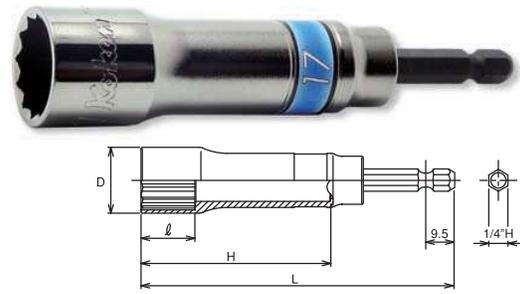


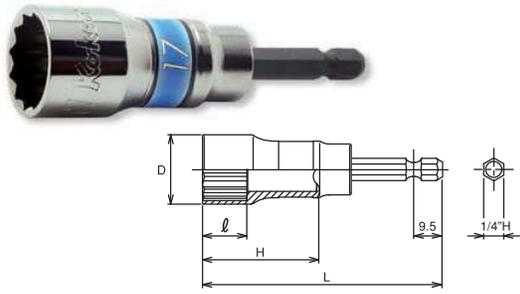
HAND MANUALES  
Z-SERIES  
TITANIUM DE TITANIO  
ACCESSORIES ACCESORIOS  
SCREWDRIVERS DESTORNILLADORES  
IMPACT DE IMPACTO  
SLEEVE-DRIVE  
INDUSTRIAL INDUSTRIALES  
PROTECTOR PROTECTORES  
AUTOMOTIVE  
CONSTRUCTION CONSTRUCCIÓN  
RENEWAL KITS JUEGOS DE PIEZAS REPUESTO

**BD014E** 12-point Nut Setters, Deep  
Vasos Bihex para Apretar Tuercas, largos



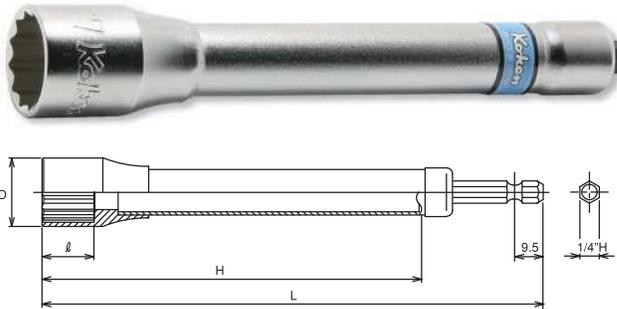
BD014E (mm)	D (mm)	l (mm)	H (mm)	L (mm)	(g)	(pcs.)
8	12	12	63	104	45	10
10	14	12	63	104	52	10
12	16.5	18	63	104	61	10
13	17.5	18	63	104	65	10
14	19	18	63	104	72	10
17	22.5	18	60	104	80	10
19	24.5	18	60	104	95	10
21	27	18	60	104	110	10
22	28	18	60	104	112	10
24	30.3	18	60	104	123	10

**BD014SE** 12-point Nut Setters  
Vasos Bihex para Apretar Tuercas



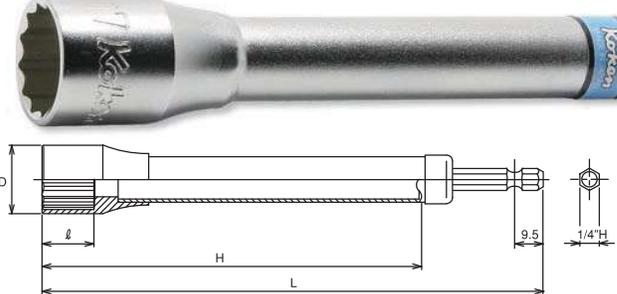
BD014SE (mm)	D (mm)	l (mm)	H (mm)	L (mm)	(g)	(pcs.)
8	12	12	36	77	35	10
10	14	12	36	77	38	10
12	16.5	14	36	77	48	10
13	17.5	14	36	77	51	10
14	19	14	36	77	54	10
17	22.5	14	36	77	76	10
19	24.5	14	36	77	83	10
21	27	14	34	77	104	10
22	28	14	34	77	120	10
24	30.3	14	34	77	140	10

