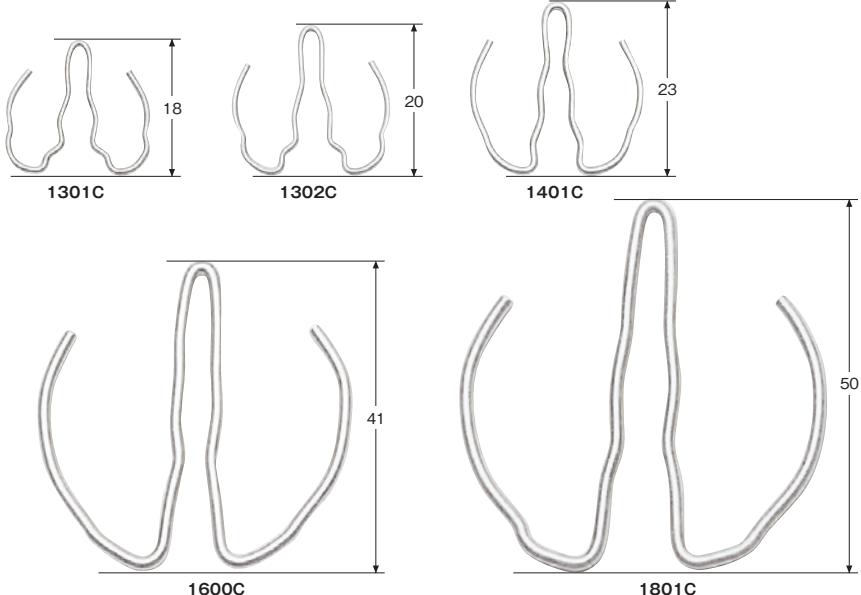
CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE REPUESTO



## C-Ring

No.		Opening (mm)	(pcs.)
1301C	3/8"	≤12	100
1302C	3/8"	>12	100
1401C	1/2"	≤14	100
1402C	1/2"	>14	100
1600C	3/4"	≤46	100
1801C	1"	≤70	100
1802C	1"	>70	50
1700C	1-1/2"	≤90	50



## C-Ring Set

Set No.		C-Ring 10pcs.	Puller 1pce.
PK1301C	3/8"	1301C	+
PK1302C	3/8"	1302C	+
PK1401C	1/2"	1401C	+
PK1402C	1/2"	1402C	+
PK1600C	3/4"	1600C	+
PK1801C	1"	1801C	+

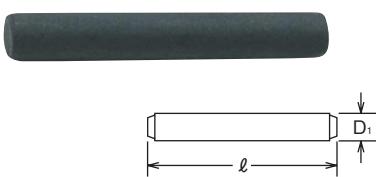
## Puller

No.		(pcs.)
149	3/8" / 1/2"	10
152	3/4" / 1"	10



## Pin

No.	▢	Opening (mm)	D <sub>1</sub> (mm)	ℓ (mm)	(pcs.)
1200A	[1/4"]		1.5	10.2	10
1301A	[3/8"]	≤ 12	2.5	14.5	10
1302A	[3/8"]	> 12	2.5	17.5	10
1401A	[1/2"]	≤ 14	3.5	20	10
1402A	[1/2"]	> 14	3.5	25	10
1500A	[5/8"]		4	30	10
1601A	[3/4"]	≤ 46	5.5	35	10
1602A	[3/4"]	> 46	5.5	45	10
1801A	[1"]	≤ 70	6	45	10
1802A	[1"]	> 70	6	75	10
1701A	[1-1/2"]	≤ 90	7	75	10
1702A	[1-1/2"]	> 90	7	110	1
1901A	[2-1/2"]	≤ 115	9	110	1
1902A	[2-1/2"]	> 115	9	155	1
2001A	[3-1/2"]	≤ 140	13	155	1
2002A	[3-1/2"]	> 140	13	180	1



## O-Ring

No.	▢	Opening (mm)	D <sub>2</sub> (mm)	D <sub>3</sub> (mm)	(pcs.)
1200B	[1/4"]		2.5	9	10
1301B	[3/8"]	≤ 12	3.5	13	10
1302B	[3/8"]	> 12	3.5	16	10
1401B	[1/2"]	≤ 14	4	19	10
1402B	[1/2"]	> 14	4	24	10
1500B	[5/8"]		4.5	28	10
1601B	[3/4"]	≤ 46	5	36	10
1602B	[3/4"]	> 46	5	45	10
1801B	[1"]	≤ 70	7	45	10
1802B	[1"]	> 70	7	75	10
1701B	[1-1/2"]	≤ 90	10	75	10
1702B	[1-1/2"]	> 90	10	114	1
1901B	[2-1/2"]	≤ 115	10.5	114	1
1902B	[2-1/2"]	> 115	10.5	158	1
2001B	[3-1/2"]	≤ 140	15	158	1
2002B	[3-1/2"]	> 140	15	183	1



## Pins & O Rings/C-Ring Lock Clamps Pasadores y Juntas Tóricas/Aros de Sujeción en C

1/4"

3/8"

1/2"

# Power Sockets



# Power Sockets **1/4"**

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

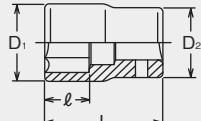
POWER  
MÉCANICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

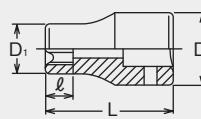
RENEWAL KITS  
MIEGOS DE REPUESTO

## 22400M 6-point Sockets Vasos Hexagonales



22400M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
6	9	11.2	5.4	22	9	10
7	10.2	11.2	6.1	22	9	10
8	11.3	12	7.3	22	11	10
10	14.3	12.9	8.2	22	15	10
12	17.4	16	9.6	22	23	10
13	18	16.4	10.3	22	23	10

## 22425 TORX® Sockets Vasos TORX®



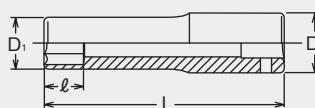
22425 (E)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
E 4	5.4	13	4.6	23	7	10
E 5	6.7	13	5.2	23	8	10
E 6	7.7	13	5.4	23	8	10
E 7	8.3	13	6.6	23	9	10
E 8	9.6	13	7	23	9	10
E10	11.3	13	8.2	23	10	10

TORX®  
(E)



E	E4	E5	E6	E7	E8	E10	E11	E12	E14	E16	E18	E20	E22	E24	
S	(ref. mm)	3.83	4.72	5.69	6.17	7.47	9.37	10.03	11.12	12.85	14.71	16.64	18.41	20.24	22.10

## 22300M • 22300A 6-point Sockets, deep Vasos Hexagonales, largos



22300M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
7	10.9	12	8	50	24	10
8	11.6	12	9	50	28	10
10	14.3	12.8	11	50	33	10
12	17.4	15.5	13	50	50	10
13	18	16.2	14	50	50	10

22300A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
1/4	9.8	12	7	50	24	10
5/16	11.6	12	9	50	28	10
3/8	14.3	12.8	11	50	33	10

POWER sockets are thin walled sockets and to be used on electric or pneumatic nut runners for assembly work only.

Los vasos MECÁNICOS son vasos de pared delgada para su utilización con herramientas eléctricas o neumáticas solamente para trabajos de montaje.

# 3/8" Power Sockets

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECANICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE PIEZAS DE REPUESTO

23400M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
8	12	17.3	6.9	26	22	10
10	14.5	17.3	8	26	24	10
11	15.8	17.3	9.3	26	25	10
12	16.8	17.3	9	26	25	10
13	18	17	9.4	26	24	10
14	19.5	18.5	11	27	31	10
15	20.8	19.5	11.5	28	39	10
16	22	20	12	28	42	10
17	23.4	21.5	12.5	29	51	10
18	24.5	22.5	13	30	51	10
19	25.8	23.5	13.5	30	53	10

23400A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
5/16	12	17.3	6.9	26	22	10
3/8	13.9	17.3	8	26	22	10
7/16	15.8	17.3	9.3	26	25	10
1/2	18	17	9.4	26	24	10
9/16	19.5	18.5	11	27	31	10
11/16	24.5	22.5	13	30	51	10
3/4	25.8	23.5	13.5	30	63	10

23425 (E)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
E 5	10.2	19	5.2	32	20	10
E 6	10.7	19	5.4	32	21	10
E 7	11.2	19	6.6	32	22	10
E 8	11.7	19	7	32	23	10
E10	12.2	19	8.2	32	24	10
E12	14.2	19	9.3	32	26	10
E14	17.2	19	10.6	32	27	10
E16	18.2	19	11.8	32	27	10

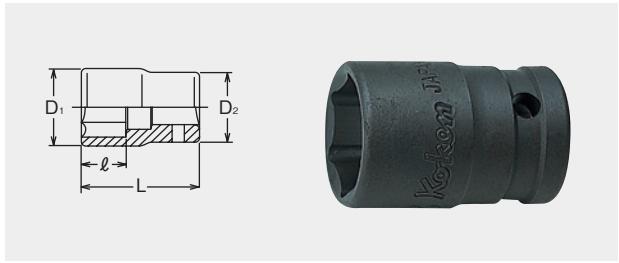
23300M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
8	12	17.3	9	55	45	10
10	14.5	17.3	11	55	52	10
11	16	17.3	12	55	55	10
12	16.8	17.2	13	55	58	10
13	18	17	14	55	57	10
14	20	18	16	55	68	10
15	21	20	16	55	78	10
16	22	20	17	55	79	10
17	23.5	22	18	55	96	10
18	24.5	23	19	55	96	10
19	25	24	20	55	102	10

23300A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
5/16	12	17.3	9	55	45	10
3/8	14	17.3	11	55	51	10
7/16	16	17.3	12	55	55	10
1/2	18	17	14	55	57	10
9/16	20	18	16	55	68	10
11/16	23.5	22	18	55	96	10
3/4	25	24	20	55	102	10

23325 (E)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
E 5	10.2	19	5.2	55	50	10
E 6	10.7	19	5.4	55	52	10
E 7	11.2	19	6.6	55	55	10
E 8	11.7	19	7	55	58	10
E10	12.2	19	8.2	55	60	10
E12	14.2	19	9.3	55	68	10
E14	17.2	19	10.6	55	77	10
E16	18.2	19	11.8	55	80	10

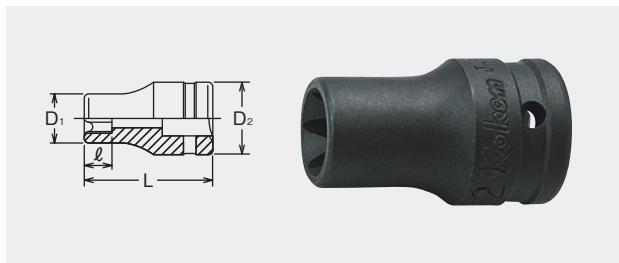
## 23400M • 23400A

6-point Sockets  
Vasos Hexagonales



## 23425

TORX® Sockets  
Vasos TORX®



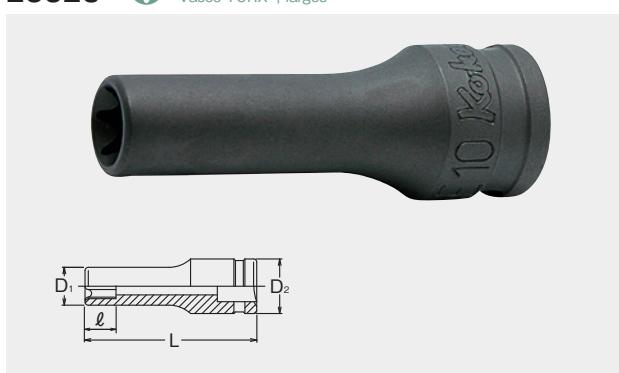
## 23300M • 23300A

6-point Sockets, deep  
Vasos Hexagonales, largos



## 23325

TORX® Deep Sockets  
Vasos TORX®, largos



# Power Sockets **1/2"**

HAND  
MANUALES

Z-SERIES  
INDUSTRIAL  
INDUSTRIALES

TITANIUM  
DE TITANIO  
MULTIPLIER  
MULTIPLICADOR

SCREWDRIVERS  
DESTORNILLADORES  
ACCESSORIES  
ACCESORIOS

IMPACT  
DE IMPACTO  
POWER  
MÉCANICOS

AUTOMOTIVE  
CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
MIEGOS DE REPUESTO

## 24400M • 24400A



6-point Sockets  
Vasos Hexagonales



24400M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
10	15.3	21	9	37	45	10
11	16.5	21	9.5	37	46	10
12	17.8	21	10	37	47	10
13	19	22	10.5	37	53	10
14	20.3	22	11	37	56	10
15	21.5	22	11.5	37	52	10
16	22.8	22	12	37	62	10
17	24	23	12.5	37	69	10
18	25	24	13	37	74	10
19	26.5	25	14	38	89	10
20	27.8	26	15	38	92	10
21	29	27	15.5	38	102	10
22	30	28	16	40	113	10
24	32.8	30	17	42	140	10

24400A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
7/16	16.5	21	9.5	37	46	10
1/2	19	22	10.5	37	53	10
9/16	20.3	22	11	37	56	10
5/8	22.8	22	12	37	62	10
3/4	26.5	25	14	38	89	10
15/16	32.8	30	17	42	140	10

## 24425



TORX® Sockets  
Vasos TORX®

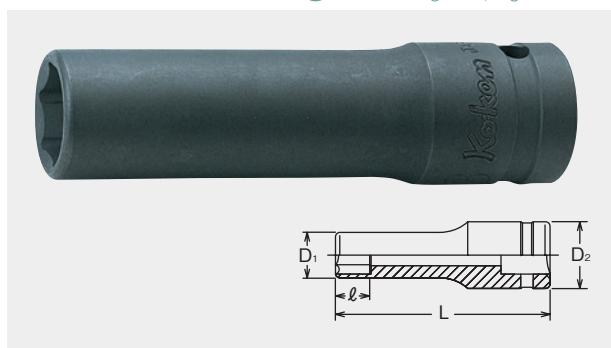


24425 (E)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
E10	14.2	25	8.2	38	68	10
E12	15.2	25	9.3	38	70	10
E14	18.2	25	10.6	38	75	10
E16	19.2	25	11.8	38	80	10
E18	22.2	25	13	38	83	10
E20	24.2	30	14.4	38	121	10

## 24300M • 24300A



6-point Sockets, deep  
Vasos Hexagonales, largos



24300M (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
10	15.3	21	11	77	91	10
11	16.5	21	12	77	95	10
12	17.8	21	13	77	99	10
13	19	21.8	14	77	107	10
14	20.3	21.8	15	77	118	10
15	21.5	21.8	16	77	123	10
16	22.8	22	17	77	141	10
17	24	23	18	77	150	10
18	25	24	19	77	164	10
19	26.5	25	20	77	177	10
20	27.8	26	21	77	178	10
21	29	27	23	77	187	10
22	30	28	27	77	202	10
24	32.8	30	27	77	252	10

24300A (inch)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
7/16	16.5	21	12	77	95	10
1/2	19	21.8	14	77	107	10
9/16	20.3	21.8	15	77	118	10
5/8	22.8	22	17	77	141	10
21/32	24	23	18	77	150	10
11/16	25	24	19	77	164	10
3/4	26.5	25	20	77	177	10
13/16	29	27	23	77	187	10
15/16	32.8	30	27	77	252	10

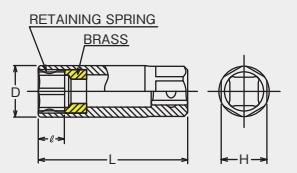
# Automotive Tools



**3300C • 4300C**

 Spark Plug Sockets with Spring Clips  
Llaves de bujía con Presillas

PATENTED



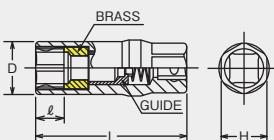
3300C (mm)		D (mm)	$\ell$ (mm)	L (mm)	H (mm)	$\ddot{\text{g}}$ (g)	
13		17.5	11	70	17	66	10
14		19	11	70	17	82	10
16		20.5	13	70	17	91	10
18		23.9	12	70	21	140	10
20.8		26.9	13.5	70	22	132	10

4300C (mm)		D (mm)	$\ell$ (mm)	L (mm)	H (mm)	$\ddot{\text{g}}$ (g)	
16		21	13	70	21	101	10
18		23.9	12	70	21	132	10
20.8		26.9	13.5	70	22	130	10

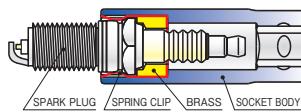
**3300CB**

 Spark Plug Socket (BMW)  
Llave de bujía (BMW)

PATENTED



3300CB (mm)		D (mm)	$\ell$ (mm)	L (mm)	H (mm)	$\ddot{\text{g}}$ (g)	
16		22.8	13	65	19	118	10



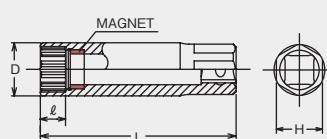
## SPARK PLUG SOCKETS with SPRING CLIP PATENTED

An internal brass guide holds the clips in place, which ensures perfect alignment of the spark plug into the threaded plug hole of the cylinder head, thus preventing thread damage.

The brass guide also eliminates stress loading and possible damage to the ceramic insulator of the spark plug.

**3305P**

 Spark Plug Socket with Magnet, 12-pt. opening  
Llaves de bujía con Imán, Boca Bihex

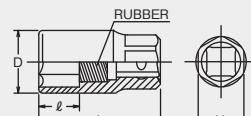


3305P (mm)		D (mm)	$\ell$ (mm)	L (mm)	H (mm)	$\ddot{\text{g}}$ (g)	
14		19	8	70	17	87	10

Spark Plug Socket with Magnet, 12-pt. opening

**3300S • 4300S**

 Spark Plug Sockets with Rubber Clips  
Llaves de bujía con Goma



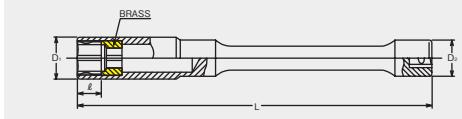
3300S (mm)		D (mm)	$\ell$ (mm)	L (mm)	H (mm)	$\ddot{\text{g}}$ (g)	
16		20.9	19	70	17	100	10
18		23.9	21	70	21	145	10
20.8		26.9	27	70	22	140	10

4300S (mm)		D (mm)	$\ell$ (mm)	L (mm)	H (mm)	$\ddot{\text{g}}$ (g)	
16		21	19	70	21	100	10
18		23.9	21	70	21	130	10
20.8		26.9	27	70	22	135	10

**3300C-180 · -250**

 Spark Plug Sockets with Spring Clips  
Llaves de Bujía con Presillas

PATENTED

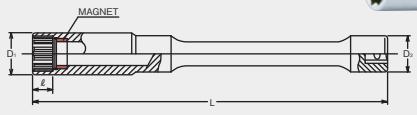


3300C.180 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)		(g)		(pcs.)
14		19	18	11	180		205		5
16		20.5	18	13	180		220		5
20.8		26.9	18	13.5	180		260		5

3300C.250 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)		(g)		(pcs.)
14		19	18	11	250		271		5
16		20.5	18	13	250		290		5
20.8		26.9	18	13.5	250		340		5

**3305P-250**

 Spark Plug Socket with Magnet, 12pt. opening  
Llave de bujía con Imán, Boca Bihex

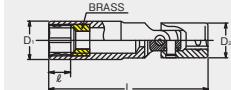
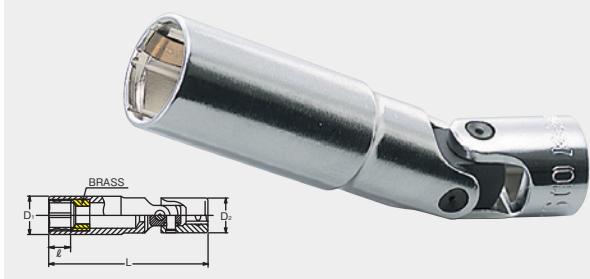


3305P.250 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)		(g)		(pcs.)
New 14		19	18	8	250		250		5

**3340C · 4340C**

 Universal Spark Plug Sockets with Spring Clips  
Llaves de bujía con Presillas con Articulación Universal

PATENTED

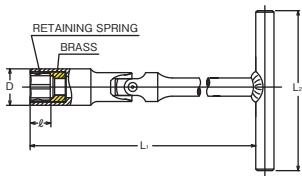


127C.315 (mm)	D (mm)	l (mm)	L <sub>1</sub> (mm)	L <sub>2</sub> (mm)		(g)		(pce.)
14	19	11	315	150		520		1
16	21	13	315	150		530		1
18	23.9	12	315	150		590		1
20.8	26.8	13.5	315	150		590		1

**127C**

 T-type Universal Spark Plug Socket Wrench  
Llave de Bujías en T con Articulación Universal

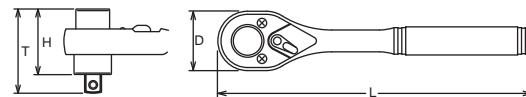
PATENTED



**3751N**Torque Ratchet for Spark plugs  
Llave de Bujías Dinamométrica**TORQUE RATCHET**

The torque is set at 25Nm. When the torque is loaded higher than 25Nm, the gear slips and no increased torque is transmitted.

