

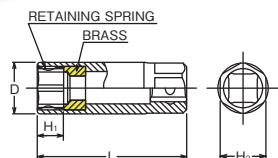
AUTOMOTIVE TOOLS
WERKZEUGE FÜR KFZ UND NUTZFAHRZEUGE
OUTILS POUR POIDS LOURDS ET VÉHICULES UTILITAIRES



3300C / 4300C



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



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

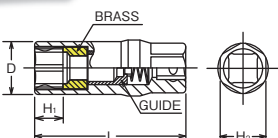
4300C (mm)		D (mm)	H ₁ (mm)	H ₂ (mm)	L (mm)	(g)	(pcs.)
16		21	13	21	70	101	10
18	1/2"	23.9	12	21	70	132	10
20.8		26.9	13.5	22	70	130	10

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

3300CB

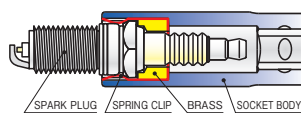


Spark Plug Socket (BMW)
Zündkerzen-Schlüssel (BMW)
Douille pour bougies (BMW)



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.



SPARK PLUG SOCKETS with SPRING CLIP

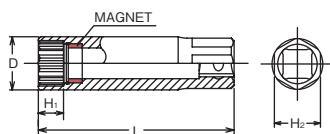
An internal brass guide holds the clips in place, which ensures perfect alignment of the spark plug into the threaded plug hole of the cylinder head, thus preventing thread damage.

The brass guide also eliminates stress loading and possible damage to the ceramic insulator of the spark plug.

3305P



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



3305P (mm)		D (mm)	H ₁ (mm)	H ₂ (mm)	L (mm)	(g)	(pcs.)
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

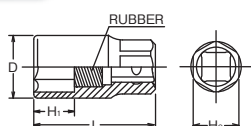


The magnet could be broken with any impacts. Please handle with care.

3300S / 4300S



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



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

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

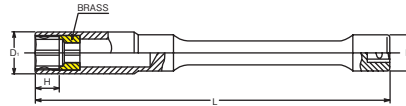
Spring clip type spark plug sockets caused deforming the clip if it would be used with shallow engagement.



SPARK PLUG SOCKET

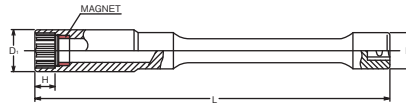
3300C-180 / -250

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



3305P-250

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



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

The magnet could be broken with any impacts. Please handle with care.

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

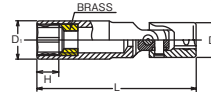
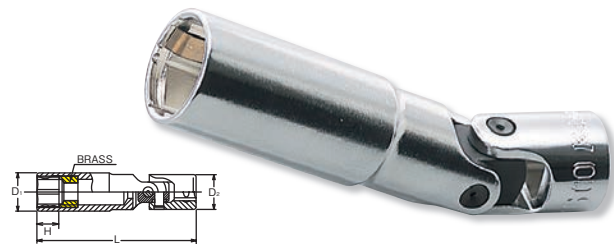
4340C (mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pcs.)
16	1/2"	21	25	13	100	220	10
20.8		26.8	25	13.5	100	250	10

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

3340C 4340C

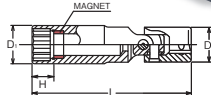
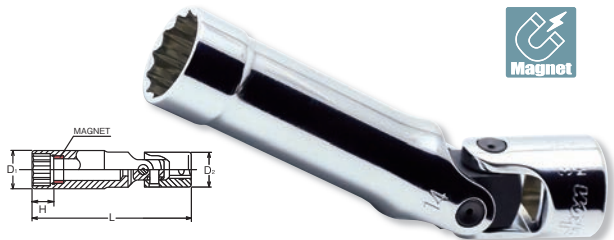


Universal Spark Plug Sockets with Spring Clips
Gelenk-Zündkerzenschlüssel mit Haltefeder
Douille articulée avec ressorts de retenue pour bougies



3345P

Universal Spark Plug Socket with Magnet, 12-point opening
Gelenk-Zündkerzensteckschlüssel mit Magnet, 12-kant Ausführung
Clé pour bougies à déclenchement articulée avec aimant, 12 pans



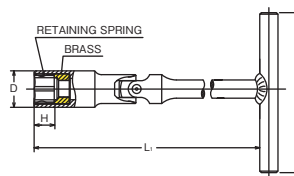
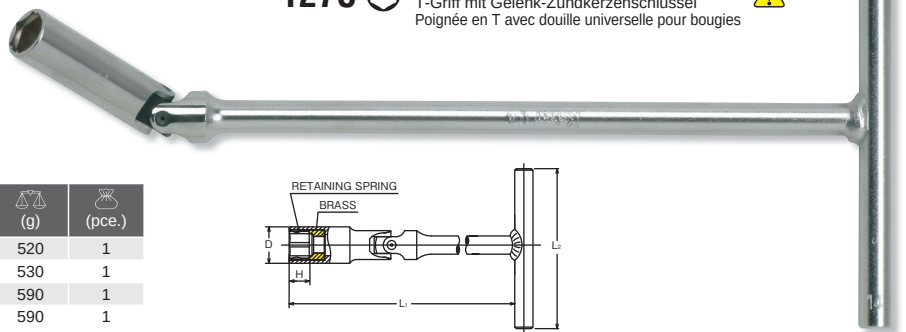
3345P (mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pcs.)
14	3/8"	19	19	8	88	110	10

The magnet could be broken with any impacts. Please handle with care.



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.

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

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

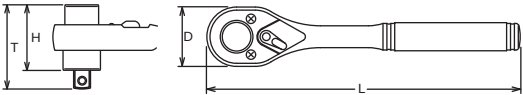


TORQUE RATCHET
The torque is set at 25Nm. When the torque is loaded higher than 25Nm, the gear slips and no increased torque is transmitted. Cylinder heads and spark plugs are protected by this mechanism.

DREHMOMENT-KNARRE
Die Knarre ist auf ein Drehmoment von 25Nm eingestellt. Ist das Drehmoment von 25Nm erreicht, springt das innere Getriebe über. Dies schützt die Zündkerzengewinde am Zylinderkopf.

CLIQUET À DÉCLENCHEMENT
Le cliquet est fixé à un torque d'une capacité maximale de 25NM. Une fois les 25NM atteints, ce mécanisme évite tout dépassement du cliquet.