**BD008E-165 (12P)** 12-point Nut Setters, Extra Long  
Vasos Bihex para Apretar Tuercas



BD008E 165 (mm)	D (mm)	l (mm)	H (mm)	L (mm)	(g)	(pcs.)
17(12P)	22.5	17	110	165	105	10
19(12P)	24.5	17	110	165	135	10
21(12P)	27	17	110	165	142	10

**BD008E-300 · -500 · -700 (12P)** 12-point Nut Setters, Extra Long  
Vasos Bihex para Apretar Tuercas



BD008E 300 (mm)	D (mm)	l (mm)	H (mm)	L (mm)	(g)	(pcs.)
17(12P)	22.5	17	245	300	154	2

BD008E 500 (mm)	D (mm)	l (mm)	H (mm)	L (mm)	(g)	(pcs.)
17(12P)	22.5	17	445	500	223	2

BD008E 700 (mm)	D (mm)	l (mm)	H (mm)	L (mm)	(g)	(pcs.)
17(12P)	22.5	17	645	700	292	2

BD014XE (mm)	D (mm)	ℓ (mm)	H (mm)	L (mm)	(g)	(pcs.)
New 8SF	13	12	49	90	40	10
New 10SF	15	12	49	90	46	10
New 12SF	17.5	14	48	90	54	10
New 13SF	18.5	14	48	90	58	10
New 14SF	19.8	14	47	90	64	10
New 17SF	23.5	14	46	90	81	10
New 19SF	25.5	14	46	90	100	10
New 21SF	28	14	46	90	123	10
New 24SF	31.5	14	45	90	137	10

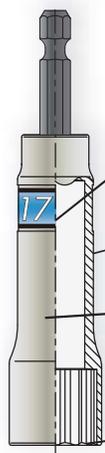
BD014E (mm)	D (mm)	ℓ (mm)	H (mm)	L (mm)	(g)	(pcs.)
New 17SF	23.5	18	60	104	94	10
New 19SF	25.5	18	60	104	100	10
New 21SF	28	18	60	104	110	10

## 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

BD011SE (mm)	D (mm)	ℓ (mm)	H (mm)	L (mm)	(g)	(pcs.)
10	14	12	35	100	73	10
12	16.5	12	35	100	77	10
13	17.5	12	35	100	79	10
14	19	12	32	100	82	10
17	22.5	14	32	100	87	10
19	24.5	14	30	100	94	10
21	27	14	30	100	103	10
22	28	14	30	100	104	10



### Color Coded

Easy identification for the sizes.

8	Koken	12	Koken	14	Koken	19	Koken	22	Koken
10	Koken	13	Koken	17	Koken	21	Koken	24	Koken

### Light Body Design

BD011SE, BD014E and BD014SE are designed 30% light weight for easy handling.

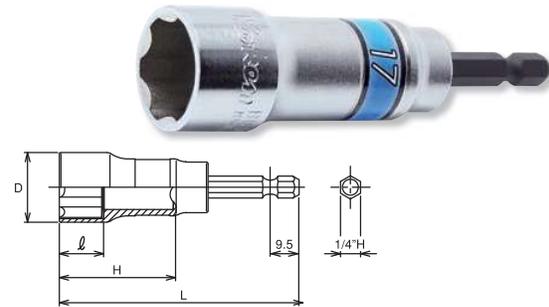
### Dark Colour Chrome Plating

Surface treatment is Dark Colour Chrome Plating.  
\*except BD008E series

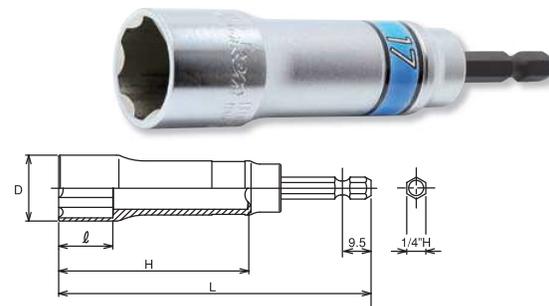
### 12 point Opening / Surface Drive Opening

Socket opening is designed to 12-point opening and surface drive opening to catch a bolt/nut easy.