Cylinder heads and spark plugs are protected by this mechanism.

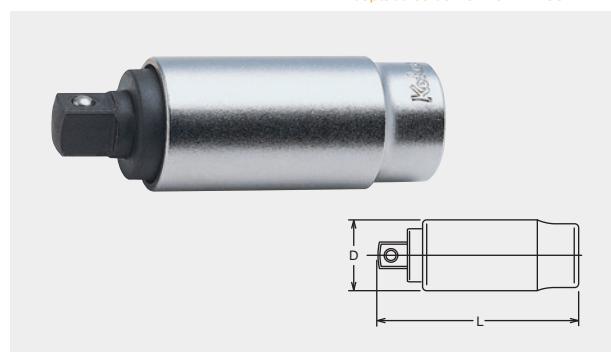
**3751J**Torque Ratchet for Spark plugs  
Llave de Bujías Dinamométrica

	D (mm)	T (mm)	H (mm)	L (mm)	g (g)	pce. (pce.)
3751N-25	34	57	43	178	320	1
3751J-25	34	57	43	178	320	1

**3225A**Set for Torque Controlled Installation of Spark Plugs  
Juego de Llaves de Bujías Dinamométricas**3225A**  
METAL CASE: W215×H80×T47mm

4 Pieces Set/Kit=960g

Sockets	Accessories
3300C Spark Plug Sockets 16, 20.8	3751J-25 3763-125

**3701-20Nm · -30Nm**Torque Adapters 20Nm / 30Nm  
Adaptadores de Par 20Nm / 30Nm

	D (mm)	L (mm)	g (g)	pce. (pce.)
20Nm	25.5	75	178	1
30Nm	28	75	220	1



3341G.70 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖ (g)	📦 (pcs.)
10		14.5	19	6	70	76	10
11	3/8"	15.8	19	6	70	80	10
12		17	19	6	70	85	10

3341G.89 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖ (g)	📦 (pcs.)
8		12	19	7.5	89	82	10
9	3/8"	13.3	19	7.5	89	87	10
10		14.5	19	6	89	92	10

**GLOW PLUG SOCKETS, NUT GRIP®**

Twin balls at the 6-point opening hold bolt/nut tightly for safe and reliable work.

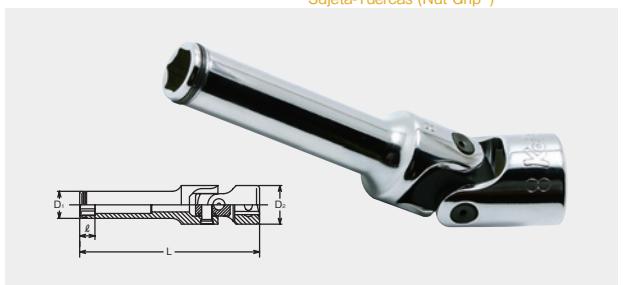
El perno/tuerca se sujetá firmemente por medio de dos bolas en la boca hexagonal para un trabajo seguro y fiable.



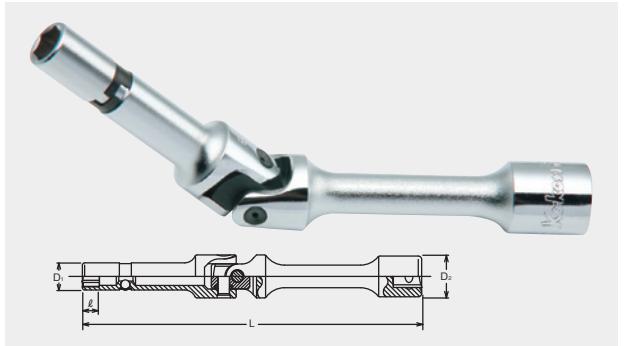
3342G.150 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖ (g)	📦 (pcs.)
8	3/8"	12	18	7.5	150	137	10

**3341G-70 · -89**

Universal Glow Plug Sockets with NUT GRIP®  
Llaves de Calentador con Articulación Universal con Sujeta-Tuercas (Nut Grip®)

**3342G-150**

Deep length universal Glow Plug Socket  
Llave de Calentador Larga con Articulación Universal

**144KM**

For Glow Plugs  
Para Calentadores



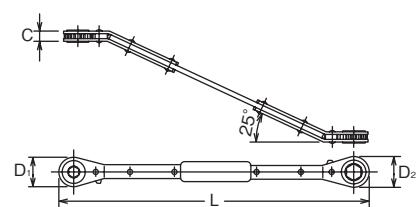
144KM (mm)	L (mm)	D (mm)	C (mm)	⚖ (g)	📦 (pce.)
8	200	22.7	7.5	95	1
12	200	22.7	7.5	102	1

**148KM**

For Glow Plugs  
Para Calentadores

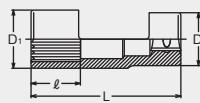


148KM (mm)	L (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	C (mm)	⚖ (g)	📦 (pce.)
8S x 12	245	23.6	24.6	9	187	1



**SP4305M-77**

Socket for Diesel engine injectors  
Vaso para Inyectores de Motor Diesel



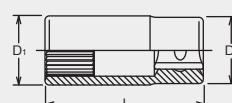
SP4305M.77 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	 (g)	 (pcs.)
27		36.5	33	28	77	212	10

**SP4305M.77-27**

For fuel injection pump of BMW diesel cars.

**4133**

Socket for Diesel engine injectors  
Vaso para Inyectores de Motor Diesel



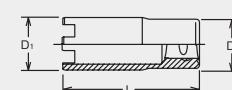
4133 New		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	L (mm)	 (g)	 (pcs.)
4133		23.9	23	55	86	10

**4133**

For fuel injection pump of M.B diesel cars.

**4122-72**

Diesel Injection Holder Nut Socket  
Vaso Porta Tuerca de Inyección Diesel



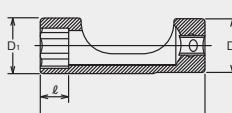
4122.72 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	D <sub>3</sub> (mm)	L (mm)	 (g)	 (pcs.)
22		28.5	27	22	72	150	10

**4122.72-22**

For M.B Trucks, Holder nut of injection post.

**3300FN**

Flare Nut Sockets  
Llaves de vaso para entubar



3300FN (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	S (mm)	 (g)	 (pcs.)
8		14.5	17.3	6	53	6.4	38	10
9		16	17.3	7	53	6.8	41	10
10		16.8	17.2	7.5	53	7.2	42	10
11		18	17	8.5	53	8.3	42	10
12		20	18	9	53	8.8	50	10
13		21.1	20	9.5	62	9.4	66	10
14		22	20	10.5	62	10.5	66	10
15		23	22	11	70	11.5	82	10
16		24	23	11.5	70	12	90	10
17		25	24	12.5	80	13	110	10
18		27	25	13	80	13.5	120	10
19		28	26	14	80	14.5	130	10

**RS3300FN/6**

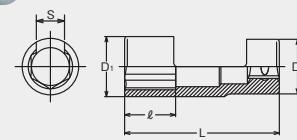
Socket Set on Rail  
Juego de Vasos en Regleta



RS3300FN/6	6 Pieces Set/Rail 150mm	 (g)
8, 10, 12, 14, 17, 19		450

**SP4300M-85**

Special socket for Lambda Probes  
Vaso Especial para Sensores Lambda

**SP4300M-110**

SP4300M.85-22		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	S (mm)	 (g)	 (pcs.)
SP4300M.110-22		33	30	29	85	8	228	10



**FLARE NUT SOCKET**  
**Socket for Lambda Probes**  
Open section allows for use with wire/connector.

4300H (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	H (mm)	g (g)	(pcs.)
24		32.5	27	17	57	24	157	10
26	1/2"	35	27	19	57	24	170	10
27		36.1	27	19.5	57	24	175	10

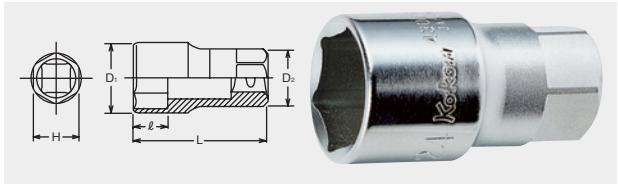
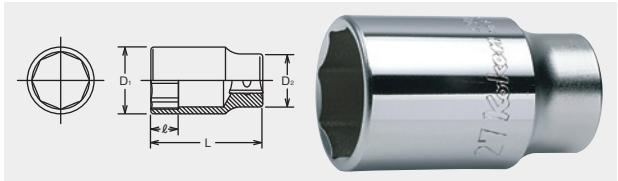
## 4300H series

Removes and installs oil pressure switches

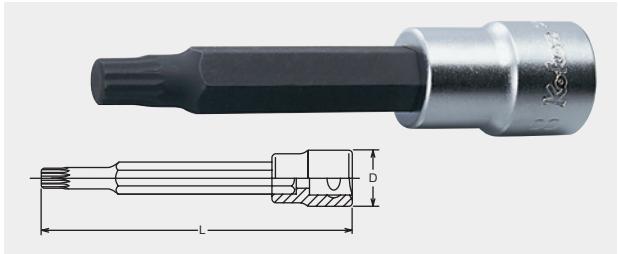
4300H (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	H (mm)	g (g)	(pcs.)
27(8P)	1/2"	34	27	18.5	57		152	10

## 4300H(8P) series

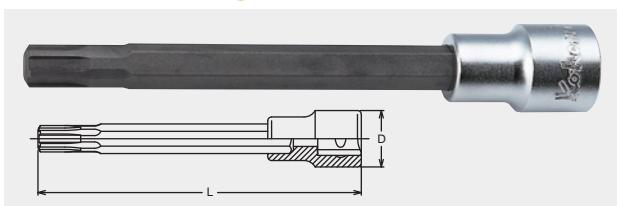
Socket for Switches, Mercedes Benz and MAN

4300H | Oil Pressure Switch Sockets  
Vasos para Presostatos de Aceite4300H (8P) | 8-point Socket  
Vaso Octagonales

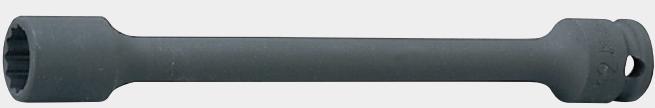
## 4010M-100 · -120 (12P)

Bit Sockets for Double Inhex Screws (12-point)  
Vasos con Punta para Tornillos Doble Inhex (Bihex)

## ST4027-140

Head Bolt Bit Socket for VW/AUDI  
Vasos con Punta para Perno de Culata VW/AUDI

## 13145M-150 · -200 (12P)

Extra Long Sockets  
Vasos Extra-Largos

ST4027.140		D (mm)	L (mm)	g (g)	(pcs.)
1/2"		23	140	155	10



Head Bolt Bit Socket for VW/AUDI

ST4027-140 can not substitute with 3027, 4027-CV bit series.

13145M.150 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	H (mm)	g (g)	(pce.)	○
10		15.8	19	10	150	120	1	* 1	
12	3/8"	18.3	19	12	150	128	1	* 1	

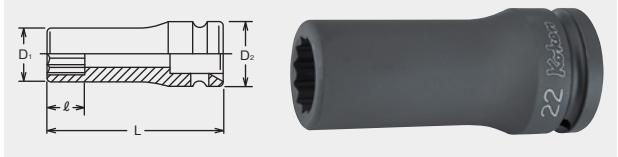
\*1 C-Ring=1301C, Pin/O-Ring=1301A·B ➔ P230~231

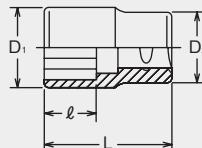
13145M.200 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	H (mm)	g (g)	(pce.)	○
10		15.8	19	10	200	151	1	* 1	
12	3/8"	18.3	19	12	200	159	1	* 1	

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B ➔ P230~231

16305M (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	H (mm)	g (g)	(pce.)	○
14		26.3	44	14	100	500	2	* 1	
17		30	44	17	100	544	2	* 1	
19	3/4"	32.5	44	19	100	655	2	* 1	
22		36.3	44	22	100	700	2	* 1	

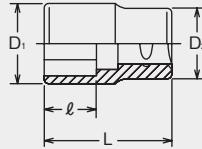
\*1 C-Ring=1600C, Pin/O-Ring=1601A·B ➔ P230~231

16305M | 12-point Sockets,deep  
Vasos Bihexagonales Largos

**4109M**  Double square Sockets  
Vasos Octagonales

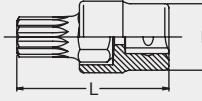
4109M (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	g (g)	(pcs.)
14		26.8	26	11	38	110	10
17		30	28	12.5	40	140	10
19	1/2"	31.5	29	14	40	150	10
21.5		35	32	16	40	170	10
23		37	34	16.5	43	180	10

4109M series  
For Lubrication service

**4111M**  6-point Socket  
Vaso Hexagonal

4111M (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	g (g)	(pcs.)
24	1/2"	32	30	17	40	133	10

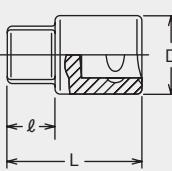
4111M series  
For Lubrication service

**4020-60 (MH)**  Bit Socket for XZN-Screws with hole  
Vaso con Punta para Tornillos XZN con agujero

4020.60 (XZN)		D (mm)	L (mm)	g (g)	(pcs.)
MH16	1/2"	24	60	135	10

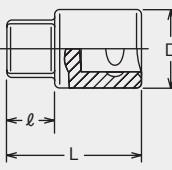
**4020-60-MH16**

Specially designed for oil drain plug on gearbox of AUDI, VW, PORSCHE.

**3110M · 3110A**  4-point Male Sockets  
Vasos con Macho Cuadrado

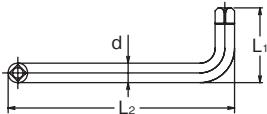
3110M (mm)		D (mm)	l (mm)	L (mm)	g (g)	(pcs.)
6		18	10	28	30	10
8		18	10	28	30	10
10	3/8"	18	10	28	33	10
12		18	10	28	37	10

3110A (inch)		D (mm)	l (mm)	L (mm)	g (g)	(pcs.)
5/16		18	10	28	30	10
3/8	3/8"	18	10	28	33	10
1/2		18	10	28	37	10

**4110M · 4110A**  4-point Male Sockets  
Vasos Macho Cuadrado

4110M (mm)		D (mm)	l (mm)	L (mm)	g (g)	(pcs.)
8		24	10	32	57	10
10		24	10	32	62	10
10.5		24	10	32	64	10
12		24	10	32	64	10
13		24	10	32	66	10
13.5		24	10	32	67	10
19		25	15	37	101	10
20		26	15	37	114	10

4110A (inch)		D (mm)	l (mm)	L (mm)	g (g)	(pcs.)
3/8		24	10	32	62	10
1/2	1/2"	24	10	32	64	10

**158**For Lubrication Service  
Para Lubricación

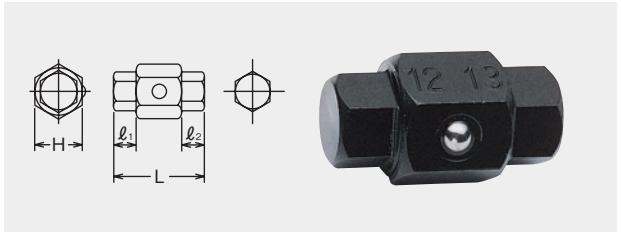
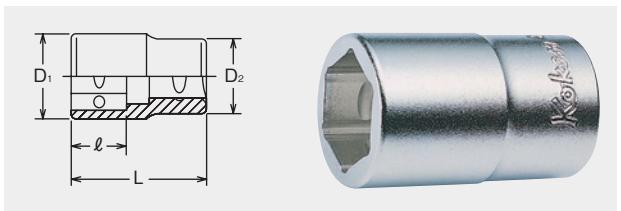
158 (mm)	L <sub>1</sub> (mm)	L <sub>2</sub> (mm)	d (mm)	g (g)	(pce.)
8S×10S	63	230	13	319	1

3012M.25 (mm)	D (mm)	L (mm)	g (g)	(pcs.)
14	3/8"	19	25	30
17		19	25	30

4202	7 Pieces Set/一套=426g
METAL CASE: W190×H59×T45mm	
Sockets	
<b>106</b> Drain Plug Keys 8S×10S, 8H×3/8H, 10H×11H, 12H×13H, 14H×17H, 19H	
<b>4102</b> Drain Plug Key Adaptor	

106 (mm)	H (mm)	ℓ <sub>1</sub> (mm)	ℓ <sub>2</sub> (mm)	L (mm)	g (g)	(pcs.)
8S×10S	17	8	8	32	40	10
8H×3/8H	17	8	8	32	38	10
10H×11H	17	8	8	32	42	10
12H×13H	17	8	8	32	47	10
14H×17H	17	8	8	32	55	10
19H	17	-	8	24	49	10

4102 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	g (g)	(pcs.)
17	1/2"	25	24	16	40	82

**3012M-25**Inhex Sockets  
Vasos con Punta Hexagonal**4202**Drain Plug Keys Set  
Juego de Llaves de Tapón de Vaciado**106**
 4-point / 6-point Male bits  
Puntas Macho Cuadrado / Hexagonal
**4102**
 Adaptor for 106 Drain plug key  
Adaptador para llave de tapón de Vaciado 106


**1206**

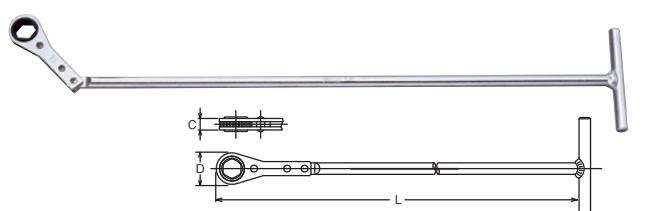
Push and Pull-Ratchet Set  
Juego de Llave de Carraca de Empuje y Tracción

**1206**  
CARDBOARD BOX3 Pieces Set/ $\Delta\Delta=320g$ 

Sockets	Accessory
150.14H Sockets 12, 14	154K-14

**154K**

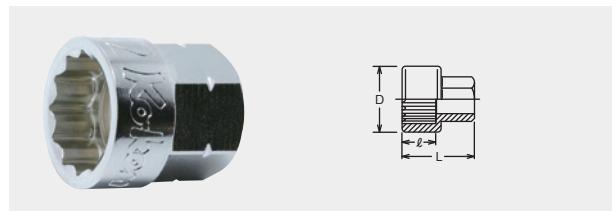
Push and Pull-Ratchets  
Llaves de Carraca de Empuje y Tracción



154K (mm)	L (mm)	D (mm)	C (mm)	(g)	(pce.)
14	480	24.6	9	280	1

**150-14H**

Socket, For 154K  
Vasos



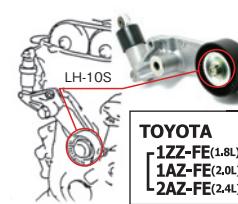
150.14H (mm)	D (mm)	l (mm)	L (mm)	(g)	(pcs.)
10	16	5	17	16	10
12	17.3	5	18	14	10
14	19.2	7	21	17	10

**145LH3/8F**

Belt Tension Pulley Wrench



145LH3/8F (LH-S)		L (mm)	D (mm)	C (mm)	(g)	(pcs.)
10S		100	25	15.5	90	10

**Belt Tension Pulley Wrench**

For LH-10S bolt on TOYOTA engines 1ZZ (1.8L), 1AZ (2.0L) and 2AZ (2.4L), belt tension pulley.



**TOYOTA**

**1ZZ-FE(1.8L)**

**1AZ-FE(2.0L)**

**2AZ-FE(2.4L)**

This item has less strength due to the special design.

**4282**

Generator Service Set

**4282**4 Pieces Set/ $\Delta\Delta=449g$ 

Sockets
4020.100-M10
4020.140-M10
4025.100R-T50
185

**Generator Service Set**

For removing and installing belt pulley at the generator.

**1210 • 1210E**Door Hinge Wrench Set  
Juego de Llave de Bisagra de Puerta

<b>1210</b>	8 Pieces Set/ $\Delta\wedge=$ 450g
PLASTIC BAG	
Sockets	Accessory
179B.12H Sockets 10, 12	145KD-12
179B.12H XZN Bits M6, M8, M10, M12	
179B.12H TORX® Bit T45	

<b>1210E</b>	11 Pieces Set/ $\Delta\wedge=$ 460g
PLASTIC BAG	
Sockets	Accessory
179B.12H Sockets 10, 12, 13	145KD-12
179B.12H XZN Bits M8, M10, M12	
179B.12H TORX® Bits T40, T45, T50	
179B.12H Hex Bit 8	

<b>3247</b>	4 Pieces Set/ $\Delta\wedge=$ 385g
PLASTIC BAG	
Sockets	

<b>3025.160</b> Tamper-resistant TORX® Bit Sockets
T27H, T30H, T40H, T50H

<b>3025.160</b> Tamper-resistant TORX® Bit Sockets
T27H, T30H, T40H, T50H

**For Air Bag**

For air-bag unit in hard to reach places in or around the steering wheel.

Tamper Resistant TORX® Bit Sockets have less strength.