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



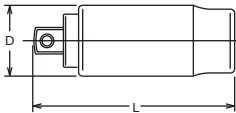
		D (mm)	T (mm)	H (mm)	L (mm)	(g)	(pce.)
3751N-25	3/8"	34	57	43	178	320	1
3751J-25	3/8"	34	57	43	178	320	1

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

3701-20Nm / -30Nm Torque Adaptors 20Nm / 30Nm
Drehmoment-Verbindungsstücke 20Nm / 30Nm
Adaptateurs dynamométriques 20Nm / 30Nm



		D (mm)	L (mm)	(g)	(pce.)
3701	3/8"	25.5	75	178	1
20Nm	3/8"	28	75	220	1
30Nm	3/8"	28	75	220	1

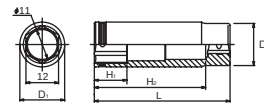


2350G-PSG (mm)		D ₁ (mm)	D ₂ (mm)	H ₁ (mm)	H ₂ (mm)	L (mm)	(g)	(pcs.)
12	1/4"	16.5	15.5	12	41	50	41	10



2350G-12PSG

NUT GRIP® Sockets for PSG-Glow Plugs
Steckschlüssel für PSG-Glühkerzen
Douille 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-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	12	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.

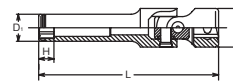
Les deux billes se trouvant dans l'ouverture de notre NUT GRIP® (6 pans) pour bougies de préchauffement, maintiennent la bougie de déclenchement dans la douille. Ceci permet l'accès dans les endroits difficilement accessibles.



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

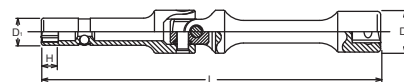
3341G-70 / -89

Universal PSG Glow Plug Socket with NUT GRIP®
Gelenksteckschlüssel für PSG-Glühkerzen mit 2fach Kugelhalterung
Douille articulée pour bougies de préchauffement PSG, avec le système de billes de retenue, double.



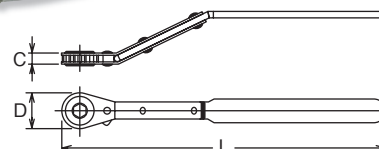
3342G-150

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



144KM

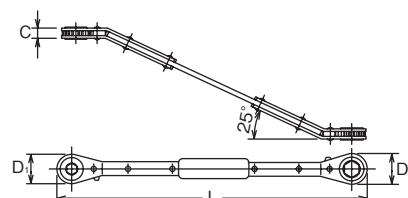
For Glow Plugs
Für Glühkerzen
Pour bougies de préchauffement



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

148KM

For Glow Plugs
Für Glühkerzen
Pour bougies de préchauffement

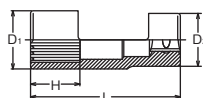
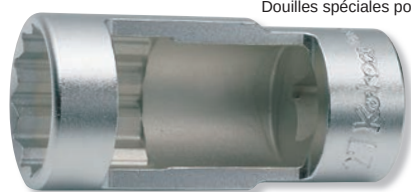


148KM (mm)	L (mm)	D ₁ (mm)	D ₂ (mm)	C (mm)	(g)	(pce.)
8S×12	245	23.6	24.6	9	187	1

SP4305M-77



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



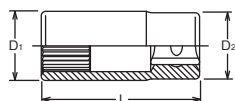
SP4305M-77 (mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pcs.)
27	1/2"	36.5	33	28	77	212	10

SP4305M.77-27

For fuel injection pump of BMW diesel cars.

4133

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



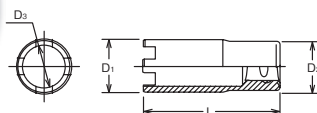
		D ₁ (mm)	D ₂ (mm)	L (mm)	(g)	(pcs.)
4133	1/2"	23.9	23	55	86	10

4133

For fuel injection pump of M.B diesel cars.

4122-72

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



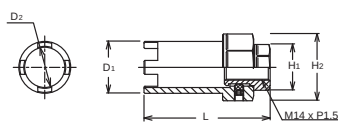
4122-72 (mm)		D ₁ (mm)	D ₂ (mm)	D ₃ (mm)	L (mm)	(g)	(pcs.)
22	1/2"	28.5	27	22	72	150	10

4122.72-22

For M.B Trucks, Holder nut of injection post.

SP4122-69

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

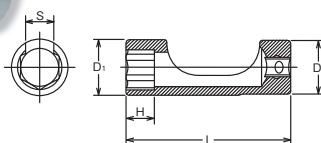


SP4122-69 (mm)	D ₁ (mm)	D ₂ (mm)	H ₁ (mm)	H ₂ (mm)	L (mm)	(g)	(pcs.)
22	28.4	22	22	32	69	185	5

3300FN



Flare Nut Sockets
Geschlitzte Steckschlüssel für Überwurfmutter
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
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



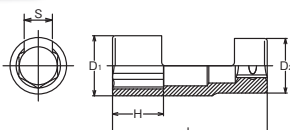
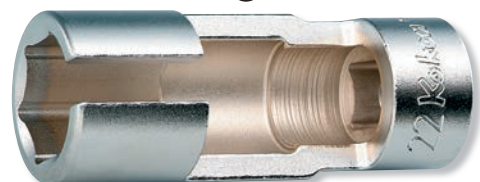
RS3300FN/8						8 Pieces Set/Rail 200mm	(g)
9, 10, 11, 13, 14, 16, 17, 19							600

SP4300M-85

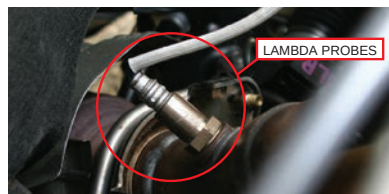


Special socket for Lambda Probes
Spezialsteckschlüssel für Lambda Sonden
Douilles spéciales pour sonde Lambda

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	1/2"	33	30	34	110	8	279	5



Socket for Lambda Probes

Open section allows for use with wire/connector.

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

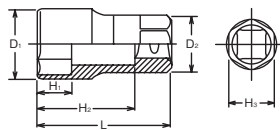
4300H (mm)		D ₁ (mm)	D ₂ (mm)	H ₁ (mm)	H ₂ (mm)	L (mm)	(g)	(pcs.)
27(8P)	1/2"	34	27	18.5	37	57	152	10

4300H(8P) series

Socket for Switches, Mercedes Benz and MAN

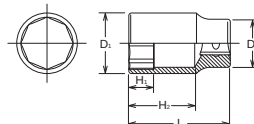
4300H

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 (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

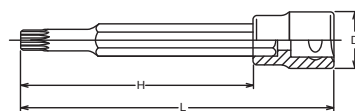


Cylinder head bolt socket for TOYOTA

4010M(12P) is Double Hex bit socket.
XZN(Triple Square) bit socket has different shape.