## BD014XE-SF Surface Drive Nut Setters, Semi-Deep Vasos semi-largos con Mango



## BD014E-SF Surface Drive Nut Setters Vasos con Mango



## BD011SE 12-point Universal Joint Nut Setters Vasos Bihex para Apretar Tuercas con Articulación Universal



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ACCESSORIES ACCESORIOS  
SCREWDRIVERS DESTORNILLADORES  
IMPACT DE IMPACTO  
SLEEVE-DRIVE INDUSTRIAL INDUSTRIALES  
PROTECTOR PROTECTORES  
AUTOMOTIVE  
CONSTRUCTION CONSTRUCCION  
RENEWAL KITS JUEGOS DE HERRAS REPUESTO

HAND  
MANUALES

Z-SERIES

TITANIUM  
DE TITANIO

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

SLEEVE-DRIVE

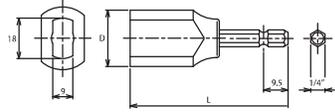
INDUSTRIAL  
INDUSTRIALES

PROTECTOR  
PROTECTORES

AUTOMOTIVE

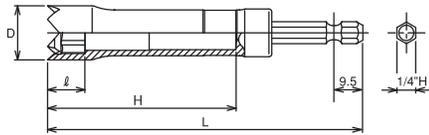
RENEWAL KITS  
JUEGOS DE PIEZAS REPUESTO

### BD003E-I



	D (mm)	L (mm)	(g)	(pcs.)
<b>BD003E-I</b>	25	70	95	10

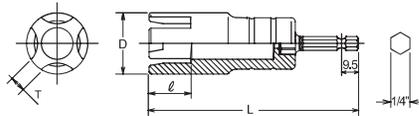
### BD013E



BD013E (mm)	D (mm)	ℓ (mm)	H (mm)	L (mm)	(g)	(pcs.)
<b>12</b>	17.8	12.5	63	105	69	10

### BD017E

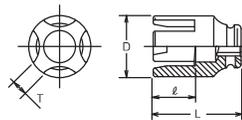
Wing Bolt Socket for Electric Drill  
Vaso para Tuerca de Orejetas para Taladro eléctrico



	D (mm)	T (mm)	ℓ (mm)	L (mm)	(g)	(pcs.)
<b>BD017E</b>	31	7.3	21	104	158	10

### BD018

Wing Bolt Socket  
Vaso para Tuerca de Orejetas

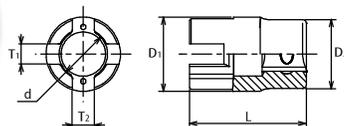


	□	D (mm)	T (mm)	ℓ (mm)	L (mm)	(g)	(pcs.)	⊕
<b>BD018</b>	<b>3/8"</b>	31	7.3	21	45	113	10	*1

\*1 C-Ring=1302C, Pin/O-Ring=1401A/B → P238-239

### 3119

Wing Bolt Socket  
Vaso para Tuerca de Orejetas



	□	T <sub>1</sub> ×T <sub>2</sub> (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	d (mm)	L (mm)	(g)	(pcs.)
<b>3119</b> (mm)								
<b>3 x 5</b>	<b>3/8"</b>	3 x 5	17	17.3	11	30	30	10
<b>5.5 x 6</b>		5.5 x 6	21	19.5	14	33	45	10