**3247**

Bit Socket Set  
Juego de Vasos con Punta



<b>3300M/4-L120</b>	4 Pieces Set/ $\Delta\wedge=$ 477g
PLASTIC BAG	
Sockets	

<b>3300M(L120)</b> 6-pt. Extra Deep Sockets
8, 10, 12, 14

<b>BUMPER BOLT</b>
<b>DOOR HINGE</b>

<b>3350M/2-L120</b>	2 Pieces Set/ $\Delta\wedge=$ 230g
PLASTIC BAG	
Sockets	

<b>3350M(L120)</b> Nut Grip Extra Deep Sockets
10, 12

<b>Nut Grip Extra Deep Socket</b>

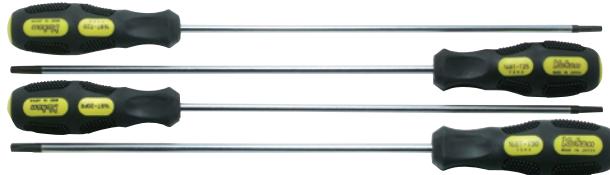
**3300M/4-L120**

Socket Set  
Juego de Vasos

**3350M/2-L120**

Socket Set  
Juego de Vasos



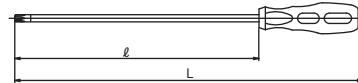
**1212** Screwdriver set  
Destornilladores, juego de 4 piezas**1212** PLASTIC BAG 4 Pieces Set/ $\Delta\triangle=380g$ 

Screwdrivers

- 168T(250)  
20PR
- 168T(250)  
T20, T25, T30

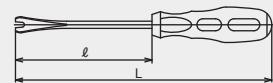
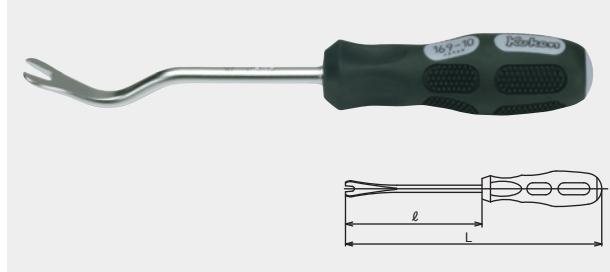


Long shank Screw Screwdriver

**168T (250)** Screwdrivers  
Destornilladores

168T(250) (PR)	$\ell$ (mm)	L (mm)	$\Delta\triangle$ (g)	(pce.)
20PR	250	350	85	1

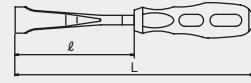
168T(250) (T)	$\ell$ (mm)	L (mm)	$\Delta\triangle$ (g)	(pce.)
T20	250	350	85	1
T25	250	350	85	1
T30	250	360	120	1

**169/2** Door Trim Pad Tool, 2 pieces set  
Herramienta de Forro de Puerta, juego de 2 piezas**169** Door Trim Pad Tool  
Herramienta de Forro de Puerta**169/2** PLASTIC BAG 2 Pieces Set/ $\Delta\triangle=200g$ Clip Handles  
169 CLIP HANDLE  
6, 10

169	$\ell$ (mm)	L (mm)	$\Delta\triangle$ (g)	(pcs.)
6	115	215	80	2
10	120	230	110	2



Clip Handle

**169WM** Window Molding Remover  
Extractor de Burletes de Ventana

169WM	$\ell$ (mm)	L (mm)	$\Delta\triangle$ (g)	(pcs.)
	100	210	90	2



Window Molding Remover

169HR	$\ell$ (mm)	L (mm)	$\Delta$ (g)	$\diamond$ (pcs.)
A	100	200	75	2



Hose Remover

169BP	T×W (mm)	$\ell$ (mm)	L (mm)	$\Delta$ (g)	$\diamond$ (pcs.)
New 1.8×13	1.8×13	50	150	60	2



Quick Fastener

For Battery screw

4425	$\square$	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	$\ell$ (mm)	L (mm)	$\Delta$ (g)	$\diamond$ (pcs.)
New E20N	[1/2"]	22.8	22	14.4	37	65	10

Flywheel bolt for NISSAN



Engine type : QR/MR

13145A-150 (inch)	$\square$	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	$\ell$ (mm)	L (mm)	$\Delta$ (g)	$\diamond$ (pce.)	$\odot$
9/16[D20]	[3/8"]	20	19	13	150	130	1	* 1

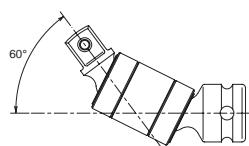
\*1 C-Ring=1301C, Pin/O-Ring=1301A/B ➔ P230~231

14145A-150 (inch)	$\square$	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	$\ell$ (mm)	L (mm)	$\Delta$ (g)	$\diamond$ (pce.)	$\odot$
9/16[D20]	[1/2"]	20	25	13	150	200	1	* 1

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B ➔ P230~231

14772-P	$\square$	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	L (mm)	$\Delta$ (g)	$\diamond$ (pce.)	$\odot$
New		27	25	90	230	1	* 1

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B ➔ P230~231

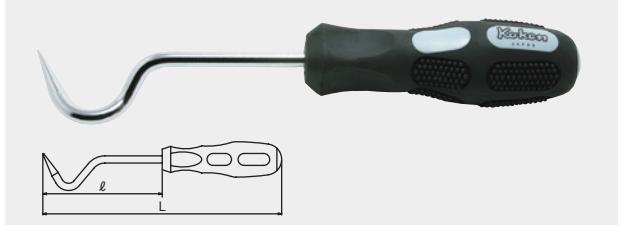


14305M (mm)	$\square$	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	$\ell$ (mm)	L (mm)	$\Delta$ (g)	$\diamond$ (pcs.)	$\odot$
30	[1/2"]	42	30	30	85	457	10	* 1
32	[1/2"]	44.5	30	32	85	542	10	* 1
36	[1/2"]	49.5	30	36	85	635	2	* 1

\*1 C-Ring=1402C, Pin/O-Ring=1402A/B ➔ P230~231



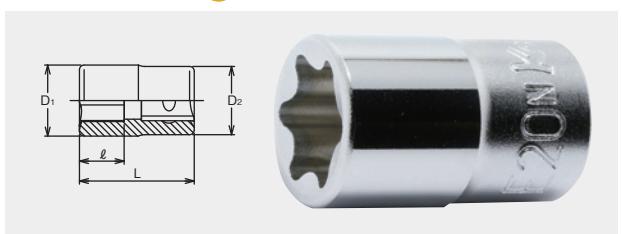
## 169HR Hose Remover Extractor de Mangueras



## 169BP For Buttery Screws

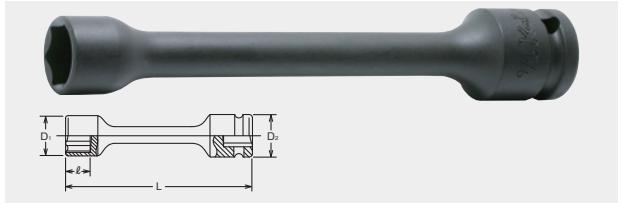


## 4425-E20N



## 13145A-150 · 14145A-150

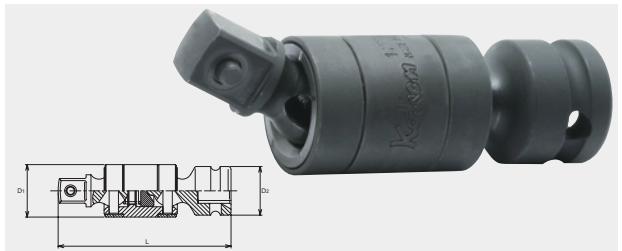
### Extra Long Sockets Vasos Extra-Largos



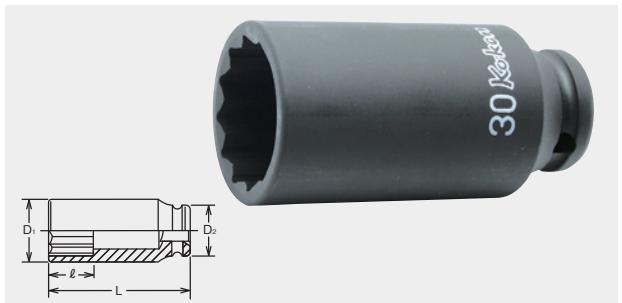
## 14772-P

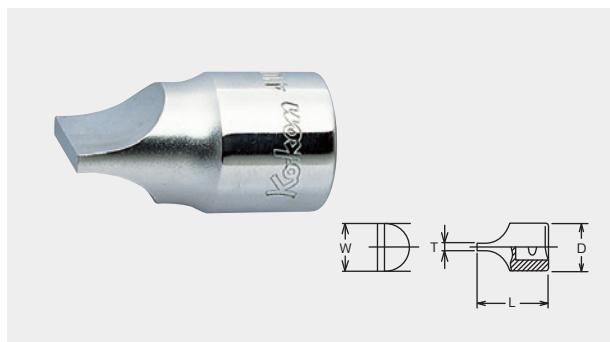
Universal Double Joint  
Articulación Universal

PATENT.P



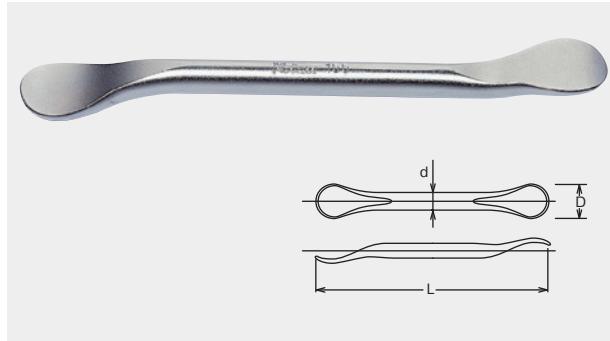
## 14305M

12-point Deep Sockets  
Vasos Bihexagonales Largos

**4101 · 6101**Sockets for Slotted Heads  
Vasos para Cabeza Ranurada

4101		T×W (mm)	D (mm)	L (mm)	(g)	(pcs.)
1		2.7×18.6	22	40	59	10
2		3.7×24	24	40	79	10
3		3.7×30	30	40	128	10

6101		T×W (mm)	D (mm)	L (mm)	(g)	(pcs.)
		6.4×33.5	35	50	205	10

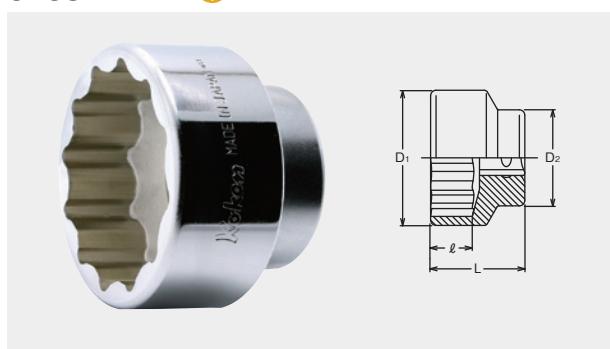
**155** Tyre Lever  
Llave de Neumáticos

155	D (mm)	d (mm)	L (mm)	(g)	(pcs.)
	22	10	170	100	10

For Motor Cycles

**4012M-43**Inhex Sockets  
Vasos Inhex

4012M.43 (mm)		D (mm)	$\ell$ (mm)	L (mm)	(g)	(pcs.)
20		26	11.5	43	130	10
21		26	11.5	43	140	10
22		26	11.5	43	145	10
24		28	11.5	43	170	10
27		32	11.5	43	226	10

**6405A-MV** 

6405A		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	$\ell$ (mm)	L (mm)	(g)	(pcs.)
2.3/16MV		74.6	53	23	52	790	2

For: MV AGUSTA



4300M(L60) (mm)		D (mm)	$\ell$ (mm)	L (mm)	H (mm)	(g)	(pcs.)
17		23.6	25	60	21	98	10
19		25.1	25	60	21	100	10
21		27.1	25	60	21	102	10

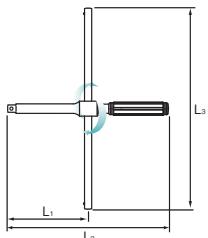


Wheel Nut Sockets

Please note that thin walled design is only for wheel nut work and Torque rating is limited.

4300M(L110) (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	$\ell$ (mm)	L (mm)	(g)	(pcs.)
17		23	22	32	110	155	10
19		25.8	22	32	110	183	10
21		26.8	22	32	110	171	10

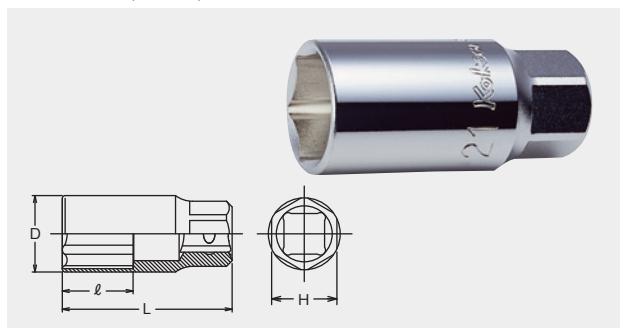
Please note that thin walled design is only for wheel nut work and Torque rating is limited.



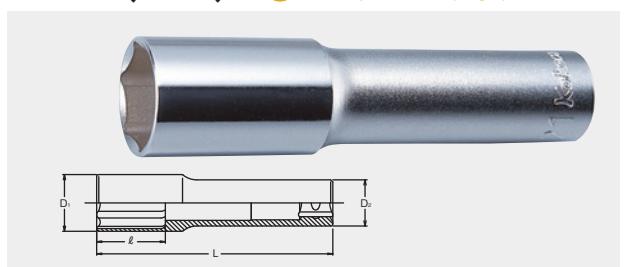
4711X		L <sub>1</sub> (mm)	L <sub>2</sub> (mm)	L <sub>3</sub> (mm)	(g)	(pce.)
		140	280	350	945	1

**4300M (L60)**

Wheel Nut Sockets (Long)  
Vasos para Ruedas (Largos)

**4300M (L110)**

Wheel Nut Sockets (Long)  
Vasos para Ruedas (Largos)

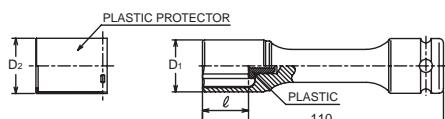
**4711X Spinning cross wrench****14201M**

PATENTED

**14145PM-110**

Wheel Nut Sockets Set  
Juego de Vasos para Rueda

Wheel Nut Sockets  
Vasos para Rueda

**14201M**

3 Pieces Set/ $\Delta\Delta$ =690g

CARDBOARD BOX: W125×H95×T34mm

Sockets

**14145PM.110 Impact Wheel Nut Sockets**

17, 19, 21

14145PM.110 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	$\ell$ (mm)	Shaft Color	(g)	(pcs.)	
17		23.7	25.2	21		223	5	* 1
19		25.7	27.2	23		231	5	* 1
21		27.5	29	25		236	5	* 1
22		29	30.5	26		248	5	* 1

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B ➔ P230~231



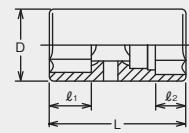
**Impact Wheel Nut Sockets-Extra Thin wall**  
Special design for wheel nut work.  
-110mm length gives socket extra reach for nuts recessed deep inside the wheel and ideal for Aluminum wheel nuts where access to nut is very tight.  
-Blue (17mm), Red (19mm), Yellow (21mm) and White (22mm), colour coded shafts make size identification easy.  
-Plastic insert helps prevent damaged to wheel nut.

Please note that thin walled design is only for wheel nut work and Torque rating is limited.

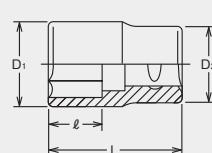


A detachable plastic protector is fitted to the socket to prevent damage to the wheel when working in tight areas.

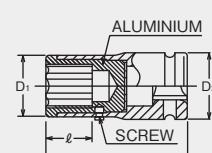
The socket size and Ko-ken mark printed on the shaft makes it easier to see if the socket is still rotating or stopped.

**14118M**  Wheel Nut Sockets, Double Ended  
Vasos para Rueda, Dos Bocas

14118M (mm)		D (mm)	$\ell_1$ (mm)	$\ell_2$ (mm)	L (mm)	$\ddot{\Delta}$ (g)	
17×19		28	15.5	13	48	150	10
19×21	1/2"	31	17.5	13	57	177	10
19×22		31	17.5	15	57	187	10

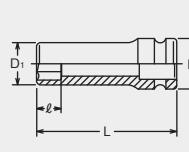
**AL4400M**  Aluminium Sockets for Wheel Nuts  
Vasos de Aluminio para Tuercas de Rueda

AL4400M (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	$\ell$ (mm)	L (mm)	$\ddot{\Delta}$ (g)	
17		29.5	27	21	43	52	10
19	1/2"	31	29	24	45	58	10

**AR14300**  Impact Sockets with exchangeable Aluminium Inlets  
Vasos de Impacto con Partes Internas de Aluminio Recambiables

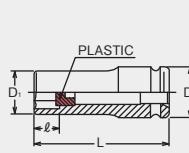
AR14300 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	$\ell$ (mm)	L (mm)	$\ddot{\Delta}$ (g)	
17		28	30	21	65	220	10
19	1/2"	30	30	24	65	223	10
21		33	30	25	65	237	10

\*1 C-Ring=1402C, Pin/O-Ring=1402A/B ➔ P230~231

**AN14300**  Impact Sockets, Aluminium alloyed, for aluminium wheel nuts  
Vasos de Impacto, de Aleación de Aluminio, para tuercas de rueda de aluminio

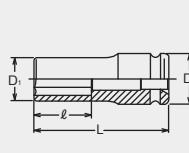
AN14300 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	$\ell$ (mm)	L (mm)	$\ddot{\Delta}$ (g)	
17		25.7	30	17	80	85	10
19	1/2"	28.2	30	19	80	89	10
21		30.7	30	21	80	93	10

\*1 C-Ring=1402C, Pin/O-Ring=1402A/B ➔ P230~231

**14113J**  Impact Sockets with Plastic Stops for Hub Cap Screws  
Vasos de Impacto con Topes de Plástico para Tornillos de Tapacubos

14113J (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	$\ell$ (mm)	L (mm)	$\ddot{\Delta}$ (g)	
17		25.7	30	14	80	251	10
19	1/2"	28.2	30	16	80	286	10
21		30.7	30	20	80	309	10

\*1 C-Ring=1402C, Pin/O-Ring=1402A/B ➔ P230~231

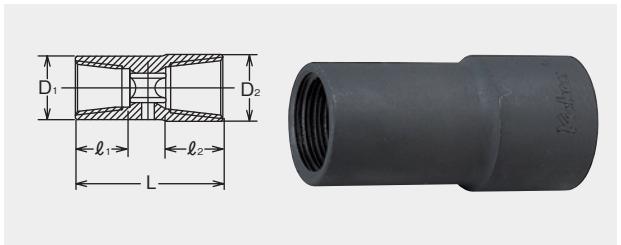
**14113M**  For Hub Cap Screws  
Para Tornillos de Tapacubos

14113M (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	$\ell$ (mm)	L (mm)	$\ddot{\Delta}$ (g)	
17		25.7	30	34	80	230	10
19	1/2"	28.2	30	38	80	262	10
21		30.7	30	42	80	285	10

\*1 C-Ring=1402C, Pin/O-Ring=1402A/B ➔ P230~231

14124 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ <sub>1</sub> (mm)	ℓ <sub>2</sub> (mm)	L (mm)		(g)		(pcs.)
21×24.5	1/2"	28	29.5	24	25	65		157		10
26×27.5		31.5	35	24.5	24.5	65		197		10

## 14124 Lock Nut Busters (Double Ended) Tronzador de Tueras (Dos Bocas)



14124/3	3 Pieces Set/=580g	
CARDBOARD BOX:W125×H91×T43mm		
Sockets	Accessory	
14124 21×24.5 26×27.5	14760-75B	



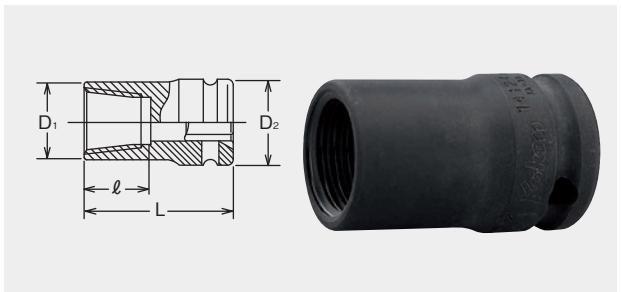
## 14124/3 Lock Nut Busters (Double Ended) in set Juego Tronzador de Tueras (Dos Bocas)



14124 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)		(g)		(pcs.)
17		20.5	25	15	50		83		* 1
18		21	25	15	50		83		* 1
18.5		23	25	15	50		95		* 1
19	1/2"	25	30	20.5	50		140		* 2
21	1/2"	28	30	20.5	50		153		* 2
24.5		29.5	30	23	50		138		* 2
26		31.5	30	23	50		147		* 2
27.5		35	30	23	50		181		* 2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B P230~231  
\*2 C-Ring=1402C, Pin/O-Ring=1402A/B

## 14124 Lock Nut Busters Tronzador de Tueras



RS14124/7	7 Pieces Set/Rail 250mm			(g)
	18, 18.5, 19, 21, 24.5, 26, 27.5			980

## RS14124/7 Socket Set on Rail Juego de Vasos en Regleta



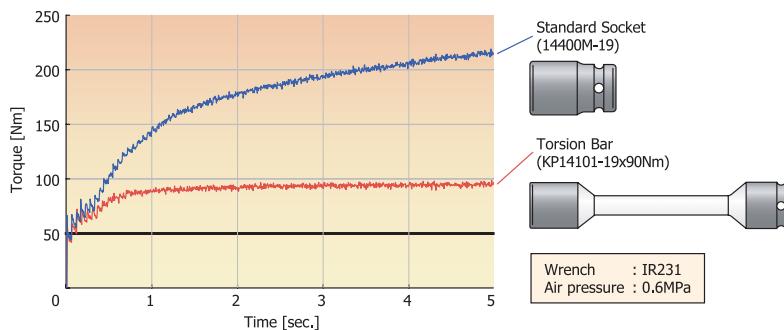
**KP14101**Torsion Bars (for tightening only)  
Barras de Torsión (Solamente para apriete)

KP14101 (mm×Nm)	D (mm)	$l$ (mm)	L (mm)	Shaft Color	Weight (g)	Line Up (pcs.)	Notes
17×110Nm	24	21	204	Blue	230	10	* 1
19× 90Nm	26	24	259	White	250	10	* 1
19×110Nm	26	24	213	Red	240	10	* 1
21×100Nm	28	27	215	Green	255	10	* 1
21×110Nm	28	27	216	Yellow	250	10	* 1
21×130Nm	28	27	207	Orange	305	10	* 1

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B → P230 ~ 231

**How to use Torsion Bars**

- 1.Do not use by a hand.
- 2.Use with a 1/2Sq. Dr. Pneumatic impact wrench.
- 3.Set air pressure 5kgf/cm<sup>2</sup>-6kgf/cm<sup>2</sup>, and adjust torque values between 190Nm to 210Nm.
- 4.Attach the torsion bar to an impact wrench and apply load. The torsion bar transmits a torque value as indicated on the item.