4010M-100 / -120 (12P)

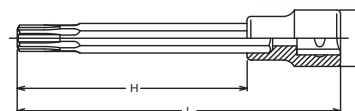
Bit Sockets for Double Inhex Screws (12-point)
Steckschlüssel für Innenzwölfkant-Schrauben
Douilles à 6-pans doubles



ST4027-140



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

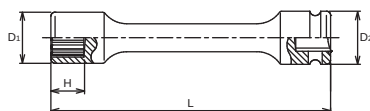


		D (mm)	H (mm)	L (mm)	(g)	(pcs.)
ST4027.140	1/2"	23	103.5	140	155	10



Head Bolt Bit Socket for VW/AUDI

ST4027-140 can not substitute with 3027, 4027-CV bit series.



13145M-150 / -200 (12P)

Extra Long Sockets
Schaftsteckschlüssel
Douilles, série allongée



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=1301C, Pin/O-Ring=1301A+B ➔ P254-255

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

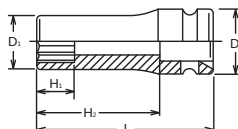
*1 C-Ring=1301C, Pin/O-Ring=1301A/B ➔ P254-255

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

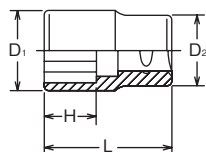
*1 C-Ring=1600C, Pin/O-Ring=1601A+B ➔ P254-255

16305M

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



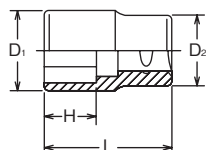
4109M Double 4-point Sockets Doppelvierkant Steckschlüssel Douilles 4-pans, doubles



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

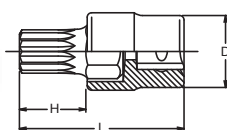
4111M 6-point Sockets 6-kant Steckschlüssel Douilles 6-pans



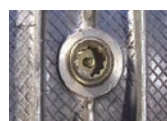
4111M (mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pcs.)
24		32	30	17	40	133	10

4111M
For Lubrication service

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

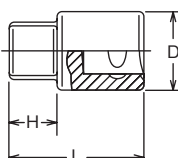


4020-60 (XZN)		D (mm)	H (mm)	L (mm)	(g)	(pcs.)
MH16		24	20	60	135	10



4020-60-MH16
Specially designed for oil drain plug on gearbox of AUDI, VW, PORSCHE.

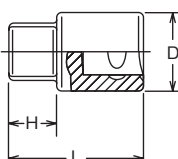
3110M / 3110A 4-point Male Sockets Öldienst-Steckschlüssel Douilles mâles 4-pans



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

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



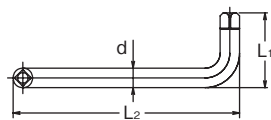
4110M (mm)		D (mm)	H (mm)	L (mm)	(g)	(pcs.)
8		24	10	32	57	10
10		24	10	32	62	10
10.5		24	10	32	64	10
12		24	10	32	64	10
13		24	10	32	66	10
13.5		24	10	32	67	10
19		25	15	37	101	10
20		26	15	37	114	10

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

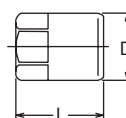


158 (mm)	L ₁ (mm)	L ₂ (mm)	d (mm)	(g)	(pcs.)
8S×10S	63	230	13	319	1



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



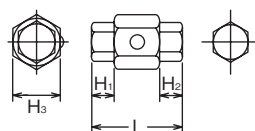
4202	7 Pieces Set/△=426g
METAL CASE: W190×H59×T45mm	
Sockets	
	106 Drain Plug Keys 8S×10S, 8H×3/8H, 10H×11H, 12H×13H, 14H×17H, 19H
	4102 Drain Plug Key Adaptor

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



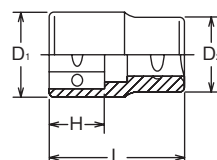
106 (mm)	H ₁ (mm)	H ₂ (mm)	H ₃ (mm)	L (mm)	(g)	(pcs.)
8S×10S	8	8	17	32	40	10
8H×3/8H	8	8	17	32	38	10
10H×11H	8	8	17	32	42	10
12H×13H	8	8	17	32	47	10
14H×17H	8	8	17	32	55	10
19H	-	8	17	24	49	10

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



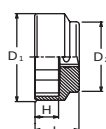
4102 (mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pcs.)
17	1/2"	25	24	16	40	82	10

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
Douille extra courte pour filtre à huile



1206 Push and Pull-Ratchet Hub Knarre Clé à cliquet de levage

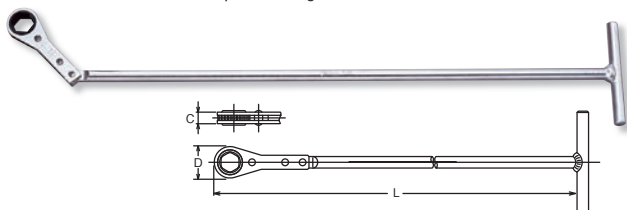


1206 3 Pieces Set/△=320g

CARDBOARD BOX

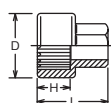
Sockets	Accessory
150.14H Sockets 12, 14	154K-14

154K Push and Pull-Ratchets Hub Knarre Clé à cliquet de levage



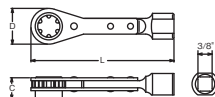
154K (mm)	L (mm)	D (mm)	C (mm)	(g)	(pcs.)
14	480	24.6	9	280	1

150-14H Socket, For 154K Einsätze für 154K Douilles pour 154K

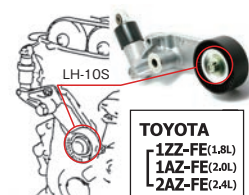


150-14H (mm)	D (mm)	H (mm)	L (mm)	(g)	(pcs.)
10	16	5	17	16	10
12	17.3	5	18	14	10
14	19.2	7	21	17	10

145LH3/8F Belt Tension Pulley Wrench Knarren-Ringschlüssel für Riemen-Spannrolle Clé multicrân à cliquet pour galet-tendeur



145LH3/8F (LH-S)	L (mm)	D (mm)	C (mm)	(g)	(pcs.)
10S	100	25	15.5	90	10



Belt Tension Pulley Wrench

For LH-10S bolt on TOYOTA engines 1ZZ (1.8L), 1AZ (2.0L) and 2AZ (2.4L), belt tension pulley.

This item has less strength due to the special design.

4282 1/2" Sq.Dr. Generator Service Set 1/2" Lichtmaschinen-Service Satz Jeu 1/2" pour l'entretien des générateurs électriques



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.

