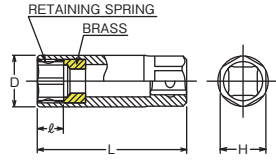



**AUTOMOTIVE TOOLS**  
**WERKZEUGE FÜR KFZ UND NUTZFAHRZEUGE**  
**OUTILS POUR POIDS LOURDS ET VÉHICULES UTILITAIRES**




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

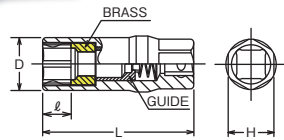
**3300C / 4300C**  Spark Plug Sockets with Spring Clips  
 Zündkerzen-Schlüssel mit Haltefeder  
 Douille avec ressorts de retenue pour bougies



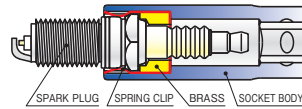
3300C (mm)		D (mm)	ℓ (mm)	L (mm)	H (mm)	(g)	(pcs.)
13	3/8"	17.5	11	70	17	66	10
14		19	11	70	17	82	10
16		20.5	13	70	17	91	10
18		23.9	12	70	21	140	10
20.8		26.9	13.5	70	22	132	10

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

**3300CB**  Spark Plug Socket (BMW)  
 Zündkerzen-Schlüssel (BMW)  
 Douille pour bougies (BMW)



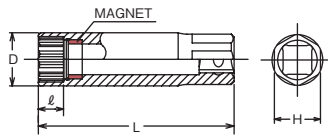
3300CB (mm)		D (mm)	ℓ (mm)	L (mm)	H (mm)	(g)	(pcs.)
16	3/8"	22.8	13	65	19	118	10




**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 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

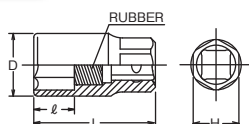



3305P (mm)		D (mm)	ℓ (mm)	L (mm)	H (mm)	(g)	(pcs.)
14	3/8"	19	8	70	17	87	10
16		20.5	8	70	17	100	10


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



**3300S / 4300S**  Spark Plug Sockets with Rubber  
 Zündkerzen-Schlüssel mit Gummieinsatz  
 Douille pour bougies avec caoutchouc



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

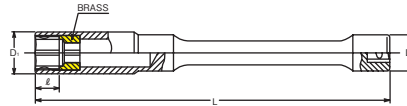
4300S (mm)		D (mm)	ℓ (mm)	L (mm)	H (mm)	(g)	(pcs.)
16	1/2"	21	19	70	21	100	10
18		23.9	21	70	21	130	10
20.8		26.9	27	70	22	135	10

3300C-180 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (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

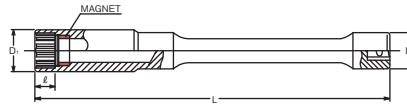
3300C-250 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	(g)	(pcs.)
14	3/8"	19	18	11	250	271	5
16		20.5	18	13	250	290	5
20.8		26.9	18	13.5	250	340	5



**3300C-180/-250** Spark Plug Sockets with Spring Clips  
Zündkerzen-Schlüssel mit Haltefedern  
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



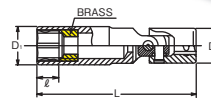
3305P-250 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	(g)	(pcs.)
14	3/8"	19	18	8	250	250	5

3340C (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (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 <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	(g)	(pcs.)
16	1/2"	21	25	13	100	220	10
20.8		26.8	25	13.5	100	250	10