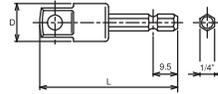


For Wing Bolt  
Para Tuercas de Mariposa

For Drain Plug in Radiator  
Para conectores de drenaje en Radiadores

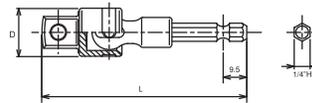
BD023E		D (mm)	L (mm)		
3/8	3/8"	12.5	55	27	10
1/2	1/2"	16.5	60	48	10

**BD023E** Adaptor  
Adaptador



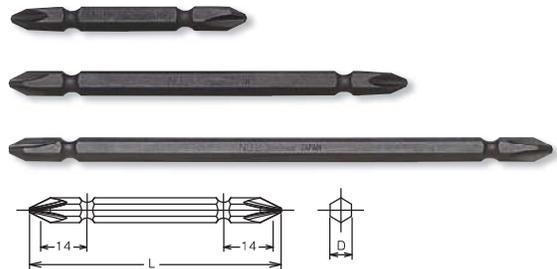
BD024E		D (mm)	L (mm)		
3/8	3/8"	19.3	78	63	10
1/2	1/2"	19.3	82	73	10

**BD024E** Universal Adaptors  
Adaptadores Universal



123PN.65 123PG.65 (PH)	D (mm)	L (mm)		
1	6.35	65	13	10
2	6.35	65	13	10
3	6.35	65	14	10

**123PN-65 · -110 · -150** Double ended Bits  
Puntas Phillips, simétricas  
**123PG-65 · -110 · -150** Magnetic type



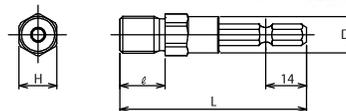
123PN.110 123PG.110 (PH)	D (mm)	L (mm)		
1	6.35	110	25	10
2	6.35	110	25	10
3	6.35	110	26	10

123PN.150 123PG.150 (PH)	D (mm)	L (mm)		
1	6.35	150	36	10
2	6.35	150	36	10
3	6.35	150	37	10

Groove position: Japanese model

184.64	D (mm)	ℓ (mm)	L (mm)	H (mm)		
New 3/8x24UNF	12.5	14.5	64	13	34	10
New 1/2x20UNF	12.5	15.5	64	13	40	10

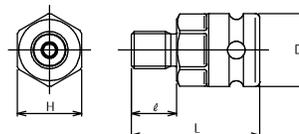
**184.64** Drill Chuck Adaptor  
Adaptador porta-brocas para Taladro



14184		D (mm)	ℓ (mm)	L (mm)	H (mm)			
New 3/8x24UNF	1/2"	25	14.5	44	22	85	10	*1
New 1/2x20UNF	1/2"	25	15.5	44	22	88	10	*1

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B → P238-239

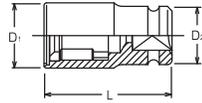
**14184** Drill Chuck Adaptor  
Adaptador porta-brocas para Taladro



HAND MANUALES  
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SLEEVE-DRIVE INDUSTRIAL INDUSTRIALES  
PROTECTOR PROTECTORES  
AUTOMOTIVE  
CONSTRUCTION CONSTRUCCION  
RENEWAL KITS JUEGOS DE PIEZAS REPUESTO

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ACCESSORIES ACCESORIOS  
SCREWDRIVERS DESTORNILLADORES  
IMPACT DE IMPACTO  
SLEEVE-DRIVE  
INDUSTRIAL INDUSTRIALES  
PROTECTOR PROTECTORES  
AUTOMOTIVE  
RENEWAL KITS CONSTRUCTION JUEGOS DE PIEZAS REPUESTO CONSTRUCCIÓN

**BD004** Impact Screw and Stud Setters  
Vasos de Impacto para Atornillar Pernos y Espárragos

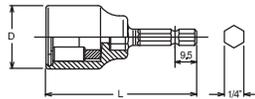


BD004 (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	L (mm)	(g)	(pcs.)	(g)
12.5x10	30	25	70	236	5	*1
12.5x13	38	30	75	388	3	*2
12.5x16	38	30	75	369	3	*2
20 x19	48	44	90	775	3	*3
20 x22	48	44	90	752	3	*3
20 x25	62	44	95	1184	2	*3
20 x29	62	44	95	1148	2	*3