1210E Door Hinge Wrench Set Montagesatz für Kfz-Türscharniere Jeux d'outils spéciaux pour charnières de portes



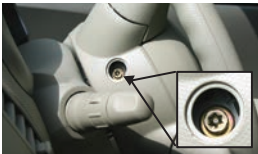
1210E 11 Pieces Set/△=460g	
PLASTIC BAG	
Sockets	Accessory
179B.12H Sockets 10, 12, 13	145KD-12
179B.12H XZN Bits M8, M10, M12	
179B.12H TORX® Bits T40, T45, T50	
179B.12H Hex Bit 8	

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.

⚠ Tamper Resistant TORX® Bit
Sockets have less strength.

3247 Bit Socket Set Schraubendreher-Steckschlüssel Satz Jeu de douilles de vissage



3300M/4-L120 4 Pieces Set/△=477g

PLASTIC BAG

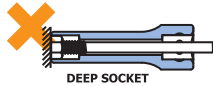
Sockets

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



BUMPER BOLT

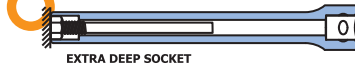
Extra Deep Socket
Extra deep socket can be used to fasten or loosen longer bolts such as Bumper bolt and Door hinge etc.



DEEP SOCKET



DOOR HINGE



EXTRA DEEP SOCKET

3300M/4-L120 Socket Set Steckschlüssel Satz Jeu de clés à douille



3350M/2-L120 2 Pieces Set/△=230g

PLASTIC BAG

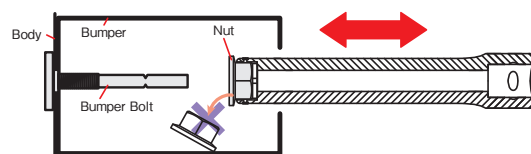
Sockets

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



NUT GRIP®

Nut Grip Extra Deep Socket

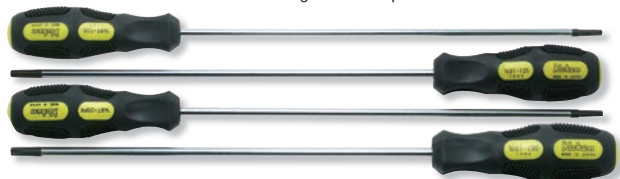


3350M/2-L120 Socket Set Steckschlüssel Satz Jeu de clés à douille



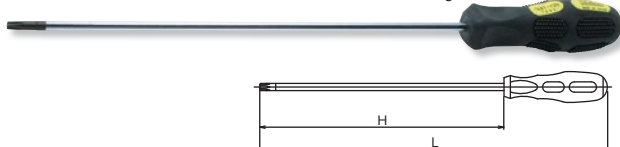
1212

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



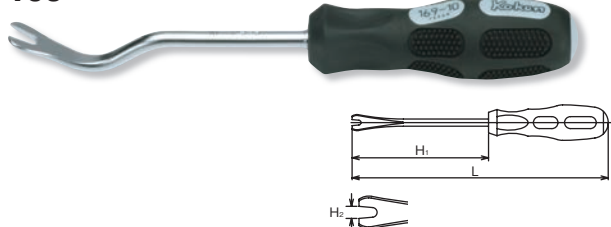
168T (250)

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 Screw Screwdriver

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

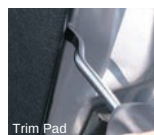
2 Pieces Set/⚖️=200g

PLASTIC BAG

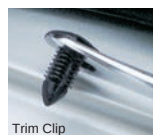
Clip Handles

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

Clip Handle

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



Window Molding Remover

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

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

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 E20N

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

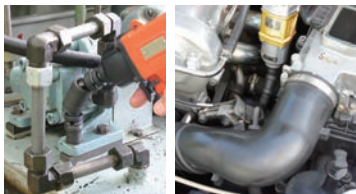
*1 C-Ring=1301C, Pin/O-Ring=1301A/B → P254-255

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

*1 C-Ring=1401C, Pin/O-Ring=1401A/B → P254-255
For Land Rover Prop Shaft

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

*1 C-Ring=1301C, Pin/O-Ring=1301A/B
*2 C-Ring=1401C, Pin/O-Ring=1401A/B



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

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	*2
32		44.5	30	32	63	85	542	*2
36		49.5	30	36	61	85	635	*2

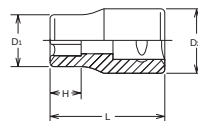
*2 C-Ring=1402C, Pin/O-Ring=1402A/B → P254-255



4425-N



TORX® Sockets
TORX® Steckschlüssel
Douilles TORX®



RS4425/6-N



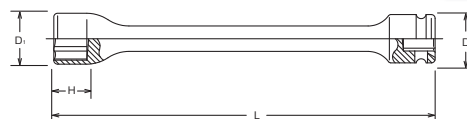
Socket Set on Rail
Steckschlüsselsatz auf Schiene
Jeu de douilles sur rail



13145A-150 14145A-150

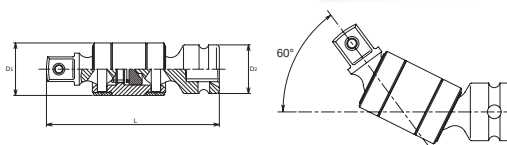


Extra Long Socket
Schaftsteckschlüssel
Douilles, série allongée



13772-P 14772-P

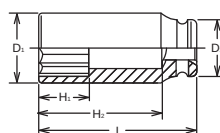
Universal Double Joint
Doppelgelenk-Einsatz
Joint articulé double



14305M



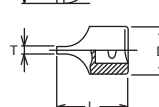
12-point Deep Sockets
12-kant Steckschlüssel, lang
Douilles longues 12-pans



4101 6101

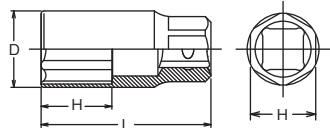


Sockets for Slotted Heads
Steckschlüssel für Schlitzschrauben
Douilles tournevis pour vis à fente



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

4300M (L60) Wheel Nut Sockets (Long)
Radmuttern-Steckschlüssel, extra lang
Douilles extra longues pour écrous de roue



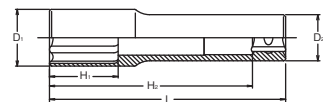
4300M(L60) (mm)		D (mm)	H (mm)	L (mm)	H (mm)	 (g)	 (pcs.)
17		23.6	25	60	21	98	10
19		25.1	25	60	21	100	10
21		27.1	25	60	21	102	10