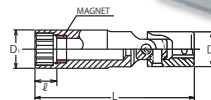
**3340C / 4340C**

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

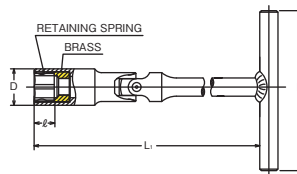
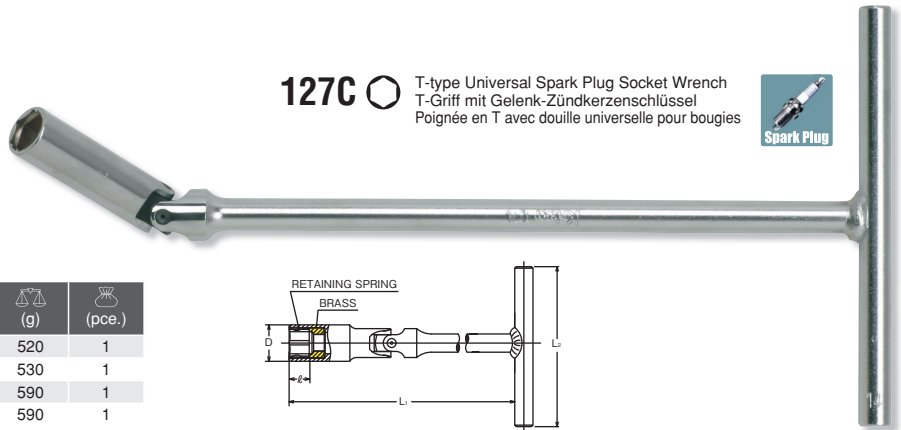


3345P (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	(g)	(pcs.)
14	3/8"	19	19	8	88	110	10

**3345P** Universal Spark Plug Socket with Magnet, 12-point opening  
Gelenk-Zündkerzensteckschlüssel mit Magnet, 12-kant Ausführung  
Clé pour bougies à déclenchement articulée avec aimant, 12 pans



**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)	ℓ (mm)	L <sub>1</sub> (mm)	L <sub>2</sub> (mm)	(g)	(pcs.)
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



Z-SERIES  
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 TITANIUM  
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 IMPACT  
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 INDUSTRIAL  
 AUTOMOTIVE  
 MOTORCYCLE  
 CONSTRUCTION  
 SPARE PART

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



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



**TORQUE RATCHET**

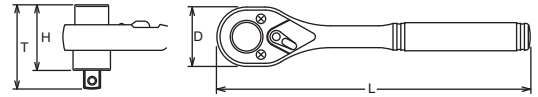
The torque is set at 25Nm. When the torque is loaded higher than 25Nm, the gear slips and no increased torque is transmitted. Cylinder heads and spark plugs are protected by this mechanism.

**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.

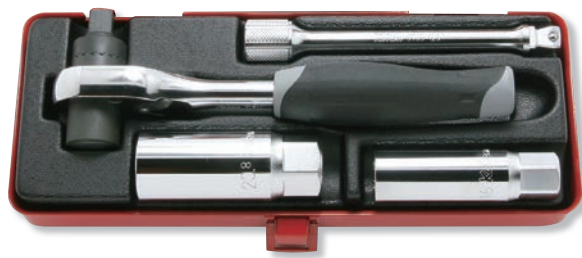
**CLIQUET À DÉCLENCHEMENT**

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.



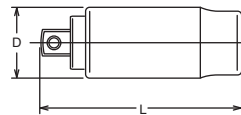
		D (mm)	T (mm)	H (mm)	L (mm)	(g)	(pce.)
3751N-25		34	57	43	178	320	1
3751J-25		34	57	43	178	320	1

**3225A** Set for Torque Controlled Installation of Spark Plugs  
 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:W215xH80xT47mm			
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



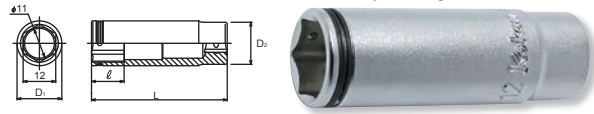
3701		D (mm)	L (mm)	(g)	(pce.)
20Nm		25.5	75	178	1
30Nm		28	75	220	1



2350G-PSG (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	H (mm)	L (mm)		
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 <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)		
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  
Douille articulée pour bougies de préchauffement PSG, avec le système de billes de retenue, double.



3341G-89 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)		
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.

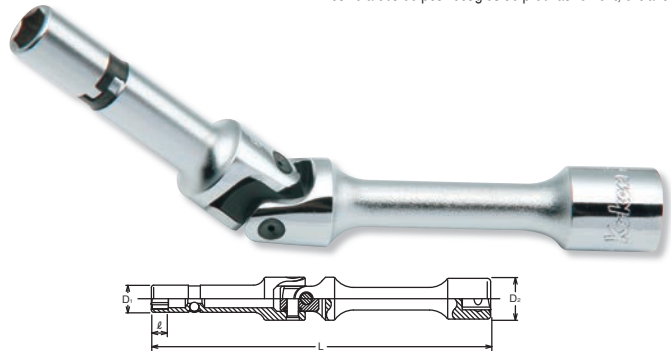
Les deux billes se trouvant dans l'ouverture de notre NUT GRIP® (6 pans) pour bougies de préchauffement, maintiennent la bougie de déclenchement dans la douille. Ceci permet l'accès dans les endroits difficilement accessibles.



