

3/8"

Industrial Sockets
Steckschlüssel, Industrie-Ausführung
Clés à douilles, finissage industriel

Z-SERIES
HAND
TITANIUM
ACCESSORIES
SCREWDRIVERS
IMPACT
SLEEVE-DRIVE
PROTECTOR
INDUSTRIAL
AUTOMOTIVE
MOTORCYCLE
CONSTRUCTION
SPARE PART

23400M (mm)	D ₁ (mm)	D ₂ (mm)	H (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	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	21	19.5	11.5	28	39	10
16	22	20	12	28	42	10
17	23.5	21.5	12.5	29	51	10
18	24.6	22.5	13	30	51	10
19	26	23.5	13.5	30	53	10
21	28	26	14.5	32	77	10

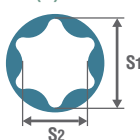
23400A (inch)	D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pcs.)
5/16	12	17.3	6.9	26	22	10
3/8	13.9	17.3	8	26	22	10
7/16	15.8	17.3	9.3	26	25	10
1/2	18	17	9.4	26	24	10
9/16	19.5	18.5	11	27	31	10
11/16	24.6	22.5	13	30	51	10
3/4	26	23.5	13.5	30	63	10

23405M (mm)	D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pcs.)
8	12	17.3	6.9	26	22	10
10	14.5	17.3	8	26	24	10
12	16.8	17.3	9	26	25	10
14	19.5	18.5	11	27	31	10

23410M (mm)	D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pcs.)
8	12	17.3	6.9	26	22	10
10	14.5	17.3	8	26	24	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	21	19.5	11.5	28	39	10
16	22	20	12	28	42	10
17	23.5	21.5	12.5	29	51	10
18	24.6	22.5	13	30	51	10
19	26	23.5	13.5	30	53	10

23425 (E)	D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pcs.)
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)

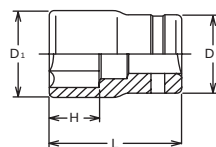


E	E4	E5	E6	E7	E8	E10	E11	E12	E14	E16	E18	E20	E22	E24	E26	E28	E30	E32
S ₁ (ref. mm)	3.7	4.6	5.6	6.1	7.4	9.3	9.9	11.0	12.8	14.6	16.5	18.3	20.1	22.0	23.7	25.5	27.3	29.0
S ₂ (ref. mm)	2.7	3.3	4.0	4.3	5.3	6.8	7.1	7.9	9.2	10.5	11.9	13.2	14.8	15.7	17.5	18.3	20.0	21.3



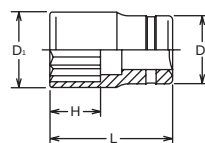
23400M / 23400A

6-point Sockets
6-kant Steckschlüssel
Douilles 6-pans



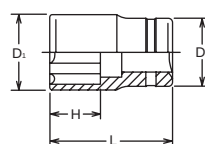
23405M

12-point Sockets
12-kant Steckschlüssel
Douilles 12-pans



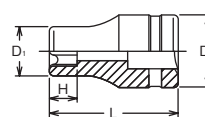
23410M

Surface Drive Sockets
Surface Drive Steckschlüssel
Douilles, Surface Drive



23425

TORX® Sockets
TORX® Steckschlüssel
Douilles TORX®



Industrial Sockets

Steckschlüssel, Industrie-Ausführung

Clés à douilles, finissage industriel

3/8"

Z-SERIES

HAND

TITANIUM

ACCESSORIES

SCREWDRIVERS

IMPACT

SLEEVE-DRIVE

PROTECTOR

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AUTOMOTIVE

MOTORCYCLE

CONSTRUCTION

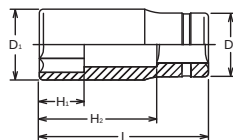
SPARE PART

23300M / 23300A

6-point Sockets, deep
6-kant Steckschlüssel, lang
Douilles longues, 6-pans



FLAT DRIVE®

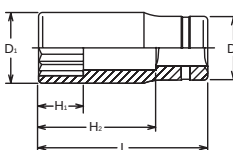


23300M (mm)	D ₁ (mm)	D ₂ (mm)	H ₁ (mm)	H ₂ (mm)	L (mm)	(g)	(pcs.)
7	10.6	17.4	8	41.5	55	40	10
8	12	17.4	9	41.5	55	45	10
10	14.5	17.4	11	41.5	55	52	10
11	16	17.2	12	41.5	55	55	10
12	16.8	17.2	13	41.5	55	58	10
13	18	17	14	41.5	55	57	10
14	20	18	16	41.5	55	68	10
15	21	20	16	40.5	55	78	10
16	22	20	17	40.5	55	79	10
17	23.5	22	18	40.5	55	96	10
18	24.5	23	19	39.5	55	96	10
19	25	24	20	39.5	55	102	10

23300A (inch)	D ₁ (mm)	D ₂ (mm)	H ₁ (mm)	H ₂ (mm)	L (mm)	(g)	(pcs.)
5/16	12	17.4	9	41.5	55	45	10
3/8	14	17.4	11	41.5	55	51	10
7/16	16	17.2	12	41.5	55	55	10
1/2	18	17	14	41.5	55	57	10
9/16	20	18	16	41.5	55	68	10
11/16	23.5	22	18	40.5	55	96	10
3/4	25	24	20	39.5	55	102	10

23305M

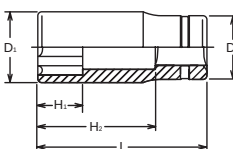
12-point Deep Sockets
12-kant Steckschlüssel, lang
Douilles longues, 12-pans



23305M (mm)	D ₁ (mm)	D ₂ (mm)	H ₁ (mm)	H ₂ (mm)	L (mm)	(g)	(pcs.)
8	12	17.4	9	41.5	55	45	10
10	14.5	17.4	11	41.5	55	52	10
12	16.8	17.2	13	41.5	55	58	10
14	20	18	16	41.5	55	68	10

23310M

Surface Drive Sockets, deep
Surface Drive Steckschlüssel, lang
Douilles longues, Surface Drive

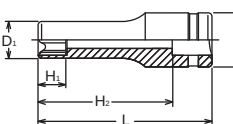


SURFACE DRIVE

23310M (mm)	D ₁ (mm)	D ₂ (mm)	H ₁ (mm)	H ₂ (mm)	L (mm)	(g)	(pcs.)
8	12	17.4	9	41.5	55	45	10
10	14.5	17.4	11	41.5	55	52	10
12	16.8	17.2	13	41.5	55	58	10
13	18	17	14	41.5	55	57	10
14	20	18	16	41.5	55	68	10
15	21	20	16	40.5	55	80	10
17	23.5	22	18	40.5	55	96	10

23325

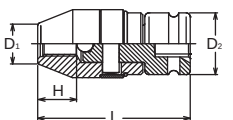
TORX® Deep Sockets
TORX® Steckschlüssel, lang
Douilles longues TORX®



23325 (E)	D ₁ (mm)	D ₂ (mm)	H ₁ (mm)	H ₂ (mm)	L (mm)	(g)	(pcs.)
E 5	6.9	17.4	5.2	41.5	55	50	10
E 6	7.9	17.4	5.4	41.5	55	52	10
E 7	8.9	17.4	6.6	41.5	55	55	10
E 8	9.9	17.4	7	41.5	55	58	10
E10	11.8	17.2	8.2	41.5	55	60	10
E12	14.5	17.2	9.3	41.5	55	68	10
E14	15.7	17.2	10.6	41.5	55	77	10
E16	18	17	11.8	41.5	55	80	10

23103M

Stud Bolt Setter with unlocking system
Stehbolzensetzer mit Entriegelungssystem
Monte-goujons avec système de déverrouillage



23103M (mm)	D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pcs.)	(V)
6(1.0)	11.1	22	9	59	175	10	*1
8(1.25)	13.6	22	11	61	181	10	*1
10(1.25)	16	22	13	63	188	10	*1
10(1.5)	16	22	13	63	188	10	*1

*1 C-Ring=C32, Pin/O-Ring=A32/B32 → P268-269

This item is not suitable for Impact Drivers.
The tool should only be used with non-impacting electric screwdrivers.

Das Werkzeug ist nicht für Schlagschrauber geeignet.
Das Werkzeug sollte ausschließlich mit nicht schlagenden Elektroschraubern verwendet werden.

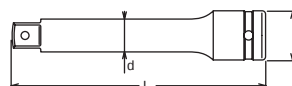
L'outil n'est pas adapté aux visseuses à chocs.
L'outil doit être utilisé exclusivement avec des visseuses électriques non percutantes.

23760-P

Extension Bars
Verlängerungen
Rallonges



	D (mm)	d (mm)	L (mm)	(g)	(pcs.)
23760-75P	18	12.5	75	70	10
23760-125P	18	12.5	125	110	10
23760-250P	18	12.5	250	200	5



1/2"

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SCREWDRIVERS
IMPACT
SLEEVE-DRIVE
PROTECTOR
INDUSTRIAL
AUTOMOTIVE
MOTORCYCLE
CONSTRUCTION
SPARE PART

24400M (mm)	D ₁ (mm)	D ₂ (mm)	H (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	24.1	23	12.5	37	69	10
18	25.1	24	13	37	74	10
19	26.6	25	14	38	89	10
20	27.9	26	15	38	92	10
21	29.1	27	15.5	38	102	10
22	30.1	28	16	40	113	10
23	31.5	29	16.5	40	128	10
24	32.9	30	17	42	140	5
26	35	32	19	42	165	5
27	36.5	33	19.5	43	196	5
29	39	35	20.5	43	190	5
30	40	36	22	46	222	5
32	42.8	38	23	46	250	5

24400A (inch)	D ₁ (mm)	D ₂ (mm)	H (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	22.9	22	12	37	62	10
3/4	26.6	25	14	38	89	10
15/16	32.9	30	17	42	140	10

24405M (mm)	D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pcs.)
10	15.3	21	9	37	45	10
12	17.8	21	10	37	47	10
14	20.3	22	11	37	56	10
17	24.1	23	12.5	37	69	10
19	26.6	25	14	38	89	10

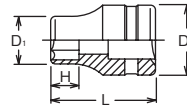
24410M (mm)	D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pcs.)
10	15.3	21	9	37	45	10
12	17.8	21	10	37	47	10
13	19	22	10.5	37	53	10
14	20.3	22	11	37	56	10
15	21.5	22	11.5	37	52	10
16	22.8	22	12	37	62	10
17	24.1	23	12.5	37	69	10
18	25.1	24	13	37	74	10
19	26.6	25	14	38	89	10
21	29.1	27	15.5	38	102	10
22	30.1	28	16	40	113	10
24	32.9	30	17	42	140	10

24425 (E)	D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pcs.)
E10	13.2	21	8.2	36	68	10
E12	14.6	21	9.3	37	70	10
E14	16.5	21	10.6	37	75	10
E16	19	21.9	11.8	37	80	10
E18	20.3	21.9	13	37	83	10
E20	22.9	22	14.4	37	121	10



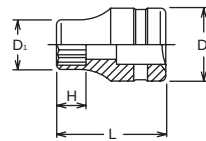
24400M / 24400A

6-point Sockets
6-kant Steckschlüssel
Douilles 6-pans



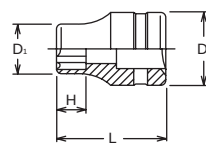
24405M

12-point Sockets
12-kant Steckschlüssel
Douilles 12-pans



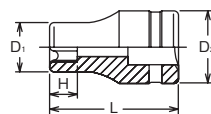
24410M

Surface Drive Sockets
Surface Drive Steckschlüssel
Douilles, Surface Drive

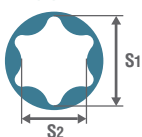


24425

TORX® Sockets
TORX® Steckschlüssel
Douilles TORX®



TORX®
(E)



E	E4	E5	E6	E7	E8	E10	E11	E12	E14	E16	E18	E20	E22	E24	E26	E28	E30	E32
S ₁ (ref. mm)	3.7	4.6	5.6	6.1	7.4	9.3	9.9	11.0	12.8	14.6	16.5	18.3	20.1	22.0	23.7	25.5	27.3	29.0
S ₂ (ref. mm)	2.7	3.3	4.0	4.3	5.3	6.8	7.1	7.9	9.2	10.5	11.9	13.2	14.8	15.7	17.5	18.3	20.0	21.3

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TORX® ist ein registriertes Markenzeichen der Firma CAMCAR Innovations®.
TORX® est une marque déposée de CAMCAR Innovations®.

Koken TOOL CO., LTD.

Industrial Sockets

Steckschlüssel, Industrie-Ausführung

Clés à douilles, finissage industriel

1/2"

Z-SERIES

HAND

TITANIUM

SCREWDRIVERS

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MOTORCYCLE

CONSTRUCTION

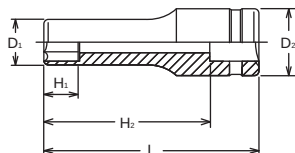
SPARE PART

24300M / 24300A

6-point Sockets, deep
6-kant Steckschlüssel, lang
Douilles longues, 6-pans



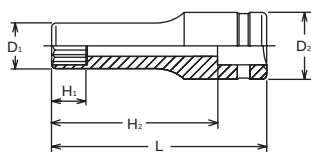
FLAT DRIVE®



24300M (mm)	D ₁ (mm)	D ₂ (mm)	H ₁ (mm)	H ₂ (mm)	L (mm)	(g)	(pcs.)
10	15.3	21	11	59	77	91	10
11	16.5	21	12	59	77	95	10
12	17.8	21	13	59	77	99	10
13	19	21.8	14	59	77	107	10
14	20.3	21.8	16	59	77	118	10
15	21.5	21.8	16	59	77	123	10
16	22.8	22	17	59	77	141	10
17	24	23	18	59	77	150	10
18	25	24	19	59	77	164	10
19	26.5	25	20	58	77	177	10
20	27.8	26	21	58	77	178	10
21	29	27	23	58	77	187	10
22	30	28	27	57	77	202	10
23	31.5	29	27	57	77	235	10
24	32.8	30	27	57	77	252	10
27	36.5	33	28	56	77	303	10
30	40	36	34	55	77	342	10
32	42.8	38	34	55	77	405	10

24305M

12-point Deep Sockets
12-kant Steckschlüssel, lang
Douilles longues 12-pans



24300A (inch)	D ₁ (mm)	D ₂ (mm)	H ₁ (mm)	H ₂ (mm)	L (mm)	(g)	(pcs.)
7/16	16.5	21	12	59	77	95	10
1/2	19	21.8	14	59	77	107	10
9/16	20.3	21.8	15	59	77	118	10
5/8	22.8	22	17	59	77	141	10
21/32	24	23	18	59	77	150	10
11/16	25	24	19	59	77	164	10
3/4	26.5	25	20	58	77	177	10
13/16	29	27	23	58	77	187	10
15/16	32.8	30	27	57	77	252	10

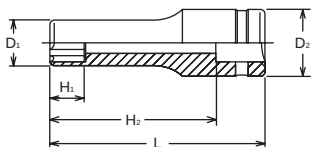
24305M (mm)	D ₁ (mm)	D ₂ (mm)	H ₁ (mm)	H ₂ (mm)	L (mm)	(g)	(pcs.)
10	15.3	21	11	59	77	91	10
12	17.8	21	13	59	77	99	10
14	20.3	21.8	16	59	77	118	10
17	24	23	18	59	77	150	10
19	26.5	25	20	58	77	177	10

24310M

Surface Drive Sockets, deep
Surface Drive Steckschlüssel, lang
Douilles longues, Surface Drive



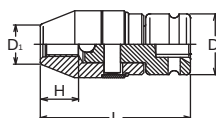
SURFACE DRIVE



24310M (mm)	D ₁ (mm)	D ₂ (mm)	H ₁ (mm)	H ₂ (mm)	L (mm)	(g)	(pcs.)
10	15.3	21	11	59	77	91	10
12	17.8	21	13	59	77	99	10
13	19	21.8	14	59	77	107	10
14	20.3	21.8	16	59	77	118	10
15	21.5	21.8	16	59	77	123	10
16	22.8	22	17	59	77	141	10
17	24	23	18	59	77	150	10
18	25	24	19	59	77	160	10
19	26.5	25	20	58	77	177	10
21	29	27	23	58	77	187	10
22	30	28	27	57	77	202	10
24	32.8	30	27	57	77	250	10

24103M

Stud Bolt Setter with unlocking system
Stehbolzensetzer mit Entriegelungssystem
Monte-goujons avec système de déverrouillage



24103M (mm)	D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pcs.)	(°)
8(1.25)	15.4	30	15	69	332	5	*1
10(1.25)	17.8	30	18	72	344	5	*1
10(1.5)	17.8	30	18	72	344	5	*1
12(1.75)	20.2	30	19	74	352	5	*1

*1 C-Ring=C42, Pin/O-Ring=A42/B42 → P268-269



This item is not suitable for Impact Drivers.

The tool should only be used with non-impacting electric screwdrivers.

Das Werkzeug ist nicht für Schlagschrauber geeignet.

Das Werkzeug sollte ausschließlich mit nicht schlagenden Elektroschraubern verwendet werden.

L'outil n'est pas adapté aux visseuses à chocs.

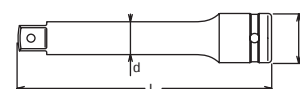
L'outil doit être utilisé exclusivement avec des visseuses électriques non percutantes.

24760-P

Extension Bars
Verlängerungen
Rallonges



	D (mm)	d (mm)	L (mm)	(g)	(pcs.)
24760-75P	24	16.5	75	140	10
24760-125P	24	14.3	125	200	5
24760-250P	24	14.3	250	370	5



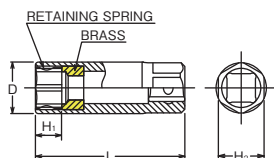
AUTOMOTIVE TOOLS
WERKZEUGE FÜR KFZ UND NUTZFAHRZEUGE
OUTILS POUR POIDS LOURDS ET VÉHICULES UTILITAIRES



3300C / 4300C



Spark Plug Sockets with Spring Clips
Zündkerzen-Schlüssel mit Haltefeder
Douilles avec ressorts de retenue pour bougies



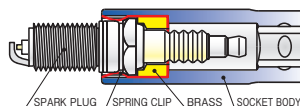
Spring clip type spark plug sockets caused deforming the clip, if it would be used with shallow engagement.

Zündkerzen-Schlüssel mit Haltefedern müssen korrekt auf die Zündkerze gesteckt werden. Ansonsten kann sich die Halteklammer verbiegen.

Les douilles de bougies d'allumage à clip à ressort doivent être mis correctement sur la bougie. Sinon, les ressorts peuvent se déformer.

3300C (mm)		D (mm)	H ₁ (mm)	H ₂ (mm)	L (mm)	(g)	(pcs.)
13		17.5	11	17	70	66	10
14		19	11	17	70	82	10
16	3/8"	20.5	13	17	70	91	10
18		23.9	12	21	70	140	10
20.8		26.9	13.5	22	70	132	10

4300C (mm)		D (mm)	H ₁ (mm)	H ₂ (mm)	L (mm)	(g)	(pcs.)
16		21	13	21	70	101	10
18	1/2"	23.9	12	21	70	132	10
20.8		26.9	13.5	22	70	130	10



Spark Plug Sockets with Spring Clip

An internal brass guide holds the clips in place, which ensures perfect alignment of the spark plug into the threaded plug hole of cylinder head, thus preventing thread damage. The brass guide also eliminates stress loading and possible damage to the ceramic insulator of the spark plug.

Zündkerzenstecker mit Federklemme

Eine interne Messingführung hält die Clips an ihrem Platz, was eine perfekte Ausrichtung der Zündkerze in der Gewindebohrung des Zylinderkopfes gewährleistet und somit eine Beschädigung des Gewindes verhindert. Die Messingführung eliminiert auch Stressbelastung und mögliche Schäden an dem Keramikisolator der Zündkerze.

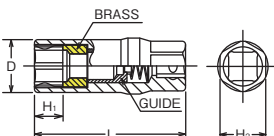
Douilles pour bougies d'allumage avec clip à ressort

Un guide interne en laiton maintient les clips en place, ce qui assure un alignement parfait de la bougie d'allumage dans le trou fileté de la culasse, évitant ainsi d'endommager le filetage. Le guide en laiton élimine également les contraintes et les risques d'endommagement de l'isolant en céramique de la bougie d'allumage.