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B  
\*2 C-Ring=1402C, Pin/O-Ring=1402A/B  
\*3 C-Ring=1600C, Pin/O-Ring=1601A/B



**162E** Stud Setters  
Vasos de Atornillar Espárragos



162E (mm)	D (mm)	L (mm)	(g)	(pcs.)
10	28	66	107	10

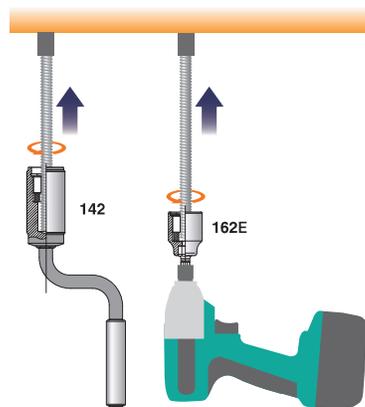
162E (inch)	D (mm)	L (mm)	(g)	(pcs.)
1/4	23	66	83	10
5/16	23	66	82	10
3/8	28	66	107	10
1/2	28	66	108	10

\*Renewal Kits → 162RK → P289

**142** Stud Setters  
Vasos de Atornillar Espárragos



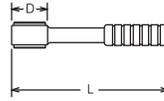
142 (inch)	L (mm)	(g)	(pce.)
5/16	190	304	1
3/8	190	361	1
1/2	190	354	1



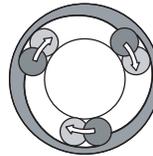
141S (mm)	D (mm)	L (mm)	(g)	(pce.)
6	28	120	150	1
8	28	120	150	1
10	32	120	153	1
12	32	120	152	1

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** Stud Puller Ratchets  
Extractores de Espárragos de Carraca

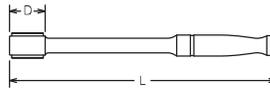


**Stud Puller Ratchet (141S/141/141P)**  
The three roller system can protect the studs from damage.  
El sistema de tres rodillos puede proteger los espárragos de cualquier daño

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

**141P** Stud Puller Ratchets  
Extractores de Espárragos de Carraca



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

1201 4 Pieces Set/1201=973g  
METAL CASE:W240xH100xT32mm  
Pullers  
**141S** Stud Puller Ratchets  
6, 8, 10, 12



**1201** Stud Puller Ratchets Set  
Juego de Extractores de Espárragos de Carraca



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AUTOMOTIVE  
CONSTRUCTION CONSTRUCCION  
RENEWAL KITS JUEGOS DE PIEZAS REEMPLISTO

HAND  
MANUALES

Z-SERIES

TITANIUM  
DE TITANIO

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ACCESORIOS

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DESTORNILLADORES

IMPACT  
DE IMPACTO

SLEEVE-DRIVE

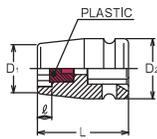
INDUSTRIAL  
INDUSTRIALES

PROTECTOR  
PROTECTORES

AUTOMOTIVE

RENEWAL KITS  
JUEGOS DE PIEZAS REPUESTO  
CONSTRUCTION  
CONSTRUCCIÓN

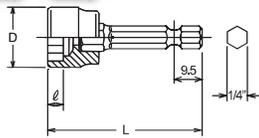
**BD14400MJ**  6-point Sockets for Anchor Screws  
Vasos Hexagonales para Pernos de Anclaje



BD14400MJ (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	 (g)	 (pcs.)	
13	1/2"	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 [P238-239](#)

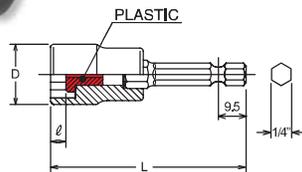
**BD016E**  6-point Sockets for Anchor Screws  
**BD016E-SF** 