3342G-150 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)		
8	3/8"	12	18	7.5	150	137	10

### 3342G-150

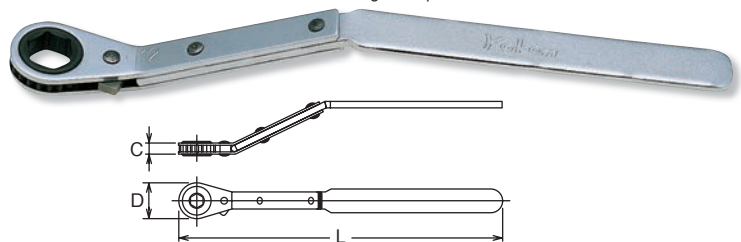
Deep length universal Glow Plug Socket  
Extra langer Glühkerzen-Steckschlüssel mit Gelenk  
Douille articulée pour bougies de préchauffement, extra longue



144KM (mm)	L (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	C (mm)		
8	200	22.7	7.5	95	95	1
12	200	22.7	7.5	102	102	1

### 144KM

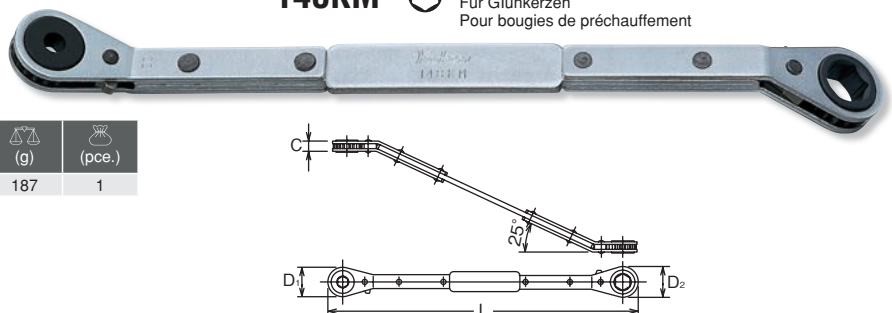
For Glow Plugs  
Für Glühkerzen  
Pour bougies de préchauffement



148KM (mm)	L (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	C (mm)		
8S×12	245	23.6	24.6	9	187	1

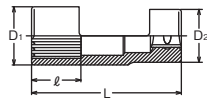
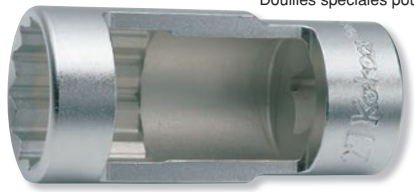
### 148KM


For Glow Plugs  
Für Glühkerzen  
Pour bougies de préchauffement




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

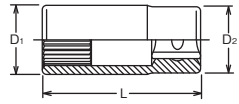
**SP4305M-77**  Socket for Diesel engine injectors  
 Steckschlüssel für Diesel-Einspritzdüsen  
 Douilles spéciales pour injecteurs






SP4305M-77 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (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.

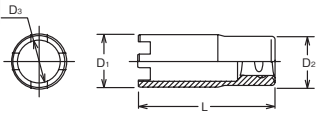
**4133**  Socket for Diesel engine injectors  
 Steckschlüssel für Diesel-Einspritzdüsen  
 Douilles spéciales pour injecteurs






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

**4133**  
 For fuel injection pump of M.B diesel cars.

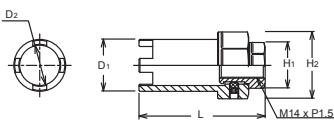
**4122-72** Diesel Injection Holder Nut Socket  
 Steckschlüssel für Einspritzdüsen  
 Douilles pour injecteur diesel




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

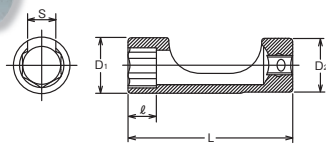
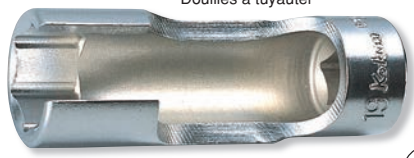
**4122.72-22**  
 For M.B Trucks, Holder nut of injection post.