**KP14101/6S**Display Stand  
Expositor

PATENTED

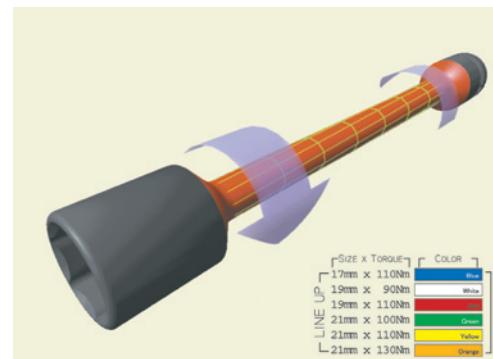
**KP14101/6H**Metal-Wall-Hanger for Workshops  
Colgador de Pared Metálico para Talleres**KP14101/6S**

6 Pieces Set/ = 2,230g

## DISPLAY STAND

## Torsion Bars

KP14101 Impact Torsion Bars (Thin walled)  
17×110Nm, 19×90Nm, 19×110Nm, 21×100Nm,  
21×110Nm, 21×130Nm

**KP14101/6H**

6 Pieces Set/ = 2,230g

## HANGER

## Torsion Bars

KP14101 Impact Torsion Bars (Thin walled)  
17×110Nm, 19×90Nm, 19×110Nm, 21×100Nm,  
21×110Nm, 21×130Nm

**14112**
 Torsion Extension Bars (for tightening only)  
Alargaderas de Torsión (solamente para apriete)


14112		D (mm)	L (mm)		(g)		(pce.)	
90NmP		25	208	206	1		* 1	
95NmP		25	202	200	1		* 1	
100NmP		25	196	198	1		* 1	
110NmP		25	213	220	1		* 1	
120NmP		25	201	219	1		* 1	
140NmP		25	205	230	1		* 1	
170NmP		25	195	257	1		* 1	

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B ➔ P230~231

**14101M**
 Torsion Bars (for tightening only)  
Barras de Torsión (solamente para apriete)


14101M (mm×Nm)		D (mm)	l (mm)	L (mm)		(g)		(pce.)	
14× 95Nm		22	11	208	230	1		* 1	
15×110Nm		23.2	11	201	230	1		* 1	
17× 60Nm		25.7	12	216	227	1		* 1	
17× 75Nm		25.7	12	228	240	1		* 1	
17× 95Nm		25.7	12	214	256	1		* 1	
17×110Nm		25.7	12	204	285	1		* 1	
17×120Nm		25.7	12	200	284	1		* 1	
19× 60Nm		28.2	13	219	237	1		* 1	
19× 90Nm		28.2	13	259	275	1		* 1	
19×110Nm		28.2	13	214	278	1		* 1	
19×120Nm		28.2	13	203	297	1		* 1	
19×135Nm		28.2	13	206	339	1		* 1	
19×170Nm		28.2	13	190	332	1		* 1	
21×100Nm		30.7	14	214	288	1		* 1	
21×120Nm		30.7	14	203	288	1		* 1	
22×160Nm		32	15	209	385	1		* 1	

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B ➔ P230~231

**16101M • 18101M**
 Torsion Bars (for tightening only)  
Barras de Torsión (solamente para apriete)


16101M (mm×Nm)		D (mm)	l (mm)	L (mm)		(g)		(pce.)	
24×180Nm		38.8	24	235	850	1		* 1	
27×450Nm		42.5	27	280	1236	1		* 1	
32×600Nm		48.8	32	280	1370	1		* 1	
33×600Nm		50	33	280	1370	1		* 1	

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B ➔ P230~231

18101M (mm×Nm)		D (mm)	l (mm)	L (mm)		(g)		(pce.)	
24×350Nm		43.5	24	300	1380	1		* 1	
27×350Nm		47	27	300	1401	1		* 1	
27×450Nm		47	27	300	1579	1		* 1	
30×500Nm		51	30	300	1563	1		* 1	
32×450Nm		53.5	32	300	1600	1		* 1	
32×550Nm		53.5	32	300	1602	1		* 1	
32×600Nm		53.5	32	300	1602	1		* 1	
32×700Nm		51.5	32	300	1630	1		* 1	
33×550Nm		55	33	300	1638	1		* 1	
33×600Nm		55	33	300	1638	1		* 1	
36×600Nm		58.5	36	300	1718	1		* 1	

\*1 C-Ring=1801C, Pin/O-Ring=1801A/B ➔ P230~231

As the torque could vary with the type and the condition of the impact wrench, we strongly recommend the control with a torque wrench.

Como el par puede variar según el estado de la llave de impacto, se recomienda utilizar una llave dinamométrica.

**6102M-400**  
**8102M-400**Extra long Sockets for wheel Nuts  
Vasos de para Rueda Extra-largos

6102M.400 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	g (g)	pce. (pce.)
41Wx21W	58	40	14	400	1880	1
32	48.5	40	32	400	1480	1
33	49.8	40	32	400	1500	1

8102M.400 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	g (g)	pce. (pce.)
41Wx21W	58	49.9	14	400	2610	1
32	48.5	49.9	32	400	2210	1
33	49.8	49.9	32	400	2220	1

6102M/8102M are for hand use only. Do not use with a power or impact wrench.

Combination type.  
41Wx21W

Extra long Socket for wheel nut

**16102M-270 · -400**  
**18102M-270 · -400**Extra long Sockets for wheel Nuts  
Vasos de Impacto para Rueda Extra-largos

16102M.270 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	g (g)	pce. (pce.)	Ø
24	38.8	44	24	270	1034	1	* 1
27	42.5	44	27	270	1088	1	* 1
30	46.3	44	30	270	1144	1	* 1
32	48.8	44	32	270	1157	1	* 1
33	50	44	32	270	1200	1	* 1
36	53.8	44	32	270	1250	1	* 1

16102M.400 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	g (g)	pce. (pce.)	Ø
24	38.8	44	24	400	1430	1	* 1
27	42.5	44	27	400	1460	1	* 1
30	46.3	44	30	400	1510	1	* 1
32	48.8	44	32	400	1530	1	* 1
33	50	44	32	400	1530	1	* 1
36	53.8	44	32	400	2180	1	* 1

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B ➔ P230~231

18102M.270 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	g (g)	pce. (pce.)	Ø
23	37.3	54	23	270	1627	1	* 1
24	38.5	54	24	270	1628	1	* 1
26	41	54	26	270	1667	1	* 1
27	42.3	54	27	270	1680	1	* 1
29	44.8	54	29	270	1680	1	* 1
30	46	54	30	270	1680	1	* 1
32	48.5	54	32	270	1680	1	* 1
33	49.8	54	32	270	1700	1	* 1
34	51	54	32	270	1750	1	* 1
36	53.5	54	32	270	1750	1	* 1
38	56	54	32	270	1822	1	* 1

18102M.400 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	g (g)	pce. (pce.)	Ø
23	37.3	54	23	400	1865	1	* 1
24	38.5	54	24	400	1869	1	* 1
26	41	54	26	400	1925	1	* 1
27	42.3	54	27	400	2272	1	* 1
29	44.8	54	29	400	2278	1	* 1
30	46	54	30	400	2266	1	* 1
32	48.5	54	32	400	2322	1	* 1
33	49.8	54	32	400	2320	1	* 1
34	51	54	32	400	2341	1	* 1
36	53.5	54	32	400	2442	1	* 1
38	56	54	32	400	2550	1	* 1

\*1 C-Ring=1801C, Pin/O-Ring=1801A/B ➔ P230~231

PW6 (mm×mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖ (g)	📦 (pcs.)	⌚
32×17		47	44	12	75	633	2	* 1
35×17		50	44	13	75	673	2	* 1
38×20	3/4"	55	44	14	75	708	2	* 1
41×19	3/4"	58	44	14	80	840	2	* 1
41×20		58	44	14	80	840	2	* 1
41×21		58	44	14	80	831	2	* 1

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B ➔ P230~231

PW8 (mm×mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖ (g)	📦 (pcs.)	⌚
35×17		50	54	13	83	935	2	* 1
38×20		55	54	14	83	1038	2	* 1
41×19	1"	58	54	14	87	1100	2	* 1
41×20		58	54	14	87	1096	2	* 1
41×21		58	54	14	87	1089	2	* 1

\*1 C-Ring=1801C, Pin/O-Ring=1801A/B ➔ P230~231

SIZE	VEHICLE	SIZE	VEHICLE
32 × 17	TOYOTA (~2t)	41 × 19	MAZDA (3~4t)
35 × 17	NISSAN (~3t) MITSUBISHI (~1t) MAZDA (~2t) ISUZU (~3.5t)	41 × 20	TOYOTA (~2t) DAIHATSU (2~3.5t) HINO (2~3.5t)
38 × 20	MITSUBISHI (2~3.5t)	41 × 21	NISSAN (~4t~) MITSUBISHI (~2t~) ISUZU (~4t~) HINO (~4t~)

**PW8P/4** 4 Pieces Set/⚖=4,250g

CARDBOARD BOX: W240×H95×T70mm

Sockets

PW8P Impact Rear Wheel Nut Sockets  
35×17, 38×20, 41×19, 41×21

PW8P (mm×mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖ (g)	Shaft Color	📦 (pces.)	⌚
35×17		50	54	13	83	935	Black	5	* 1
38×20	1"	55	54	14	83	1038	Red	5	* 1
41×19	1"	58	54	14	87	1100	Green	5	* 1
41×21		58	54	14	87	1089	Yellow	5	* 1

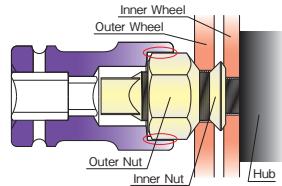
\*1 C-Ring=1801C, Pin/O-Ring=1801A/B ➔ P230~231

PW8L (mm×mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖ (g)	📦 (pces.)	⌚
41×21	1"	58	54	15	105	1263	1	* 1

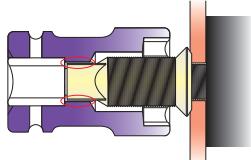
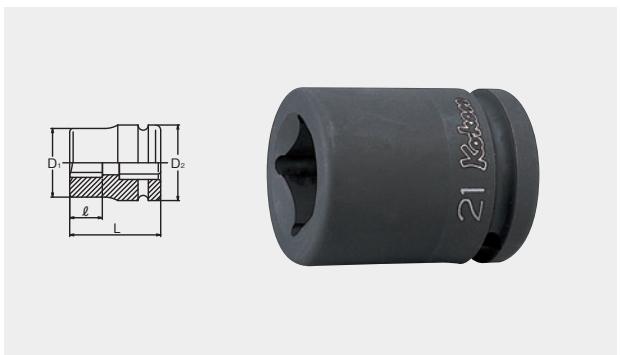
\*1 C-Ring=1801C, Pin/O-Ring=1801A/B ➔ P230~231

**PW6 • PW8**
 Rear Wheel Nut Sockets  
Vasos de Tuerca de Rueda Interna


Tightening / Loosening Outer Nut



Tightening / Loosening Inner Nut

**PW8P/4**
 Socket set of Rear Wheel Nut Sockets  
Juego de Vasos de Tuerca de Rueda Interna
**PW8P****PW8L**
 Rear Wheel Nut Socket (long)  
Vasos de Tuerca de Rueda Interna (largos)
**PW6 • PW8**
 Rear Wheel Nut Sockets  
Vasos de Tuerca de Rueda Interna


\*1 C-Ring=1600C, Pin/O-Ring=1601A/B ➔ P230~231

PW8 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖ (g)	📦 (pces.)	⌚
17		40	44	19	53	433	2	* 1
19	3/4"	40	44	19	53	419	2	* 1
20	3/4"	44	44	21	55	483	2	* 1
21		44	44	23	57	491	2	* 1

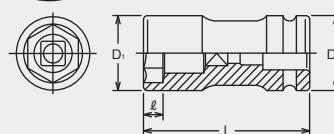
\*1 C-Ring=1801C, Pin/O-Ring=1801A/B ➔ P230~231

\*1 C-Ring=1801C, Pin/O-Ring=1801A/B ➔ P230~231

**16316M · 16316A**

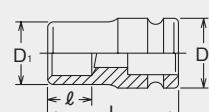
Rear Wheel Nut Sockets

Vasos de Tuerca de Rueda Interna

**18316M · 18316A****16317M · 16317A**

Rear Wheel Nut Sockets

Vasos de Tuerca de Rueda Interna

**18317M · 18317A**

16316M (mm×mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	秤 (g)	袋 (pce.)	€
35×17		52	44	10	90	865	1	* 1
38×20	3/4"	56	44	13	100	952	1	* 1
41×19		59	44	12	100	1037	1	* 1
41×21		59	44	15	100	963	1	* 1

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B ➔ P230~231

16316A (inch×inch)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	秤 (g)	袋 (pce.)	€
1.1/2×13/16	3/4"	56	44	13	100	940	1	* 1

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B ➔ P230~231

18316M (mm×mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	秤 (g)	袋 (pce.)	€
35×17		52	54	10	108	1153	1	* 1
38×20	1"	56	54	13	108	1133	1	* 1
41×19		59	54	12	108	1200	1	* 1
41×21		59	54	15	108	1155	1	* 1

\*1 C-Ring=1801C, Pin/O-Ring=1801A/B ➔ P230~231

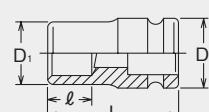
18316A (inch×inch)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	秤 (g)	袋 (pce.)	€
1.1/2×13/16	1"	59	54	13	108	1120	1	* 1

\*1 C-Ring=1801C, Pin/O-Ring=1801A/B ➔ P230~231

**16317M · 16317A**

Rear Wheel Nut Sockets

Vasos de Tuerca de Rueda Interna

**18317M · 18317A**

16317M (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	秤 (g)	袋 (pce.)	€
17		40	44	22.5	67	485	1	* 1
19		40	44	22.5	67	462	1	* 1
20	3/4"	44	44	22.5	67	517	1	* 1
21		44	44	22.5	67	489	1	* 1
22		44	44	22.5	67	482	1	* 1

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B ➔ P230~231

16317A (inch)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	秤 (g)	袋 (pce.)	€
13/16	3/4"	44	44	22.5	67	489	1	* 1

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B ➔ P230~231

18317M (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	秤 (g)	袋 (pce.)	€
17		40	54	22.5	72	682	1	* 1
17.5		40	54	22.5	72	677	1	* 1
19		43	54	22.5	72	705	1	* 1
20	1"	45	54	22.5	72	723	1	* 1
20.5		45	54	22.5	72	723	1	* 1
21		45	54	22.5	72	703	1	* 1
22		45	54	22.5	72	696	1	* 1

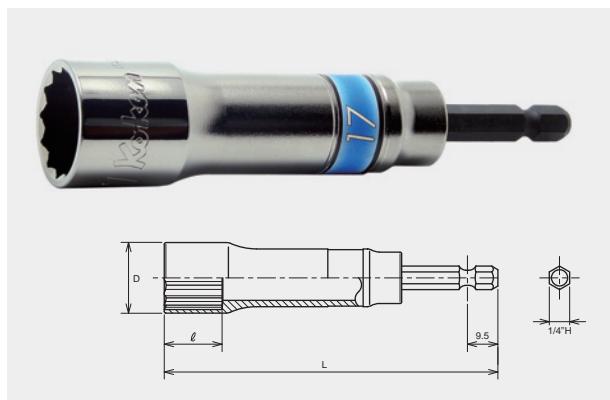
\*1 C-Ring=1801C, Pin/O-Ring=1801A/B ➔ P230~231

18317A (inch)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	秤 (g)	袋 (pce.)	€
13/16	1"	45	54	22.5	72	703	1	* 1

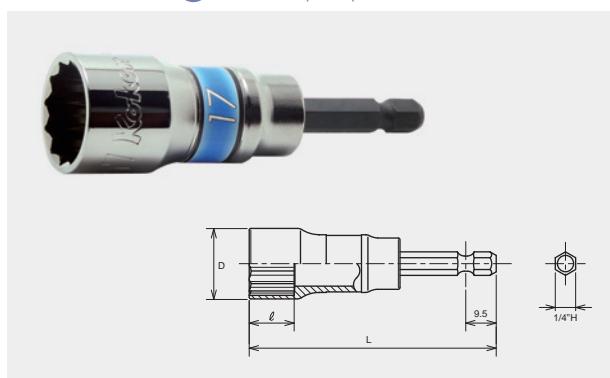
\*1 C-Ring=1801C, Pin/O-Ring=1801A/B ➔ P230~231

# Construction



**BD014E**12-point Nut Setters, deep  
Vasos Hex para Apretar Tuercas, largos

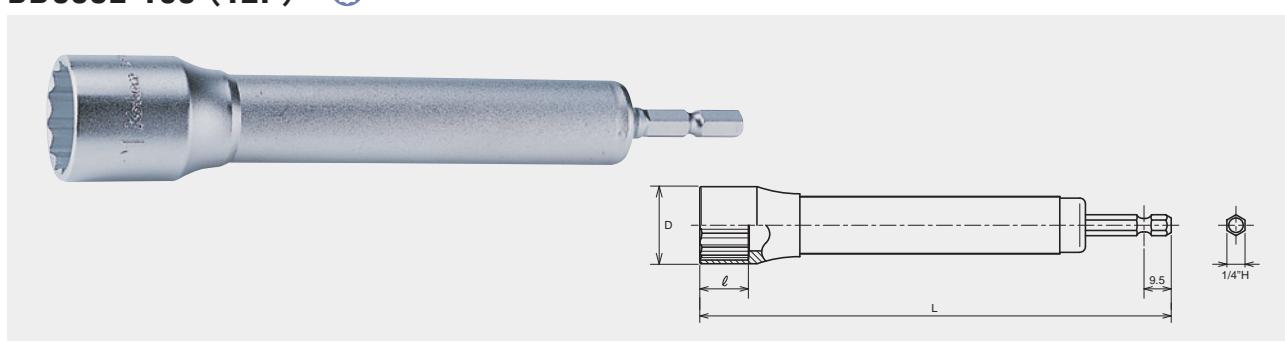
BD014E (mm)	D (mm)	$\ell$ (mm)	L (mm)	$\text{g}$ (g)	(pcs.)
8	12	12	104	50	10
10	14	12	104	58	10
12	16.5	18	104	73	10
13	17.5	18	104	78	10
14	19	18	104	83	10
17	22.5	18	104	111	10
19	24.5	18	104	128	10
21	27	18	104	150	10
22	28	18	104	157	10
24	30.3	18	104	180	10

**BD014SE**12-point Nut Setters  
Vasos Hex para Apretar Tuercas

BD014SE (mm)	D (mm)	$\ell$ (mm)	L (mm)	$\text{g}$ (g)	(pcs.)
8	12	12	77	35	10
10	14	12	77	38	10
12	16.5	14	77	48	10
13	17.5	14	77	51	10
14	19	14	77	54	10
17	22.5	14	77	76	10
19	24.5	14	77	83	10
21	27	14	77	104	10
22	28	14	77	120	10
24	30.3	14	77	140	10