3300CB



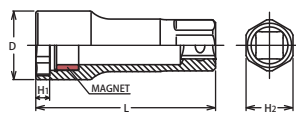
Spark Plug Socket (BMW)
Zündkerzen-Schlüssel (BMW)
Douilles pour bougies (BMW)



3300P



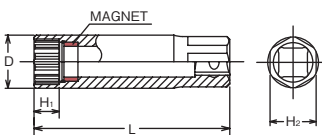
Spark Plug Socket with Magnet
Zündkerzensteckschlüssel mit Magnet
Douilles pour bougies, avec aimant



3305P



Spark Plug Socket with Magnet, 12-pt. opening
Zündkerzensteckschlüssel mit Magnet, 12-kant
Douilles à aimant pour bougies, 12-pans



3300CB (mm)		D (mm)	H ₁ (mm)	H ₂ (mm)	L (mm)	(g)	(pcs.)
16	3/8"	22.8	13	19	65	118	10



Spring clip type spark plug sockets caused deforming the clip, if it would be used with shallow engagement.

Zündkerzen-Schlüssel mit Haltefedern müssen korrekt auf die Zündkerze gesteckt werden. Ansonsten kann sich die Halteklammer verbiegen.

Les douilles de bougies d'allumage à clip à ressort doivent être mis correctement sur la bougie. Sinon, les ressorts peuvent se déformer.

3300P (mm)		D (mm)	H ₁ (mm)	H ₂ (mm)	L (mm)	(g)	(pcs.)
19	3/8"	24.8	5	17	65	88	10

19mm spark plug for generators, grass trimmers and chainsaws.

19mm Zündkerzen für Generatoren, Rasenmäher und Motorsägen.

Douille pour bougies de 19 mm pour les générateurs, les coupe-herbes et les tronçonneuses.



The magnet can break by any impacts. Please handle with care.

Der Magnet kann durch Stöße beschädigt werden. Bitte mit Vorsicht handhaben.

L'aimant peut être brisé par n'importe quel impact. Veuillez le manipuler avec précaution.

3305P (mm)		D (mm)	H ₁ (mm)	H ₂ (mm)	L (mm)	(g)	(pcs.)
12		16.5	6.3	—	70	78	10
14		19	8	17	70	87	10
16	3/8"	20.5	8	17	70	100	10

Spark Plug Socket with Magnet, 12-pt. opening: 3305P-14



The magnet can break by any impacts. Please handle with care.

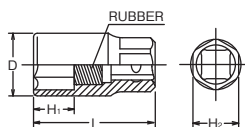
Der Magnet kann durch Stöße beschädigt werden. Bitte mit Vorsicht handhaben.

L'aimant peut être brisé par n'importe quel impact. Veuillez le manipuler avec précaution.

3300S (mm)		D (mm)	H ₁ (mm)	H ₂ (mm)	L (mm)	(g)	(pcs.)
16	3/8"	20.9	19	17	70	100	10
18		23.9	21	21	70	145	10
20.8		26.9	27	22	70	140	10
4300S (mm)		D (mm)	H ₁ (mm)	H ₂ (mm)	L (mm)	(g)	(pcs.)
16	1/2"	21	19	21	70	100	10
18		23.9	21	21	70	130	10
20.8		26.9	27	22	70	135	10

3300S / 4300S

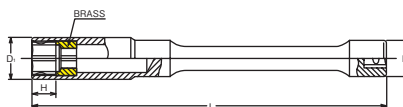
Spark Plug Sockets with Rubber
Zündkerzen-Schlüssel mit Gummieinsatz
Douilles pour bougies avec petit caoutchouc



3300C-180 (mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pcs.)
14	3/8"	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 ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pcs.)
14	3/8"	19	18	11	250	271	5
16		20.5	18	13	250	290	5
20.8		26.9	18	13.5	250	340	5

3300C-180 / -250

Spark Plug Sockets with Spring Clips
Zündkerzen-Schlüssel mit Haltefedern
Douilles pour bougies avec ressorts de retenue, extra-longues



Spring clip type spark plug sockets caused deforming the clip, if it would be used with shallow engagement.

Zündkerzen-Schlüssel mit Haltefedern müssen korrekt auf die Zündkerze gesteckt werden. Ansonsten kann sich die Halteklammer verbiegen.

Les douilles pour bougies avec clips à ressorts doivent être correctement insérées sur la bougie d'allumage. Dans le cas contraire la pince de maintien peut se déformer.

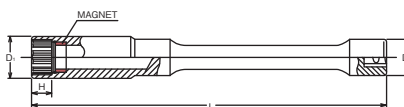


SPARK PLUG SOCKET

3305P-250 (mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pcs.)
14	3/8"	19	18	8	250	250	5

3305P-250

Spark Plug Socket with Magnet, 12pt. opening
Zündkerzensteckschlüssel mit Magnet, 12-kant
Douilles avec aimant pour bougies, 12-pans



The magnet can break by any impacts. Please handle with care.
Der Magnet kann durch Stöße beschädigt werden. Bitte mit Vorsicht handhaben.
L'aimant peut être brisé par n'importe quel impact. Veuillez le manipuler avec précaution.

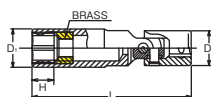
3340C (mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pcs.)
14	3/8"	19	19	11	88	109	10
16		21	19	13	88	122	10
18		23.9	19	12	88	145	10
20.8		26.8	19	13.5	88	174	10

3340C 4340C

Universal Spark Plug Sockets with Spring Clips
Gelenk-Zündkerzensteckschlüssel mit Haltefeder
Douilles articulées pour bougies avec ressorts de retenue



SPARK PLUG SOCKET



Spring clip type spark plug sockets caused deforming the clip, if it would be used with shallow engagement.

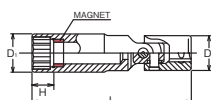
Zündkerzen-Schlüssel mit Haltefedern müssen korrekt auf die Zündkerze gesteckt werden. Ansonsten kann sich die Halteklammer verbiegen.

Les douilles pour bougies avec clips à ressorts doivent être correctement insérées sur la bougie d'allumage. Dans le cas contraire la pince de maintien peut se déformer.

3345P (mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pcs.)
14	3/8"	19	19	8	88	110	10

3345P

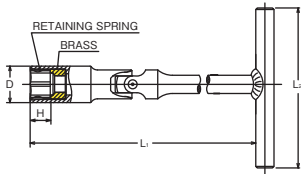
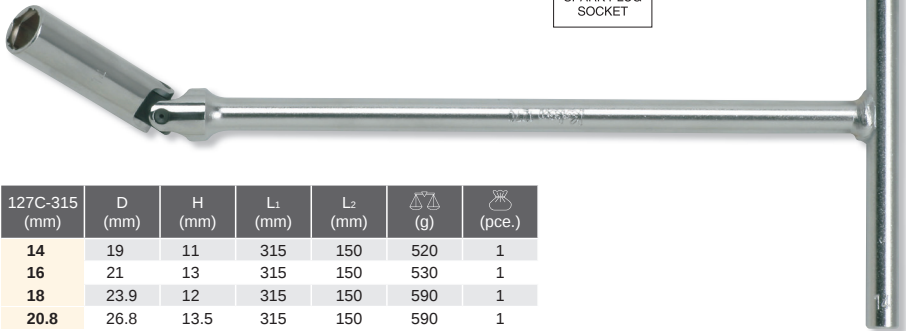
Universal Spark Plug Socket with Magnet, 12-point opening
Gelenk-Zündkerzensteckschlüssel mit Magnet, 12-kant Ausführung
Douilles articulées pour bougies avec aimant, 12-pans



The magnet can break by any impacts. Please handle with care.
Der Magnet kann durch Stöße beschädigt werden. Bitte mit Vorsicht handhaben.
L'aimant peut être brisé par n'importe quel impact. Veuillez le manipuler avec précaution.

Z-SERIES
HAND
TITANIUM
ACCESSORIES
SCREWDRIVERS
IMPACT
SLEEVE-DRIVE
PROTECTOR
INDUSTRIAL
AUTOMOTIVE
MOTORCYCLE
CONSTRUCTION
SPARE PART

127C T-type Universal Spark Plug Socket Wrench
T-Griff mit Gelenk-Zündkerzenschlüssel
Poignée en T avec douille universelle pour bougies



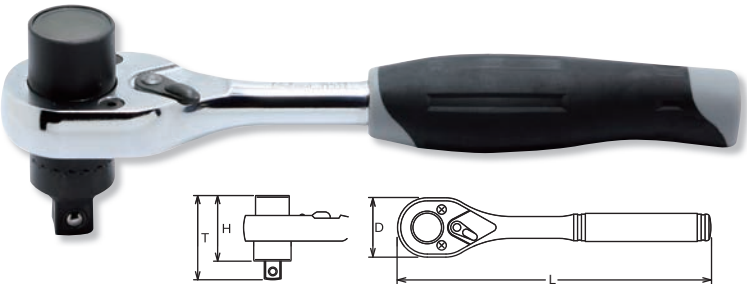
127C-315 (mm)	D (mm)	H (mm)	L ₁ (mm)	L ₂ (mm)	(g)	(pce.)
14	19	11	315	150	520	1
16	21	13	315	150	530	1
18	23.9	12	315	150	590	1
20.8	26.8	13.5	315	150	590	1

 Spring clip type spark plug sockets caused deforming the clip, if it would be used with shallow engagement.

Zündkerzen-Schlüssel mit Haltefedern müssen korrekt auf die Zündkerze gesteckt werden. Ansonsten kann sich die Halteklammer verbiegen.

Les douilles pour bougies avec clips à ressorts doivent être correctement insérées sur la bougie d'allumage. Dans le cas contraire la pince de maintien peut se déformer.

3751J Torque Ratchet for Spark plugs
Drehmoment-Knarre für Zündkerzen
Cliquet pour bougies à déclenchement 25Nm



		D (mm)	T (mm)	H (mm)	L (mm)	(g)	(pce.)
3751J-25	3/8"	34	57	43	178	320	1

3225A Set for Torque Controlled Installation of Spark Plugs
Set zur Drehmoment kontrollierten Montage von Zündkerzen
Jeu qui permet la rotation contrôlée lors du montage des bougies à déclenchement



3225A 4 Pieces Set/△=960g	
METAL CASE:W215×H80×T47mm	
Sockets	Accessories
 3300C Spark Plug Sockets 16, 20.8	 3751J-25  3763-125



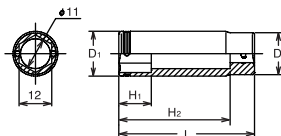
2350G-PSG (mm)		D ₁ (mm)	D ₂ (mm)	H ₁ (mm)	H ₂ (mm)	L (mm)	(g)	(pcs.)
12	1/4"	16.5	15.5	12	41	50	41	10



2350G-12PSG



NUT GRIP® Sockets for PSG-Glow Plugs
Steckschlüssel für PSG-Glühkerzen
Douilles pour bougies PSG

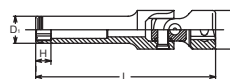


3341G-70 (mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pcs.)
10	3/8"	14.5	19	6	70	76	10
11		15.8	19	6	70	80	10
12		17	19	6	70	85	10

3341G-70 / -89



Universal PSG Glow Plug Socket with NUT GRIP®
Gelenksteckschlüssel für PSG-Glühkerzen mit 2fach Kugelhalterung
Douilles articulées pour bougies de préchauffement PSG, avec le système de billes de retenue doubles



3341G-89 (mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pcs.)
8	3/8"	12	19	7.5	89	82	10
9		13.3	19	7.5	89	87	10
10		14.5	19	6	89	92	10
12(DP52)		17	19	14	89	101	10

GLOW PLUG SOCKETS, NUT GRIP®

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

Die zwei Kugeln in der 6-kant Öffnung unserer NUT GRIP® Glühkerzensteckschlüssel halten die Zündkerze sicher im Steckschlüssel. Dies erlaubt ein Arbeiten auch an schwer zugänglichen Stellen.

Les deux billes se trouvant dans l'ouverture de notre NUT GRIP® (6 pans) pour bougies de préchauffement, maintiennent la bougie de déclenchement dans la douille. Ceci permet l'accès dans les endroits difficilement accessibles.

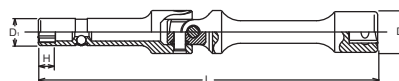


3342G-150 (mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pcs.)
8	3/8"	12	18	7.5	150	137	10

3342G-150



Deep length universal Glow Plug Socket
Extra langer Glühkerzen-Steckschlüssel mit Gelenk
Douilles articulées pour bougies de préchauffement, extra longue

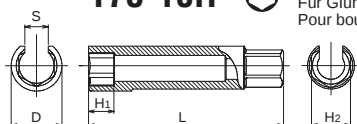


178-10H (mm)	D (mm)	H ₁ (mm)	H ₂ (mm)	S (mm)	L (mm)	(g)	(pcs.)
9	13	6.5	10	6.7	50	16	10

178-10H



For Glow Plugs
Für Glühkerzen
Pour bougies de préchauffement

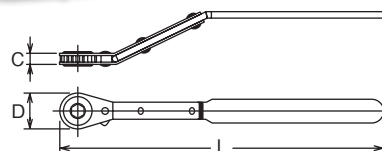


144KM (mm)	L (mm)	D ₁ (mm)	C (mm)	(g)	(pcs.)
8	200	22.7	7.5	95	1
12	200	22.7	7.5	102	1

144KM



For Glow Plugs
Für Glühkerzen
Pour bougies de préchauffement

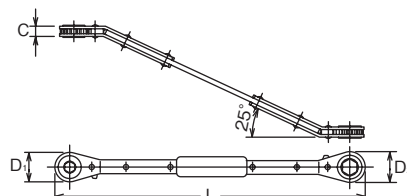


148KM (mm)	L (mm)	D ₁ (mm)	D ₂ (mm)	C (mm)	(g)	(pcs.)
8S×12	245	23.6	24.6	9	187	1

148KM



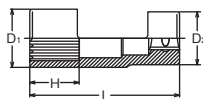
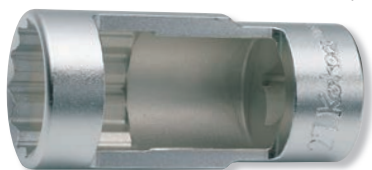
For Glow Plugs
Für Glühkerzen
Pour bougies de préchauffement



SP4305M-77



Socket for Diesel engine injectors
Steckschlüssel für Diesel-Einspritzdüsen
Douilles spéciales pour injecteurs



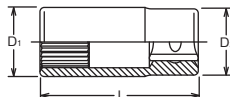
SP4305M-77 (mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pcs.)
27	1/2"	36.5	33	28	77	212	5

SP4305M.77-27

For fuel injection pump of BMW diesel cars.
Für die Einspritzpumpe von BMW-Dieselfahrzeugen.
Pour la pompe d'injection de carburant des voitures diesel BMW.

4133

Socket for Diesel engine injectors
Steckschlüssel für Diesel-Einspritzdüsen
Douilles spéciales pour injecteurs



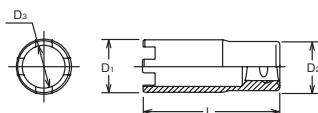
		D ₁ (mm)	D ₂ (mm)	L (mm)	(g)	(pcs.)
4133	1/2"	23.9	23	55	86	10

4133

For fuel injection pump of M.B. diesel cars.
Für die Einspritzpumpe von M.B. Dieselfahrzeugen.
Pour la pompe d'injection de carburant des voitures diesel M.B.

4122-72

Diesel Injection Holder Nut Socket
Steckschlüssel für Einspritzdüsen
Douilles pour injecteur diesel



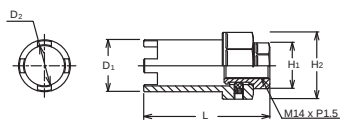
4122-72 (mm)		D ₁ (mm)	D ₂ (mm)	D ₃ (mm)	L (mm)	(g)	(pcs.)
22	1/2"	28.5	27	22	72	150	10

4122.72-22

For M.B. Trucks, Holder nut on injection post.
Für M.B. Trucks, Haltemutter an der Einspritzsäule.
Pour les camions M.B., l'écrou de fixation se trouve sur le poteau d'injection.

SP4122-69

Diesel Injection Holder Nut Socket
Steckschlüssel für Einspritzdüsen
Douilles pour injecteur diesel

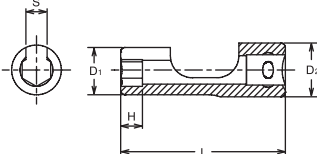
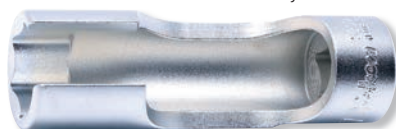


SP4122-69 (mm)	D ₁ (mm)	D ₂ (mm)	H ₁ (mm)	H ₂ (mm)	L (mm)	(g)	(pcs.)
22	28.4	22	22	32	69	185	5

3300FN



Flare Nut Sockets
Geschlitzte Steckschlüssel für Überwurfmuttern
Douilles à tuyauter



3300FN (mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	S (mm)	(g)	(pcs.)
8	3/8"	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
21		30	27.5	15	80	15.5	170	10
22		32	29.5	16	80	16	180	10
24		34.5	31.5	17	80	17	200	10

RS3300FN/8



Socket Set on Rail
Steckschlüsselsatz auf Schiene
Jeu de douilles sur rail



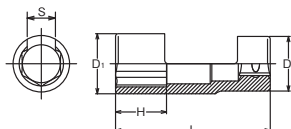
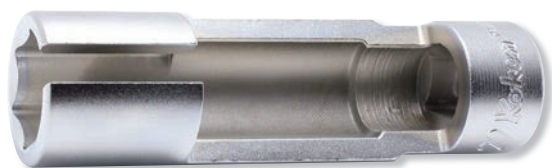
RS3300FN/8	8 Pieces Set/Rail 200mm	(g)
9, 10, 11, 13, 14, 16, 17, 19		600

SP4300M-85

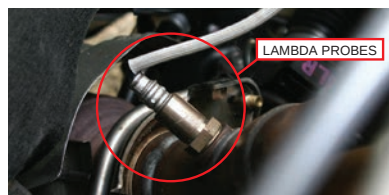


Special socket for Lambda Probes
Spezialsteckschlüssel für Lambda Sonden
Douilles spéciales pour sonde Lambda

SP4300M-110



		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	S (mm)	(g)	(pcs.)
SP4300M.85-22	1/2"	33	30	29	85	8	228	10
SP4300M.110-22		33	30	34	110	8	279	5



Socket for Lambda Probes

Open section allows for use with wire/connecter.

Steckschlüssel für Lambdasonden

Offener Abschnitt ermöglicht die Verwendung mit montiertem Draht/Stecker.

Prise pour sondes Lambda

La section ouverte permet l'utilisation d'un fil/connecteur.

4300H (mm)		D ₁ (mm)	D ₂ (mm)	H ₁ (mm)	H ₂ (mm)	H ₃ (mm)	L (mm)	(g)	(pcs.)
24	1/2"	32.5	27	17	40	24	57	157	10
26		35	27	19	40	24	57	170	10
27		36.1	27	19.5	40	24	57	175	10

4300H series

Removes and installs oil pressure switches
Demontage und Montage von Öldruckschaltern
Démonte et installe les interrupteurs de pression d'huile

4300H (mm)		D ₁ (mm)	D ₂ (mm)	H ₁ (mm)	H ₂ (mm)	L (mm)	(g)	(pcs.)
27(8P)	1/2"	34	27	14	37	57	152	10

4300H(8P) series

Socket for switches, Mercedes Benz and MAN
Steckschlüssel für Schalter, Mercedes Benz und MAN
Prise pour interrupteurs, Mercedes Benz et MAN

4010M-100 (mm)		D (mm)	H (mm)	L (mm)	(g)	(pcs.)
8(12P)	1/2"	23	63.5	100	132	10
10(12P)		23	63.5	100	135	10

4010M-120 (mm)		D (mm)	H (mm)	L (mm)	(g)	(pcs.)
8(12P)	1/2"	23	83.5	120	151	10
10(12P)		23	83.5	120	155	10



Cylinder head bolt for Toyota
4010M(12P) is double Hex Bit socket
XZN(Triple Square) bit socket has different shape.

Zylinderkopfschraube für Toyota
4010M(12P) ist ein Doppel-Sechskant Einsatz
Ein XZN (Triple Square) Bit hat eine andere Form.

Boulon de culasse pour Toyota
4010M(12P) est une douille double hexagonale.
La douille XZN (triple carré) a une empreinte différente.

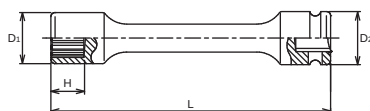
		D (mm)	H (mm)	L (mm)	(g)	(pcs.)
ST4027.140	1/2"	23	103.5	140	155	10



Head bolt Bit Socket for VW/AUDI
ST4027-140 can not substitute with any RIBE Socket.