Wheel Nut Sockets

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

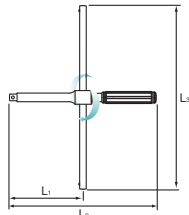
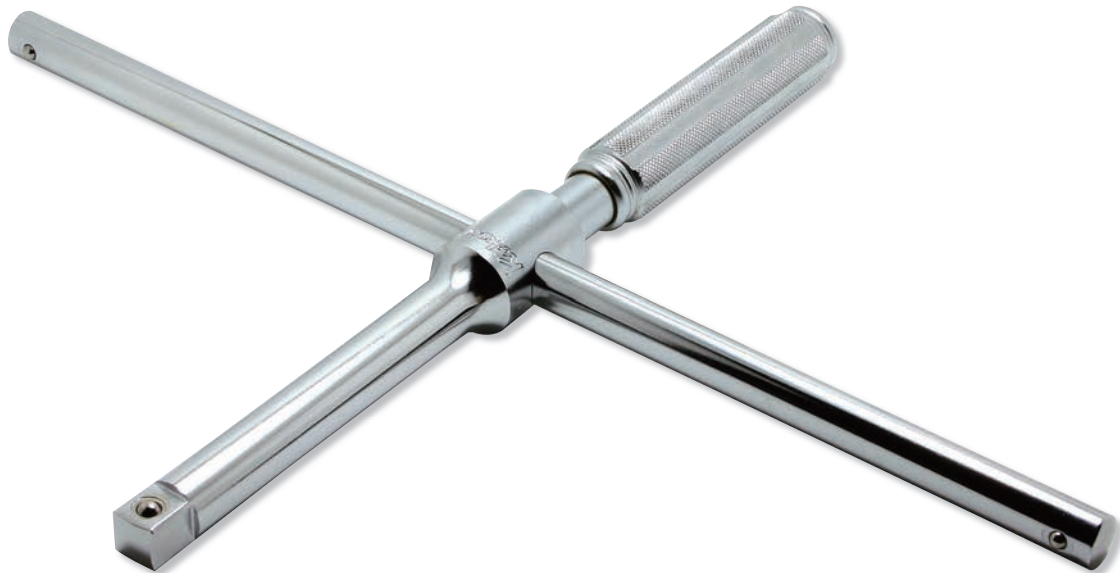
4300M (L110) Wheel Nut Sockets (Long)
Radmuttern-Steckschlüssel, extra lang
Douilles extra longues pour écrous de roue



4300M(L110) (mm)		D1 (mm)	D2 (mm)	H1 (mm)	H2 (mm)	L (mm)	 (g)	 (pcs.)
17		23	22	32	93	110	155	5
19		25.8	22	32	93	110	170	5
21		26.8	22	32	93	110	165	5

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

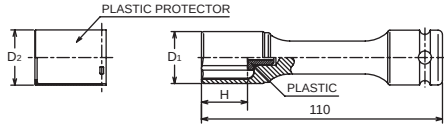
4711X Spinning cross wrench
T-Griff für die Radmuttermontage
Poignée coulissante pour montage des écrous à roue



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

14145PM-110 (mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	Shaft Colour	(g)	(pcs.)	
17	1/2"	23.7	25.2	21	Blue	208	5	*1
19		25.7	27.2	23	Red	219	5	*1
21		27.5	29	25	Yellow	226	5	*1
22		29	30.5	26	White	238	5	*1

*1 C-Ring=1401C, Pin/O-Ring=1401A/B ➔ P254-255



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.**

14201M 3 Pieces Set/△=690g

CARDBOARD BOX:W125×H95×T34mm

Sockets

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



WHEEL NUT SOCKET

14145PM-110

Wheel Nut Sockets Set
Radmuttern Steckschlüssel im Satz
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 Radmuttern zu erreichen.

- Dieser Steckschlüssel ist ideal für Radmuttern 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 Plastikanschlag 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.

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

14201M

Wheel Nut Sockets
Radmuttern Steckschlüssel
Douilles pour écrous de roue



280PM

Adaptor Socket for Low Profile Wheel Nut
Adapter Steckschlüssel für kurze Radmuttern
Adapteur pour des écrous de roue courts



280PM (mm)	D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	H (mm)	Shaft Colour	(g)	(pcs.)
19	25.7	27.2	13	52	19	Red	150	5
21	27.5	29	13	55	21	Yellow	180	5



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.

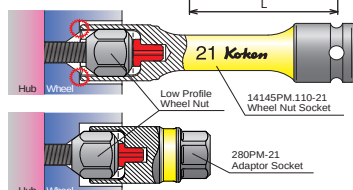
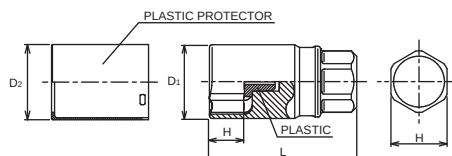
Der Kunststoffanschlag im inneren des Werkzeugs schützt zusätzlich die Radmutter.

Die Farbmarkierung macht die Identifikation des Werkzeugs einfach.

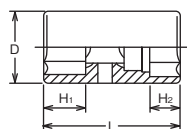
La protection plastifiée amovible, protège la jante et évite des endommagements sur des surfaces délicates.

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 Radmuttern Steckschlüssel, doppelseitig Douilles pour écrous de roue à ouvertures doubles



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		31	17.5	13	57	177	10
19×22		31	17.5	15	57	187	10

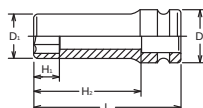
14218M Wheel Nut Sockets, Double Ended with Extension Bar Radmuttern Steckschlüssel, doppelseitig, mit Verlängerung Douille pour écrous de roue à ouvertures double plus rallonge



14218M	2 Pieces Set/△=360g
CARDBOARD BOX	
Sockets	Accessory
 14118PM 19×21	 14760ST-B

Interchangeable Wheel Nut Socket of 19mm and 21mm.