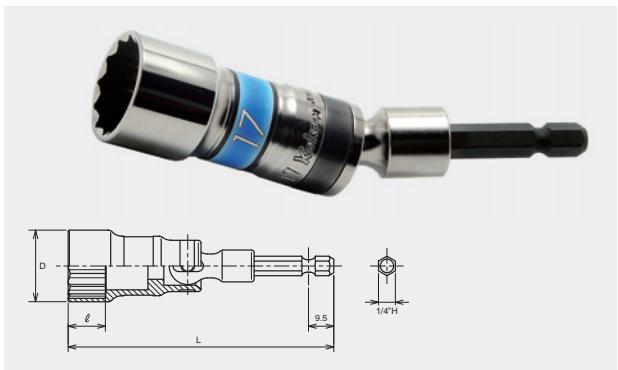
**BD008E-165 (12P)**

Long Sockets



BD008E-165 (mm)	D (mm)	$\ell$ (mm)	L (mm)	$\text{g}$ (g)	(pcs.)
17(12P)	22.5	17	165	178	10
19(12P)	24.5	17	165	195	10
21(12P)	27	17	165	233	10

BD011SE (mm)	D (mm)	$\ell$ (mm)	L (mm)	(g)	(pcs.)
10	14	12	100	85	10
12	16.5	12	100	90	10
13	17.5	12	100	95	10
14	19	12	100	100	10
17	22.5	14	100	115	10
19	24.5	14	100	120	10
21	27	14	100	140	10
22	28	14	100	150	10

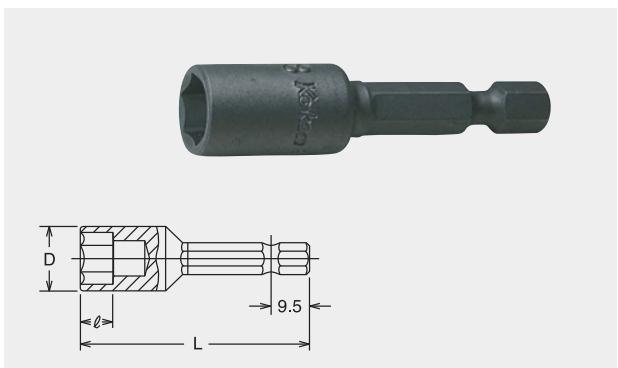
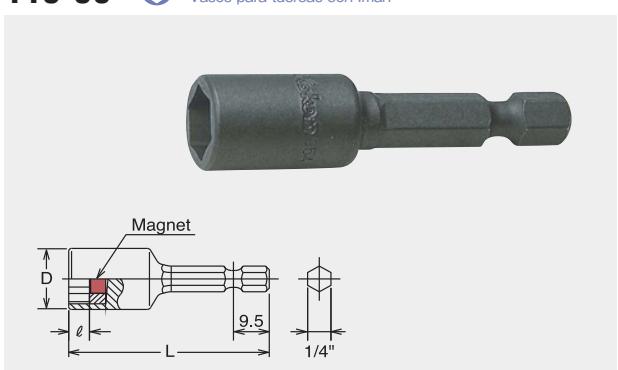
**BD011SE**12-point Universal Joint Nut Setters  
Vasos Hex para Apretar Tuercas con Articulación Universal

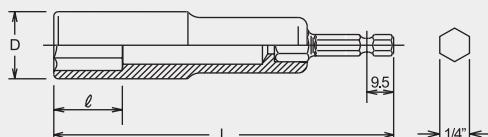
113.50 (mm)	D (mm)	$\ell$ (mm)	L (mm)	(g)	(pcs.)
5.5	9	4	50	15	10
6	10	5	50	17	10
7	11	5	50	19	10
8	12	6	50	20	10
10	14	7	50	31	10
12	17	8	50	39	10
13	18	8	50	42	10
14	19	9	50	46	10

113.50 (inch)	D (mm)	$\ell$ (mm)	L (mm)	(g)	(pcs.)
1/4	10	5	50	17	10
5/16	12	6	50	20	10
3/8	14	7	50	31	10
1/2	18	8	50	42	10

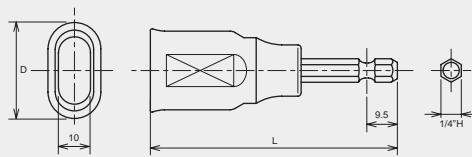
115.50 (mm)	D (mm)	$\ell$ (mm)	L (mm)	(g)	(pcs.)
5.5	9	2.1	50	15	10
6	10	2.4	50	17	10
7	11	2.8	50	19	10
8	12	3.5	50	20	10
10	14	4.2	50	29	10
12	17	5.6	50	40	10
13	18	6	50	50	10
14	19	6.4	50	60	10

115.50 (inch)	D (mm)	$\ell$ (mm)	L (mm)	(g)	(pcs.)
1/4	10	1.8	50	17	10
1/4(DP2.4)	10	2.4	50	17	10
5/16	12	3.5	50	20	10
3/8	14	4.2	50	29	10
1/2	18	6	50	50	10

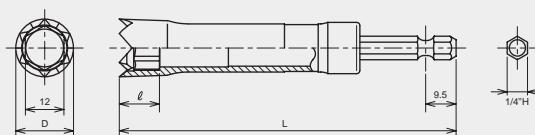
**113-50**Nut Setters  
Vasos para apretar tuercas Hexagonales**115-50**Nut Setters with Magnet  
Vasos para tuercas con Imán

**ANBD007E**  6-point Aluminium Nut Setters  
Vasos Hex para Apretar Tueras

ANBD007E (mm)	D (mm)	$\ell$ (mm)	L (mm)	 (g)	 (pcs.)
8	14	12	115	37	10
9	15	14	115	40	10
10	16	15	115	43	10
11	18	17	115	48	10
12	19	18	115	50	10
13	20	20	115	53	10
14	21	21	115	57	10
17	25	26	115	74	10
19	27	29	115	80	10
21	30	32	115	91	10

**BD003E**

BD003E	D (mm)	L (mm)	 (g)	 (pcs.)
BD003E	29	78	71	10

**BD013E**

BD013E (mm)	D (mm)	$\ell$ (mm)	L (mm)	 (g)	 (pcs.)
BD013E	17.8	12.5	105	80	2

**BD008E-300 · -500 · -700 (12P)**

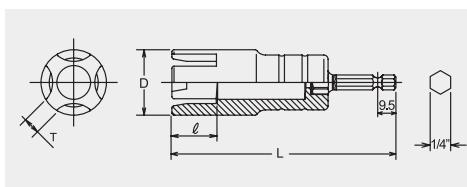
Long Socket



BD008E.300 (mm)	D (mm)	$\ell$ (mm)	L (mm)	 (g)	 (pcs.)
17(12P)	22.5	17	300	181	2

BD008E.700 (mm)	D (mm)	$\ell$ (mm)	L (mm)	 (g)	 (pcs.)
17(12P)	22.5	17	700	392	2

BD008E.500 (mm)	D (mm)	$\ell$ (mm)	L (mm)	 (g)	 (pcs.)
17(12P)	22.5	17	500	290	2



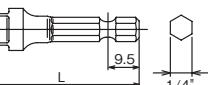
**BD017E** Wing Bolt Socket for Electric Drill  
Vaso para Tuerca de Orejetas para Taladro eléctrico



BD017E	D (mm)	T (mm)	l (mm)	L (mm)	⚖ (g)	📦 (pcs.)
	31	7.3	21	104	158	10

BD018	D (mm)	T (mm)	l (mm)	L (mm)	⚖ (g)	📦 (pcs.)	⌚ (1)
	[3/8"]	31	7.3	21	45	113	10

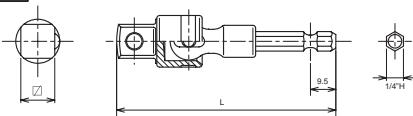
\*1 C-Ring=1302C, Pin/O-Ring=1401A/B ➔ P230~231



112-50B	D (mm)	L (mm)	⚖ (g)	📦 (pcs.)
	[3/8"]	6.35	50	22

	D (mm)	L (mm)	⚖ (g)	📦 (pcs.)
135E-60B	[1/2"]	6.35	60	45

BD024E	D (mm)	L (mm)	⚖ (g)	📦 (pcs.)
3/8	[3/8"]	6.35	78	70
1/2	[1/2"]	6.35	82	75

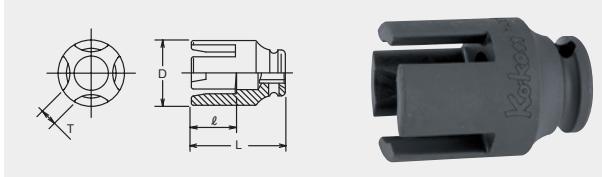


123PN.65 123PG.65 (PH)	D (mm)	L (mm)	⚖ (g)	📦 (pcs.)
1	6.35	65	13	10
2	6.35	65	13	10
3	6.35	65	14	10

123PN.110 123PG.110 (PH)	D (mm)	L (mm)	⚖ (g)	📦 (pcs.)
1	6.35	110	25	10
2	6.35	110	25	10
3	6.35	110	26	10

123PN.150 123PG.150 (PH)	D (mm)	L (mm)	⚖ (g)	📦 (pcs.)
1	6.35	150	36	10
2	6.35	150	36	10
3	6.35	150	37	10

**BD018** Wing Bolt Socket  
Vaso para Tuerca de Orejetas



**112-50B** Adaptor  
Adaptador



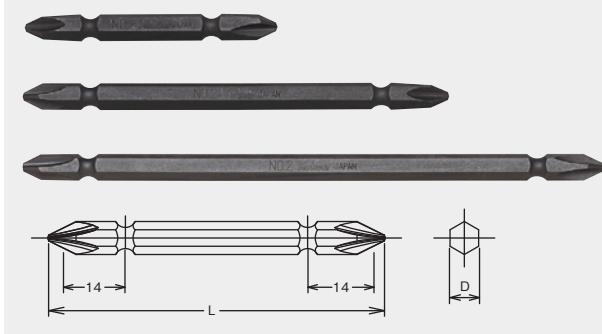
**135E-60B** Adaptor  
Adaptador



**BD024E** Universal Adapters  
Adaptadores Universal



**123PN-65 · -110 · -150** Double ended Bits  
Puntas Phillips, simétricas  
**123PG-65 · -110 · -150** Magnetic type



**BD004**

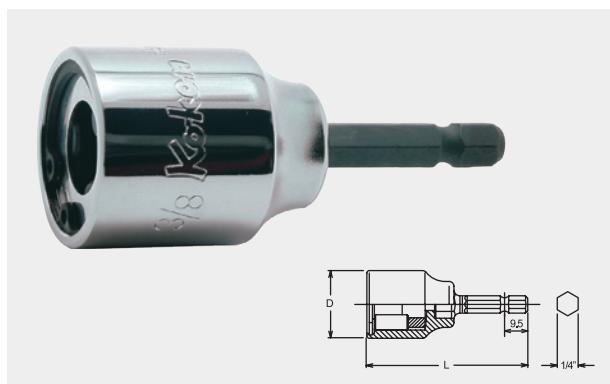
Impact Screw and Stud Setters  
Vasos de Impacto para Atornillar Pernos y Espárragos



BD004 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
12.5 × 10		30	25	70	236	5
12.5 × 13	1/2"	38	30	75	388	3
12.5 × 16		38	30	75	369	3
20 × 19		48	44	90	775	3
20 × 22	3/4"	48	44	90	752	3
20 × 25		62	44	95	1184	2
20 × 29		62	44	95	1148	2

**162E**

Stud Setters  
Vasos de Atornillar Espárragos



162E (mm)	D (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
10	27.9	66	107	10

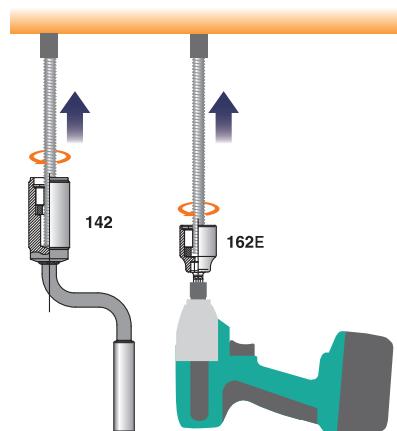
162E (inch)	D (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
1/4	23	66	83	10
5/16	23	66	82	10
3/8	27.9	66	107	10
1/2	27.9	66	108	10

**142**

Stud Setters  
Vasos de Atornillar Espárragos



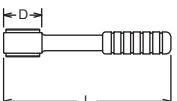
142 (inch)	L (mm)	⚖️ (g)	📦 (pce.)
5/16	190	304	1
3/8	190	361	1
1/2	190	354	1



141S (mm)	D (mm)	L (mm)	(g)	(pce.)
6	28	120	150	1
8	28	120	150	1
10	32	120	153	1
12	32	120	152	1

141S (inch)	D (mm)	L (mm)	(g)	(pce.)
5/16	28	120	150	1
3/8	32	120	153	1
1/2	32	120	152	1

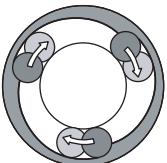
## 141S Stud Puller Ratchets Extractores de Espárragos de Carraca



141 (mm)	D (mm)	L (mm)	(g)	(pce.)
6	28	205	215	1
8	28	205	215	1
10	32	205	234	1
12	32	205	233	1

141 (inch)	D (mm)	L (mm)	(g)	(pce.)
5/16	28	205	215	1
3/8	32	205	234	1
1/2	32	205	233	1

## 141 Stud Puller Ratchets Extractores de Espárragos de Carraca



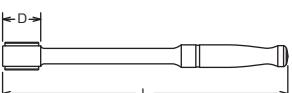
Stud Puller Ratchet (141S/141/141P)

The three roller system can protect the studs from damage.

El sistema de tres rodillos puede proteger los espárragos de cualquier daño

141P (mm)	D (mm)	L (mm)	(g)	(pce.)
6	28	205	210	1
8	28	205	210	1
10	32	205	229	1
12	32	205	227	1

## 141P Stud Puller Ratchets Extractores de Espárragos de Carraca



1201	4 Pieces Set/ $\Sigma$ =973g
METAL CASE:W240×H100×T32mm	
Pullers	
141S Stud Puller Ratchets 6, 8, 10, 12	



## 1201 Stud Puller Ratchets Set Juego de Extractores de Espárragos de Carraca



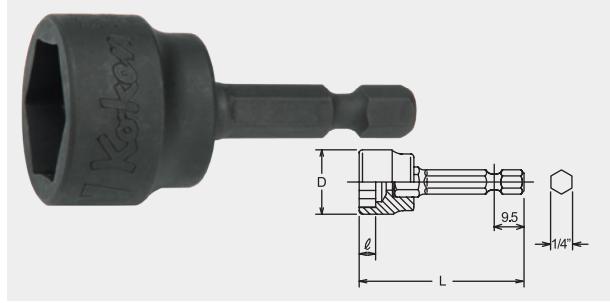
**BD14400MJ**6-point Sockets for Anchor Screws  
Vasos Hexagonales para Pernos de Anclaje

BD14400MJ (mm)	D (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	l (mm)	L (mm)	g (g)	(pcs.)
13	20.7	25	5	38	140	10	* 1
15	23.2	30	5	38	145	10	* 2
16	24.5	30	6.5	38	145	10	* 2
17	25.7	30	6.5	38	145	10	* 2
19	28.2	30	7.5	38	145	10	* 2
21	30.7	30	9	38	185	10	* 2
24	34.5	30	10.5	38	190	10	* 2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B

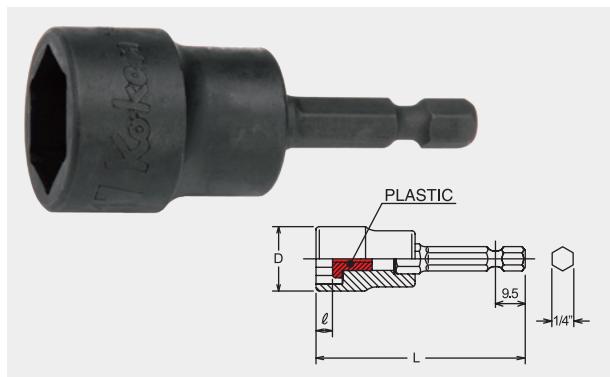
\*2 C-Ring=1402C, Pin/O-Ring=1402A/B

→ P230 ~ 231

**BD016E**6-point Sockets for Anchor Screws  
Vasos Hexagonales para Pernos de Anclaje**BD016E (SF)**

BD016E (mm)	D (mm)	l (mm)	L (mm)	g (g)	(pcs.)
13	19.5	4	50	43	10
17	24.5	5	50	56	10
19	27	6	50	68	10

BD016E (mm)	D (mm)	l (mm)	L (mm)	g (g)	(pcs.)
13SF	19.5	4	50	43	10
17SF	24.5	5	50	56	10
19SF	27	6	50	68	10

**BD016JE**6-point Sockets for Anchor Screws  
Vasos Hexagonales para Pernos de Anclaje**BD016JE (SF)**

BD016JE (mm)	D (mm)	l (mm)	L (mm)	g (g)	(pcs.)
13	19.5	5	60	66	10
17	24.5	6.5	60	80	10
19	27	7.5	60	90	10

BD016JE (mm)	D (mm)	l (mm)	L (mm)	g (g)	(pcs.)
13SF	19.5	5	60	66	10
17SF	24.5	6.5	60	80	10
19SF	27	7.5	60	90	10

HA001	D (mm)	$\ell$ (mm)	L (mm)	(g)	(pcs.)
10(1.5)	15.5	13	47	90	10
12(1.25)	17.2	15	49	100	10
16(2.0)	21	18	52	125	10
20(2.5)	24.5	21	56	155	10
22(2.5)	26.5	27	61	175	10
24(3.0)	28	28	62	185	10
W3/8	14.8	13	47	90	10
W1/2	17.6	15	49	105	10

## HA001 Stud Setters Vasos para Atomillar Espárragos

PATENTED

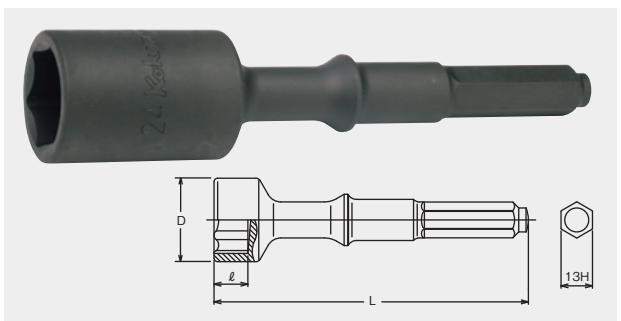


HA002.130	D (mm)	$\ell$ (mm)	L (mm)	(g)	(pcs.)
24	34.5	14	130	246	10

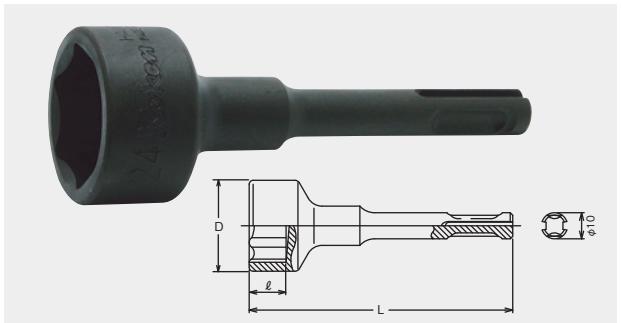
HA002.160	D (mm)	$\ell$ (mm)	L (mm)	(g)	(pcs.)
24	34.5	14	160	465	10

HA003.100	D (mm)	$\ell$ (mm)	L (mm)	(g)	(pcs.)
24	34.5	14	100	155	10

## HA002-130 · -160 Socket for HA001 Vaso para HA001

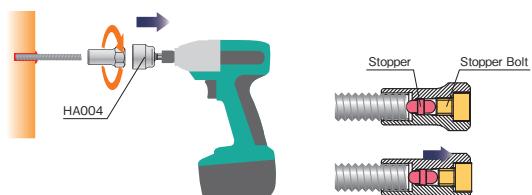
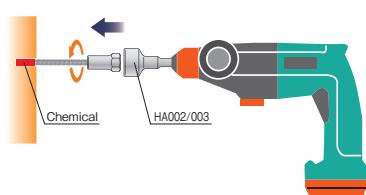
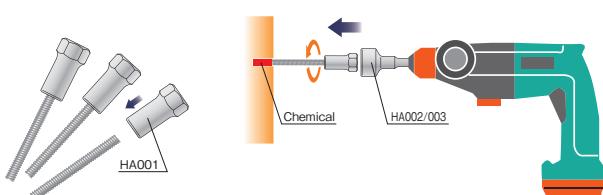
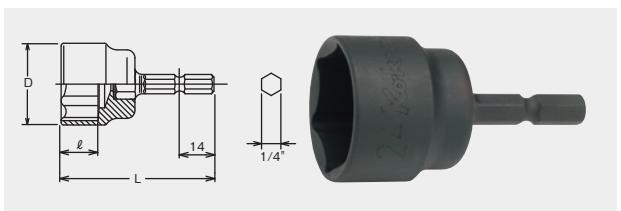


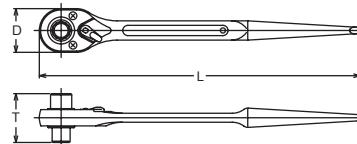
## HA003-100 Socket for HA001 Vaso para HA001