Kopfschraube Bit-Einsatz für VW/AUDI
ST4027-140 kann nicht mit anderen RIBE-Einsätzen ersetzt werden.

Douille pour boulon à tête pour VW/AUDI
ST4027-140 ne peut être remplacé par aucune douille RIBE.



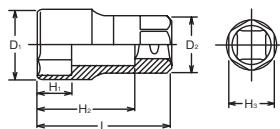
13145M-150 (12P) (mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pce.)	
10	3/8"	15.8	19	10	150	120	1	*1
12		18.3	19	12	150	128	1	*1

*1 C-Ring=C31, Pin/O-Ring=A31/B31 → P268-269

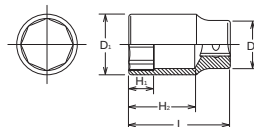
16305M (mm)		D ₁ (mm)	D ₂ (mm)	H ₁ (mm)	H ₂ (mm)	L (mm)	(g)	(pcs.)	
14	3/4"	26.3	44	14	74	100	500	2	*1
17		30	44	17	74	100	544	2	*1
19		32.5	44	19	74	100	655	2	*1
22		36.3	44	22	74	100	700	2	*1

*1 C-Ring=C61, Pin/O-Ring=A61/B61 → P268-269

4300H Oil Pressure Switch Sockets Steckschlüssel für Öldruckschalter Douilles pour interrupteur, pression d'huile

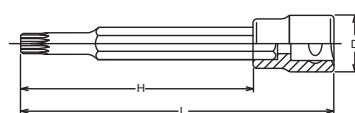


4300H (8P) 8-point Sockets 8-kant Steckschlüssel Douilles 8-pans

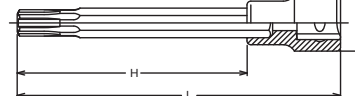


4010M-100 / -120 (12P)

 Bit Sockets for Double Inhex Screws (12-point)
Steckschlüssel für Innenzwölfkant-Schrauben
Douilles double hexagonale



ST4027-140 Head Bolt Bit Socket for VW/AUDI Bit Steckschlüssel für Zylinderkopfschrauben VW/AUDI Douilles tournevis spéciales pour boulons de culasse VW/AUDI

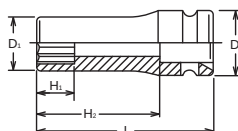


13145M-150 / -200 (12P) Extra Long Sockets Schaftsteckschlüssel Douilles 12-pans, série allongée

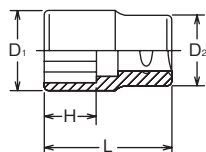


13145M-200 (12P) (mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pce.)	
10	3/8"	15.8	19	10	200	151	1	*1
12		18.3	19	12	200	159	1	*1

16305M 12-point Sockets, deep 12-kant Steckschlüssel, lang Douilles longues, 12-pans



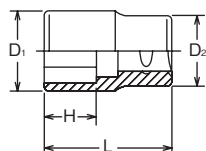
4109M Double 4-point Sockets Doppelvierkant Steckschlüssel Douilles double 4-pans



4109M (mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pcs.)
14		26.8	26	11	38	110	10
17		30	28	12.5	40	140	10
19		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
Für Schmierdienstleistungen
Pour le service d lubrification

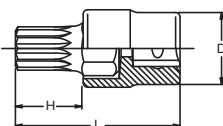
4111M 6-point Sockets 6-kant Steckschlüssel Douilles 6-pans



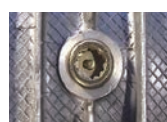
4111M (mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pcs.)
24		32	30	17	40	133	10

4111M
For Lubrication service
Für Schmierdienstleistungen
Pour le service d lubrification

4020-60 (MH) Bit Socket for Triple Square with hole Steckschlüssel für XZN-Schrauben mit Loch Douilles tournevis avec trou pour empreinte XZN

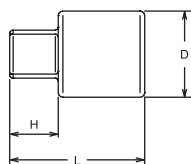


4020-60 (XZN)		D (mm)	H (mm)	L (mm)	(g)	(pcs.)
MH16		24	20	60	135	10



4020-60-MH16
Specially designed for oil drain plug on gearbox of AUDI, VW, PORSCHE.
Speziell entwickelt für Ölablassschrauben am Getrieben von AUDI, VW, PORSCHE
Spécialement conçu pour le bouchon de vidange d'huile sur la boîte de vitesses des véhicules AUDI, VW et PORSCHE.

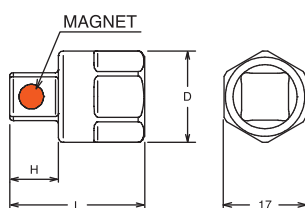
3110M / 3110A 4-point Male Sockets Öldienst-Steckschlüssel Douilles mâles 4-pans



3110M (mm)		D (mm)	H (mm)	L (mm)	(g)	(pcs.)
6		18	10	28	30	10
8		18	10	28	30	10
10		18	10	28	33	10
12		18	10	28	37	10

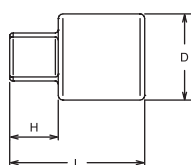
3110A (inch)		D (mm)	H (mm)	L (mm)	(g)	(pcs.)
5/16		18	10	28	30	10
3/8		18	10	28	33	10
1/2		18	10	28	37	10

3110MGH 4-point Male Sockets Öldienst-Steckschlüssel Douilles mâles 4-pans



3110MGH (mm)		D (mm)	H (mm)	L (mm)	(g)	(pcs.)
8		19	10	28	31	10
10		19	10	28	33	10

4110M / 4110A 4-point Male Sockets Öldienst-Steckschlüssel, Vierkant Douilles mâles 4-pans



4110M (mm)		D (mm)	H (mm)	L (mm)	(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
14		24.2	10	32	68	10
19		25	15	37	101	10
20		26	15	37	114	10

4110A (inch)		D (mm)	H (mm)	L (mm)	(g)	(pcs.)
3/8		24	10	32	62	10
1/2		24	10	32	64	10

158 For Lubrication Service
Schmierdienst-Werkzeuge
Service lubrification-vidange

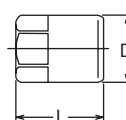


158 (mm)	L ₁ (mm)	L ₂ (mm)	d (mm)	(g)	(pcs.)
8S×10S	63	230	13	319	1



3012M-25 (mm)		D (mm)	L (mm)	(g)	(pcs.)
14	3/8"	19	25	30	10
17	3/8"	19	25	30	10

3012M-25 Inhex Sockets
Steckschlüssel für Innensechskant-Schrauben
Douilles tournevis pour vis 6-pans creux



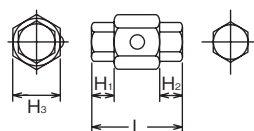
4202	7 Pieces Set/△=426g
METAL CASE: W190×H59×T45mm	
Sockets	
	106 Drain Plug Keys 8S×10S, 8H×3/8H, 10H×11H, 12H×13H, 14H×17H, 19H
	4102 Drain Plug Key Adaptor

4202 Drain Plug Keys Set
Öldienst-Satz
Jeu d'embouts pour le montage et démontage des bouchons de vidange



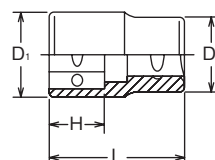
106 (mm)	H ₁ (mm)	H ₂ (mm)	H ₃ (mm)	L (mm)	(g)	(pcs.)
8S×10S	8	8	17	32	40	10
8H×3/8H	8	8	17	32	38	10
10H×11H	8	8	17	32	42	10
12H×13H	8	8	17	32	47	10
14H×17H	8	8	17	32	55	10
19H	-	8	17	24	49	10

106 4-point / 6-point Male bits
Innenvierkant / Innensechskantsteckschlüssel
Emboutis mâles 4-pans / 6-pans



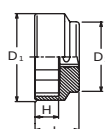
4102 (mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pcs.)
17	1/2"	25	24	16	40	82	10

4102 Adaptor for 106 Drain plug key
Halter für Öldienst-Einsätze 106
Porte embouts pour 106



3400M-24 (mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pcs.)
27	3/8"	36.5	21.5	13.5	24	76	10
30	3/8"	40	25	13.5	24	91	10
32	3/8"	42.8	28	13.5	24	108	10
36	3/8"	47.2	32	13.5	24	135	10

3400M-24 Extra short 6-point Sockets for Oil-Filter Service
Extra kurze Steckschlüssel für Ölfilter
Douilles extra courtes pour filtre à huile



1206



Push and Pull-Ratchet
Hub Knarre
Clé à cliquet de levage



1206 3 Pieces Set/△=320g

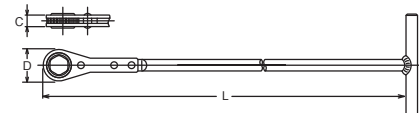
CARDBOARD BOX

Sockets	Accessory
150.14H Sockets 12, 14	154K-14

154K



Push and Pull-Ratchets
Hub Knarre
Clé à cliquet de levage

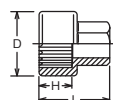


154K (mm)	L (mm)	D (mm)	C (mm)	△ (g)	(pce.)
14	480	24.6	9	280	1

150-14H



Socket, For 154K
Einsätze für 154K
Douilles pour 154K



150-14H (mm)	D (mm)	H (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

1210E

Door Hinge Wrench Set
Montagesatz für Kfz-Türscharniere
Jeu d'outils spéciaux pour charnières de portes



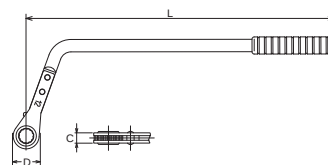
1210E 11 Pieces Set/△=460g

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	

145KD

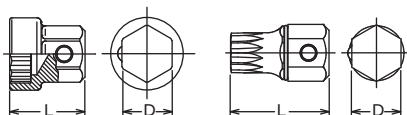
Special ratchet for 179B-12H insert bits
Spezialknarre zur Aufnahme von 179B-12H Einsatzbits
Cliquet spécial pour recevoir les embouts d'insertion 179B-12H



145KD	D (mm)	C (mm)	L (mm)	△ (g)	(pce.)
12	24	9	280	274	1

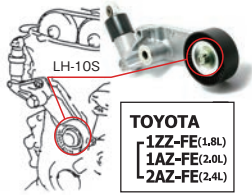
179B-12H

Insert bit for the 145KD ratchet
Einsatz-Bit für die Knarre 145KD
Embout d'insertion pour cliquet 145KD



179B.12H	Type	D (mm)	L (mm)	 (g)	 (pce.)
10		12	18	15	10
12		18	17	10	
13		12	18	18	10
7H		12	24	17	10
8H		12	24	18	10
M6		12	24	14	10
M8		12	24	15	10
M10		12	24	17	10
M12		12	24	20	10
T40		12	24	14	10
T45		12	24	15	10
T50		12	24	16	10

145LH3/8F (LH-S)		L (mm)	D (mm)	C (mm)	(g)	(pcs.)
10S	3/8"	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.

⚠ This item has less strength due to the special design.
Dieser Artikel hat aufgrund seines speziellen Designs eine geringere Kraft.
Cet article est moins résistant en raison de sa conception spéciale.

4282 4 Pieces Set/△=449g
PLASTIC BAG

Sockets	
1/2"	4020.100-M10 4020.140-M10
1/2"	4025.100R-T50
185	



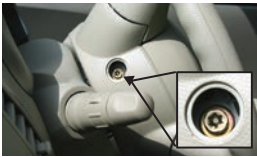
Generator Service Set
For removing and installing belt pulley at the generator.

Generator-Service-Set
Zum Aus- und Einbau der Riemenscheibe am Generator.

Kit d'entretien du générateur
Pour enlever et installer la poulie de la courroie sur le générateur.

3247 4 Pieces Set/△=385g
PLASTIC BAG

Sockets	
3/8"	3025.160 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.

Für Airbag-Einheiten an schwer zugänglichen Stellen im oder um das Lenkrad.

Pour l'unité airbag dans les endroits difficiles d'accès à l'intérieur ou autour du volant.

3300M/4-L120 4 Pieces Set/△=477g
PLASTIC BAG

Sockets	
3/8"	3300M(L120) 6-pt. Extra Deep Sockets 8, 10, 12, 14

Extra Deep Socket
Extra Deep socket can be used to fasten or loosen longer bolts such as Bumper bolt and Door Hinge etc.

Die extra tiefe Stecknuss kann zum Befestigen oder Lösen von längeren Schrauben wie Stoßstangenbolzen und Türscharnieren usw. verwendet werden.

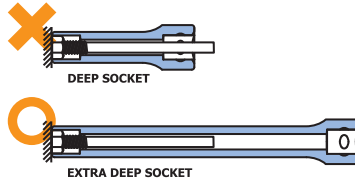
La douille extra profonde peut être utilisée pour fixer ou desserrer des boulons plus longs tels que les boulons de pare-chocs et les charnières de porte, etc.



BUMPER BOLT



DOOR HINGE

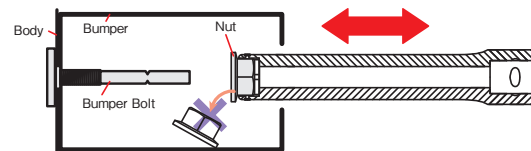


EXTRA DEEP SOCKET

3350M/2-L120 2 Pieces Set/△=230g
PLASTIC BAG

Sockets	
3/8"	3350M(L120) Nut Grip Extra Deep Sockets 10, 12

Nut Grip Extra Deep Socket

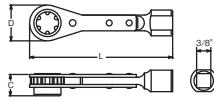


NUT GRIP®

145LH3/8F



Belt Tension Pulley Wrench
Knarren-Ringschlüssel für Riemen-Spannrolle
Clé multicrân à cliquet pour galet-tendeur



4282

1/2" Sq.Dr. Generator Service Set
1/2" Lichtmaschinen-Service Satz
Jeu 1/2" pour l'entretien des générateurs électriques



3247



Bit Socket Set
Schraubendreher-Steckschlüssel Satz
Jeu de douilles de vissage



Tamper resistant TORX® Bits have less strength due to special design.
Make sure to use it correctly.

Die manipulationssicheren TORX®-Bits haben aufgrund ihres speziellen Designs eine geringere Festigkeit. Achten Sie darauf, sie richtig zu verwenden.

Les embouts TORX®, à l'abri de manipulations, sont moins résistants en raison de leur conception spéciale. Veuillez les utiliser correctement.

3300M/4-L120



Socket Set
Steckschlüssel Satz
Jeu de clés à douille



3350M/2-L120



Socket Set
Steckschlüssel Satz
Jeu de clés à douille

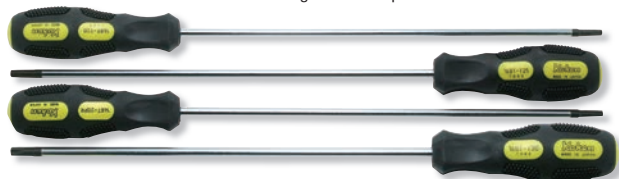


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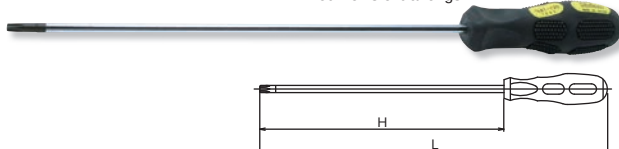
1212

Long shank Screwdriver 4 pieces set
Extra lange Schraubendreher 4teiliger Satz
Tournevis longs. Jeu de 4 pièces



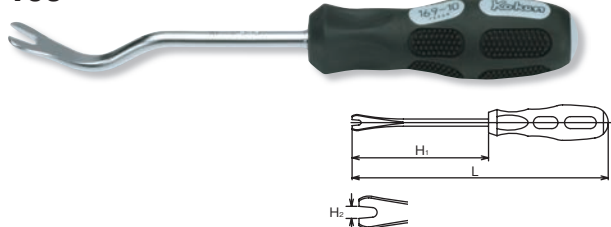
168T (250)

Extra long shank Screwdrivers
Extra lange Schraubendreher
Tournevis extra longs



169/2

Door Trim Pad Tool, 2 pieces set
Demontagehebel für Türclips, Satz 2-teilig
Jeu, levier pour le démontage des garnitures de portes



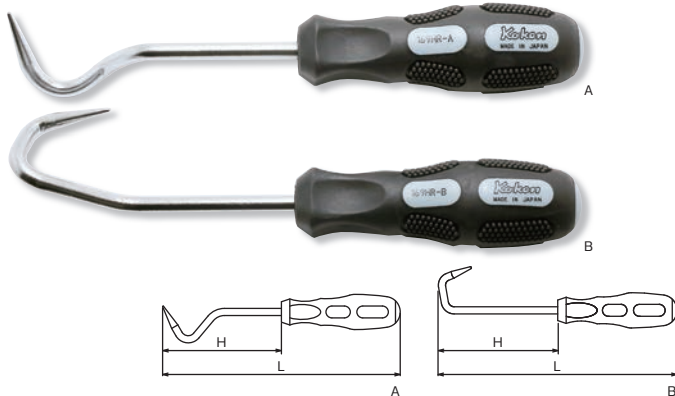
169WM

Window Molding Remover
Zum Lösen von Fenstergummis
Pour le démontage des joints de vitres



169HR/2

Hose Remover, 2 pieces set
Universalhaken, 2teiliger Satz
Pour le démontage des tuyaux. Jeu de 2 pièces



169BP

For Battery Screws
Für Batterie-Verschlussstopfen
Pour vis de batterie



1212

4 Pieces Set/⚖️=380g

PLASTIC BAG

Screwdrivers

- 168T(250)
20IPR
- 168T(250)
T20, T25, T30



Long shank Screwdriver

Schraubendreher mit langem Schaft

Tournevis à tige longue

168T(250) (IPR)	H (mm)	L (mm)	(g)	(pcs.)
20IPR	250	350	85	1
168T(250) (T)	H (mm)	L (mm)	(g)	(pcs.)
T20	250	350	85	1
T25	250	350	85	1
T30	250	360	120	1

169/2

2 Pieces Set/⚖️=200g

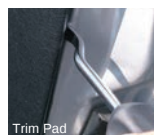
PLASTIC BAG

Clip Handles

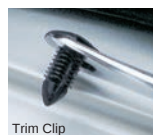
169

6, 10

169	H ₁ (mm)	H ₂ (mm)	L (mm)	(g)	(pcs.)
6	115	5	215	80	2
10	120	9	230	110	2



Trim Pad



Trim Clip

Handle for Door trim pads

Handgriff für Türverkleidungen

Poignée pour garnitures de porte

169WM	H (mm)	L (mm)	(g)	(pcs.)
169WM	100	210	90	2



Window molding remover

Fensterleistenentferner

Découpeur des joints fenêtres

169HR/2

2 Pieces Set/⚖️=180g

PLASTIC BAG

Hose Remover

169HR

A, B

169HR	H (mm)	L (mm)	(g)	(pcs.)
A	100	200	75	2
B	100	200	90	2



Hose remover

Schlauchentferner

Démonte-tuyau

169BP	T×W (mm)	H (mm)	L (mm)	(g)	(pcs.)
1.8×13	1.8×13	50	150	60	2



For Battery screw



Quick fastener

Schnellverschluss

Attache rapide

4425 (E)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pcs.)
E10N	1/2"	13.2	21	8.2	36	47	10
E12N		14.6	21	9.3	37	48	10
E14N		16.5	21	10.6	37	50	10
E16N		19	22	11.8	37	60	10
E18N		20.3	22	13	37	60	10
E20N		22.8	22	14.4	37	65	10

RS4425/6-N	6 Pieces Set/Rail 200mm	(g)
E10N, E12N, E14N, E16N, E18N, E20N		370



Engine type: QR/MR
Flywheel bolt for NISSAN: E20
Motortyp: QR/MR
Schwungradschraube für NISSAN: E20
Type de moteur : QR/MR
Vis de volant moteur pour NISSAN: E20

13145A.150 (inch)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pcs.)
9/16(D20)	3/8"	20	19	13	150	130	5

*1 C-Ring=C31, Pin/O-Ring=A31/B31 → P268-269

14145A.150 (inch)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pcs.)
9/16(D20)	1/2"	20	25	13	150	200	5

*1 C-Ring=C41, Pin/O-Ring=A41/B41 → P268-269

For Land Rover Prop Shaft

		D ₁ (mm)	D ₂ (mm)	L (mm)	(g)	(pcs.)
13772-B	3/8"	22	19	75	120	5
13772-P		22	19	75	120	5
14772-B	1/2"	27	25	90	230	1
14772-P		27	25	90	230	1

*1 C-Ring=C31, Pin/O-Ring=A31/B31

*2 C-Ring=C41, Pin/O-Ring=A41/B41



⚠ 13772 and 14772 have less load capacity than standard, In the interest of your safety always use properly.