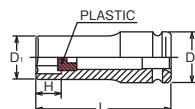
AN14300 Impact Sockets, Aluminium alloyed, for aluminium wheel nuts Aluminium-legierte Impact Steckschlüssel für Aluminium Radmuttern Douilles Impact en aluminium pour écrous de roue aluminium



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		28.2	30	19	61	80	89	10	*1
21		30.7	30	21	61	80	93	10	*1

*1 C-Ring=1402C, Pin/O-Ring=1402A/B → P254-255

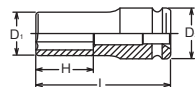
14113J Impact Sockets with Plastic Stops for Hub Cap Screws Impact Steckschlüssel mit Plastik-Anschlag für Zier-Radmuttern Douilles Impact avec arrêt en plastique, pour écrous de roue décoratifs



14113J (mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pcs.)	
17		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=1402C, Pin/O-Ring=1402A/B → P254-255

14113M For Hub Cap Screws Für Zier-Radmuttern Pour écrous de roue décoratifs

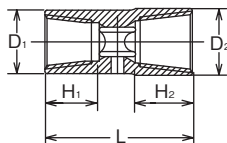


14113M (mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pcs.)	
17		25.7	30	34	80	230	10	*1
19		28.2	30	38	80	262	10	*1
21		30.7	30	42	80	285	10	*1

*1 C-Ring=1402C, Pin/O-Ring=1402A/B → P254-255

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



14124/3 3 Pieces Set/△=580g
CARDBOARD BOX:W125×H91×T43mm

Sockets	Accessory
14124 21×24.5 26×27.5	14760-75B



14124/3 ○ Lock Nut Busters (Double Ended) in Set Felgenschloss-Knacker, doppelseitig im Satz Jeu de douilles taraudées à ouvertures doubles pour dévissier les écrous ou goujons de roue antivols.

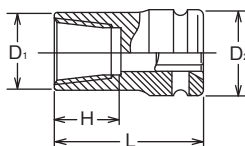


14124 (mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	 (g)	 (pcs.)	
17	1/2"	20.5	25	15	50	83	10	*1
18		21	25	15	50	83	10	*1
18.5		23	25	15	50	95	10	*1
19		25	30	20.5	50	140	10	*2
21		28	30	20.5	50	153	10	*2
24.5		29.5	30	23	50	138	10	*2
26		31.5	30	23	50	147	10	*2
27.5		35	30	23	50	181	10	*2

*1 C-Ring=1401C, Pin/O-Ring=1401A/B
*2 C-Ring=1402C, Pin/O-Ring=1402A/B

→P254-255

14124 ○ Lock Nut Busters Felgenschloss-Knacker Douilles taraudées pour dévissier les écrous ou goujons de roue antivols.

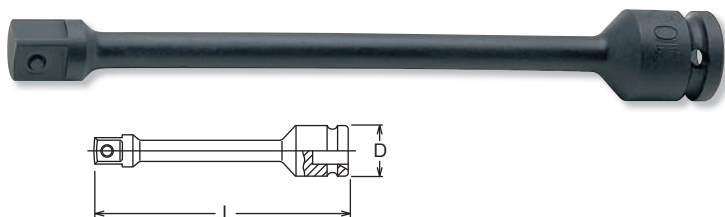


RS14124/7	7 Pieces Set/Rail 250mm	 (g)
18, 18.5, 19, 21, 24.5, 26, 27.5		980

RS14124/7 ○ Socket Set on Rail Steckschlüsselsatz auf Schiene Jeu de douilles sur rail



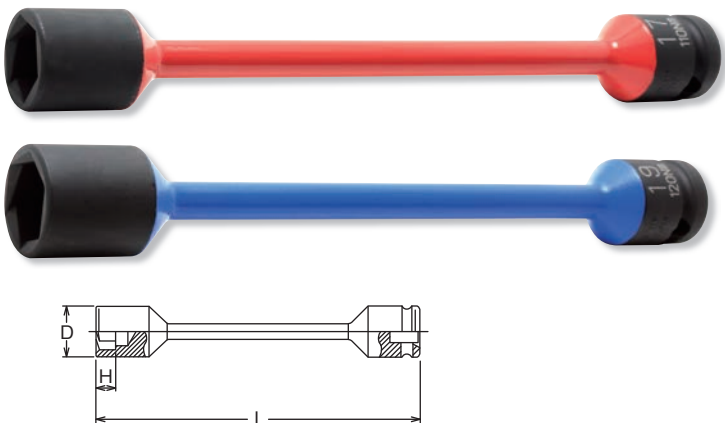
14112-P Torsion Extension Bars (for tightening only) Torsionsstab-Verlängerungen (nur zum Anziehen) Barres de torsion (pour serrage seulement)



14112-P (Nm)		D (mm)	L (mm)	 (g)	 (pcs.)	
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=1401C, Pin/O-Ring=1401A/B ➔ P254-255

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



14101MP (mm×Nm)		D (mm)	H (mm)	L (mm)	Shaft Colour	 (pcs.)	
17× 95Nm	1/2"	25.7	12	214	Yellow	10	*1
17×110Nm		25.7	12	204	Red	10	*1
17×120Nm		25.7	12	200	Green	10	*1
19× 90Nm		28.2	13	259	Yellow	10	*1
19×100Nm		28.2	13	233	White	10	*1
19×120Nm		28.2	13	203	Blue	10	*1
19×140Nm		28.2	13	199	Orange	10	*1
21×100Nm		30.7	14	214	Black	10	*1
21×120Nm		30.7	14	203	Brown	10	*1
22×150Nm		30.7	14	220	Purple	10	*1

*1 C-Ring=1401C, Pin/O-Ring=1401A/B ➔ P254-255

 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-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

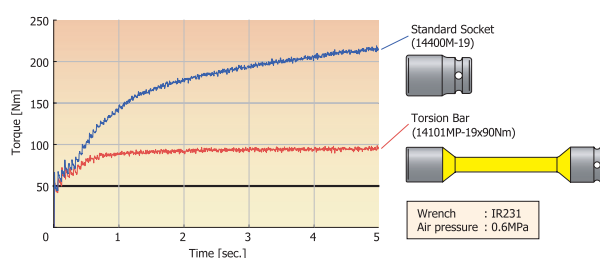
- Designed for tightening wheel nuts with an impact wrench.
- Prevent the excessive torque road.
- Colour coded shafts make size identification easy.

Torsionsstäbe

- Zur Montage von Radmutter mit dem Schlagschrauber.
- Schützt die Radmutter vor zu hohen Anzugsmomenten.
- Die Farbmarkierung erleichtert das Erkennen des passenden Werkzeugs.

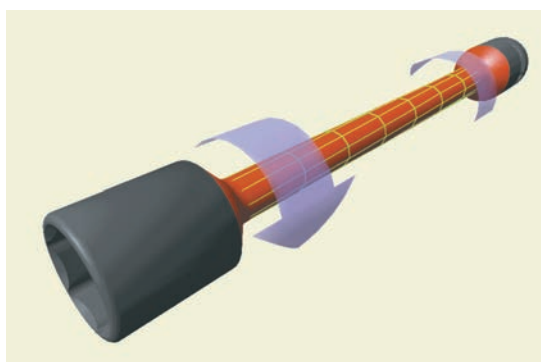
Barres de torsion

- Pour le montage d'écrous de roue avec visseuse à chocs.
- Protège l'écrou d'un serrage à couple excessif.
- La colorisation des barres facilite l'identification des tailles.