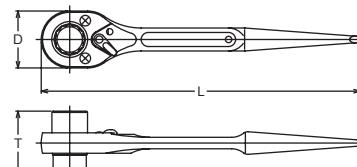
HA004	D (mm)	$\ell$ (mm)	L (mm)	(g)	(pcs.)
24	31	16.5	58	91	10

## HA004

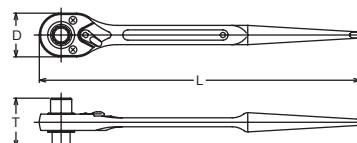


**170S**Spud Handle Ratchets  
Llaves de Carraca con Mango de Cola

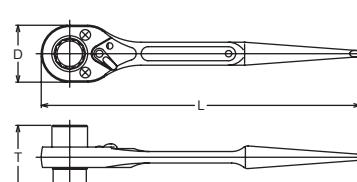
170S (mm)	D (mm)	T (mm)	L (mm)	⚖️ (g)	📦 (pce.)
<b>10×12</b>	34	38	250	260	1
<b>12×14</b>	34	38	250	260	1

**171S**Spud Handle Ratchets(Short)  
Llaves de Carraca con Mango de Cola(Cortas)

171S (mm)	D (mm)	T (mm)	L (mm)	⚖️ (g)	📦 (pce.)
<b>14×17</b>	44.6	50	250	460	1
<b>17×19</b>	44.6	50	250	460	1
<b>17×21</b>	44.6	50	250	460	1
<b>19×21</b>	44.6	50	250	460	1

**171**Spud Handle Ratchets(Long)  
Llaves de Carraca con Mango de Cola(Largas)

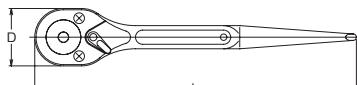
171 (mm)	D (mm)	T (mm)	L (mm)	⚖️ (g)	📦 (pce.)
<b>14×17</b>	44.6	50	380	630	1
<b>17×19</b>	44.6	50	380	630	1
<b>17×21</b>	44.6	50	380	630	1
<b>19×21</b>	44.6	50	380	630	1

**172**Spud Handle Ratchets  
Llaves de Carraca con Mango de Cola

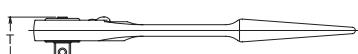
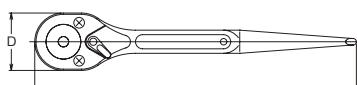
172 (mm)	D (mm)	T (mm)	L (mm)	⚖️ (g)	📦 (pce.)
<b>21×26</b>	68	58	380	1100	1
<b>22×24</b>	68	58	380	1100	1
<b>23×26</b>	68	58	380	1100	1
<b>24×27</b>	68	58	380	1100	1
<b>26×32</b>	68	63	380	1100	1

**171SB-1/2**Spud Handle Ratchet with Push Button(short)  
Llave de Carraca con Mango de Cola con Botón(corta)

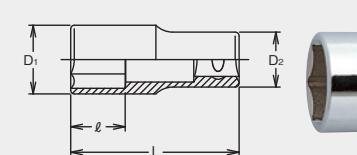
171SB-1/2		D (mm)	T (mm)	L (mm)		(g)		(pce.)
		44.6	33	250		480		1

**171B-1/2**Spud Handle Ratchet with Push Button(Long)  
Llave de Carraca con Mango de Cola con Botón(larga)

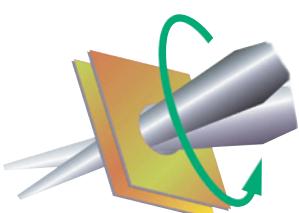
171B-1/2		D (mm)	T (mm)	L (mm)		(g)		(pce.)
		44.6	33	380		650		1

**4300TW** 6-point Sockets  
Vasos Hexagonales

4300TW (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)		(g)		(pcs.)
14		20.3	21	15	77		120		10
17		24	21.8	18	77		130		10
19		26.5	21.8	20	77		150		10
21		29	21.8	23	77		150		10

**1205**Set  
Juego

1205	5 Pieces Set/ = 1,200g	
BAG	Sockets	Accessory
	4300TW Sockets 14, 17, 19, 21	171B-1/2





Ko-ken welcomes customer's enquiries for special tools.  
New items can be designed and manufactured according to customers requirements. Please enquire through your distributors.

Ko-ken da la bienvenida a todas las solicitudes por herramientas especiales de nuestros clientes.

Productos nuevos pueden ser diseñados y fabricados de acuerdo a sus necesidades. Por favor haga su solicitud a través nuestra red de distribuidores.

# Renewal Kits



## Renewal Kits

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM

DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECANICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE REPUESTO

**2749RK**



**2752RK** 2752N



**2753RK** 2753N, 2753PS, 2753PSKR, 2753P, 2753P-160,  
2753J, 2774PS, 2774JS, 2774N, 2774P, 2774J



**2753BRK** 2753NB, 2753PB, 2753JB



**2749RK-3/8** 2749PS-3/8, 2749N-3/8, 2749P-3/8  
2774PS-3/8, 2774JS-3/8



**3749RK** 3749S, 3749N



**3749BRK** 3749SB



**3752RK** 3752N, 3752J, 3757, 3776N, 3776P, 3776J



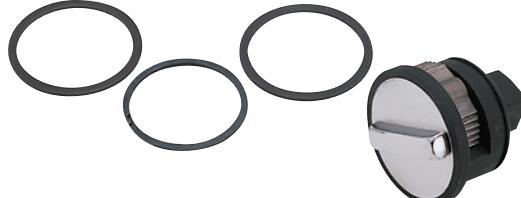
**3753RK** 3753SM, 3753N, 3753P, 3753P-250, 3753J, 3774PS  
3774N, 3774P, 3774J, 3774NL, 3774PL, 3774JL



**3753BRK** 3753SMB, 3753NB, 3753PB, 3753JB  
3774NB, 3774PB, 3774JB, 3774JBL



	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2749RK			(g)
2752RK			30
2753RK		<input checked="" type="checkbox"/> 1/4"	42
2753BRK			30
2749RK-3/8			31
3749RK			45
3749BRK			70
3752RK		<input checked="" type="checkbox"/> 3/8"	84
3753RK			84
3753BRK			76
			77
			(pce.)
			1
			1
			1
			1
			1
			1
			1
			1

**3749SRK-1/2** 3749S-1/2**3749SBRK-1/2** 3749SB-1/2**4749RK** 4749N-250  
4749N-380, 4749J-380**4750RK** 4750N, 4750P, 4750J**4750BRK** 4750NB, 4750PB, 4750JB**4752RK** 4752N, 4752J**4753RK** 4753N, 4753P, 4753P-410, 4753J  
4774N, 4774P, 4774P-450, 4774J**4753BRK** 4753NB, 4753PB, 4753JB  
4774NB, 4774PB, 4774JB**6749RK** 6749, 6749-1000**6752RK** 6752**8749RK** 8749

	<input type="checkbox"/>		(g)		(pce.)
3749SRK-1/2			120		1
3749SBRK-1/2			120		1
4749RK			130		1
4750RK			130		1
4750BRK			130		1
4752RK			140		1
4753RK			130		1
4753BRK			130		1
6749RK	<input checked="" type="checkbox"/>		580		1
6752RK	<input checked="" type="checkbox"/>		600		1
8749RK	<input checked="" type="checkbox"/>		800		1

## Renewal Kits

HAND  
MANUALES

Z-SERIES

INDUSTRIAL  
INDUSTRIALES

TITANIUM

DE TITANIO

MULTIPLIER  
MULTIPLICADOR

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS

DESTORNILLADORES

IMPACT  
DE IMPACTO

POWER  
MECANICOS

AUTOMOTIVE

CONSTRUCTION  
CONSTRUCCIÓN

RENEWAL KITS  
JUEGOS DE REPUESTO

**2755RK**



**2768RK**



**3755RK**



**3768RK**



**4755RK**



**4768RK**



**6755RK**



**6768RK**



**8768RK**



RENEWAL KITS JUEGOS DE REPUESTO	Ø	Weight (g)	(pce.)
2755RK	[1/4"]	40	1
3755RK	[3/8"]	98	1
4755RK	[1/2"]	137	1
6755RK	[3/4"]	550	1

	Ø	Weight (g)	(pce.)
2768RK	[1/4"]	9	1
3768RK	[3/8"]	21	1
4768RK	[1/2"]	60	1
6768RK	[3/4"]	175	1
8768RK	[1"]	475	1

**3112RK****4112RK****6112RK**

	<input type="checkbox"/>	(pce.)
3112RK	<input checked="" type="checkbox"/> 3/8"	1
4112RK	<input checked="" type="checkbox"/> 1/2"	1
6112RK	<input checked="" type="checkbox"/> 3/4"	1

4100MRK (mm)	<input type="checkbox"/>	(pce.)
6		1
7		1
8		1
9		1
10		1
10.5		1
11		1
12		1
14		1
16		1

4100ARK (inch)	<input type="checkbox"/>	(pce.)
1/4		1
5/16		1
3/8		1
7/16		1
1/2		1
9/16		1
5/8		1

6100MRK (mm)	<input type="checkbox"/>	(pce.)
18		1
20		1
22		1
24		1
27		1
28		1
29		1
30		1

**4100MRK  
4100ARK****6100MRK**

## HAND SOCKETS / Sizes

Standard Socket



Deep Socket



SOCKET	1/4" $\odot$		3/8" $\odot$		1/2" $\odot$		3/4" $\odot$		1" $\odot$
	Standard	Deep	Standard	Deep	Standard	Deep	Standard	Deep	Deep
2400M 2400A	●		2300M 2300A	●	3400M 3400A	●	4300M 4300A	●	6400M 6400A
2405M 2405A	●		2305M 2305A	●	3405M 3405A	●	4305M 4305A	●	6405M 6405A
3 1/8	●								
4	●								
4.5	●								
5 3/16	●								
5.5 7/32	●								
6 1/4	●								
7 9/32	●								
8 5/16	●								
9 11/32	●								
10 3/8	●								
11 7/16	●								
12	●								
13 1/2	●								
14 9/16	●								
15 19/32									
16 5/8									
17 21/32									
18 11/16									
19 3/4									
20 25/32									
21 13/16									
22 7/8									
23									
24 15/16									
25									
26 1									
27 1- 1/16									●
28									●
29 1- 1/8									●
30 1- 3/16									●
31									●
32 1- 1/4									●
33 1- 5/16									●
34									●
35 1- 3/8									●
36									●
37 1- 7/16									●
38 1- 1/2									●
39									●
40 1- 9/16									●
41 1- 5/8									●
42									●
43 1-11/16									●
44 1- 3/4									●
45									●
46 1-13/16									●
47									●
48 1- 7/8									●
1-15/16									●
50 2									●
52 2- 1/16									●
54 2- 1/8									●
55									●
56 2- 3/16									●
57 2- 1/4									●
58 2- 5/16									●
60 2- 3/8									●
2- 7/16									●
63 2- 1/2									●
65 2- 9/16									●
67 2- 5/8									●
2-11/16									●
70 2- 3/4									●
71 2-13/16									●
2- 7/8									●
75 2-15/16									●
3									●
80 3- 1/8									●
85 3- 1/4									●
90 3- 1/2									●
95 3- 3/4									●
100									●

Standard Socket



Deep Socket



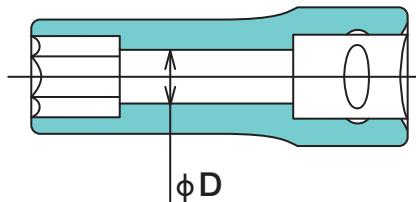
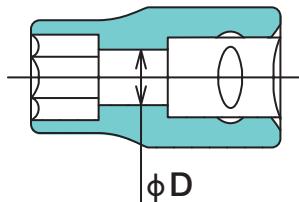
SOCKET	1/4"		3/8"		1/2"		3/4"		1"	
	Standard	Deep	Standard	Deep	Standard	Deep	Standard	Deep	Standard	Deep
(mm) (inch)	12400M 12400A	13400M 13400A	13300M 13300A	14400M 14400A	14300M 14300A	16400M 16400A	16300M 16300A	18400M 18400A	18300M 18300A	
4	●									
4.5	●									
5	●									
5.5	●									
6	●		●	●						
7	●		●	●						
8	●		●	●	●					
9	●		●	●	●					
10	●		●	●	●					
11	●		●	●	●					
12	●		●	●	●					
13	●		●	●	●					
14	●		●	●	●					
15			●	●	●					
16	●		●	●	●					
17	●		●	●	●		●	●		
18			●	●	●					
19	●		●	●	●		●	●		●
20			●	●	●					
21	●		●	●	●		●	●		●
22	●		●	●	●		●	●		●
23	●			●	●		●	●		●
24	●			●	●		●	●		●
25	1				●		●	●		●
26					●		●	●		●
27	1- 1/16				●		●	●		●
28					●		●	●		●
29	1- 1/8				●		●	●		●
30	1- 3/16				●		●	●		●
31					●		●	●		●
32	1- 1/4				●		●	●		●
33					●		●	●		●
34	1- 5/16						●	●		●
35	1- 3/8						●	●		●
36	1- 7/16						●	●		●
38	1- 1/2						●	●		●
40	1- 9/16						●	●		●
41	1- 5/8						●	●		●
42	1-11/16						●	●		●
45	1- 3/4						●	●		●
46	1-13/16						●	●		●
	1- 7/8						●	●		●
	1-15/16						●	●		●
50	2						●	●		●
52	2- 1/16						●	●		●
54	2- 1/8						●	●		●
55	2- 3/16						●	●		●
56	2- 1/4						●	●		●
58	2- 5/16						●	●		●
60	2- 3/8						●	●		●
	2- 7/16						●	●		●
63	2- 1/2						●	●		●
65	2- 9/16						●	●		●
	2- 5/8						●	●		●
68	2-11/16							●		●
70	2- 3/4							●		●
	2-13/16							●		●
	2- 7/8							●		●
75	2-15/16							●		●
	3							●		●
	3- 1/16							●		●
80	3- 1/8							●		●
85	3- 1/4							●		●
	3- 3/8							●		●
90	3- 1/2							●		●

## HAND SOCKETS / Diameter of Bore

Standard Socket



Deep Socket

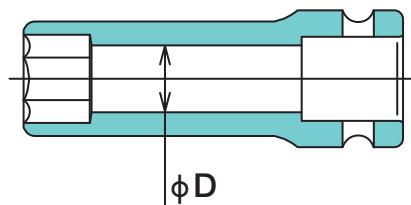
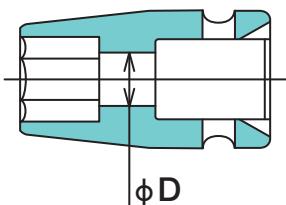


SOCKET	1/4"○		3/8"○		1/2"○		3/4"○		1"○
	Standard	Deep	Standard	Deep	Standard	Deep	Standard	Deep	Standard
○	2400M 2400A	2300M 2300A	3400M 3400A	3300M 3300A	4400M 4400A	4300M 4300A	6400M 6400A	6300M 6300A	8400M 8400A
○	2405M 2405A	2305M 2305A	3405M 3405A	3305M 3305A	4405M 4405A	4305M 4305A	6405M 6405A	6305M 6305A	8405M 8405A
(mm)	(inch)								
3	1/8	2.5	2.5						
4		3.5	3.5						
4.5		4	4						
5	3/16	4	4.5						
5.5	7/32	4.5	5	4.5	5				
6	1/4	5	5	5					
7	9/32	5.5	6	5.5	6				
8	5/16	6	7	6	7	6	7		
9	11/32	7	8	7	8	7	8		
10	3/8	8	9	8	9	8	9		
11	7/16	9	10	9	10	9	10		
12		10	11	10	11	10	11		
13	1/2	11	12	11	12	11	12		
14	9/16	12	13	12	13	12	13		
15	19/32		13	14	13	14			
16	5/8		14	15	14	15			
17	21/32		15	16	15	16	15	16	
18	11/16		15	17	15	17	15	17	
19	3/4		16	18	16	18	16	18	
20	25/32		17	19	17	19	17	19	
21	13/16		18	20	18	20	18	20	
22	7/8		19	21	19	21	19	21	
23			20	22	20	22	20	22	
24	15/16		21	23	21	23	21	23	
25					22	24	22	24	
26	1				23	25	23	25	
27	1- 1/16				23	26	23	26	23
28					24	27	24	27	24
29	1- 1/8				24	28	24	28	24
30	1- 3/16				25	29	25	29	25
31					26	30	26	30	26
32	1- 1/4				27	31	27	31	27
33	1- 5/16						28	32	28
34							29	33	29
35	1- 3/8						30	34	30
36							31	35	31
37	1- 7/16						31	36	31
38	1- 1/2						32	37	32
39							32	38	32
40	1- 9/16						33	39	33
41	1- 5/8						34	40	34
42							34	41	34
43	1-11/16						35	42	35
44	1- 3/4						36	43	36
45							36	44	36
46	1-13/16						37	45	37
47							38	46	38
48	1- 7/8						38	47	38
49	1-15/16						39	48	39
50	2						40	49	40
	2- 1/16						40		

Standard Socket



Deep Socket



SOCKET	1/4" $\odot$		3/8" $\odot$		1/2" $\odot$		3/4" $\odot$		1" $\odot$	
	Standard	Standard	Standard	Deep	Standard	Deep	Standard	Deep	Standard	Deep
$\odot$	12400M 12400A	12400M 13400A	13300M 13300A		14400M 14400A	14300M 14300A	16400M 16400A	16300M 16300A	18400M 18400A	18300M 18300A
(mm)	(inch)						$\phi D$			
4		3								
4.5	3/16	3								
5		4								
5.5		4								
6	1/4	5	5	5						
7	9/32	5	5	6						
8	5/16	6	6	7	6	7				
9	11/32	7	7	8	7	8				
10	3/8	8	8	9	8	9				
11	7/16	9	9	10	9	10				
12		10	10	11	10	11				
13	1/2	11	11	12	11	12				
14	9/16	12	12	13	12	13				
15		13	14	13	14					
16	5/8	14	15	14	15					
17	11/16	14	16	14	16	14	16			
18		15	17	15	17	15	17			
19	3/4	16	18	16	18	16	18	16	18	
20		17	19	17	19	17	19	17	19	
21	13/16	18	20	18	20	18	20	18	20	
22	7/8	19	21	19	21	19	21	19	21	
23		20		20	22	20	22	20	22	
24	15/16			21	23	21	23	21	23	
25	1			22	24	22	24	22	24	
26				23	25	23	25	23	25	
27	1- 1/16			23	26	23	26	23	26	
28				24	27	24	27	24	27	
29	1- 1/8			25	28	25	28	25	28	
30	1- 3/16			26	29	26	29	26	29	
31				27	30	27	30	27	30	
32	1- 1/4			28	31	28	31	28	31	
33						29	32	29	32	
34	1- 5/16					30	33	30	33	
35	1- 3/8					31	34	31	34	
36						32	35	32	35	
37	1- 7/16					32	36	32	36	
38	1- 1/2					34	37	34	37	
40	1- 9/16					34	39	34	39	
41	1- 5/8					35	40	35	40	
42	1-11/16					35	41	35	41	
45	1- 3/4					35	44	35	44	
46	1-13/16					40	45	40	45	
47						40	46			
	1- 7/8					40	47			

# Equivalent Standard Bolt Diameters



of German, American, British, Norwegian, French, and Swedish sizes for Wrenches

# Equivalent Standard Bolt Diameters



of German, American, British, Norwegian, French, and Swedish sizes for Wrenches

- 1) max-min, dimensions for metric sizes according to DIN 475/2, series 1
- 2) DIN 439, 555, 601, 609, 610, 917, 931, 933, 934, 935, 936, 937, 960, 961, 979, 980, 985, 986, 1587, 2510/5, 6330, 6331, 7513, 7964, 7967, 7968, 7976, 7990
- 3) NFE 27-311 is identical to ISO R 272 since Oct.1969
- 4) Standards prior to 1966
- 5) Only applicable to Motor industry(M 10 acc.to DIN 70 613 through 70 618)
- 6) Standards prior to 1963

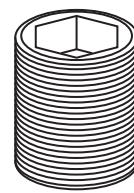
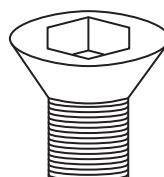
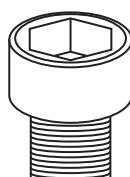
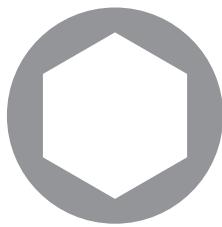
- a) Hex Flat and Hex Flat Jam Nuts  
Hex Nuts and Hex Jam Nuts  
Hex Slotted Nuts  
Hex Thick Nuts  
Hex Thick Slotted Nuts  
Hex Castle Nuts
  - b) Square Nuts
  - c) Heavy Square Nuts  
Heavy Hex Flat Nuts  
Heavy Hex Flat Jam Nuts  
Heavy Hex Nuts  
Heavy Hex Jam Nuts  
Heavy Hex Slotted Nuts

- d) Square Bolts  
Hex Bolts  
Hex Cap Screws  
Lag Screws
  - e) Heavy Hex Bolts  
Heavy Hex Structural Bolts  
Heavy Hex Screws  
  - f) ANSI B 18.6.3-1962
  - g) ANSI B 18.6.2-1956
  - h) ANSI B 18.6.3-1962