Die Doppelgelenke 13772 und 14772 haben eine geringere Belastbarkeit als das Standardgelenk. Im Interesse Ihrer Sicherheit sollten Sie sie immer richtig verwenden.

Les doubles articulations 13772 et 14772 ont une capacité de charge inférieure à celle de l'articulation standard.

Dans l'intérêt de votre sécurité, veuillez les utiliser correctement.

14305M (mm)		D ₁ (mm)	D ₂ (mm)	H ₁ (mm)	H ₂ (mm)	L (mm)	(g)	(pcs.)
30	1/2"	42	30	30	63	85	457	10
32		44.5	30	32	63	85	542	10
36		49.5	30	36	61	85	635	2

*2 C-Ring=C42, Pin/O-Ring=A42/B42 → P268-269



4101		T×W (mm)	D (mm)	L (mm)	(g)	(pcs.)
1	1/2"	2.7×18.6	22	40	59	10
2		3.7×24	24	40	79	10
3		3.7×30	30	40	128	10

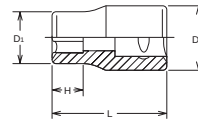
6101		T×W (mm)	D (mm)	L (mm)	(g)	(pcs.)
6101	3/4"	6.4×33.5	35	50	205	5

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4425-N



TORX® Sockets
TORX® Steckschlüssel
Douilles TORX®



RS4425/6-N



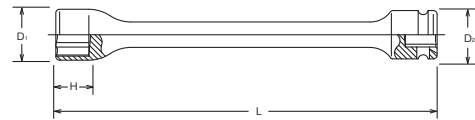
Socket Set on Rail
Steckschlüsselsatz auf Schiene
Jeu de douilles sur rail



13145A-150 14145A-150

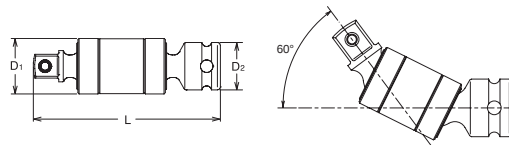


Extra Long Socket
Schaftsteckschlüssel
Douilles, série allongée



13772 14772

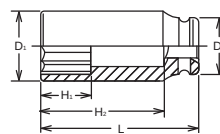
Universal Double Joint
Doppelgelenk-Einsatz
Joint articulé double



14305M



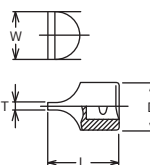
12-point Deep Sockets
12-kant Steckschlüssel,lang
Douilles longues 12-pans



4101 6101

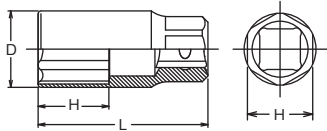


Sockets for Slotted Heads
Steckschlüssel für Schlitzschrauben
Douilles tournevis pour vis à fente



Z-SERIES
HAND
TITANIUM
SCREWDRIVERS
ACCESSORIES
IMPACT
SLEEVE-DRIVE
PROTECTOR
INDUSTRIAL
AUTOMOTIVE
MOTORCYCLE
CONSTRUCTION
SPARE PART

4300M (L60) Wheel Nut Sockets
Radmuttern Steckschlüssel
Douilles pour écrous de roue



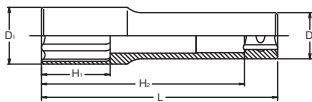
4300M(L60) (mm)		D (mm)	H (mm)	L (mm)	H (mm)	 (g)	 (pcs.)
17		23.8	25	60	21	98	10
19		25.8	25	60	21	100	10
21		27.6	25	60	21	102	10



Wheel Nut Sockets

 Please note that thin walled design is only for wheel nut work and Torque rating is limited.
Bitte beachten Sie, dass die dünnwandige Ausführung nur für Radmuttern geeignet ist und das Anzugsmoment begrenzt ist.
Veuillez noter que la conception à paroi mince est uniquement destinée au serrage des écrous de roue et que le couple nominal est limité.

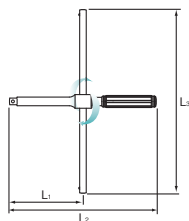
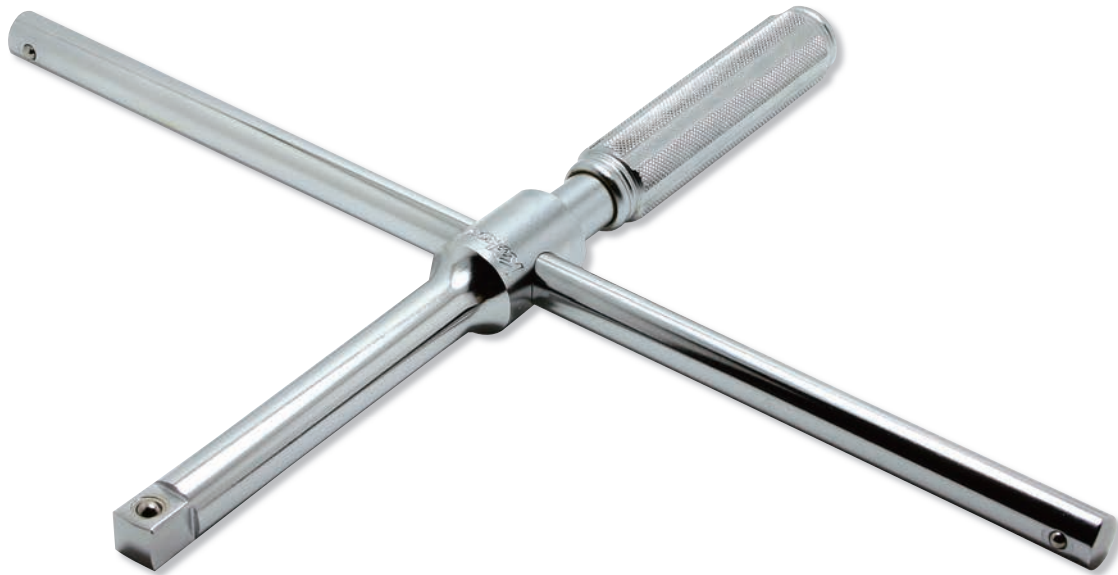
4300M (L110) Wheel Nut Sockets (Long)
Radmuttern-Steckschlüssel, extra lang
Douilles extra longues pour écrous de roue



4300M(L110) (mm)		D1 (mm)	D2 (mm)	H1 (mm)	H2 (mm)	L (mm)	 (g)	 (pcs.)
17		23.8	22	32	93	110	155	5
19		25.8	22	32	93	110	170	5
21		27.6	22	32	93	110	165	5
22		29.1	22	32	93	110	165	5

 Please note that thin walled design is only for wheel nut work and Torque rating is limited.
Bitte beachten Sie, dass die dünnwandige Ausführung nur für Radmuttern geeignet ist und das Anzugsmoment begrenzt ist.
Veuillez noter que la conception à paroi mince est uniquement destinée au serrage des écrous de roue et que le couple nominal est limité.

4711X Spinning cross wrench
T-Griff für die Radmuttermontage
Poignée coulissante pour montage des écrous de roue



		L1 (mm)	L2 (mm)	L3 (mm)	 (g)	 (pce.)
4711X		140	280	350	945	1

14201M 3 Pieces Set/△=690g
CARDBOARD BOX:W125×H95×T34mm

Sockets
14145PM.110 Impact Wheel Nut Sockets
17, 19, 21

14145PM-110 (mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	Shaft Colour	(g)	(pcs.)	
17		23.8	25.2	21	Blue	208	5	*1
19		25.8	27.2	23	Red	219	5	*1
21		27.6	29	25	Yellow	226	5	*1
22		29	30.5	26	White	238	5	*1

*1 C-Ring=C41, Pin/O-Ring=A41/B41 → P268-269



PLASTIC PROTECTOR KUNSTSTOFF HÜLSE PROTECTION EN PLASTIQUE

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.

Zum Schutz empfindlicher Leichtmetallfelgen ist eine drehbare und abnehmbare Kunststoff Hülse an dem Steckschlüssel montiert. Die aufgedruckten Markierungen am Werkzeugschaft zeigen außerdem ob das Werkzeug steht oder rotiert.

La douille est pourvue d'un insert en plastique détachable. Il sert à prévenir tout dommage aux jantes lors de l'utilisation des douilles.

Le marquage sur la tige rend l'identification des douilles très facile.

198-17 : Spare Plastic Protector for 14145PM.110-17 : 10 pcs.

198-19 : Spare Plastic Protector for 14145PM.110-19 : 10 pcs.
280PM-19

198-21 : Spare Plastic Protector for 14145PM.110-21 : 10 pcs.
280PM-21

198-22 : Spare Plastic Protector for 14145PM.110-22 : 10 pcs.

⚠ Please note that thin walled design is only for wheel nut work and Torque rating is limited.

Bitte beachten Sie, dass die dünnwandige Ausführung nur für Radmutter geeignet ist und dass das Drehmoment begrenzt ist.

Veuillez noter que la conception à paroi mince est uniquement destinée au serrage des écrous de roue et que le couple nominal est limité.

14145M-110 (mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	(g)	(pcs.)
17MB	1/2"	25.7	27.2	11.5	256	5



Mercedes Benz Wheel Bolt
Mercedes Benz Radbolzen
Boulon de roue Mercedes Benz

P14145M/5 5 Pieces Set/△=1530g

PLASTIC CASE:W230×H200×T70mm

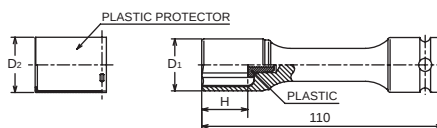
Sockets
14145PM.110 Impact Wheel Nut Socket 17, 19, 21, 22
14145M.110 Impact Wheel Bolt Socket 17MB



14201M

14145PM-110

Wheel Nut Sockets Set
Radmutter Steckschlüssel im Satz
Douilles pour écrous de roue
Wheel Nut Sockets
Radmutter Steckschlüssel
Douilles pour écrous de roue



EXTRA THIN WALL EXTRA DÜNNWANDIG PAROIS EXTRA MINCES

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.

Speziell entwickelt für die Montage von Radmuttern

- Die Länge von 110mm erlaubt es mit diesem Steckschlüssel auch extra tiefe Radmutter zu erreichen.

- Dieser Steckschlüssel ist ideal für Radmutter von Aluminiumfelgen, da gerade dort der Platz zwischen Schraube und Felge äußerst gering ist.

- Durch die farbige Markierung; blau(17mm), Rot(19mm), Gelb(21mm) und Weiß(22mm) wird die Erkennung des passenden Werkzeugs erleichtert.

- Der Plastikeinsatz schützt die Radmutter vor Beschädigungen.

Douilles spécialement conçues pour les écrous de roue :

- La longueur de 110mm permet d'atteindre les écrous enfoncés profondément.

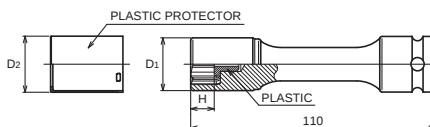
- Idéales pour les écrous des jantes en aluminium où le passage est souvent étroit

- Les corps de couleurs différentes facilitent l'identification : bleu (17mm), rouge (19mm), jaune (21mm) et blanc (22mm)

- Les inserts en plastique évitent de détériorer les jantes.

14145M-110MB

Mercedes Benz Wheel Bolt
Mercedes Benz Radbolzen
Boulon de roue Mercedes Benz



P14145M/5



5 pieces Wheel Nut Sockets Set in Plastic case
Radmutter-Steckschlüssel-Satz 5teilig im Kunststoffkoffer
Jeu de 5 douilles pour écrous de roue dans un coffret en plastique

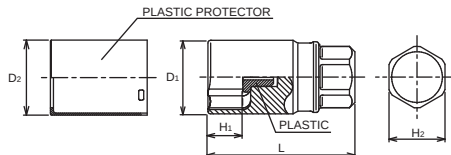


280PM

Adaptor Socket for Low Profile Wheel Nut
Adapter Steckschlüssel für kurze Radmutter
Adaptateur pour des écrous de roue courtes



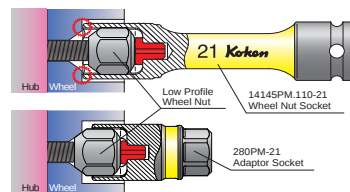
ADAPTOR SOCKET



Designed for Low Profile Wheel nut socket.
Detachable plastic protector is fitted to the adaptor to prevent damage to painted or surface treatment area on the wheel.
The Plastic insert locate inside of the adaptor prevents damage to wheel nut.
Colour coded band make size identification easy.

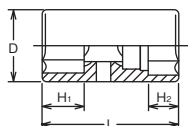
Die abnehmbare Kunststoffhülse schützt die Felge vor Kratzern oder Schrammen an der empfindlichen Oberfläche.
Der Kunststoffanschlag im inneren des Werkzeugs schützt zusätzlich die Radmutter.
Die Farbmarkierung macht die Identifikation des Werkzeugs einfach.

La protection plastifiée amovible protège la jante et évite des endommagements sur des surfaces délicates.
Le plastic inséré à l'intérieur de l'outil protège également l'écrou de roue.
L'identification de l'outil est simplifiée par le marquage en couleur.



14118M

Wheel Nut Sockets, Double Ended
Radmutter Steckschlüssel, doppelseitig
Douilles pour écrous de roue à double ouverture



14218M

Wheel Nut Sockets, Double Ended with Extension Bar
Radmutter Steckschlüssel, doppelseitig, mit Verlängerung
Douilles pour écrous de roue à double ouverture, avec rallonge



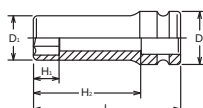
14219M

Special wheel nut loosening tool, set of 3
Spezial Radmutter Lösewerkzeug, Satz 3teilig
Outil spécial de desserrage d'écrous de roue, jeu de 3



AN14300

Impact Sockets, Aluminium alloyed, for aluminium wheel nuts
Aluminium-legierte Impact Steckschlüssel für Aluminium Radmutter
Douilles Impact en aluminium pour écrous de roue aluminium



280PM (mm)	D ₁ (mm)	D ₂ (mm)	H ₁ (mm)	H ₂ (mm)	L (mm)	Shaft Colour	(g)	(pcs.)
19	25.8	27.2	13	19	52	Red	150	5
21	27.6	29	13	21	55	Yellow	180	5

Designed for Low Profile Wheel nut socket.
Detachable plastic protector is fitted to the adaptor to prevent damage to painted or surface treatment area on the wheel.
The Plastic insert locate inside of the adaptor prevents damage to wheel nut.
Colour coded band make size identification easy.

Die abnehmbare Kunststoffhülse schützt die Felge vor Kratzern oder Schrammen an der empfindlichen Oberfläche.
Der Kunststoffanschlag im inneren des Werkzeugs schützt zusätzlich die Radmutter.
Die Farbmarkierung macht die Identifikation des Werkzeugs einfach.

La protection plastifiée amovible protège la jante et évite des endommagements sur des surfaces délicates.
Le plastic inséré à l'intérieur de l'outil protège également l'écrou de roue.
L'identification de l'outil est simplifiée par le marquage en couleur.

14118M (mm)		D (mm)	H ₁ (mm)	H ₂ (mm)	L (mm)	(g)	(pcs.)
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

14218M 2 Pieces Set/△=360g

CARDBOARD BOX

Sockets	Accessory
1/2" 14118PM 19×21	14760ST-B

Interchangeable Wheel Nut Socket of 19mm and 21mm.

Warning: Please note that thin walled design is only for wheel nut work and that Torque rating is limited.

The socket is not completely locked with the balltype connection.
Please beware of accidental socket release.

Bitte beachten Sie, dass die dünnwandige Ausführung nur für Radmutter geeignet ist und dass das Drehmoment begrenzt ist.
Die Stecknuss ist mit der Kugelverbindung nicht vollständig arretiert.
Bitte achten Sie darauf, dass sich die Stecknuss nicht versehentlich löst.

Veuillez noter que la conception à paroi mince est uniquement destinée au serrage des écrous de roue et que le couple nominal est limité.
La douille n'est pas complètement verrouillée avec la connexion à rotule.
Veuillez à ce que la douille ne se détache pas accidentellement.

14219M 3 Pieces Set/△=620g

CARDBOARD BOX

Sockets	Accessory
14118M 18.5×19.5SV, 20.5×21.5SV	14760-100B

Warning: For loosening the chrome-plated or deformed original wheel nut from FORD, GM and Chrysler. The chrome-plated cover of the wheel nut can become deformed when trying to loosen it, so that a 19 mm loosening spanner can no longer be fitted and removed accurately. The 18.5 and 19.5 mm release tool can be applied to chipped chrome covers and damaged cap nuts in such a way that the damaged wheel nut can be safely released. The 1/2" impact extension enables the use of an impact wrench.

Zum Lösen der verchromten oder deformierten Original-Radmutter von FORD, GM und Chrysler. Der verchromte Deckel der Radmutter kann sich beim Lösen verformen, so dass ein 19-mm-Löseschlüssel nicht mehr exakt angesetzt und entfernt werden kann. Das 18.5- und 19.5-mm-Lösewerkzeug kann bei abgeplatzten Chromabdeckungen und beschädigten Hutmuttern so angesetzt werden, dass die beschädigte Radmutter sicher gelöst werden kann. Die 1/2"-Schlagverlängerung ermöglicht die Verwendung eines Schlagschraubers.

Pour desserrer l'écrou de roue d'origine chromé ou déformé de FORD, GM et Chrysler. Le couvercle chromé de l'écrou de roue peut se déformer lorsqu'on essaie de le desserrer, de sorte qu'une clé de 19 mm ne peut plus être montée et retirée avec précision. L'outil de déblocage de 18.5 et 19.5 mm peut être appliqué aux couvercles chromés ébréchés et aux écrous borgnes endommagés de manière à ce que l'écrou de roue endommagé puisse être débloqué en toute sécurité. La rallonge à percussion 1/2" permet d'utiliser une clé à percussion.

AN14300 (mm)		D ₁ (mm)	D ₂ (mm)	H ₁ (mm)	H ₂ (mm)	L (mm)	(g)	(pcs.)	
17		25.7	30	17	62	80	85	10	*1
19	1/2"	28.2	30	19	61	80	89	10	*1
21		30.7	30	21	61	80	93	10	*1

*1 C-Ring=C42, Pin/O-Ring=A42/B42 → P268-269

14113J (mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pcs.)	
17	1/2"	25.7	30	14	80	251	10	*1
19		28.2	30	16	80	286	10	*1
21		30.7	30	20	80	309	10	*1

*1 C-Ring=C42, Pin/O-Ring=A42/B42 → P268-269

14113M (mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pcs.)	
17	1/2"	25.7	30	34	80	230	10	*1
19		28.2	30	38	80	262	10	*1
21		30.7	30	42	80	285	10	*1

*1 C-Ring=C42, Pin/O-Ring=A42/B42 → P268-269

14124 (mm)		D ₁ (mm)	D ₂ (mm)	H ₁ (mm)	H ₂ (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

14124/3		3 Pieces Set/△△=580g	
CARDBOARD BOX:W125×H91×T43mm			
Sockets		Accessory	
	14124		14760-75B
	21×24.5		
	26×27.5		



14124 (mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pcs.)	
17	1/2"	20.5	25	15	50	83	10	*1
18		21	25	15	50	83	10	*1
18.5		23	25	15	50	95	10	*1
19		25	30	20.5	50	140	10	*2
21		28	30	20.5	50	153	10	*2
24.5		29.5	30	23	50	138	10	*2
26		31.5	30	23	50	147	10	*2
27.5		35	30	23	50	181	10	*2

*1 C-Ring=C41, Pin/O-Ring=A41/B41

*2 C-Ring=C42, Pin/O-Ring=A42/B42

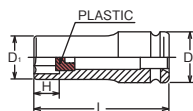
→ P268-269

RS14124/7	7 Pieces Set/Rail 250mm	 (g)
18, 18.5, 19, 21, 24.5, 26, 27.5		980

14113J



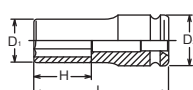
Impact Sockets with Plastic Stops for Hub Cap Screws
Impact Steckschlüssel mit Plastik-Anschlag für Zier-Radmuttern
Douilles Impact avec arrêt en plastique pour écrous de roue décoratifs



14113M



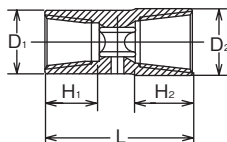
For Hub Cap Screws
Für Zier-Radmuttern
Pour écrous de roue décoratifs



14124



Lock Nut Busters (Double Ended)
Felgenschloss-Knacker, doppelseitig
Douilles taraudées à ouvertures doubles pour dévisser les écrous ou goujons de roue antivol.