14101M (mm×Nm)		D (mm)	H (mm)	L (mm)	(g)	(pce.)	
14× 95Nm		22	11	208	230	1	*1
15×110Nm		23.2	11	201	230	1	*1
17× 60Nm		25.7	12	216	227	1	*1
17× 75Nm		25.7	12	228	240	1	*1
17× 95Nm		25.7	12	214	256	1	*1
17×110Nm		25.7	12	204	285	1	*1
17×120Nm		25.7	12	200	284	1	*1
19× 60Nm		28.2	13	219	237	1	*1
19× 90Nm		28.2	13	259	275	1	*1
19×110Nm		28.2	13	214	278	1	*1
19×120Nm		28.2	13	203	297	1	*1
19×135Nm		28.2	13	206	339	1	*1
19×170Nm		28.2	13	190	332	1	*1
21×100Nm		30.7	14	214	288	1	*1
21×120Nm		30.7	14	203	288	1	*1
22×160Nm		32	15	209	385	1	*1

*1 C-Ring=1401C, Pin/O-Ring=1401A/B → P254-255



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.

14101M



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



How to use Torsion Bar:

1. Use with a 1/2" Sq. Dr. Pneumatic impact wrench.
2. Set air pressure 0.6MPa, and set impact wrench dial to Medium range.
3. Choose a suitable Torsion bar according to wheel nut size and indicated tightening torque.
4. Attach the torsion bar to impact wrench and apply load.
5. Check the actual tightening torque value with torque wrench.
6. Adjust air pressure or torque value according to the results of check 5.
7. Tight other wheel nut in diagonal order.

Anwendung der Torsionsstäbe:

1. Verwendung mit Druckluft-Schlagschraubern mit 1/2" Anschlussvierkant.
2. Stellen Sie den Druck auf 6 Bar ein, und wählen Sie die mittlere Einstellung am Schlagschrauber.
3. Wählen Sie den passenden Torsionsstab (Kombination aus Schlüsselweite der Radschraube und Drehmoment) aus, und befestigen ihn am Gerät.
4. Ziehen Sie nun die Radmutter an, bis sich der Torsionsstab nicht weiter dreht.
5. Überprüfen Sie das Anzugsmoment mit dem Drehmomentschlüssel.
6. Passen Sie den Luftdruck bzw. die Einstellung am Schrauber dem Resultat der Drehmomentüberprüfung (Punkt 5.) an.
7. Ziehen Sie nun alle Radschrauben diagonal an.

Conseils d'utilisation:

1. A utiliser avec une visseuse à chocs pneumatique en carré entraînant 1/2".
2. Choisissez comme pression d'air 0.6MPa et ensuite la position moyenne de la visseuse.
3. Prenez une barre de torsion correspondant à l'ouverture du 6-pans de la vis ainsi qu'au couple nécessaire.
4. Serrez la vis jusqu'à l'arrêt de la barre de torsion.
5. Contrôlez le couple avec une clé dynamométrique.
6. Ajustez pression et/ou couple selon le résultat du contrôle sous 5.
7. Serrez toutes les vis en diagonale.



16101M



18101M



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



16101M (mm×Nm)		D (mm)	H (mm)	L (mm)	(g)	(pce.)	
24×180Nm		38.8	24	235	850	1	*1
27×450Nm		42.5	27	280	1236	1	*1
32×600Nm		48.8	32	280	1370	1	*1
33×600Nm		50	33	280	1370	1	*1

*1 C-Ring=1600C, Pin/O-Ring=1601A/B → P254-255



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.

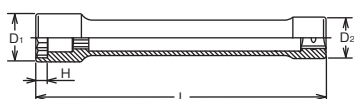
Etant donné que le couple peut varier selon modèle, la capacité ou l'état de la clé à choc, le contrôle de la combinaison clé à choc/barre par clé dynamométrique est indispensable.

18101M (mm×Nm)		D (mm)	H (mm)	L (mm)	(g)	(pce.)	
24×350Nm		43.5	24	300	1380	1	*1
27×350Nm		47	27	300	1401	1	*1
27×450Nm		47	27	300	1579	1	*1
30×500Nm		51	30	300	1563	1	*1
32×450Nm		53.5	32	300	1600	1	*1
32×550Nm		53.5	32	300	1602	1	*1
32×600Nm		53.5	32	300	1602	1	*1
32×700Nm		51.5	32	300	1630	1	*1
33×550Nm		55	33	300	1638	1	*1
33×600Nm		55	33	300	1638	1	*1
36×600Nm		58.5	36	300	1718	1	*1

*1 C-Ring=1801C, Pin/O-Ring=1801A/B → P254-255

6102M-400 8102M-400

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



6102M-400 (mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pce.)
41W×21W		58	40	14	400	1880	1
32	3/4"	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		58	49.9	14	400	2610	1
32	1"	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.



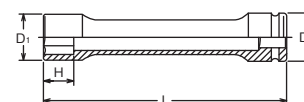
Combination type
41W×21W

Extra long Socket for wheel nut

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



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



16102M-270 (mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pce.)	
24		38.8	44	24	270	1034	1	*1
27		42.5	44	27	270	1088	1	*1
30		46.3	44	30	270	1144	1	*1
32	3/4"	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=1600C, Pin/O-Ring=1601A/B ➔ P254-255

16102M-400 (mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pce.)	
24		38.8	44	24	400	1430	1	*1
27		42.5	44	27	400	1460	1	*1
30	3/4"	46.3	44	30	400	1510	1	*1
32		48.8	44	32	400	1530	1	*1
33		50	44	32	400	1530	1	*1
36		53.8	44	32	400	2180	1	*1

*1 C-Ring=1600C, Pin/O-Ring=1601A/B ➔ P254-255

18102M-270 (mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pce.)	
23		37.3	54	23	270	1627	1	*1
24		38.5	54	24	270	1628	1	*1
26		41	54	26	270	1667	1	*1
27		42.3	54	27	270	1680	1	*1
29		44.8	54	29	270	1680	1	*1
30	1"	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=1801C, Pin/O-Ring=1801A/B ➔ P254-255

18102M-400 (mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pce.)	
23		37.3	54	23	400	1865	1	*1
24		38.5	54	24	400	1869	1	*1
26		41	54	26	400	1925	1	*1
27		42.3	54	27	400	2272	1	*1
29		44.8	54	29	400	2278	1	*1
30	1"	46	54	30	400	2266	1	*1
32		48.5	54	32	400	2322	1	*1
33		49.8	54	32	400	2320	1	*1
34		51	54	32	400	2341	1	*1
36		53.5	54	32	400	2442	1	*1
38		56	54	32	400	2550	1	*1