BD016E (mm)	D (mm)	ℓ (mm)	L (mm)	 (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)	 (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  
**BD016JE-SF** 



BD016JE (mm)	D (mm)	ℓ (mm)	L (mm)	 (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)	 (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)	ℓ (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

HA002.130 (mm)	D (mm)	ℓ (mm)	L (mm)	(g)	(pcs.)
24	34.5	14	130	246	10

HA002.160 (mm)	D (mm)	ℓ (mm)	L (mm)	(g)	(pcs.)
24	34.5	14	160	465	10

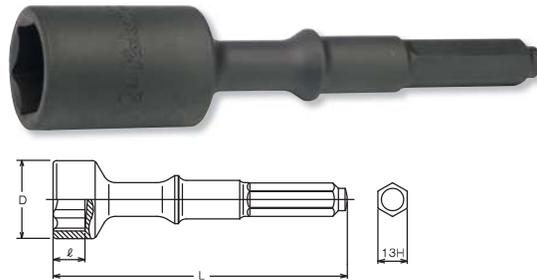
HA003.100 (mm)	D (mm)	ℓ (mm)	L (mm)	(g)	(pcs.)
24	34.5	14	100	155	10

HA004 (mm)	D (mm)	ℓ (mm)	L (mm)	(g)	(pcs.)
24	31	16.5	58	91	10

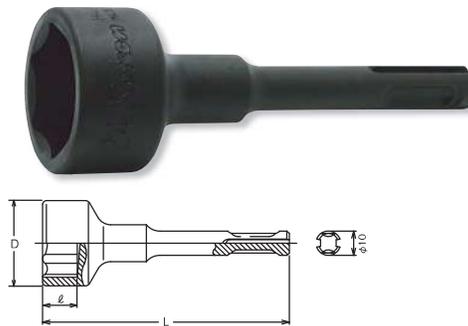
**HA001** Stud Setters  
Vasos para Atornillar Espárragos



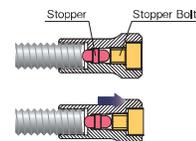
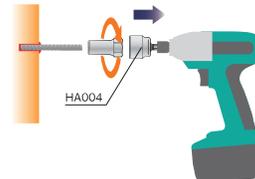
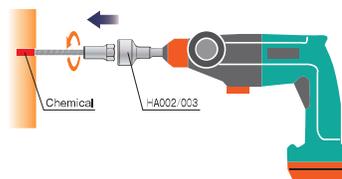
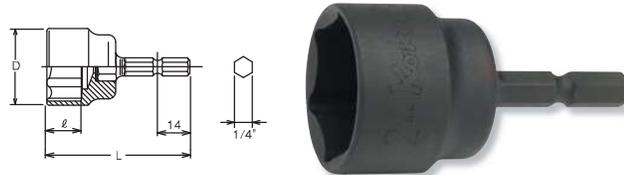
**HA002-130 · -160** Socket for HA001  
Vaso para HA001



**HA003-100** Socket for HA001  
Vaso para HA001



**HA004**



HAND MANUALES  
Z-SERIES  
TITANIUM DE TITANIO  
ACCESSORIES ACCESORIOS  
SCREWDRIVERS DESTORNILLADORES  
IMPACT DE IMPACTO  
SLEEVE-DRIVE  
INDUSTRIAL INDUSTRIALES  
PROTECTOR PROTECTORES  
AUTOMOTIVE  
CONSTRUCTION CONSTRUCCION  
RENEWAL KITS JUEGOS DE PIEZAS REPUESTO

HAND  
MANUALES

Z-SERIES

TITANIUM  
DE TITANIO

ACCESSORIES  
ACCESORIOS

SCREWDRIVERS  
DESTORNILLADORES

IMPACT  
DE IMPACTO

SLEEVE-DRIVE

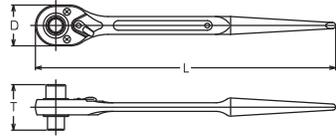
INDUSTRIAL  
INDUSTRIALES

PROTECTOR  
PROTECTORES

AUTOMOTIVE

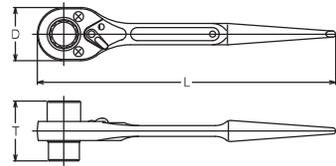
RENEWAL KITS  
JUEGOS DE PIEZAS REPUESTO