14124/3



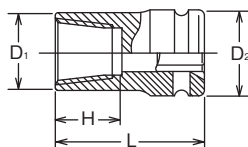
Lock Nut Busters (Double Ended) in Set
Felgenschloss-Knacker, doppelseitig im Satz
Jeu de douilles taraudées à ouvertures doubles pour dévisser les écrous ou goujons de roue antivol.



14124



Lock Nut Busters
Felgenschloss-Knacker
Douilles taraudées pour dévisser les écrous ou goujons de roue antivol.



RS14124/7

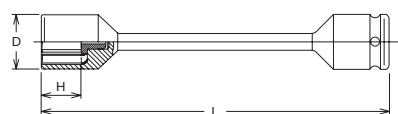
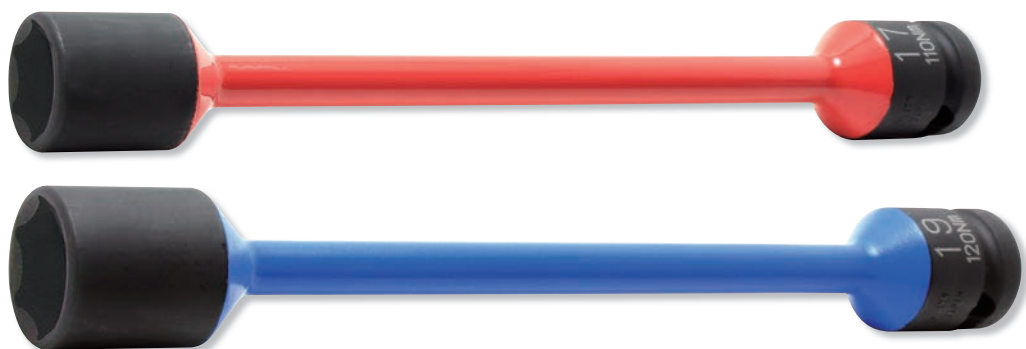


Socket Set on Rail
Steckschlüsselsatz auf Schiene
Jeu de douilles sur rail



Z-SERIES
HAND
TITANIUM
SCREWDRIVERS
ACCESSORIES
IMPACT
SLEEVE-DRIVE
PROTECTOR
INDUSTRIAL
AUTOMOTIVE
MOTORCYCLE
CONSTRUCTION
SPARE PART

14101MP Torsion Bars (for tightening only)
Torsionsstäbe (nur zum Anziehen)
Barres de torsion (pour serrage seulement)



 As the torque could vary with the type and the condition of the impact wrench, we strongly recommend the control with a torque wrench.

Da die Drehmomentwerte von Art und Leistung des verwendeten Schlagschraubers abhängen, empfehlen wir die Kontrolle der Kombination Schlagschrauber/Torsionsstab mittels eines Drehmomentschlüssels.

Etant donné que le couple peut varier selon modèle, la capacité ou l'état de la clé à choc, le contrôle de la combinaison clé à choc/barre par clé dynamométrique est indispensable.

14101MP (mm×Nm)		D (mm)	H (mm)	L (mm)	Shaft Colour	 (pcs.)	
17× 95Nm		25	16	214		10	*1
17×110Nm		25	16	204		10	*1
17×120Nm		25	16	203		10	*1
19× 90Nm		27	18	259		10	*1
19×100Nm		27	18	233		10	*1
19×120Nm		27	18	204		10	*1
19×140Nm		27	18	199		10	*1
21×100Nm		29	22	216		10	*1
21×120Nm		29	22	205		10	*1
22×150Nm		30	22	220		10	*1

*1 C-Ring=C41, Pin/O-Ring=A41/B41  P268-269

14101MP-M/8 Metal-Wall-Hanger for Workshops
Werkstatt-Wandhänger (Metall)
Support métallique d'atelier



14101MP-M/8 8 Pieces Set/△=2,300g

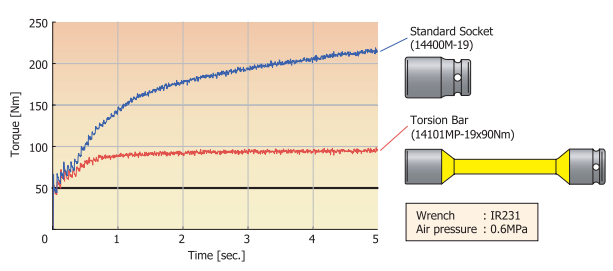
HANGER

Torsion Bar

 14101MP Impact Torsion Bars
17×95Nm, 17×110Nm, 17×120Nm,
19×90Nm, 19×100Nm, 19×120Nm, 19×140Nm, 21×100Nm

Torque table included in delivery.
Drehmomenttabelle wird mitgeliefert.
Tableau des couples de serrage inclus dans la livraison.

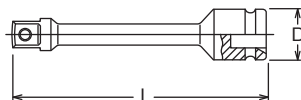
- Torsion Bars**
- Designed for tightening wheel nuts with an impact wrench.
 - Prevent the excessive torque road.
 - Colour coded shafts make size identification easy.
- Torsionsstäbe**
- Zur Montage von Radmuttern mit dem Schlagschrauber.
 - Schützt die Radmutter vor zu hohen Anzugsmomenten.
 - Die Farbmarkierung erleichtert das Erkennen des passenden Werkzeugs.
- Barres de torsion**
- Pour le montage d'écrous de roue avec visseuse à chocs.
 - Protège l'écroue d'un serrage à couple excessif.
 - La colorisation des barres facilite l'identification des tailles.



14112-P



Torsion Extension Bars (for tightening only)
Torsionsstab-Verlängerungen (nur zum Anziehen)
Barres de torsion (pour serrage seulement)



14112-P (Nm)		D (mm)	L (mm)	(g)	(pce.)	
90Nm	1/2"	25	208	206	1	*1
95Nm		25	202	200	1	*1
100Nm		25	196	198	1	*1
110Nm		25	213	220	1	*1
120Nm		25	201	219	1	*1
130Nm		25	205	225	1	*1
140Nm		25	205	230	1	*1
150Nm		25	195	250	1	*1
170Nm		25	195	257	1	*1

*1 C-Ring=C41, Pin/O-Ring=A41/B41 → P268-269

14101M



Torsion Bars (for tightening only)
Torsionsstäbe (nur zum Anziehen)
Barres de torsion (pour serrage seulement)



14101M (mm×Nm)		D (mm)	H (mm)	L (mm)	(g)	(pce.)	
17× 60Nm	1/2"	25	16	216	227	1	*1
17× 75Nm		25	16	228	240	1	*1
17× 95Nm		25	16	214	256	1	*1
17×110Nm		25	16	204	285	1	*1
17×120Nm		25	16	203	284	1	*1
17×140Nm		25	16	200	290	1	*1
19× 60Nm		27	18	219	237	1	*1
19× 90Nm		27	18	259	275	1	*1
19×110Nm		27	18	214	278	1	*1
19×120Nm		27	18	204	297	1	*1
19×135Nm		27	18	204	339	1	*1
19×170Nm		27	18	193	332	1	*1
21×100Nm		29	22	216	288	1	*1
21×120Nm		29	22	205	288	1	*1
22×160Nm		30	22	210	385	1	*1

*1 C-Ring=C41, Pin/O-Ring=A41/B41 → P268-269

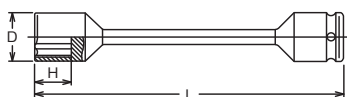
16101M



Torsion Bars (for tightening only)
Torsionsstäbe (nur zum Anziehen)
Barres de torsion (pour serrage seulement)



18101M



16101M (mm×Nm)		D (mm)	H (mm)	L (mm)	(g)	(pce.)	
24×180Nm	3/4"	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=C61, Pin/O-Ring=A61/B61 → P268-269



As the torque could vary with the type and the condition of the impact wrench, we strongly recommend the control with a torque wrench.

Da die Drehmomentwerte von Art und Leistung des verwendeten Schlagschraubers abhängen, empfehlen wir die Kontrolle der Kombination Schlagschrauber/Torsionsstab mittels eines Drehmomentschlüssels.

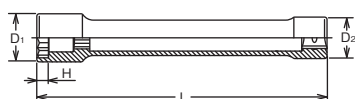
Etant donné que le couple peut varier selon modèle, la capacité ou l'état de la clé à choc, le contrôle de la combinaison clé à choc/barre par clé dynamométrique est indispensable.

18101M (mm×Nm)		D (mm)	H (mm)	L (mm)	(g)	(pce.)	
24×350Nm	1"	41.5	24	300	1380	1	*1
27×350Nm		45.3	27	300	1401	1	*1
27×450Nm		45.3	27	300	1579	1	*1
30×500Nm		49	30	300	1563	1	*1
32×450Nm		51.5	32	300	1600	1	*1
32×550Nm		51.5	32	300	1602	1	*1
32×600Nm		51.5	32	300	1602	1	*1
32×650Nm		51.5	32	300	1620	1	*1
32×700Nm		51.5	32	300	1630	1	*1
33×550Nm		52.8	33	300	1638	1	*1
33×600Nm		52.8	33	300	1638	1	*1
33×650Nm		52.8	33	300	1650	1	*1
36×600Nm		56.5	36	300	1718	1	*1

*1 C-Ring=C81, Pin/O-Ring=A81/B81 → P268-269

6102M-400 8102M-400

Extra long socket for wheel nuts
Extra lange Steckschlüssel für Radmutter
Douilles extra-longues pour écrous de roue



6102M-400 (mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pce.)
41W×21W	3/4"	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 ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pce.)
41W×21W	1"	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 tools.

6102M/8102M sind nur für den Handgebrauch bestimmt. Nicht mit einem Elektrowerkzeug verwenden.

Pour usage manuel uniquement.



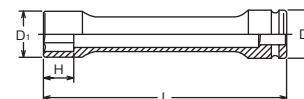
Combination type
Kombination Typ
41W×21W

Extra long Socket for wheel nut
Extra langer Steckschlüssel für Radmutter
Douille extra-longue pour écrous de roue

16102M-270 / -400 18102M-270 / -400



Extra long Sockets for wheel Nuts
Extra lange Steckschlüssel für Radmutter
Douilles extra-longues pour écrous de roue



16102M-270 (mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pce.)	
24	3/4"	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
38		56.3	44	32	270	1610	1	*1
41		60	44	32	270	1640	1	*1

*1 C-Ring=C61, Pin/O-Ring=A61/B61 → P268-269

16102M-400 (mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pce.)	
24	3/4"	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=C61, Pin/O-Ring=A61/B61 → P268-269

18102M-270 (mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pce.)	
23	1"	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
41		60	54	32	270	1800	1	*1

*1 C-Ring=C81, Pin/O-Ring=A81/B81 → P268-269

18102M-400 (mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pce.)	
23	1"	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=C81, Pin/O-Ring=A81/B81 → P268-269

PW6P (mm×mm)	D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	Shaft Color	(g)	(pcs.)	
32×17	47	44	12	75		621	2	*1
35×17	50	44	12	75		655	2	*1
38×20	55	44	12	75		705	2	*1
41×19	58	44	12.5	80		813	2	*1
41×20	58	44	12.5	80		813	2	*1
41×21	58	44	12.5	80		779	2	*1

*1 C-Ring=C61, Pin/O-Ring=A61/B61 → P268-269

PW8P (mm×mm)	D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	Shaft Color	(g)	(pcs.)	
35×17	50	54	12	83		867	2	*1
38×20	55	54	12	83		941	2	*1
41×19	58	54	12.5	87		1033	2	*1
41×20	58	54	12.5	87		1033	2	*1
41×21	58	54	12.5	87		997	2	*1

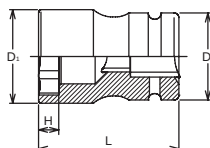
*1 C-Ring=C81, Pin/O-Ring=A81/B81 → P268-269

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	

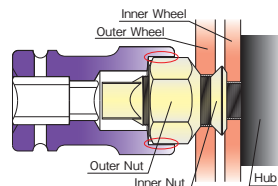
PW6P PW8P



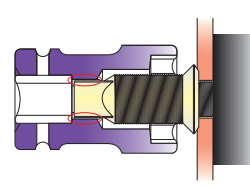
Rear Wheel Nut Sockets
Steckschlüssel für Hinterradmuttern
Douilles spéciales pour écrous de roue arrière



Tightening / Loosening Outer Nut
Anziehen / Lösen der äußeren Mutter



Tightening / Loosening Inner Nut
Anziehen / Lösen der inneren Mutter



PW8P/4



Socket set of Rear Wheel Nut Sockets
Steckschlüssel für Hinterradmuttern, im Satz
Jeu de douilles spéciales pour écrous de roue arrière



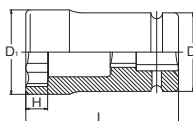
PW8L (mm×mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pcs.)	
41×21	1"	58	54	15	105	1263	1	*1

*1 C-Ring=C81, Pin/O-Ring=A81/B81 → P268-269

PW8L



Rear Wheel Nut Socket (long)
Steckschlüssel für Hinterradmuttern, lang
Douilles spéciales pour écrous de roue arrière longue



PS6 (mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pcs.)	
17		40	44	21.5	60	433	5	*1
19		40	44	21.5	60	419	5	*1
20		44	44	23.5	60	483	5	*1
21		44	44	25.5	60	491	5	*1

*1 C-Ring=C61, Pin/O-Ring=A61/B61 → P268-269

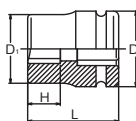
PS8 (mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pcs.)	
17		40	54	21.5	65	621	2	*1
19		43	54	21.5	65	648	2	*1
20		45	54	23.5	65	687	2	*1
21		45	54	23.5	65	696	2	*1

*1 C-Ring=C81, Pin/O-Ring=A81/B81 → P268-269

PS6 PS8



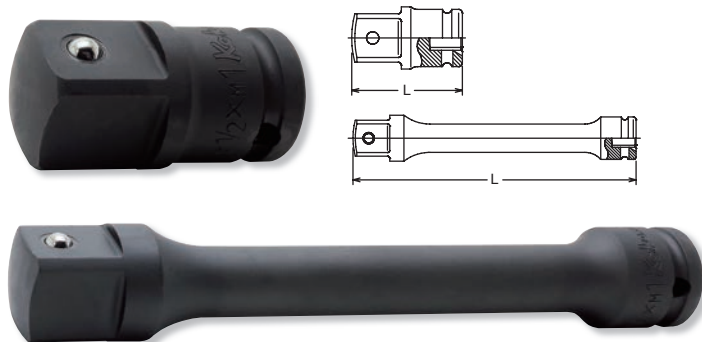
Rear Wheel Nut Sockets
Steckschlüssel für Hinterradmuttern
Douilles spéciales pour écrous de roue arrière



14466A-200B 14488A-B / -200B

Adaptor
Verbindungsstück
Réducteur

No Warranty
Keine Garantie
Sans Garantie



	□ (sq.)	□ (sq.)	L (mm)	⚖ (g)	📦 (pce.)	⚡
14466A-200B	1/2"	3/4"	200	560	1	*2
14488A-B	1/2"	1"	58	280	1	*2
14488A-200B	1/2"	1"	200	660	1	*2

*2 C-Ring=C42, Pin/O-Ring=A42/B42 → P268-269

(PW8P-41X21 + 14488A-200B + 1/2" SQ. Impact wrench)



14466A-B / 14488A-B
Impact Adaptors (□1/2" SQ. → □3/4", 1" SQ.)



For temporary fastening a wheel nut socket for large vehicle with a light duty 1/2" Sq.Dr. Impact wrench.

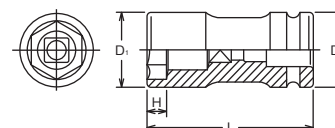
Zum vorübergehenden Festziehen einer Radmutter für große Fahrzeuge mit einem leichten 1/2-Zoll-Vierkant-Schlagschrauber.

Pour la fixation temporaire d'un écrou de roue pour les gros véhicules avec une clé à choc légère de 1/2" Sq.Dr.

16316M / 16316A 18316M / 18316A



Rear Wheel Nut Sockets
Steckschlüssel für Hinterradmuttern
Douilles spéciales pour écrous de roue arrière



16316M (mm×mm)	□	D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	⚖ (g)	📦 (pce.)	⚡
35×17	3/4"	52	44	10	90	865	1	*1
38×20		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=C61, Pin/O-Ring=A61/B61 → P268-269

16316A (inch×inch)	□	D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	⚖ (g)	📦 (pce.)	⚡
1 1/2×13/16	3/4"	56	44	13	100	940	1	*1

*1 C-Ring=C61, Pin/O-Ring=A61/B61 → P268-269

18316M (mm×mm)	□	D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	⚖ (g)	📦 (pce.)	⚡
35×17	1"	52	54	10	108	1153	1	*1
38×20		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=C81, Pin/O-Ring=A81/B81 → P268-269

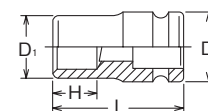
18316A (inch×inch)	□	D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	⚖ (g)	📦 (pce.)	⚡
1 1/2×13/16	1"	59	54	13	108	1120	1	*1

*1 C-Ring=C81, Pin/O-Ring=A81/B81 → P268-269

16317M / 16317A 18317M / 18317A



Rear Wheel Nut Sockets
Steckschlüssel für Hinterradmuttern
Douilles spéciales pour écrous de roue arrière



16317M (mm)	□	D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	⚖ (g)	📦 (pce.)	⚡
17	3/4"	40	44	22.5	67	485	1	*1
19		40	44	22.5	67	462	1	*1
20		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=C61, Pin/O-Ring=A61/B61 → P268-269

16317A (inch)	□	D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	⚖ (g)	📦 (pce.)	⚡
13/16	3/4"	44	44	22.5	67	489	1	*1

*1 C-Ring=C61, Pin/O-Ring=A61/B61 → P268-269

18317M (mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	 (g)	 (pce.)	
17	1"	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		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=C81, Pin/O-Ring=A81/B81 → P268-269

18317A (inch)	□	D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	⚖ (g)	📦 (pce.)	⚡
13/16	1"	45	54	22.5	72	703	1	*1

*1 C-Ring=C81, Pin/O-Ring=A81/B81 → P268-269

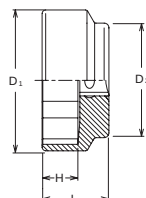
A close-up, low-angle shot of a red motorcycle in a workshop. The focus is on the engine, exhaust pipe, and rear wheel. A black tool, possibly a torque wrench, is visible near the engine. The background shows other motorcycles and workshop equipment. The text 'MOTORCYCLE TOOLS', 'MOTORRAD WERKZEUGE', and 'OUTILLAGE MOTO' is overlaid in a bold, orange font. The image has a vertical orange bar on the left and a horizontal orange bar at the bottom right.

MOTORCYCLE TOOLS
MOTORRAD WERKZEUGE
OUTILLAGE MOTO

4400M (DU)



6 point Socket, extra short for Motorcycle central chain-wheel screws
6 kant Steckschlüssel, extra kurz für Motorrad Kettenrad-Zentralmuttern
Douilles 6-pans extra-courtes pour moto, pour roue d'entraînement écrou-central



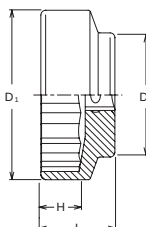
4400M		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pcs.)
41DU	1/2"	53	45	15	28	239	5
46DU		59	48	15	28	279	5



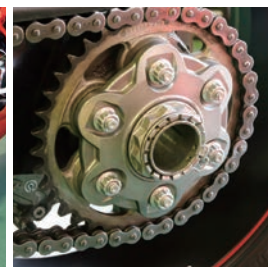
4405M (DU)



12 point Socket, extra short for motorcycle rear-axle screws
12 kant Steckschlüssel, extra kurz, für Motorrad-Hinterradmuttern
Douilles 12-pans extra-courtes pour moto, pour écrou roue-arrière



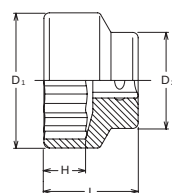
4405M		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pcs.)
36DU	1/2"	47.3	41	15	28	200	5
55DU		71	52	16	31	410	5



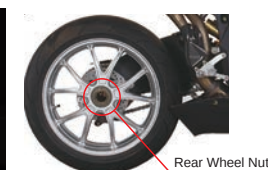
6405A (MV)



12 point Socket, extra short for motorcycle rear-axle screws
12 kant Steckschlüssel, extra kurz, für Motorrad-Hinterradmuttern
Douilles 12-pans extra-courtes pour moto, pour écrou roue-arrière



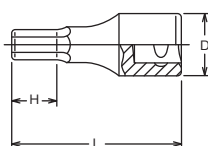
6405A		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pcs.)
2.3/16MV	3/4"	74.6	53	23	52	790	2



4012M-43



Inhex Sockets
Steckschlüssel für Innensechskant-Schrauben
Douilles tournevis pour vis 6-pans creux



4012M-43 (mm)		D (mm)	H (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
23		28	11.5	43	170	10
24		28	11.5	43	170	10
27	1/2"	32	11.5	43	226	10



3305P (mm)		D (mm)	H (mm)	L (mm)	(g)	(pcs.)
12	3/8"	16.5	6.3	70	78	10

3305P-12 : For DUCATI V4 Engines



The magnet can break by any impacts. Please handle with care.