*1 C-Ring=1801C, Pin/O-Ring=1801A/B ➔ P254-255

PW6 (mm×mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pcs.)	
32×17	3/4"	47	44	12	75	633	2	*1
35×17		50	44	13	75	673	2	*1
38×20		55	44	14	75	708	2	*1
41×19		58	44	14	80	840	2	*1
41×20		58	44	14	80	840	2	*1
41×21		58	44	14	80	831	2	*1

*1 C-Ring=1600C, Pin/O-Ring=1601A/B → P254-255

PW8 (mm×mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pcs.)	
35×17	1"	50	54	13	83	935	2	*1
38×20		55	54	14	83	1038	2	*1
41×19		58	54	14	87	1100	2	*1
41×20		58	54	14	87	1096	2	*1
41×21		58	54	14	87	1089	2	*1

*1 C-Ring=1801C, Pin/O-Ring=1801A/B → P254-255

SIZE	VEHICLE	SIZE	VEHICLE
32 × 17	TOYOTA (~2t)	41 × 19	MAZDA (3~4t)
35 × 17	NISSAN (~3t) MITSUBISHI (~1t) MAZDA (~2t) ISUZU (~3.5t)	41 × 20	TOYOTA (2t~) DAIHATSU (2~3.5t) HINO (2~3.5t)
38 × 20	MITSUBISHI (2~3.5t)	41 × 21	NISSAN (4t~) MITSUBISHI (2t~) ISUZU (4t~) HINO (4t~)

PW8P/4	4 Pieces Set/△=4,250g
CARDBOARD BOX:W240×H95×T70mm	
Sockets	
PW8P Impact Rear Wheel Nut Sockets	
35×17, 38×20, 41×19, 41×21	

PW8P (mm×mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	Shaft Colour	(pcs.)	
35×17	1"	50	54	13	83	935		5	*1
38×20		55	54	14	83	1038		5	*1
41×19		58	54	14	87	1100		5	*1
41×21		58	54	14	87	1089		5	*1

*1 C-Ring=1801C, Pin/O-Ring=1801A/B → P254-255

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=1801C, Pin/O-Ring=1801A/B → P254-255

PS6 (mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pcs.)	
17	3/4"	40	44	19	53	433	5	*1
19		40	44	19	53	419	5	*1
20		44	44	21	55	483	5	*1
21		44	44	23	57	491	5	*1

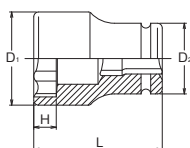
*1 C-Ring=1600C, Pin/O-Ring=1601A/B → P254-255

PS8 (mm)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pcs.)	
17	1"	40	54	19	60	621	2	*1
19		43	54	19	60	648	2	*1
20		45	54	21	62	687	2	*1
21		45	54	23	64	696	2	*1

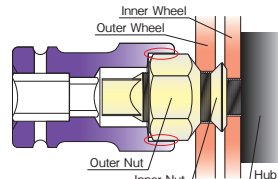
*1 C-Ring=1801C, Pin/O-Ring=1801A/B → P254-255

PW6  Rear Wheel Nut Sockets
Steckschlüssel für Hinterradmuttern
Douilles spéciales pour écrous de roue arrière

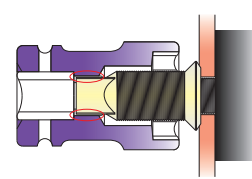
PW8  Rear Wheel Nut Sockets



Tightening / Loosening Outer Nut



Tightening / Loosening Inner Nut

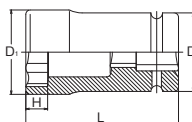


PW8P/4  Socket set of Rear Wheel Nut Sockets
Steckschlüssel für Hinterradmuttern, im Satz
Jeu de douilles spéciales pour écrous de roue arrière

PW8P  Socket set of Rear Wheel Nut Sockets

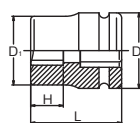


PW8L  Rear Wheel Nut Socket (long)
Steckschlüssel für Hinterradmuttern, lang
Douilles spéciales pour écrous de roue arrière longue



PS6  Rear Wheel Nut Sockets
Steckschlüssel für Hinterradmuttern
Douilles spéciales pour écrous de roue arrière

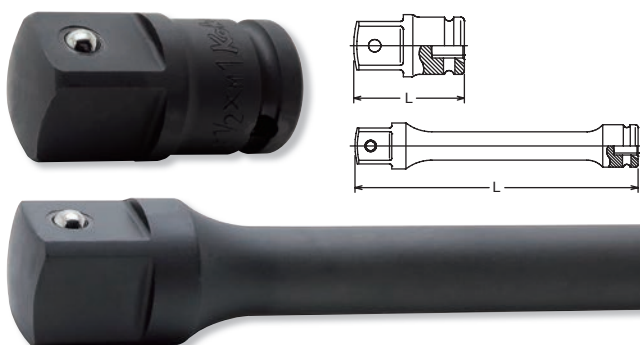
PS8  Rear Wheel Nut Sockets



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=1402C, Pin/O-Ring=1402A/B → P254-255

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



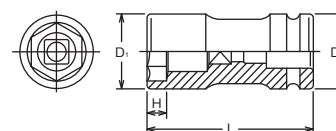
14466A-B / 14488A-B

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.



Socket is not completely locked with the Ball-type adaptor connection. Please beware of accidental socket release.



16316M / 16316A 18316M / 18316A



Rear Wheel Nut Sockets
Steckschlüssel für Hinterradmuttern
Douilles spéciales pour écrous de roué 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=1600C, Pin/O-Ring=1601A/B → P254-255

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=1801C, Pin/O-Ring=1801A/B → P254-255

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=1600C, Pin/O-Ring=1601A/B → P254-255

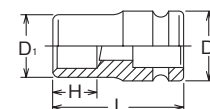
18316A (inch×inch)		D ₁ (mm)	D ₂ (mm)	H (mm)	L (mm)	(g)	(pce.)	
1.1/2×13/16	1"	59	54	13	108	1120	1	*1

*1 C-Ring=1801C, Pin/O-Ring=1801A/B → P254-255

16317M / 16317A 18317M / 18317A



Rear Wheel Nut Sockets
Steckschlüssel für Hinterradmuttern
Douilles spéciales pour écrous de roué 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=1600C, Pin/O-Ring=1601A/B → P254-255

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=1600C, Pin/O-Ring=1601A/B → P254-255

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=1801C, Pin/O-Ring=1801A/B → P254-255

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=1801C, Pin/O-Ring=1801A/B → P254-255