**170S** Spud Handle Ratchets  
Llaves de Carraca con Mango de Cola



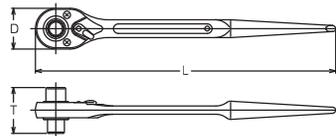
170S (mm)	D (mm)	T (mm)	L (mm)	(g)	(pce.)
10x12	34	38	250	260	1
12x14	34	38	250	260	1

**171S** Spud Handle Ratchets(Short)  
Llaves de Carraca con Mango de Cola(Cortas)



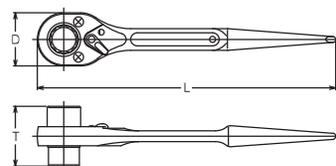
171S (mm)	D (mm)	T (mm)	L (mm)	(g)	(pce.)
14x17	44.6	50	250	460	1
17x19	44.6	50	250	460	1
17x21	44.6	50	250	460	1
19x21	44.6	50	250	460	1

**171** Spud Handle Ratchets(Long)  
Llaves de Carraca con Mango de Cola(Largas)



171 (mm)	D (mm)	T (mm)	L (mm)	(g)	(pce.)
14x17	44.6	50	380	630	1
17x19	44.6	50	380	630	1
17x21	44.6	50	380	630	1
19x21	44.6	50	380	630	1

**172** Spud Handle Ratchets  
Llaves de Carraca con Mango de Cola

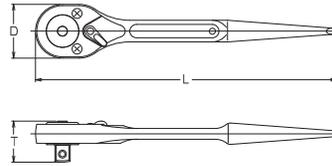


172 (mm)	D (mm)	T (mm)	L (mm)	(g)	(pce.)
21x26	68	58	380	1100	1
22x24	68	58	380	1100	1
23x26	68	58	380	1100	1
24x27	68	58	380	1100	1
26x32	68	63	380	1100	1

**171SB-1/2** Spud Handle Ratchet with Push Button(short)  
Llave de Carraca con Mango de Cola con Botón(corta)



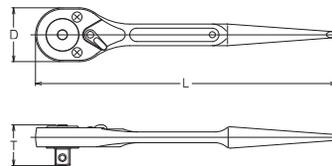
		D (mm)	T (mm)	L (mm)	(g)	(pce.)
171SB-1/2	1/2"	44.6	33	250	480	1



**171B-1/2** Spud Handle Ratchet with Push Button(Long)  
Llave de Carraca con Mango de Cola con Botón(larga)

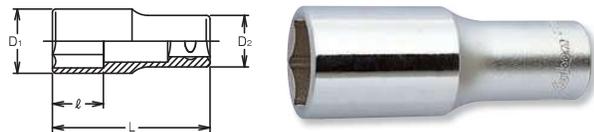


		D (mm)	T (mm)	L (mm)	(g)	(pce.)
171B-1/2	1/2"	44.6	33	380	650	1



**4300TW** 6-point Sockets  
Vasos Hexagonales

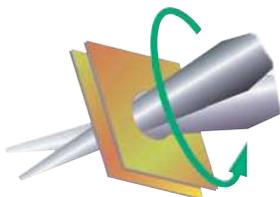
4300TW (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	(g)	(pcs.)
14	1/2"	20.3	21	15	77	120	10
17		24	21.8	18	77	130	10
19		26.5	21.8	20	77	150	10
21		29	21.8	23	77	150	10



**1205** Set Juego



1205	5 Pieces Set/△△=1,200g	
BAG		
Sockets		Accessory
	4300TW Sockets 14, 17, 19, 21	171B-1/2



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