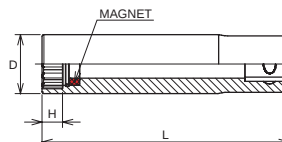
Der Magnet kann durch Stöße beschädigt werden. Bitte mit Vorsicht handhaben.

L'aimant peut être brisé par n'importe quel impact. Veuillez le manipuler avec précaution.

3305P-12



Spark Plug Socket with Magnet, 12-pt. opening
Zündkerzensteckschlüssel mit Magnet, 12-kant
Douilles pour bougies, avec aimant, 12-pans

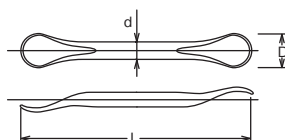


155	D (mm)	d (mm)	L (mm)	(g)	(pcs.)
	22	10	170	100	10

For Motorcycles
Für Motorräder
Pour motos

155

Tyre Lever
Reifen und Montagehebel
Démonte-pneu

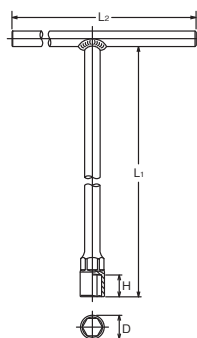


104ME (mm)	D (mm)	H (mm)	L ₁ (mm)	L ₂ (mm)	(g)	(pce.)
6	9.5	8	200	180	150	1
7	11	9	200	180	152	1
8	12	10	250	200	183	1
9	14	12	250	200	188	1
10	14	13	250	200	230	1
11	16	14	250	200	234	1
12	18	15	250	200	355	1
13	18.5	17	250	250	390	1
14	20	18	250	250	399	1
15	21	19	250	250	404	1
16	22.5	21	250	250	419	1
17	24	22	250	250	568	1
18	25	23	250	250	577	1
19	26.5	25	250	250	594	1
21	29	27	350	300	1070	1
22	30	28	350	300	1062	1
24	33	30	350	300	1140	1

104ME



T-Handles, 6-Point
T-Griffe, 6-kant
Poignées en T, 6-pans



157HE (mm)	L ₁ (mm)	L ₂ (mm)	(g)	(pce.)
3	250	180	98	1
4	250	180	121	1
5	250	180	158	1
6	250	180	416	1
8	250	180	422	1
10	300	190	440	1
12	320	210	660	1

157PE (PH)	L ₁ (mm)	L ₂ (mm)	(g)	(pce.)
2	250	180	95	1
3	250	180	170	1

157T (T)	L ₁ (mm)	L ₂ (mm)	(g)	(pce.)
T25	250	180	95	1
T27	250	180	96	1
T30	250	180	167	1
T40	250	180	168	1
T45	250	180	213	1
T50	250	180	215	1

157HE



T-Handles, for Inhex Screws
T-Griffe für Innensechskant-Schrauben
Poignées en T pour vis à 6-pans creux

157PE

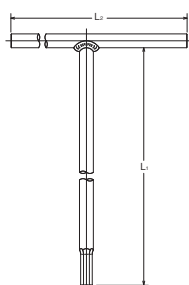


T-Handles for PH Screws
T-Griffe für Kreuzschlitzschrauben PH
Poignées en T pour vis à empreinte PH

157T



T-Handle for TORX® Screws
T-Griff für TORX®-Schrauben
Poignées en T pour vis à empreinte TORX®



2263A

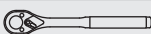
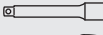
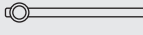
1/4" Socket set (Inch)
1/4" Steckschlüsselsatz (Zoll)
1/4" Jeu de clés à douilles (Pouce)



2263A

29 Pieces Set/△=940g

METAL CASE:W240×H100×T32mm

Sockets	Accessories
2400A 6-pt. Sockets 1/8, 5/32, 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2	 2753N  2760-100  2769N-150  2770  2785
2000.28 Bit Sockets 1, 2, 3	
2010A.25 Bit Sockets 1/8, 5/32, 3/16, 7/32, 1/4, 9/32, 5/16	
2025.28 Bit Sockets T10, T15, T20, T25, T30	

3201AMW

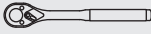
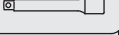
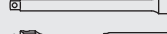
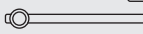
3/8" Socket set (mixed Metric,Inch,Witworth)
3/8" Steckschlüsselsatz (gemischt Metrisch,Zoll.)
Jeu de douilles 3/8" (pouce et métrique)



3201AMW

42 Pieces Set/△=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	 3753N  3760-75  3760-125  3760-250  3768N-250  3769N-160  3770  3780  3785  3344A
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	

4238AM

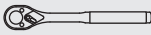
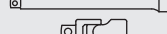
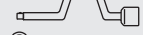
1/2" Socket set (mixed Metric,Inch)
1/2" Steckschlüsselsatz (gemischt Metrisch,Zoll)
Jeu de douilles 1/2" (pouce et métrique)



4238AM

38 Pieces Set/△=8,050g

METAL CASE:W446×H266×T50mm

Sockets	Accessories
4405M 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
4405A 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	
4300C Spark Plug Socket 20.8	

4251A

1/2" Socket set (Inch)
1/2" Steckschlüsselsatz (Zoll)
Jeu de douilles (pouce) 1/2"



4251A

18 Pieces Set/△=2,660g

METAL CASE:W337×H76×T52mm

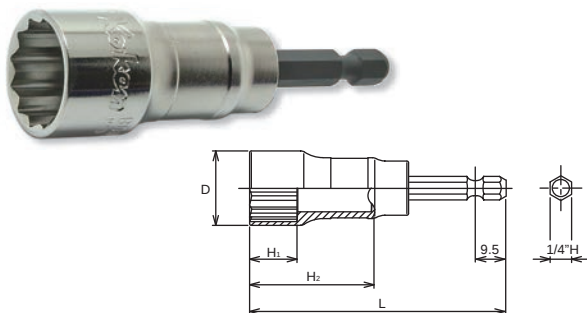
Sockets
4405A 12-pt. Sockets 3/8, 7/16, 1/2, 9/16, 5/8, 19/32, 21/32, 11/16, 3/4, 25/32, 13/16, 7/8, 15/16, 1, 1.1/16, 1.1/8, 1.3/16, 1.1/4

TOOLS FOR CONSTRUCTION SITES
WERKZEUGE FÜR DAS BAUGEWERBE
OUTILLAGE POUR L'INDUSTRIE DU BÂTIMENT



BD014SE

12-point Nut Setters
12-kant Steckschlüsselklingen
Douilles 12-pans à embout

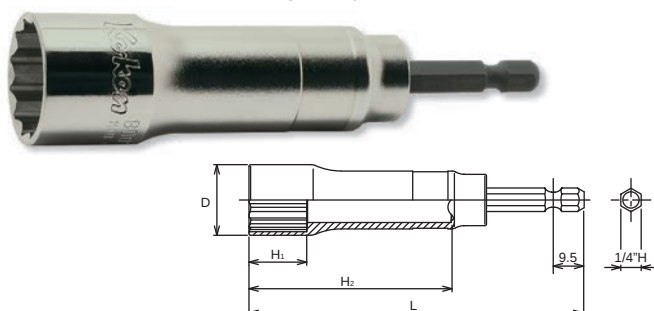


BD014SE (mm)	D (mm)	H ₁ (mm)	H ₂ (mm)	L (mm)	(g)	(pcs.)
8	12	12	36	77	35	10
10	14	12	36	77	38	10
12	16.5	14	36	77	48	10
13	17.5	14	36	77	51	10
14	19	14	36	77	54	10
17	22.5	14	36	77	76	10
19	24.5	14	36	77	83	10
21	27	14	34	77	104	10
22	28	14	34	77	120	10
24	30.3	14	34	77	140	10

◆ DIN 3126 Form E 6.3

BD014E

12-point Nut Setters, deep
12-kant Steckschlüsselklingen, lang
Douilles longues, 12-pans à embout

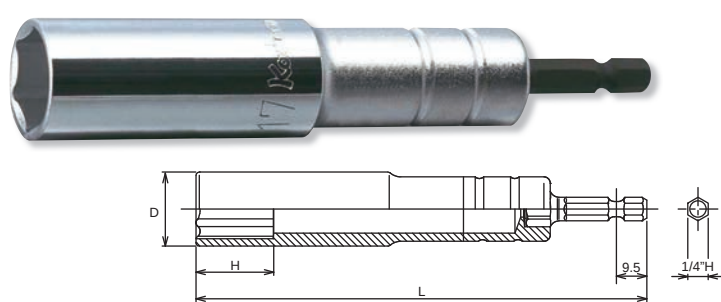


BD014E (mm)	D (mm)	H ₁ (mm)	H ₂ (mm)	L (mm)	(g)	(pcs.)
8	12	12	63	104	45	10
10	14	12	63	104	52	10
12	16.5	18	63	104	61	10
13	17.5	18	63	104	65	10
14	19	18	63	104	72	10
17	22.5	18	60	104	80	10
19	24.5	18	60	104	95	10
21	27	18	60	104	110	10
22	28	18	60	104	112	10
24	30.3	18	60	104	123	10

◆ DIN 3126 Form E 6.3

BD014E-140

6-point Nut Setters, extra deep
6-kant Steckschlüsselklingen, extra lang
Douilles extra-longues, 6-pans à embout

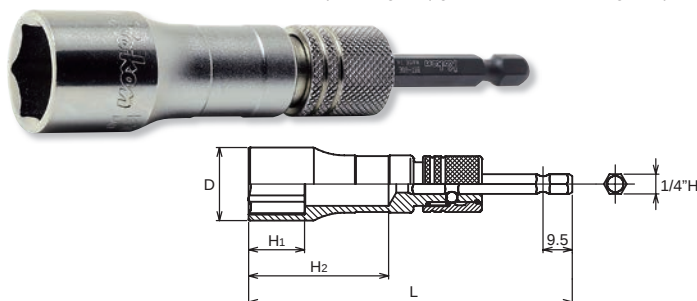


BD014E-140 (mm)	D (mm)	H (mm)	L (mm)	(g)	(pcs.)
13	19	20	140	120	10
17	24	26	140	190	10

◆ DIN 3126 Form E 6.3

BD042E

6-point Nut Setters deep (Exchangeable Drive Shank)
6-kant Steckschlüsselklinge lang (austauschbarer Antriebsschaft)
Jeu d'écrous à 6-pans longues (tige d'entraînement échangeable)

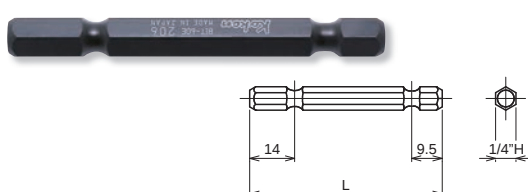


BD042E (mm)	D (mm)	H ₁ (mm)	H ₂ (mm)	L (mm)	(g)	(pcs.)
17	23.5	18	45	111	114	10
19	25.5	18	45	111	119	10
21	28	18	45	111	132	10
24	31.5	18	45	111	147	10

◆ DIN 3126 Form E 6.3

BIT-60E

Drive bit for BD042E
Antriebsbit für BD042E
Embout d'entraînement pour BD042E



	L (mm)	(g)	(pcs.)
BIT-60E	60	10	10

◆ DIN 3126 Form E 6.3

BD014XE (mm)	D (mm)	H ₁ (mm)	H ₂ (mm)	L (mm)	(g)	(pcs.)
8SF	13	12	49	90	40	10
10SF	15	12	49	90	46	10
12SF	17.5	14	48	90	54	10
13SF	18.5	14	48	90	58	10
14SF	19.8	14	47	90	64	10
17SF	23.5	14	46	90	81	10
19SF	25.5	14	46	90	100	10
21SF	28	14	46	90	123	10
24SF	31.5	14	45	90	137	10

● DIN 3126 Form E 6.3

BD014E (mm)	D (mm)	H ₁ (mm)	H ₂ (mm)	L (mm)	(g)	(pcs.)
17SF	23.5	18	60	104	94	10
19SF	25.5	18	60	104	100	10
21SF	28	18	60	104	110	10

● DIN 3126 Form E 6.3

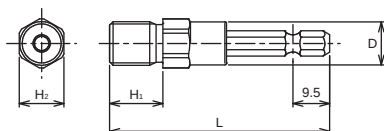
BD008E-165 (mm)	D (mm)	H ₁ (mm)	H ₂ (mm)	L (mm)	(g)	(pcs.)
17	22.8	17	110	165	105	10
19	24.8	17	110	165	135	10
21	27.3	17	110	165	142	10

● DIN 3126 Form E 6.3

BD011SE (mm)	D (mm)	H ₁ (mm)	H ₂ (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

● DIN 3126 Form E 6.3

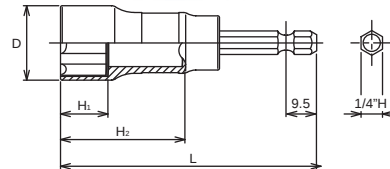
184E-64	D (mm)	H ₁ (mm)	H ₂ (mm)	L (mm)	(g)	(pcs.)
3/8×24UNF	12.5	14.5	13	64	34	10
1/2×20UNF	12.5	15.5	13	64	40	10



BD014XE-SF



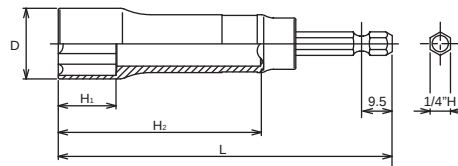
Surface Drive Nut Setters, Semi-Deep
Surface Drive Steckschlüsselklingen, mittel lang
Douilles semi-profondes, Surface Drive



BD014E-SF



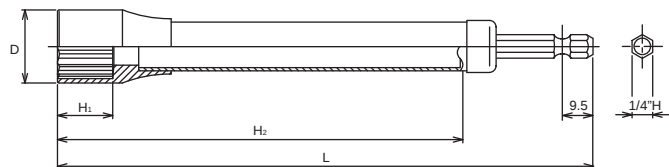
Surface Drive Nut Setters, deep
Surface Drive Steckschlüsselklingen, lang
Douilles longues, Surface Drive



BD008E-165



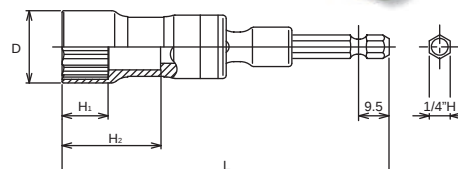
12-point Nut Setter, extra long
12-kant Steckschlüsselklinge, extra lang
Douilles 12-pans à embout, extra longues



BD011SE



12-point Universal Joint Nut Setters
12-kant Steckschlüsselklingen mit Gelenk
Douilles 12-pans articulées à embout

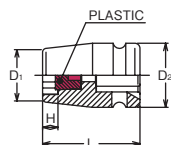


184E-64

Drill Chuck Adaptor
Bohrfutteradapter
Adaptateur de mandrin de perçage



BD14400MJ 6-point Sockets for Anchor Screws 6-kant Steckschlüssel Douilles 6-pans



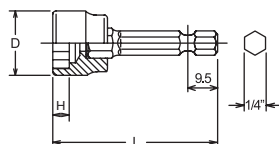
BD14400MJ (mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	 (g)	 (pcs.)	
13	1/2"	20.7	25	5	38	140	10	*1
15		23.2	30	5	38	145	10	*2
16		24.5	30	6.5	38	145	10	*2
17		25.7	30	6.5	38	145	10	*2
19		28.2	30	7.5	38	145	10	*2

*1 C-Ring=C41, Pin/O-Ring=A41/B41

*2 C-Ring=C42, Pin/O-Ring=A42/B42

➔ P268-269

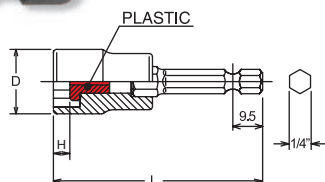
BD016E 6-point Sockets for Anchor Screws 6-kant Steckschlüsselklingen Douilles 6-pans à embout pour vis d'ancrage



BD016E (mm)	D (mm)	H (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

● DIN 3126 Form E 6.3

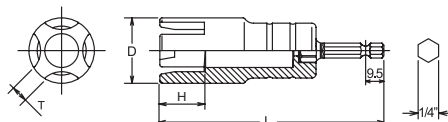
BD016JE 6-point Nut Setters with Plastic Stops 6-kant Steckschlüsselklingen mit Plastik-Anschlag Douilles 6-pans à embout avec arrêt en plastique



BD016JE (mm)	D (mm)	H (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

● DIN 3126 Form E 6.3

BD017E Wing Bolt Socket for Electric Drill 6-kant Steckschlüsselklingen für Flügelschrauben Douilles 6-pans à embout pour ecrous à oreilles



BD017E	D (mm)	T (mm)	H (mm)	L (mm)	 (g)	 (pcs.)
	31	7.3	21	104	158	10

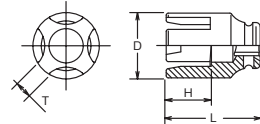
● DIN 3126 Form E 6.3



BD018		D (mm)	T (mm)	H (mm)	L (mm)	(g)	(pcs.)	
	3/8"	31	7.3	21	45	113	10	*2

*2 C-Ring=C32, Pin/O-Ring=A32/B32 → P268-269

BD018 Wing Bolt Socket Steckschlüssel für Flügelschrauben Douilles pour écrous à oreilles



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

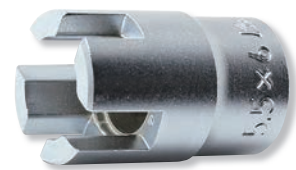
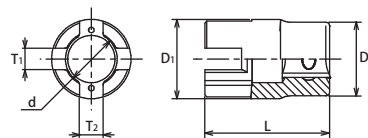


For Wing Bolt
Für Flügelschrauben
Pour écrous à oreilles



For Drain Plug in Radiator
Für Kühler-Ablassschrauben
Pour le vidange du radiateur

3119 Wing Bolt Socket Steckschlüssel für Flügelschrauben Douilles pour écrous à oreilles

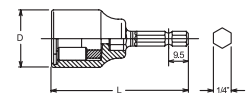
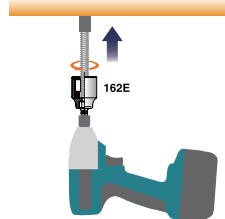


162E (mm)	D (mm)	L (mm)	(g)	(pcs.)
8	23	66	82	10
10	27.9	66	107	10

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

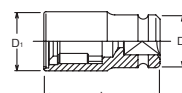
◆ DIN 3126 Form E 6.3

162E Stud Setters Stehbolzeneindreher Monte-goujons



BD004 Impact Screw and Stud Setters Impact Stehbolzeneindreher Monte-goujons, Impact

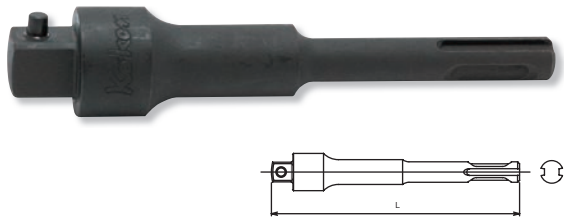
BD004 (mm)		D ₁ (mm)	D ₂ (mm)	L (mm)	(g)	(pcs.)
12.5×10	1/2"	30	25	70	236	5
12.5×13		38	30	75	388	5
12.5×16		38	30	75	369	5
20 ×19		48	44	90	775	2
20 ×22	3/4"	48	44	90	752	2
20 ×25		62	44	95	1184	2
20 ×29		62	44	95	1148	2