※ Square Bolt and Lag Screw

ANSI B 18.2.2-1972

## Socket Screw Data Chart

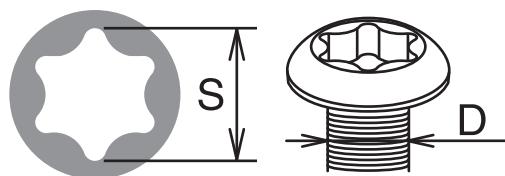


METRIC Sizes				
nominal size of wrench (mm)	Socket Head Cap Screws	Socket Button Head Screws	Socket Head Shoulder Screws	Socket Set Screws
				ISO 4026,4027 4028,4029
<b>0.7</b>	-	-	-	M1.4 M1.6 M1.8
<b>0.9</b>	-	-	-	M2
<b>1.3</b>	M1.4	-	-	M2.5
<b>1.5</b>	M1.6	-	-	M3
	M2			
<b>2</b>	M2.5	M3	M3	M4
<b>2.5</b>	M3	M4	M4	M5
<b>3</b>	M4	M5	M5	M6
<b>4</b>	M5	M6	M6	M8
<b>5</b>	M6	M8	M8	M10
<b>6</b>	M8	M10	M10	M12 M14
<b>7</b>	-	-	-	-
<b>8</b>	M10	M12	M12	M16
<b>10</b>	M12	M16	M16	M20
<b>12</b>	M14	-	M20	M24
<b>14</b>	M16	-	-	-
<b>17</b>	M20	-	-	-
<b>19</b>	M24	-	-	-
<b>22</b>	M30	-	-	-
<b>24</b>	M33	-	-	-
<b>27</b>	M36	-	-	-

SW nominal size of wrench (inch)	SW (mm)	AMERICAN Sizes			BRITISH Sizes		
		ANSI B 18.3 : 1986			BS 2470 : 1973		
		Cap Screws 1960 series	Flat and Button Head Cap Screws	Shoulder Screws	Set Screws	Cap Screws	Flat and Button Head Cap Screws
.028 dec. in.	0.7	-	-	-	No.0 No.1	-	-
.035 dec. in.	0.9	-	No.0	-	No.2	-	No.0
.050 dec. in.	1.3	No.0	No.1 No.2	-	No.3 No.4	No.0 No.1	No.1 No.2
1/16	1.59	No.1	No.3 No.4	-	No.5 No.6	No.2	No.3 No.4
5/64	1.98	No.2 No.3	No.5 No.6	-	No.8	No.3 No.4 6 BA	No.5 No.6 4 BA 5 BA
3/32	2.38	No.4 No.5	No.8	-	No.10	No.5 No.6 4 BA 5 BA	No.10 1 BA 2 BA 3/16
7/64	2.78	No.6	-	-	-	-	-
1/8	3.18	-	No.10	1/4	1/4	No.8 3 BA	No.10 1/4 0 BA 1/4
9/64	3.57	No.8	-	-	-	-	-
5/32	3.97	No.10	1/4	5/16	5/16	No.10 1 BA 2 BA 3/16	5/16 5/16
3/16	4.76	1/4	5/16	3/8	3/8	0 BA 1/4	5/16 3/8
7/32	5.56	-	3/8	-	7/16	5/16 3/8	-
1/4	6.35	5/16	7/16	1/2	1/2	-	7/16 1/2
5/16	7.94	3/8	1/2	5/8	5/8	3/8 7/16	1/2 5/8
3/8	9.53	7/16 1/2	5/8	3/4	3/4	1/2	5/8 3/4
		Only Flat Head					
1/2	12.7	5/8	3/4	1	7/8	5/8 3/4	-
9/16	14.29	-	7/8	-	1 1 1/8	3/4 7/8	-
5/8	15.88	3/4	1	1 1/4	1 1/4 1 3/8	1	-
3/4	19.05	7/8 1	1 1/8	-	1 1/2	-	-
7/8	22.23	1 1/8 1 1/4	1 1/4 1 3/8	1 1/2	-	-	-
1	25.4	1 3/8 1 1/2	1 1/2	1 3/4	1 3/4 2	-	-

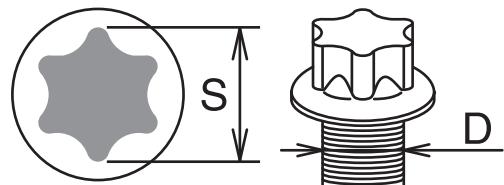
## TORX® & XZN Screw Data Chart

### Internal TORX® Screws



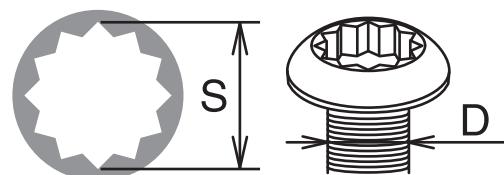
	Screws	
SIZE	S (mm)	D
<b>T6</b>	1.6	M2
<b>T7</b>	2.0	M2.5
<b>T8</b>	2.3	M2.5
<b>T9</b>	2.5	M3
<b>T10</b>	2.7	M3/M3.5
<b>T15</b>	3.3	M3.5/M4
<b>T20</b>	3.8	M4/M5
<b>T25</b>	4.4	M4.5/M5
<b>T27</b>	5.0	M4.5/M5/M6
<b>T30</b>	5.5	M6/M7
<b>T40</b>	6.6	M7/M8
<b>T45</b>	7.8	M8/M10
<b>T50</b>	8.8	M10
<b>T55</b>	11.2	M12
<b>T60</b>	13.2	M14
<b>T70</b>	15.5	M16
<b>T80</b>	17.6	M18
<b>T90</b>	19.9	M20
<b>T100</b>	22.1	M22

### External TORX® Screws



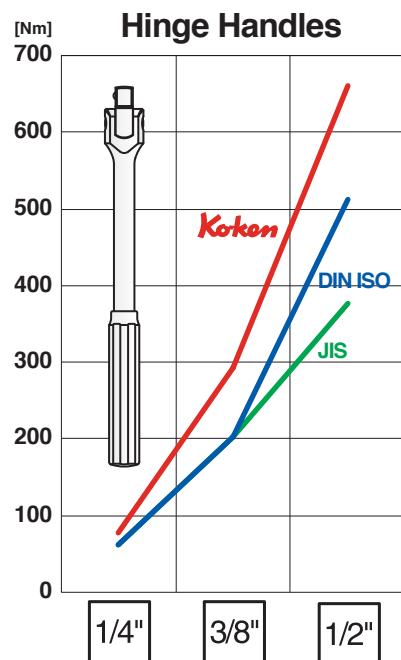
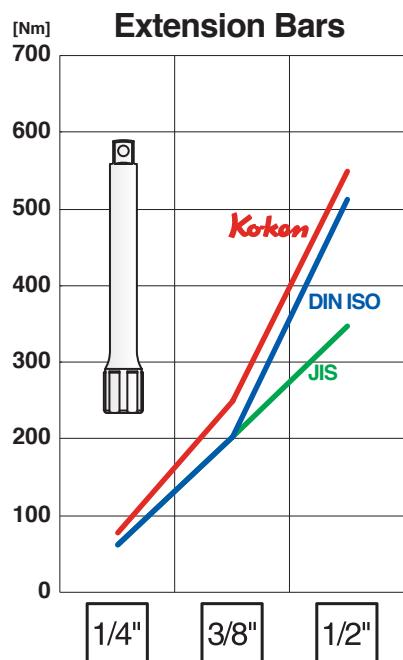
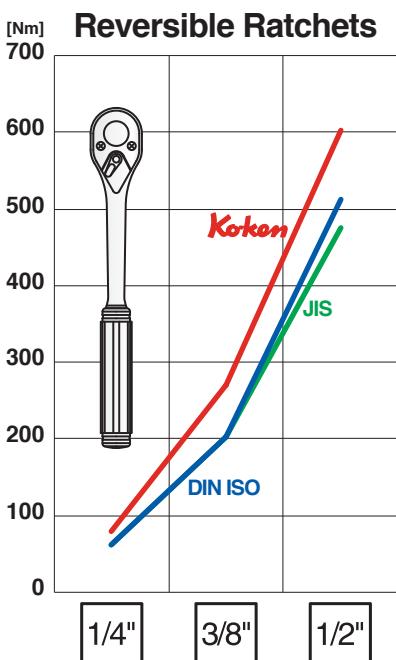
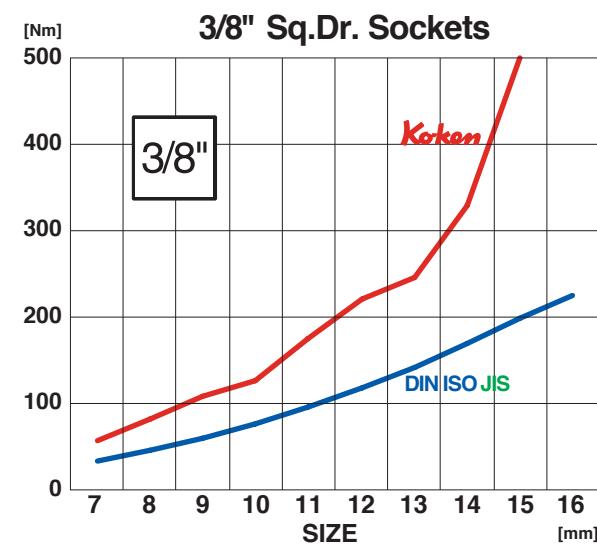
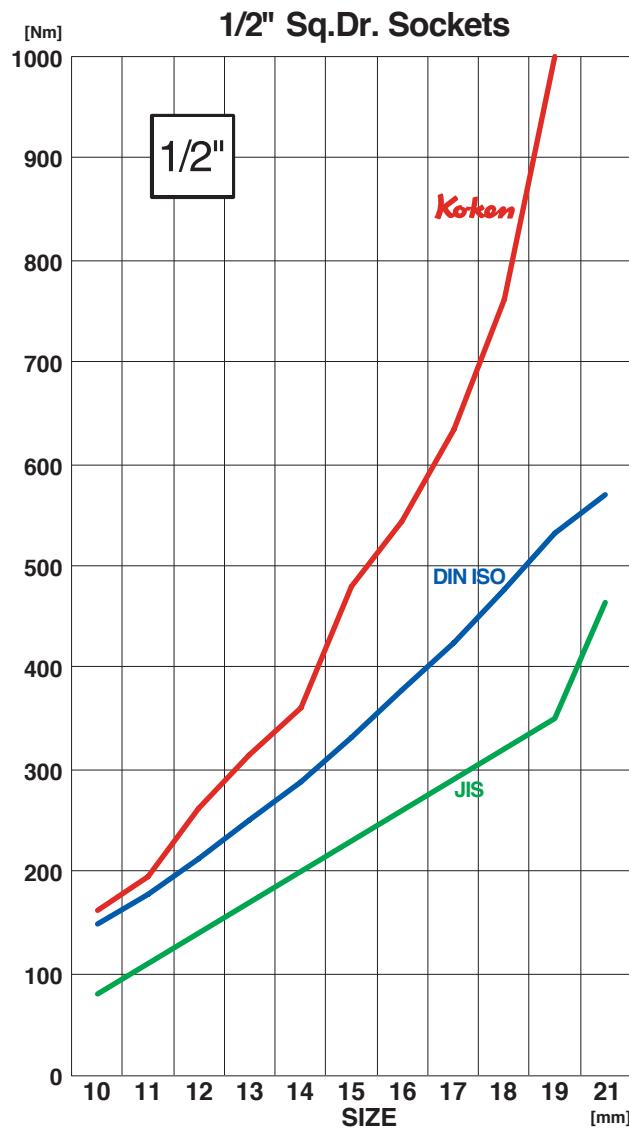
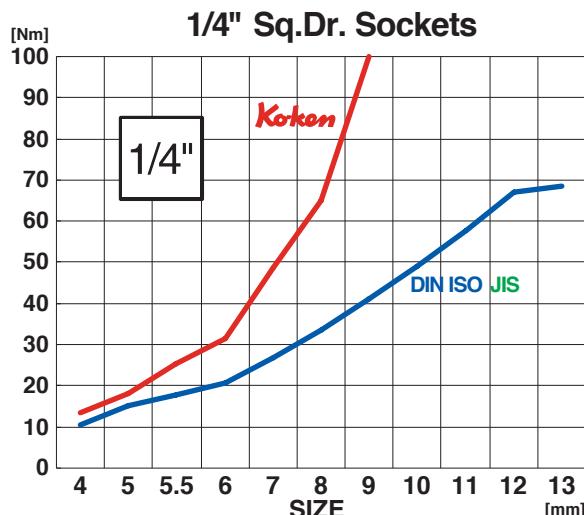
	Screws	
SIZE	S (mm)	D
<b>E4</b>	3.8	M3
<b>E5</b>	4.7	M4
<b>E6</b>	5.7	M5
<b>E7</b>	6.2	M6
<b>E8</b>	7.5	M6/M7
<b>E10</b>	9.4	M8
<b>E11</b>	10.1	-
<b>E12</b>	11.1	M10
<b>E14</b>	12.9	M12
<b>E16</b>	14.7	M12
<b>E18</b>	16.6	M14
<b>E20</b>	18.4	M16
<b>E24</b>	22.1	M18/M20

### Internal XZN Screws



	Screws	
SIZE	S (mm)	D
<b>M4</b>	3.6	M4
<b>M5</b>	4.7	M5
<b>M6</b>	6.0	M6
<b>M8</b>	7.1	M8
<b>M10</b>	9.7	M10
<b>M12</b>	11.4	M12
<b>M14</b>	13.2	M14
<b>M16</b>	15.8	M16
<b>M18</b>	16.9	M18

Conversion Table: American Inches-Decimal Inches-Millimeter													
in	dec.in.	0"	1"	2"	3"	4"	5"	6"	7"	8"	9"	10"	11"
		Millimeter(mm)											
1/16	0	0	25.4000	50.8000	76.2000	101.6000	127.0000	152.4000	177.8000	203.2000	228.6000	254.0000	279.4000
1/64	0.01563	0.3969	25.7969	51.1969	76.5969	101.9969	127.3969	152.7969	178.1969	203.5969	228.9969	254.3969	279.7969
1/32	0.03125	0.7938	26.1938	51.5938	76.9938	102.3938	127.7938	153.1938	178.5938	203.9938	229.3938	254.7938	280.1938
3/64	0.04688	1.1906	26.5906	51.9906	77.3906	102.7906	128.1906	153.5906	178.9906	204.3906	229.7906	255.1906	280.5906
1/8	0.06250	1.5875	26.9875	52.3875	77.7875	103.1875	128.5875	153.9875	179.3875	204.7875	230.1875	255.5875	280.9875
5/64	0.07813	1.9844	27.3844	52.7844	78.1844	103.5844	128.9844	154.3844	179.7844	205.1844	230.5844	255.9844	281.3844
3/32	0.09375	2.3813	27.7813	53.1813	78.5813	103.9813	129.3813	154.7813	180.1813	205.5813	230.9813	256.3813	281.7813
7/64	0.10938	2.7781	28.1781	53.5781	78.9781	104.3781	129.7781	155.1781	180.5781	205.9781	231.3781	256.7781	282.1781
1/4	0.12500	3.1750	28.5750	53.9750	79.3750	104.7750	130.1750	155.5750	180.9750	206.3750	231.7750	257.1750	282.5750
9/64	0.14063	3.5719	28.9719	54.3719	79.7719	105.1719	130.5719	155.9719	181.3719	206.7719	232.1719	257.5719	282.9719
5/32	0.15625	3.9688	29.3688	54.7688	80.1688	105.5688	130.9688	156.3688	181.7688	207.1688	232.5688	257.9688	283.3688
11/64	0.17188	4.3656	29.7656	55.1656	80.5656	105.9656	131.3656	156.7656	182.1656	207.5656	232.9656	258.3656	283.7656
3/16	0.18750	4.7625	30.1625	55.5625	80.9625	106.3625	131.7625	157.1625	182.5625	207.9625	233.3625	258.7625	284.1625
13/64	0.20313	5.1594	30.5594	55.9594	81.3594	106.7594	132.1594	157.5594	182.9594	208.3594	233.7594	259.1594	284.5594
7/32	0.21875	5.5563	30.9563	56.3563	81.7563	107.1563	132.5563	157.9563	183.3563	208.7563	234.1563	259.5563	284.9563
15/64	0.23438	5.9531	31.3531	56.7531	82.1531	107.5531	132.9531	158.3531	183.7531	209.1531	234.5531	259.9531	285.3531
1/4	0.25000	6.3500	31.7500	57.1500	82.5500	107.9500	133.3500	158.7500	184.1500	209.5500	234.9500	260.3500	285.7500
17/64	0.26563	6.7469	32.1469	57.5469	82.9469	108.3469	133.7469	159.1469	184.5469	209.9469	235.3469	260.7469	286.1469
9/32	0.28125	7.1438	32.5438	57.9438	83.3438	108.7438	134.1438	159.5438	184.9438	210.3438	235.7438	261.1438	286.5438
19/64	0.29688	7.5406	32.9406	58.3406	83.7406	109.1406	134.5406	159.9406	185.3406	210.7406	236.1406	261.5406	286.9406
5/16	0.31250	7.9375	33.3375	58.7375	84.1375	109.5375	134.9375	160.3375	185.7375	211.1375	236.5375	261.9375	287.3375
21/64	0.32813	8.3344	33.7344	59.1344	84.5344	109.9344	135.3344	160.7344	186.1344	211.5344	236.9344	262.3344	287.7344
11/32	0.34375	8.7313	34.1313	59.5313	84.9313	110.3313	135.7313	161.1313	186.5313	211.9313	237.3313	262.7313	288.1313
23/64	0.35938	9.1281	34.5281	59.9281	85.3281	110.7281	136.1281	161.5281	186.9281	212.3281	237.7281	263.1281	288.5281
3/8	0.37500	9.5250	34.9250	60.3250	85.7250	111.1250	136.5250	161.9250	187.3250	212.7250	238.1250	263.5250	288.9250
25/64	0.39063	9.9219	35.3219	60.7219	86.1219	111.5219	136.9219	162.3219	187.7219	213.1219	238.5219	263.9219	289.3219
13/32	0.40625	10.3188	35.7188	61.1188	86.5188	111.9188	137.3188	162.7188	188.1188	213.5188	238.9188	264.3188	289.7188
27/64	0.42188	10.7156	36.1156	61.5156	86.9156	112.3156	137.7156	163.1156	188.5156	213.9156	239.3156	264.7156	290.1156
7/16	0.43750	11.1125	36.5125	61.9125	87.3125	112.7125	138.1125	163.5125	188.9125	214.3125	239.7125	265.1125	290.5125
29/64	0.45313	11.5094	36.9094	62.3094	87.7094	113.1094	138.5094	163.9094	189.3094	214.7094	240.1094	265.5094	290.9094
15/32	0.46875	11.9063	37.3063	62.7063	88.1063	113.5063	138.9063	164.3063	189.7063	215.1063	240.5063	265.9063	291.3063
31/64	0.48438	12.3031	37.7031	63.1031	88.5031	113.9031	139.3031	164.7031	190.1031	215.5031	240.9031	266.3031	291.7031
1/2	0.50000	12.7000	38.1000	63.5000	88.9000	114.3000	139.7000	165.1000	190.5000	215.9000	241.3000	266.7000	292.1000
33/64	0.51563	13.0969	38.4969	63.8969	89.2969	114.6969	140.0969	165.4969	190.8969	216.2969	241.6969	267.0969	292.4969
17/32	0.53125	13.4938	38.8938	64.2938	89.6938	115.0938	140.4938	165.8938	191.2938	216.6938	242.0938	267.4938	292.8938
35/64	0.54688	13.8906	39.2906	64.6906	90.0906	115.4906	140.8906	166.2906	191.6906	217.0906	242.4906	267.8906	293.2906
9/16	0.56250	14.2875	39.6875	65.0875	90.4875	115.8875	141.2875	166.6875	192.0875	217.4875	242.8875	268.2875	293.6875
37/64	0.57813	14.6844	40.0844	65.4844	90.8844	116.2844	141.6844	167.0844	192.4844	217.8844	243.2844	268.6844	294.0844
19/32	0.59375	15.0813	40.4813	65.8813	91.2813	116.6813	142.0813	167.4813	192.8813	218.2813	243.6813	269.0813	294.4813
39/64	0.60938	15.4781	40.8781	66.2781	91.6781	117.0781	142.4781	167.8781	193.2781	218.6781	244.0781	269.4781	294.8781
5/8	0.62500	15.8750	41.2750	66.6750	92.0750	117.4750	142.8750	168.2750	193.6750	219.0750	244.4750	269.8750	295.2750
41/64	0.64063	16.2719	41.6719	67.0719	92.4719	117.8719	143.2719	168.6719	194.0719	219.4719	244.8719	270.2719	295.6719
21/32	0.65625	16.6688	42.0688	67.4688	92.8688	118.2688	143.6688	169.0688	194.4688	219.8688	245.2688	270.6688	296.0688
43/64	0.67188	17.0656	42.4656	67.8656	93.2656	118.6656	144.0656	169.4656	194.8656	220.2656	245.6656	271.0656	296.4656
11/16	0.68750	17.4625	42.8625	68.2625	93.6625	119.0625	144.4625	169.8625	195.2625	220.6625	246.0625	271.4625	296.8625
45/64	0.70313	17.8594	43.2594	68.6594	94.0594	119.4594	144.8594	170.2594	195.6594	221.0594	246.4594	271.8594	297.2594
23/32	0.71785	18.2563	43.6563	69.0563	94.4563	119.8563	145.2563	170.6563	196.0563	221.4563	246.8563	272.2563	297.6563
47/64	0.73438	18.6531	44.0531	69.4531	94.8531	120.2531	145.6531	171.0531	196.4531	221.8531	247.2531	272.6531	298.0531
3/4	0.75000	19.0500	44.4500	69.8500	95.2500	120.6500	146.0500	171.4500	196.8500	222.2500	247.6500	273.0500	298.4500
49/64	0.76563	19.4469	44.8469	70.2469	95.6469	121.0469	146.4469	171.8469	197.2469	222.6469	248.0469	273.4469	298.8469
25/32	0.78125	19.8438	45.2438	70.6438	96.0438	121.4438	146.8438	172.2438	197.6438	223.0438	248.4438	273.8438	299.2438
51/64	0.79688	20.2406	45.6406	71.0406	96.4406	121.8406	147.2406	172.6406	198.0406	223.4406	248.8406	274.2406	299.6406
13/16	0.81250	20.6375	46.0375	71.4375	96.8375	122.2375	147.6375	173.0375	198.4375	223.8375	249.2375	274.6375	300.0375
53/64	0.82813	21.0344	46.4344	71.8344	97.2344	122.6344	148.0344	173.4344	198.8344	224.2344	249.6344	275.0344	300.4344
27/32	0.84375	21.4313	46.8313	72.2313	97.6313	123.0313	148.4313	173.8313	199.2313	224.6313	250.0313	275.4313	300.8313
55/64	0.85938	21.8281	47.2281	72.6281	98.0281	123.4281	148.8281	174.2281	199.6281	225.0281	250.4281	275.8281	301.2281
7/8	0.87500	22.2250	47.6250	73.0250	98.4250	123.8250	149.2250	174.6250	200.0250	225.4250	250.8250	276.2250	301.6250
57/64	0.89063	22.6219	48.0219	73.4219	98.8219	124.2219	149.6219	175.0219	200.4219	225.8219	251.2219	276.6219	302.0219
29/32	0.90625	23.0188	48.4188	73.8188	99.2188	124.6188	150.0188	175.4188	200.8188	226.2188	251.6188	277.0188	302.4188
59/64	0.92188</td												