Z-SERIES
HAND
TITANIUM
SCREWDRIVERS
ACCESSORIES
IMPACT
SLEEVE-DRIVE
PROTECTOR
INDUSTRIAL
AUTOMOTIVE
MOTORCYCLE
CONSTRUCTION
SPARE PART

BD022-120P

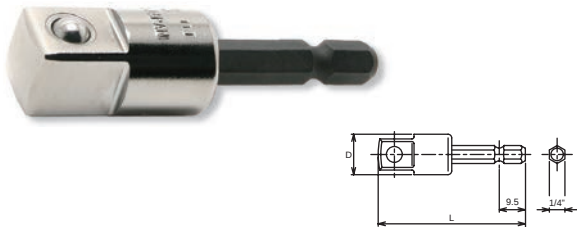
Hammer Drill Adaptor
Adapter für Schlagbohrmaschinen
Adaptateur pour alésoeurs



BD022-120P		L (mm)	 (g)	 (pcs.)
3/8	3/8"	120	100	10
1/2	1/2"	120	160	10

BD023E

Adaptors
Verbindungsstücke
Adaptateurs

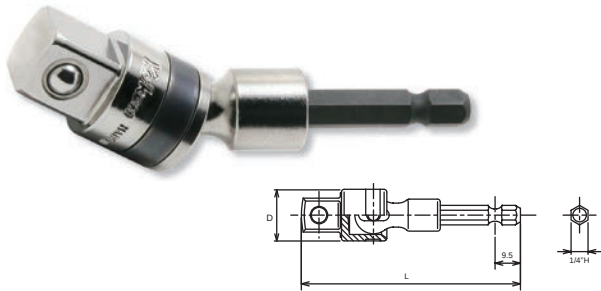


BD023E		D (mm)	L (mm)	 (g)	 (pcs.)
3/8	3/8"	12.5	55	27	10
1/2	1/2"	16.5	60	48	10

◆ DIN 3126 Form E 6.3

BD024E

Universal Adaptors
Gelenk Adapter
Augmentator articulé

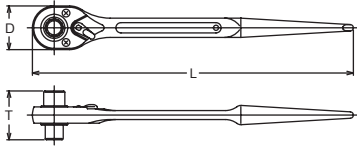


BD024E		D (mm)	L (mm)	 (g)	 (pcs.)
3/8	3/8"	19.3	78	63	10
1/2	1/2"	19.3	82	73	10

◆ DIN 3126 Form E 6.3

170S (mm)	D (mm)	T (mm)	L (mm)	(g)	(pce.)
10×12	34	38	250	260	1
12×14	34	38	250	260	1

171S (mm)	D (mm)	T (mm)	L (mm)	(g)	(pce.)
14×17	44.6	50	250	460	1
17×19	44.6	50	250	460	1
17×21	44.6	50	250	460	1
19×21	44.6	50	250	460	1



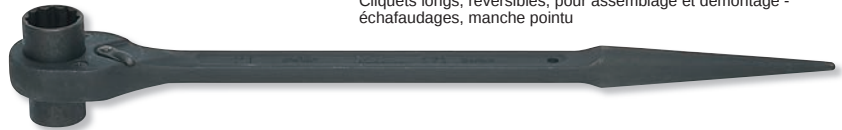
170S ○ Spud Handle Ratchets, reversible
Doppelseitige Gerüstbauknarre, umstellbar
Cliquets, réversibles, pour assemblage et démontage - échafaudages, manche pointu



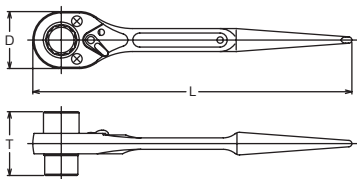
171S ○ Spud Handle Ratchets, reversible
Doppelseitige Gerüstbauknarre, umstellbar
Cliquets, réversibles, pour assemblage et démontage - échafaudages, manche pointu



171 ○ Spud Handle Ratchets (Long), reversible
Doppelseitige Gerüstbauknarre, lange Ausführung, umstellbar
Cliquets longs, réversibles, pour assemblage et démontage - échafaudages, manche pointu



171 (mm)	D (mm)	T (mm)	L (mm)	(g)	(pce.)
14×17	44.6	50	380	630	1
17×19	44.6	50	380	630	1
17×21	44.6	50	380	630	1
19×21	44.6	50	380	630	1

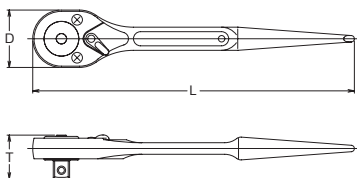


172 ○ Spud Handle Ratchets (Long), reversible
Doppelseitige Gerüstbauknarre, lange Ausführung, umstellbar
Cliquets longs, réversibles, pour assemblage et démontage - échafaudages, manche pointu



172 (mm)	D (mm)	T (mm)	L (mm)	(g)	(pce.)
21×26	68	58	380	1100	1
22×24	68	58	380	1100	1
23×26	68	58	380	1100	1
24×27	68	58	380	1100	1
26×32	68	63	380	1100	1

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



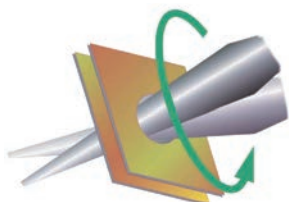
171SB-1/2 Spud Handle Ratchet with Push Button (short)
Gerüstbauknarre mit Arretierungsknopf (kurz)
Cliquet d'échafaudage avec bouton de verrouillage (court)



171B-1/2 Spud Handle Ratchet with Push Button (long)
Gerüstbauknarre mit Arretierungsknopf (lang)
Cliquet d'échafaudage avec bouton de verrouillage (long)



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



Twin Opening Spud Handle Ratchets
The tapered handle is designed to align bolt holes in flanges, rivet holes or similar assemblies.

Knarren mit doppelseitiger Steckschlüssel-Kombination und konischem Griff für die Ausrichtung von Bohrlochern z. B. an Flanschen und Gerüsten.

Cliquets à tête double avec manche conique pour aligner les trous des boulons lors des travaux d'échafaudage ou de tout travail de construction.



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.

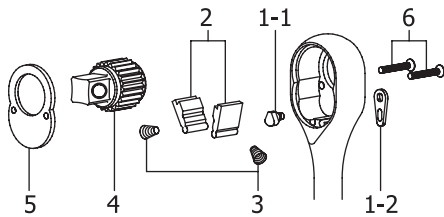
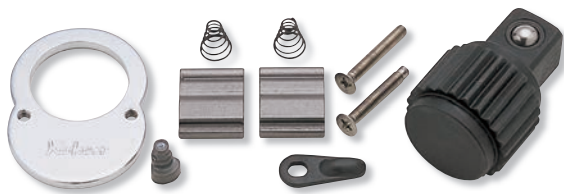
Wir nehmen gerne Ihre Anfragen zu Sonderartikeln entgegen.
Sonderanfertigungen werden nach Ihren Vorgaben hergestellt.
Bitte richten Sie Ihre Anfrage an Ihren örtlichen Händler.

Nous étudierons volontier toute demande d'outils spéciaux.
Nous pouvons concevoir et fabriquer tout outil selon vos spécifications.
Veuillez contacter votre distributeur habituel.

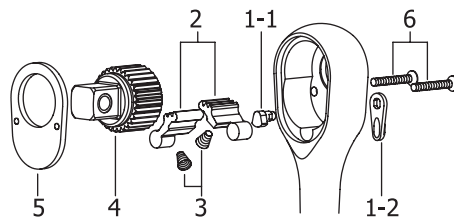
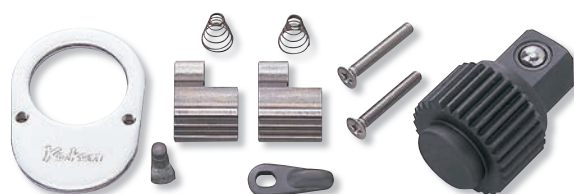
**SPARE PART SETS
ERSATZTEILSÄTZE
PIÉCES DE RECHANGE**



Z-SERIES
HAND
TITANIUM
ACCESSORIES
SCREWDRIVERS
IMPACT
SLEEVE-DRIVE
PROTECTOR
INDUSTRIAL
AUTOMOTIVE
MOTORCYCLE
CONSTRUCTION
SPARE PART



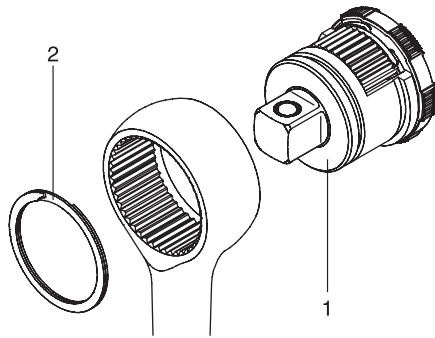
- | | |
|-----|-----------------|
| 1-1 | Reversion Cam |
| 1-2 | Reversion Lever |
| 2 | Dog |
| 3 | Spring |
| 4 | Square Drive |
| 5 | Cover plate |
| 6 | Screw |



- | | |
|-----|-----------------|
| 1-1 | Reversion Cam |
| 1-2 | Reversion Lever |
| 2 | Dog |
| 3 | Spring |
| 4 | Square Drive |
| 5 | Cover plate |
| 6 | Screw |

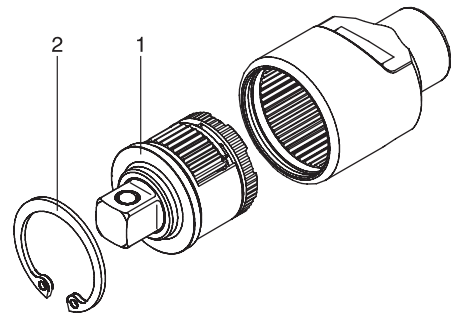
	☑	Products	(g)	(pce.)
2749RK	1/4"	2749N/P/J	30	1
2753RK		2753N/P/J, 2753PS/PSKR, 2753P-160, 2774PS/JJS, 2774N/P/J	30	1
2753BRK		2753NB/PB/JB	31	1
2749RK-3/8		2749PS-3/8, 2749N-3/8, 2749P-3/8, 2774PS-3/8, 2774JS-3/8	45	1
3749RK	3/8"	3749S, 3749N	70	1
3749BRK		3749SB	84	1
3753RK		3753N/P/J, 3753SM, 3753P-250, 3774N/P/J, 3774PS, 3774NL/PL/JL	84	1
3753BRK		3753NB/PB/JB, 3753SMB, 3774NB/PB/JB/JBL	76	1
3749SRK-1/2	1/2"	3749S-1/2	120	1
3749SBRK-1/2		3749SB-1/2	120	1
4749RK		4749N-250, 4749N-380, 4749J-380	130	1
4753RK		4753N/P/J, 4753P-410, 4774N/P/J, 4774P-450	130	1
4753BRK	3/4"	4753NB/PB/JB, 4774NB/PB/JB	130	1
6749RK		6749, 6749-1000	580	1
8749RK		8749, 8749-1000	800	1

	☑	Products	(g)	(pce.)
4750RK	1/2"	4750N/P/J	130	1
4750BRK		4750NB/PB/JB	130	1



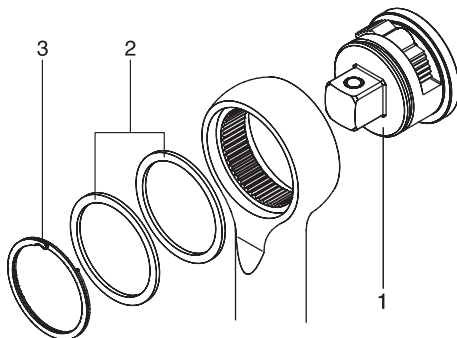
1 Head
2 Retaining Ring

	□	Products	(g)	(pce.)
3752RK	3/8"	3752N/J, 3757, 3776N/P/J	84	1
4752RK	1/2"	4752N/J	140	1



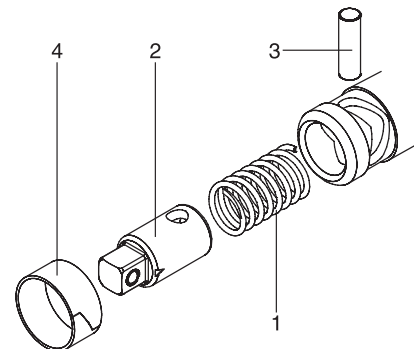
1 Head
2 Retaining Ring

	□	Products	(g)	(pce.)
2755RK	1/4"	2755	40	1
3755RK	3/8"	3755	98	1
4755RK	1/2"	4755	137	1
6755RK	3/4"	6755	550	1



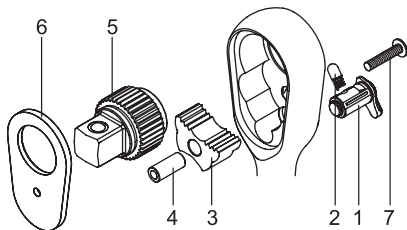
1 Head
2 Ring
3 Retaining Ring

	□	Products	(g)	(pce.)
6752RK	3/4"	6752	600	1

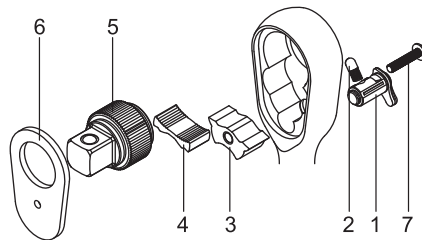


1 Spring
2 Square Drive
3 Pin
4 Retaining Ring

	□	Products	(g)	(pce.)
3112RK	3/8"	3112N	106	1
4112RK	1/2"	4112N	116	1
6112RK	3/4"	6112	445	1



- 1 Reversion Lever
- 2 Pin+Spring
- 3 Pawl
- 4 Sleeve
- 5 Square Drive
- 6 Cover Plate
- 7 Screw



- 1 Reversion Lever
- 2 Pin+Spring
- 3 Pawl (Large)
- 4 Pawl (Small)
- 5 Square Drive
- 6 Cover Plate
- 7 Screw

For 36 Tooth

	□	Products	(g)	(pce.)
2725RK-1	1/4"	2725Z, 2725Z-160, 2726Z, 2726Z-160	30	1
2725RK-1(3/8)	3/8"	2725Z-3/8, 2725Z-3/8(L160), 2726Z-3/8, 2726Z-3/8(L160)	45	1
3725RK-1	3/8"	3725Z, 3725ZS, 3725Z-280, 3726Z, 3726ZS, 3726Z-280	50	1
4725RK-1	1/2"	4725Z	120	1

For 72 Tooth

	□	Products	(g)	(pce.)
2725RK-2	1/4"	2725Z, 2725Z-160, 2726Z, 2726Z-160	30	1
2725RK-2(3/8)	3/8"	2725Z-3/8, 2725Z-3/8(L160), 2726Z-3/8, 2726Z-3/8(L160)	45	1
2725BRK-1(3/8)	3/8"	2725ZB-3/8, 2725ZB-3/8(L160), 2726ZB-3/8, 2726ZB-3/8(L160)	45	1
3725RK-2	3/8"	3725Z, 3725ZS, 3725Z-280, 3726Z, 3726ZS, 3726Z-280	50	1
3725BRK-1	3/8"	3725ZB, 3725ZSB, 3725ZB-280, 3726ZB, 3726ZSB, 3726ZB-280	50	1
4725RK-2	1/2"	4725Z	120	1
4725BRK-1	1/2"	4725ZB	120	1

⚠ 72 teeth repair kit do not fit on 36 teeth ratchets
Das Reparaturset mit 72 Zähnen passt nicht auf Ratschen mit 36 Zähnen
Le kit de réparation 72 dents ne convient pas aux cliquets 36 dents

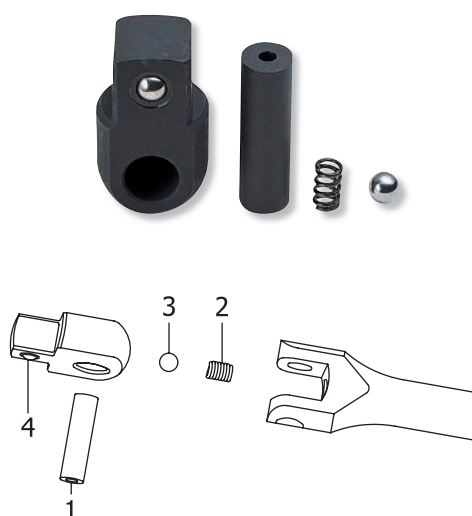


Screwdriver / Schraubendreher / Tournevis

For the mounting of repair sets
Zur Montage von Reparatursätzen
Pour l'installation de kits de réparation

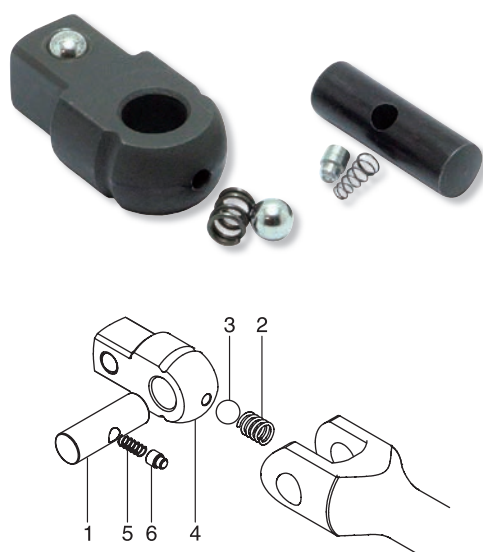
TORXPLUS® 6IP Screwdriver for 2725RK
TORXPLUS® 8IP Screwdriver for 3725RK
TORXPLUS® 10IP Screwdriver for 4725RK

168T (IP)	H (mm)	L (mm)	(g)	(pce.)
6IP(40)	40	110	20	1
8IP(40)	40	110	20	1
10IP(40)	40	110	22	1



- | | |
|---|--------------|
| 1 | Pin |
| 2 | Coil Spring |
| 3 | Ball |
| 4 | Square Drive |

	□	Products	(g)	(pce.)
2768RK	1/4"	2768N/P/J	40	1

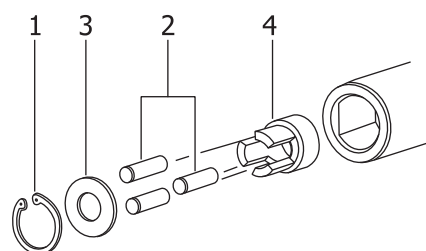
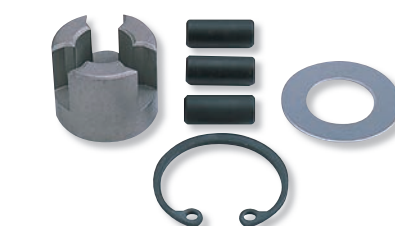


- | | |
|---|--------------|
| 1 | Pin |
| 2 | Coil Spring |
| 3 | Ball |
| 4 | Square Drive |
| 5 | Coil Spring |
| 6 | Plunger |



RENEWAL KIT FOR
HINGE HANDLE

	□	Products	(g)	(pce.)
3768RK	3/8"	3768N-175/250/300, 3768P-250/380, 3768J-250	40	1
3768ZRK	3/8"	3768Z-250/400	40	1
4768RK	1/2"	4768N-300/380/450/600, 4768N-380/ 450/600, 4768J-380/450/600, 4781N-450	137	1
4768ZRK	1/2"	4768Z-430	137	1
6768RK	3/4"	6768, 6768-600, 6768-1000	175	1
8768RK	1"	8768, 8768-1000	465	1



- | | |
|---|----------------|
| 1 | Retaining Ring |
| 2 | Roller |
| 3 | Cover |
| 4 | Cage |

4100MRK (mm)	□	Products	(pce.)
6	1/2"	4100M-6	1
7		4100M-7	1
8		4100M-8	1
9		4100M-9	1
10		4100M-10	1
10.5		4100M-10.5	1
11		4100M-11	1
12		4100M-12	1
14		4100M-14	1
16		4100M-16	1

4100ARK (inch)	□	Products	(pce.)
1/4	1/2"	4100A-1/4	1
5/16		4100A-5/16	1
3/8		4100A-3/8	1
7/16		4100A-7/16	1
1/2		4100A-1/2	1
9/16		4100A-9/16	1
5/8		4100A-5/8	1

6100MRK (mm)	□	Products	(pce.)
18	3/4"	6100M-18	1
20		6100M-20	1
22		6100M-22	1
24		6100M-24	1
27		6100M-27	1
28		6100M-28	1
29		6100M-29	1
30		6100M-30	1

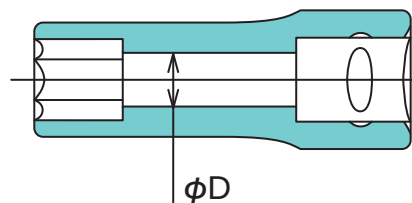
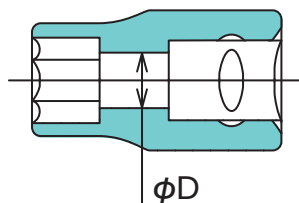
162RK	Products	(pce.)
5/16	162E-5/16	1
3/8	162E-3/8	1
1/2	162E-1/2	1
10	162E-10	1

HAND SOCKETS/ Diameter of Bore
HAND STECKSCHLÜSSEL/ Bohrungsdurchmesser
DOUILLES A MAIN/ Diamètre d'ouverture

Standard Socket



Deep Socket



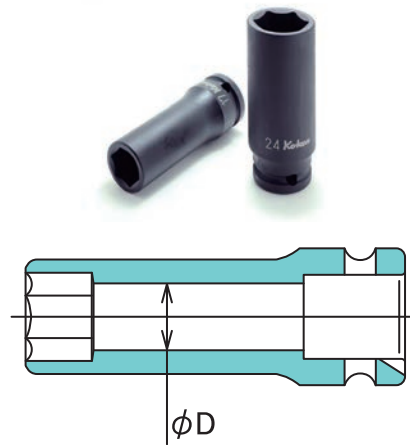
SOCKET		1/4" 		3/8" 		1/2" 		3/4" 		1" 
		Standard	Deep	Standard	Deep	Standard	Deep	Standard	Deep	Standard
		2400M 2400A	2300M 2300A	3400M 3400A	3300M 3300A	4400M 4400A	4300M 4300A	6400M 6400A	6300M 6300A	8400M 8400A
		2405M 2405A	2305M 2305A	3405M 3405A	3305M 3305A	4405M 4405A	4305M 4305A	6405M 6405A	6305M 6305A	8405M 8405A
(mm)	(inch)	φD								
3	1/8	2.5	2.5							
4		3	3							
4.5		3.5	3.5							
5	3/16	4	4							
5.5	7/32	4.5	4.5	4.5	4.5					
6	1/4	4.5	5	5	5					
7	9/32	6.2	6	5.5	6					
8	5/16	6.2	7	6	7	6	7			
9	11/32	8.3	8.3	7	8	7	8			
10	3/8	9.4	9	8	9	8	9			
11	7/16	10	10	9	10	9	10			
12		10	11	10	11	10	11			
13	1/2	11.5	12	11	12	11	12			
14	9/16	13	13	13.5	13.5	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	18	18	16	18	
20	25/32			17	19	18	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	22	24	
26	1			23	25	23	25	23	25	
27	1- 1/16				26	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	32	28
34						29	33	29	33	29
35	1- 3/8					30	34	30	34	30
36						31	35	31	35	31
37	1- 7/16					31	36	31	36	31
38	1- 1/2					32	37	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
	1-15/16							39	48	39
50	2							40	49	40
	2- 1/16							40		

IMPACT SOCKETS/ Diameter of Bore
IMPACT STECKSCHLÜSSEL/ Bohrungsdurchmesser
DOUILLES IMPACT / Diamètre d'ouverture

Standard Socket



Deep Socket



SOCKET		1/4"		3/8"		1/2"		3/4"		1"	
		Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
		12400M 12400A	13400M 13400A	13300M 13300A	14400M 14400A	14300M 14300A	16400M 16400A	16300M 16300A	18400M 18400A	18300M 18300A	
(mm)	(inch)	φD									
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	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		20		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					23	27	24	27	24	27	
29	1- 1/8				23	28	25	28	25	28	
30	1- 3/16				23	29	26	29	26	29	
31					23	30	27	30	27	30	
32	1- 1/4				23	31	28	31	28	31	
33					25	32	29	32	29	32	
34	1- 5/16				25	33	30	33	30	33	
35	1- 3/8				25	34	31	34	31	34	
36					28	35	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			

[illegible]



Screw dimension	Hexagon Head Bolt			Hexagon Socket Head Cap Screws			TORX		TORXPLUS		Triple Square	LHSTIX	Ref.) Standard Tightning Torque (Nm)				
	Standard	Compact	High Strength	Standard	Button Head / Shoulder Head	Hexagon Socket Set Screws	T	E	IP	EP [EPL]	XZN	LH-S [LH-SS]	Grade 4.6	Grade 6.8	Grade 8.8	Grade 10.9	Grade 12.9
M2	4			1.5		0.9	T6/T8		6IP				0.12	0.24	0.32	0.45	0.54
M2.5	5			2		1.3	T8		8IP		M3		0.25	0.49	0.65	0.92	1.1
M3	5.5			2.5	2	1.5	T10	E4	8IP/10IP	4EP	M3		0.43	0.87	1.16	1.63	1.96
M3.5	(6)						T15		10IP/15IP				0.68	1.37	1.82	2.56	3.08
M4	7			3	2.5	2	T20/T25	E5	15IP/20IP	5EP	M4	LH4S	1.01	2.02	2.7	3.79	4.54
M5	8			4	3	2.5	T25/T27	E6	20IP/25IP /27IP	6EP [8EPL]	M5	LH5S	2.04	4.09	5.47	7.67	9.18
M6	10			5	4	3	T30	E8	27IP/30IP	8EP [10EPL]	M6	LH6S	3.47	6.97	9.27	13	15.6
M7	11						T40	E8	40IP	8EP [12EPL]			5.85	11.6	15.5	21.8	26.2
M8	13	(12)		6	5	4	T40/T45	E10	40IP/45IP	10EP [14EPL]	M8	LH8S	8.41	16.9	22.5	31.6	37.9
M10	16 (17)	(14)		8	6	5	T50	E12	45IP/50IP	12EP [16EPL]	M10	LH10S [LH8SS]	16.7	33.4	44.5	62.6	75.2
M12	18 (19)	(17)	21 (22)	10	8	6	T55	E14	55IP	14EP [20EPL]	M12	LH12S [LH10SS]	29.1	58.3	77.6	109	131
M14	21 (22)	(19)		12			T55/T60	E14/E18	55IP/60IP	18EP [24EPL]	M14	LH14S [LH12SS]	46.4	92.7	124	174	209
M16	24	(22)	27	14	10	8	T60/T70	E16/E20	60IP/70IP	20EP [26EPL]	M16	LH16S [LH14SS]	72.3	145	194	271	325
M18	27	(24)		(14)			T70/T80	E24	80IP	24EP [30EPL]	M18		100	199	266	373	447
M20	30 (32)	(27/29)	32	17	12	10	T80/T90	E24	90IP	24EP [32EPL]			141	282	376	529	635
M22	34 (32/35)	(30/32)	36	(17)			T90/T100	E28	100IP	24EP [36EPL]			192	384	511	720	865
M24	36 (38)	(32/35)	41	19		12	T100	E32	100IP	32EP [40EPL]			244	488	650	915	1100
M27	41	(36)	46	(19)				E32		32EP			358	713	951	1340	1610
M30	46	(41)	50	22				E36		36EP			484	971	1290	1820	2180
M33	50	(46)		(24)				E40		40EP			661	1320	1760	2470	2970
M36	55 (54)	(50)		27				E44		44EP			848	1690	2260	3180	3810
M39	60 (58)	(55)		(27)									1100	2190	2920	4110	4930
M42	65 (63)			32									1350	2710	3610	5080	6080
M45	70 (67)			(32)									1700	3400	4540	6370	7630
M48	75 (71)			36									2030	4060	5440	7620	9120
M52	80 (77)			(36)									2640	5290	7040	9880	11800
M56	85			41									3270	6560	8710	12300	14800
M60	90												4080	8180	10900	15300	18300
M64	95			46									4930	9890	13100	18500	22300
M68	(100)												5970	12000	16000	22500	27000

*Reference: Hexagon Head Bolt: ISO 4014-4018, 8676, 8768
 High Strength Hexagon Bolt: JIS B 1196
 Hexagon Socket Head Cap Screws: ISO 7380
 Hexagon Socket Button Head Screws: ISO 7380
 Hexagon Socket Set Screws: ISO 4026-4029
 TORX T/E: TORX Standard TMH series
 TORXPLUS IP/EP: TORXPLUS Standard CMH series
 Triple Square: DIN 2324/2325
 LHSTIX LH-S/SS: LH-S/SS Standard

* Standard Tightening Torque: Calculated based on Torque Coefficient (K): 0.2
 Axial Force (Ff) : 60% of Proof Strength(σ)

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TORX® BITS(T/TH)

	S ₁ (mm)	S ₂ (mm)
T6	1.7	1.2
T7	2.0	1.4
T8	2.3	1.7
T9	2.5	1.8
T10	2.7	2.0
T15	3.3	2.3
T20	3.9	2.8
T25	4.5	3.2
T27	5.0	3.6
T30	5.6	4.0
T40	6.7	4.8
T45	7.9	5.6
T50	8.9	6.2
T55	11.3	8.0
T60	13.3	9.5
T70	15.6	11.1
T80	17.6	12.7
T90	20.0	14.2
T100	22.2	15.8

TORX® BITS(IP)

	S ₁ (mm)	S ₂ (mm)
6IP	1.7	1.3
7IP	2.0	1.5
8IP	2.3	1.8
9IP	2.5	1.9
10IP	2.7	2.1
15IP	3.3	2.5
20IP	3.9	3.0
25IP	4.5	3.4
27IP	5.0	3.9
30IP	5.6	4.3
40IP	6.7	5.2
45IP	7.9	6.2
50IP	8.9	6.9
55IP	11.3	9.0
60IP	13.3	10.4
70IP	15.6	12.3
80IP	17.6	13.7
90IP	20.0	15.7
100IP	22.2	17.5

TORX® Tamper-Resistant BITS(IPR)

	S ₁ (mm)	S ₂ (mm)
8IPR	2.2	2.0
9IPR	2.4	2.2
10IPR	2.6	2.4
15IPR	3.1	2.8
20IPR	3.6	3.3
25IPR	4.1	3.8
27IPR	4.7	4.3
30IPR	5.2	4.8
40IPR	6.3	5.7
45IPR	7.4	6.7
50IPR	8.4	7.6
55IPR	10.6	9.7

TORX® SOCKETS(E)

	S ₁ (mm)	S ₂ (mm)
E4	3.7	2.7
E5	4.6	3.3
E6	5.6	4.0
E7	6.1	4.3
E8	7.4	5.3
E10	9.3	6.8
E11	9.9	7.1
E12	11.0	7.9
E14	12.8	9.2
E16	14.6	10.5
E18	16.5	11.9
E20	18.3	13.2
E22	20.1	14.8
E24	22.0	15.7
E26	23.7	17.5
E28	25.5	18.3
E30	27.3	20.0
E32	29.0	21.3

TORX® SOCKETS(EP/EPL)

	S ₁ (mm)	S ₂ (mm)
4EP	3.7	2.9
5EP	4.6	3.5
6EP	5.6	4.3
7EP	6.1	4.7
8EP	7.4	5.7
10EP	9.3	7.1
11EP	9.9	7.6
12EP	11.0	8.5
14EP	12.8	9.8
16EP	14.6	11.2
18EP	16.5	12.7
20EP	18.3	14.0
22EP	20.1	15.4
24EP	22.0	16.8
26EP	23.7	18.2
28EP	25.5	19.6
30EP	27.3	20.9
32EP	29.0	22.3

TORX® Tamper-Resistant SOCKETS(EPR/EPRL)

	S ₁ (mm)	S ₂ (mm)
10EPR	8.7	8.1
11EPR	9.4	8.6
12EPR	10.4	9.6
14EPR	12.1	11.1
16EPR	13.8	12.7
20EPR	17.3	15.8
22EPR	19.0	17.4
24EPR	20.7	19.0
26EPR	22.4	20.0
28EPR	24.1	22.0
30EPR	25.7	23.6
32EPR	27.4	25.1

XZN BITS

	S ₁ (mm)	S ₂ (mm)
M4	3.6	3.1
M5	4.8	4.1
M6	6.1	5.1
M8	7.3	6.1
M10	9.7	8.1
M12	11.5	9.7
M14	13.3	11.2
M16	15.7	13.2
M18	16.9	14.2

Ribe CV BITS

	W (mm)	S ₁ (mm)	S ₂ (mm)
M5	1.2	5.0	3.8
M6	1.3	6.0	4.5
M7	1.4	7.0	5.0
M8	1.8	8.0	6.0
M9	2.0	9.0	7.1
M10	2.3	10.0	7.4
M12	2.6	12.0	9.0
M13	3.1	13.0	11.0
M14	3.2	14.0	10.4
M16	3.6	16.0	11.9

LHstix® LH-S SOCKETS

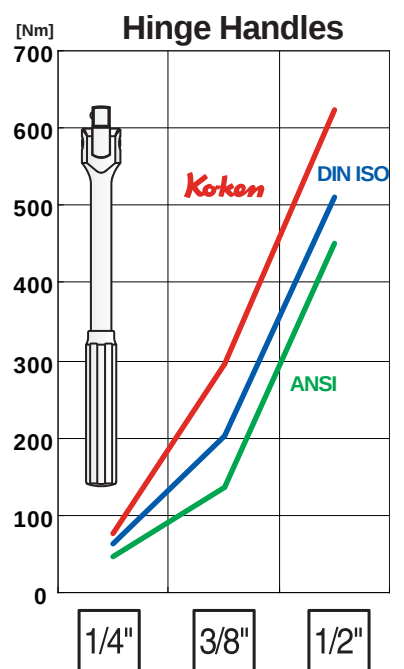
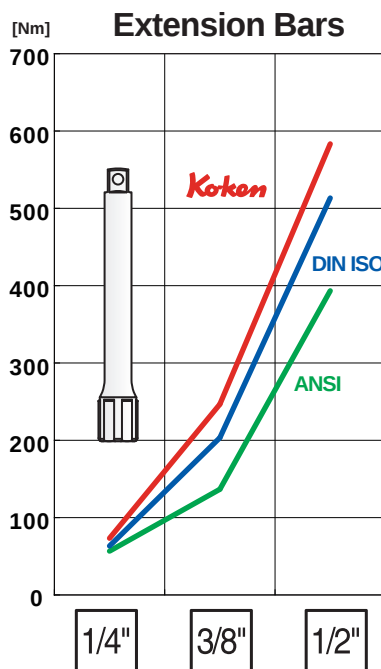
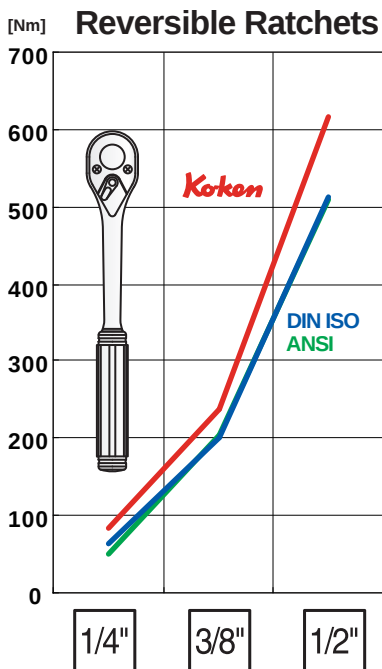
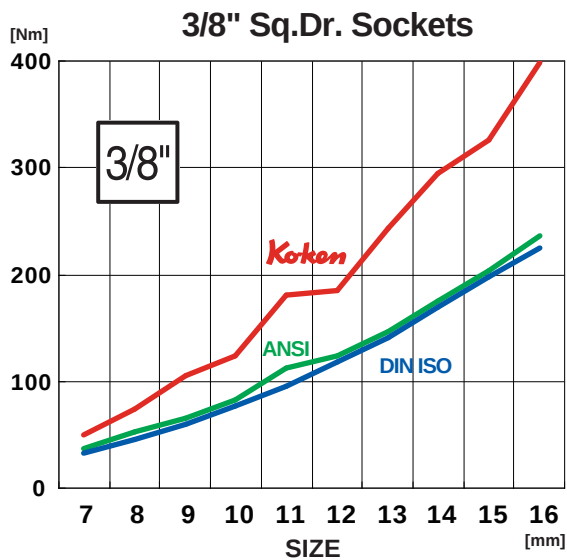
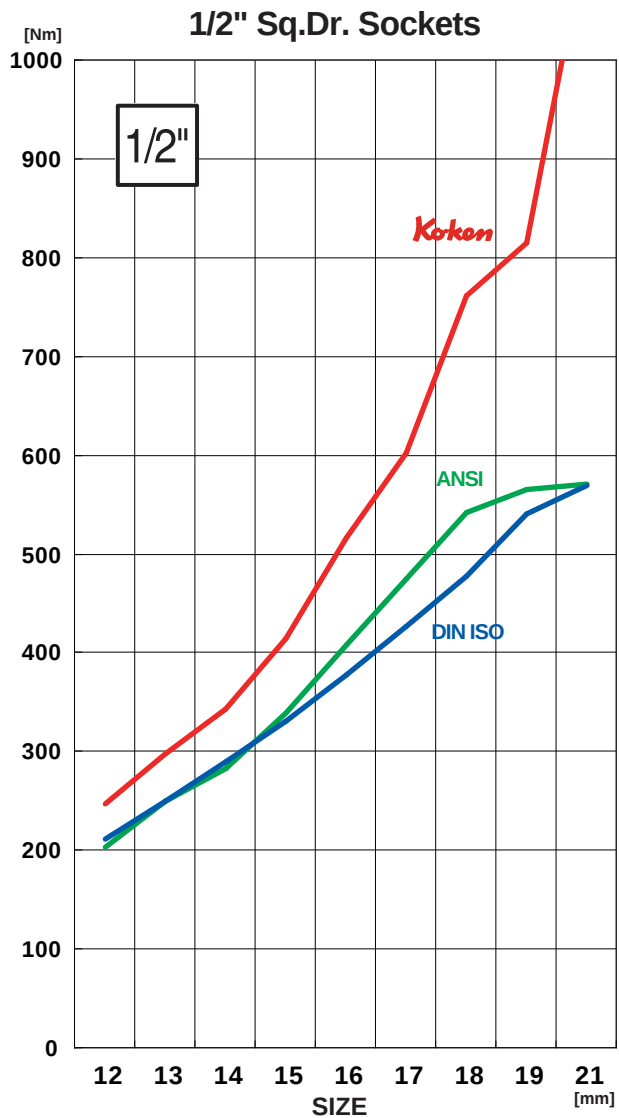
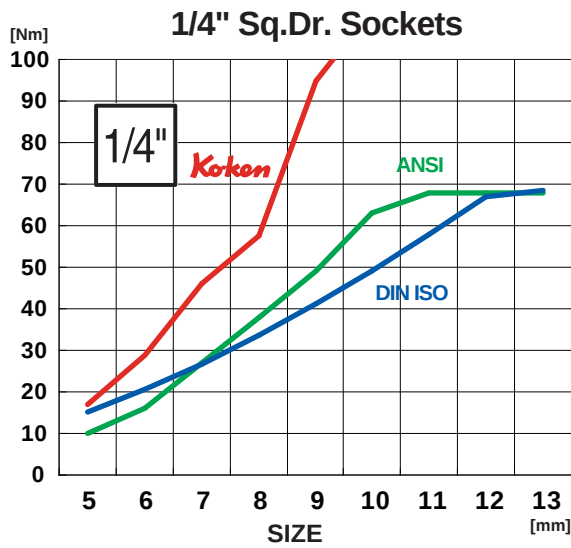
	S ₁ (mm)	S ₂ (mm)
LH3S	3.8	4.7
LH4S	4.5	6.0
LH5S	5.6	7.5
LH6S	6.8	9.0
LH7S	7.9	10.5
LH8S	9.0	12.0
LH10S	11.3	15.0
LH12S	13.6	18.0
LH14S	15.8	21.0
LH16S	18.1	24.0

TORX® is a registered trademark of **CAMCAR Innovations®**.
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Koken		Conversion Table: American Inches-Decimal Inches-Millimeter											
		0"	1"	2"	3"	4"	5"	6"	7"	8"	9"	10"	11"
in	dec.in.	Millimeter(mm)											
	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
1/16	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
1/8	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	0.71875	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
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16400M	234	18316A	304	23305M	280	2763	062
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16401M	235	18317A	304	23325	280	2768N	062
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167M	182	18888AL	253	24300M	282	3000 (PZ)	080
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168CS	185	19400A	258	2430M	055	3010A	081
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