<b>10099A</b>	224	<b>12222AL</b>	174	<b>13401LH</b>	178	<b>14242M</b>	201
<b>100H</b>	156	<b>12233A</b>	174	<b>13401M</b>	176	<b>14245M</b>	201
<b>100P</b>	156	<b>12300G</b>	174	<b>13401MS</b>	175	<b>14300A</b>	191
<b>100P(PZ)</b>	156	<b>12300M</b>	174	<b>13405A</b>	175	<b>14300G</b>	193
<b>100S</b>	156	<b>12365M</b>	174	<b>13405M</b>	175	<b>14300M</b>	191
<b>100T(T)</b>	156	<b>123PG</b>	161,263	<b>13406A</b>	176	<b>14301A</b>	191
<b>100T(TH)</b>	156	<b>123PN</b>	161,263	<b>13406M</b>	176	<b>14301M</b>	191
<b>100X</b>	156	<b>123PT</b>	161	<b>13410M</b>	177	<b>14301X</b>	190
<b>101A</b>	151	<b>12400A</b>	172	<b>13425</b>	177	<b>14305M</b>	192,249
<b>101B</b>	150	<b>12400AG</b>	172	<b>13425-EPL</b>	177	<b>14306M</b>	192
<b>101H</b>	150	<b>12400M</b>	172	<b>13430M</b>	181	<b>14310M</b>	192
<b>101P</b>	150	<b>12400MG</b>	172	<b>13440A</b>	181	<b>14325</b>	193
<b>101S</b>	150	<b>12410M</b>	172	<b>13440M</b>	181	<b>14365M</b>	193
<b>101T(T)</b>	150	<b>12425</b>	173	<b>13440T</b>	181	<b>14400A</b>	187
<b>101T(TH)</b>	150	<b>12460A</b>	173	<b>13460A</b>	178	<b>14400M</b>	187
<b>102KA</b>	146	<b>12460AG</b>	173	<b>13460AG</b>	178	<b>14400MG</b>	189
<b>102KM</b>	146	<b>12460M</b>	173	<b>13460M</b>	178	<b>14400-WN</b>	190
<b>102KM.BH</b>	146	<b>12460MG</b>	173	<b>13460MG</b>	178	<b>14401A</b>	188
<b>102KT</b>	146	<b>12465M</b>	173	<b>13465M</b>	177	<b>14401LH</b>	189
<b>102NA</b>	146	<b>124M(2B)</b>	141	<b>135E-60B</b>	159,263	<b>14401M</b>	188
<b>102NM</b>	146	<b>12760</b>	174	<b>137</b>	148	<b>14405A</b>	187
<b>103KA</b>	147	<b>12770</b>	174	<b>13760</b>	185	<b>14405M</b>	187
<b>103KM</b>	147	<b>127C</b>	239	<b>13770</b>	186	<b>14406A</b>	188
<b>103KT</b>	147	<b>128H</b>	151	<b>13771</b>	186	<b>14406M</b>	188
<b>10400A</b>	224	<b>128T</b>	151	<b>138</b>	148	<b>14410M</b>	189
<b>10400M</b>	224	<b>13012M</b>	182	<b>139</b>	148	<b>14415M</b>	190
<b>104A</b>	140	<b>1301A</b>	231	<b>14012M</b>	194	<b>14425</b>	190
<b>104M</b>	140	<b>1301B</b>	231	<b>1401A</b>	231	<b>14425-EPL</b>	190
<b>106</b>	245	<b>1301C</b>	230	<b>1401B</b>	231	<b>14433A</b>	200
<b>107-11</b>	183,195	<b>13025(T)</b>	182	<b>1401C</b>	230	<b>14440A</b>	193
<b>107-11(L80)</b>	183,195	<b>1302A</b>	231	<b>14025(T)</b>	194	<b>14440M</b>	193
<b>107-11(T)</b>	183,195	<b>1302B</b>	231	<b>1402A</b>	231	<b>14444AL</b>	199
<b>107-11(T)(L80)</b>	183,195	<b>1302C</b>	230	<b>1402B</b>	231	<b>14455A</b>	200
<b>107-11(XZN)</b>	183,195	<b>13103M</b>	137	<b>1402C</b>	230	<b>14465M</b>	189
<b>107-11(XZN)(L80)</b>	183,195	<b>13105</b>	182	<b>141</b>	136,265	<b>14466A</b>	200
<b>107-16</b>	197,208,215	<b>13105-11</b>	182	<b>14100A</b>	135	<b>144KM</b>	241
<b>107-16(T)</b>	197,208,215	<b>13105-11(T)</b>	182	<b>14100M</b>	135	<b>145KM</b>	148
<b>107-16(XZN)</b>	197,208,215	<b>13137E</b>	161	<b>14101M</b>	255	<b>145LH3/8F</b>	246
<b>107-22</b>	209,216	<b>13137H</b>	161	<b>14103M</b>	137	<b>14760</b>	199
<b>107-22(T)</b>	209,216	<b>13139</b>	155	<b>14105</b>	194	<b>14770</b>	199
<b>107-32</b>	221	<b>13140</b>	157	<b>14105-11</b>	196	<b>14771</b>	199
<b>108H</b>	154	<b>13142-D6.3</b>	155	<b>14105-11-(L105)</b>	196	<b>14772-P</b>	199,249
<b>108P</b>	154	<b>13142-F6.3</b>	161	<b>14105-11(T)</b>	196	<b>148KM</b>	241
<b>108S</b>	154	<b>13145A</b>	249	<b>14105-11(XZN)</b>	196	<b>149</b>	230
<b>108T(T)</b>	154	<b>13145M</b>	184	<b>14105-11-T(L105)</b>	196	<b>150-10H</b>	148
<b>108T(TH)</b>	154	<b>13145M(12P)</b>	184,243	<b>14105L</b>	194	<b>150-14H</b>	246
<b>110</b>	159	<b>13145MG</b>	184	<b>14106</b>	197	<b>1500A</b>	231
<b>112</b>	159,263	<b>13146M</b>	185	<b>14112</b>	255	<b>1500B</b>	231
<b>113</b>	162,261	<b>13147M</b>	185	<b>14113J</b>	252	<b>152</b>	230
<b>113(2B)</b>	162	<b>131P</b>	158	<b>14113M</b>	252	<b>15300M</b>	203
<b>113(E)</b>	162	<b>131PS</b>	158	<b>14118M</b>	252	<b>15310M</b>	203
<b>113UN</b>	164	<b>131S</b>	158	<b>14124</b>	253	<b>15400A</b>	202
<b>115</b>	163,261	<b>131T</b>	158	<b>14124/3</b>	253	<b>15400M</b>	202
<b>115G</b>	164	<b>13241M</b>	186	<b>14137E</b>	161	<b>15410M</b>	202
<b>117</b>	159	<b>13242M</b>	186	<b>14139</b>	155	<b>154K</b>	246
<b>119</b>	164	<b>13300A</b>	179	<b>14140</b>	157	<b>154M</b>	147
<b>120</b>	159	<b>13300G</b>	180	<b>14142-D6.3</b>	155	<b>154ML</b>	147
<b>1200A</b>	231	<b>13300M</b>	179	<b>14142-F6.3</b>	161	<b>155</b>	250
<b>1200B</b>	231	<b>13300XG</b>	179	<b>14145A</b>	249	<b>15544A</b>	203
<b>1201</b>	136,265	<b>13301A</b>	180	<b>14145M</b>	198	<b>15555AL</b>	203
<b>1202</b>	151	<b>13301M</b>	180	<b>14145PM</b>	251	<b>15566A</b>	203
<b>1203</b>	148	<b>13301X</b>	179	<b>14146M</b>	198	<b>156M</b>	140
<b>1205</b>	269	<b>13305M</b>	180	<b>14147M</b>	198	<b>15770</b>	203
<b>1206</b>	246	<b>13310M</b>	180	<b>141P</b>	136,265	<b>157H</b>	142
<b>1210</b>	247	<b>13322A</b>	186	<b>141S</b>	136,265	<b>157P</b>	142
<b>1210E</b>	247	<b>13333AL</b>	186	<b>142</b>	264	<b>157S</b>	142
<b>1212</b>	248	<b>13344A</b>	186	<b>14201M</b>	251	<b>158</b>	245
<b>12137E</b>	161	<b>13365M</b>	181	<b>14203M</b>	200	<b>1600C</b>	230
<b>12139</b>	155	<b>13400A</b>	175	<b>14204M</b>	200	<b>1601A</b>	231
<b>12140</b>	157	<b>13400AG</b>	177	<b>14204T</b>	200	<b>1601B</b>	231
<b>121H</b>	160	<b>13400M</b>	175	<b>14204X</b>	200	<b>1602A</b>	231
<b>121P</b>	160	<b>13400MG</b>	177	<b>14207M</b>	201	<b>1602B</b>	231
<b>121T(T)</b>	160	<b>13400-WN</b>	178	<b>14208M</b>	201	<b>160K</b>	145
<b>121T(TH)</b>	160	<b>13401A</b>	176	<b>14241M</b>	201	<b>16101M</b>	255

<b>16102M</b>	256	<b>17405M</b>	220	<b>22425</b>	234	<b>2760</b>	33
<b>16106</b>	208	<b>17760</b>	221	<b>2250A</b>	36	<b>2762</b>	32
<b>16106-16</b>	208	<b>17770</b>	221	<b>2250M</b>	36	<b>2763</b>	33
<b>16107</b>	209	<b>17788A</b>	221	<b>2254M</b>	36,151	<b>2768J</b>	33
<b>16107-22</b>	209	<b>17799A</b>	221	<b>2257M</b>	37	<b>2768N</b>	33
<b>162E</b>	264	<b>1801A</b>	231	<b>2260M</b>	37	<b>2768P</b>	33
<b>16201A</b>	211	<b>1801B</b>	231	<b>2261M</b>	37	<b>2768RK</b>	274
<b>16201M</b>	211	<b>1801C</b>	230	<b>2262M</b>	37	<b>2769F</b>	34
<b>16245M</b>	211	<b>1802A</b>	231	<b>2274A</b>	37	<b>2769H</b>	34
<b>16300A</b>	206	<b>1802B</b>	231	<b>2274M</b>	37	<b>2769N</b>	34,170
<b>16300M</b>	206	<b>1802C</b>	230	<b>2275</b>	38	<b>2769NWF</b>	34,170
<b>16301A</b>	207	<b>18101M</b>	255	<b>2276</b>	38	<b>2770</b>	35
<b>16301M</b>	207	<b>18102M</b>	256	<b>2277</b>	38	<b>2771</b>	35
<b>16301X</b>	206	<b>18106</b>	215	<b>2277A</b>	38	<b>2774J</b>	32
<b>16305M</b>	207,243	<b>18106-16</b>	215	<b>2300A</b>	23	<b>2774JS</b>	31
<b>16316A</b>	258	<b>18107</b>	216	<b>2300M</b>	23	<b>2774JS-3/8</b>	63
<b>16316M</b>	258	<b>18107-22</b>	216	<b>2300W-BA</b>	23	<b>2774N</b>	32
<b>16317A</b>	258	<b>18300A</b>	214	<b>2300X</b>	22	<b>2774P</b>	32
<b>16317M</b>	258	<b>18300M</b>	214	<b>2305A</b>	23	<b>2774P-1/4HF</b>	155
<b>16325</b>	207	<b>18301A</b>	214	<b>2305M</b>	23	<b>2774P-5/16HF</b>	157
<b>16400A</b>	204	<b>18301M</b>	214	<b>2310M</b>	24	<b>2774PS</b>	31
<b>16400M</b>	204	<b>18301X</b>	213	<b>2325</b>	24	<b>2774PS-3/8</b>	63
<b>16401A</b>	205	<b>18316A</b>	258	<b>23300A</b>	235	<b>2780</b>	35
<b>16401M</b>	205	<b>18316M</b>	258	<b>23300M</b>	235	<b>2785</b>	35
<b>16405A</b>	204	<b>18317A</b>	258	<b>23325</b>	235	<b>3000(PH)</b>	50
<b>16405M</b>	204	<b>18317M</b>	258	<b>23400A</b>	235	<b>3000(PZ)</b>	50
<b>16425</b>	205	<b>18400A</b>	212	<b>23400M</b>	235	<b>3001</b>	57
<b>165LM</b>	161	<b>18400M</b>	212	<b>23425</b>	235	<b>3005</b>	50
<b>16644A</b>	210	<b>18401A</b>	213	<b>2350M</b>	24	<b>3006</b>	57
<b>16655A</b>	210	<b>18401M</b>	213	<b>2400A</b>	20	<b>3010M</b>	51
<b>16666AL</b>	210	<b>18405A</b>	213	<b>2400M</b>	20	<b>3010MZ</b>	119
<b>16688A</b>	210	<b>18405M</b>	213	<b>2400W-BA</b>	21	<b>3011M</b>	52
<b>166P</b>	168	<b>186-75P</b>	159	<b>2405A</b>	20	<b>3012A</b>	58
<b>166PS/6</b>	168	<b>18760</b>	217	<b>2405M</b>	20	<b>3012M</b>	58,245
<b>166S</b>	168	<b>18770</b>	217	<b>2410M</b>	21	<b>3015M</b>	51
<b>16760</b>	209	<b>18771</b>	217	<b>2415A</b>	22	<b>3020</b>	53
<b>16770</b>	210	<b>18866A</b>	218	<b>2415M</b>	22	<b>3025-100R(T)</b>	54
<b>16771</b>	210	<b>18877A</b>	218	<b>2425</b>	22	<b>3025-100R(TH)</b>	55
<b>167A</b>	166	<b>18888AL</b>	217	<b>24300A</b>	236	<b>3025(IP)</b>	56
<b>167C</b>	166	<b>1901A</b>	231	<b>24300M</b>	236	<b>3025(PR)</b>	56
<b>167M</b>	166	<b>1901B</b>	231	<b>2430M</b>	26	<b>3025(T)</b>	54
<b>168C</b>	169	<b>1902A</b>	231	<b>2430T</b>	26	<b>3025(TH)</b>	55
<b>168CS</b>	169	<b>1902B</b>	231	<b>24400A</b>	236	<b>3025Z</b>	119
<b>168H</b>	167	<b>19300M</b>	223	<b>24400M</b>	236	<b>3027</b>	57
<b>168P</b>	169	<b>19400A</b>	222	<b>2440A</b>	25	<b>3110A</b>	244
<b>168P(PZ)</b>	167	<b>19400M</b>	222	<b>2440M</b>	25	<b>3110M</b>	244
<b>168PS/6</b>	169	<b>19760</b>	223	<b>2440T</b>	25	<b>3112G</b>	152
<b>168R</b>	167	<b>19770</b>	223	<b>2441M</b>	25	<b>3112N</b>	152
<b>168S</b>	169	<b>19977A</b>	223	<b>24425</b>	236	<b>3112RK</b>	275
<b>168T</b>	167	<b>2000(PH)</b>	26	<b>2445A</b>	25	<b>3116M</b>	141
<b>168T(250)</b>	248	<b>2000(PZ)</b>	26	<b>2445M</b>	25	<b>3117M</b>	50
<b>168T/7</b>	167	<b>2001A</b>	231	<b>2450MS</b>	22	<b>3127</b>	138
<b>169</b>	248	<b>2001B</b>	231	<b>2715</b>	143	<b>3128</b>	138
<b>169/2</b>	248	<b>2002A</b>	231	<b>2749N-3/8</b>	59	<b>3129</b>	139
<b>169BP</b>	249	<b>2002B</b>	231	<b>2749P-1/4HF</b>	155	<b>3131</b>	145
<b>169HR</b>	249	<b>2005</b>	26	<b>2749P-3/8</b>	59	<b>3137</b>	155
<b>169WM</b>	248	<b>2010A</b>	27	<b>2749P-5/16HF</b>	157	<b>3138</b>	157
<b>1700C</b>	230	<b>2010M</b>	27	<b>2749PS-3/8</b>	59	<b>3141</b>	158
<b>1701A</b>	231	<b>2011M</b>	27	<b>2749RK</b>	272	<b>3200A</b>	71
<b>1701B</b>	231	<b>2020</b>	28	<b>2749RK-3/8</b>	272	<b>3200M</b>	71
<b>1702A</b>	231	<b>2025(IP)</b>	29	<b>2752N</b>	31	<b>3201AMW</b>	71
<b>1702B</b>	231	<b>2025(PR)</b>	29	<b>2752RK</b>	272	<b>3206A</b>	71
<b>170S</b>	268	<b>2025(T)</b>	28	<b>2753BRK</b>	272	<b>3206AM</b>	71
<b>171</b>	268	<b>2025(TH)</b>	28	<b>2753J</b>	30	<b>3206M</b>	71
<b>17108</b>	221	<b>2127</b>	138	<b>2753JB</b>	31	<b>3210M</b>	72
<b>171B-1/2</b>	269	<b>2137</b>	155	<b>2753N</b>	30	<b>3215A</b>	72
<b>171S</b>	268	<b>2138</b>	157	<b>2753NB</b>	31	<b>3215M</b>	72
<b>171SB-1/2</b>	269	<b>2201AM</b>	36	<b>2753P</b>	30	<b>3217M</b>	72
<b>172</b>	268	<b>2203A</b>	36	<b>2753PB</b>	31	<b>3220M</b>	72
<b>17300A</b>	220	<b>2203M</b>	36	<b>2753PS</b>	30	<b>3221M</b>	72
<b>17300M</b>	220	<b>22300A</b>	234	<b>2753RK</b>	272	<b>3225A</b>	240
<b>17400A</b>	219	<b>22300M</b>	234	<b>2755</b>	32	<b>3240M</b>	73
<b>17400M</b>	219	<b>2233A</b>	35	<b>2755RK</b>	274	<b>3244</b>	72
<b>17405A</b>	220	<b>22400M</b>	234	<b>2756</b>	32	<b>3247</b>	55,247

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3261	145	3749S-1/2	88	4100MRK	275	4400LH	77
3275	74	3749SB	59	4101	250	4400M	75
3276	74	3749SB-1/2	88	4102	245	4405A	75
3277	74	3749SBRK-1/2	273	4103M	137	4405M	75
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3300CB	238	3753BRK	272	4112N	152	4440A	80
3300CZ	119	3753J	61	4112RK	275	4440M	80
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3340M	49	3768RK	274	4232M	98	4752N	90
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3400M	40	3774JB	64	4250M	101	4753RK	273
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8760	113	NV16400	229	RS3012A/8	58	RS4305M/10	78
8768	114	NV16760	229	RS3012M/8	58	RS4310M/10	79
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8785	114	P2258M	39	RS3020/7	53	RS4400LH/6	77
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