**SP4122-69** Diesel Injection Holder Nut Socket  
 Steckschlüssel für Einspritzdüsen  
 Douilles pour injecteur diesel



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

**3300FN**  Flare Nut Sockets  
 Geschlitzte Steckschlüssel für Überwurfmuttern  
 Douilles à tuyauteur



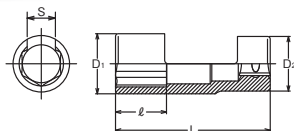
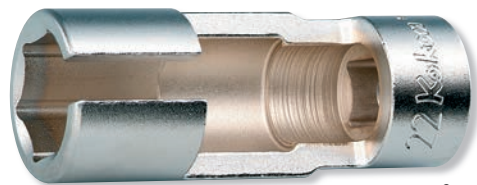
3300FN (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	S (mm)	 (g)	 (pcs.)
8		14.5	17.3	6	53	6.4	38	10
9		16	17.3	7	53	6.8	41	10
10		16.8	17.2	7.5	53	7.2	42	10
11		18	17	8.5	53	8.3	42	10
12		20	18	9	53	8.8	50	10
13		21.1	20	9.5	62	9.4	66	10
14		22	20	10.5	62	10.5	66	10
15	3/8"	23	22	11	70	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/6	6 Pieces Set/Rail 150mm						 (g)
	8, 10, 12, 14, 17, 19						450

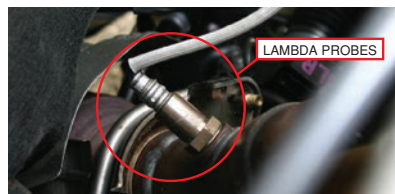
**RS3300FN/6**   Socket Set on Rail  
 Steckschlüsselsatz auf Schiene  
 Jeu de douilles sur rail



**SP4300M-85**  Special socket for Lambda Probes  
 Spezialsteckschlüssel für Lambda Sonden  
**SP4300M-110**  Douilles spéciales pour sonde Lambda



		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (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	10



**Socket for Lambda Probes**  
 Open section allows for use with wire/connector.

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

**4300H series**  
Removes and installs oil pressure switches

4300H (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	H (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

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

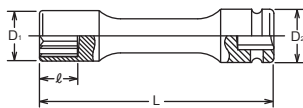


**Cylinder head bolt socket for TOYOTA**  
4010M(12P) is Double Hex bit socket.  
XZN(Triple Square) bit socket has different shape.

ST4027.140		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.



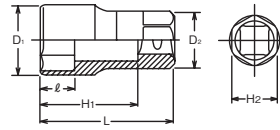
13145M-150 (12P) (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	(g)	(pce.)	Ⓢ
10	3/8"	15.8	19	10	150	120	1	*1
12		18.3	19	12	150	128	1	*1

\*1 C-Ring=1301C, Pin/O-Ring=1301A+B → P250-251

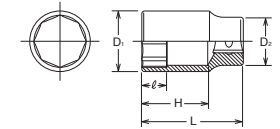
16305M (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	H (mm)	L (mm)	(g)	(pcs.)	Ⓢ
14	3/4"	26.3	44	14	74	100	500	2	*1
17		30	44	17	74	100	544	2	*1
19		32.5	44	19	74	100	655	2	*1
22		36.3	44	22	74	100	700	2	*1

\*1 C-Ring=1600C, Pin/O-Ring=1601A+B → P250-251

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

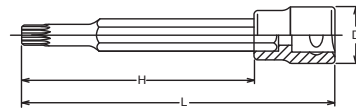


**4300H (8P)** ○ 8-point Sockets  
8-kant Steckschlüssel  
Douilles 8-pans

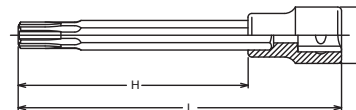


**4010M-100/-120 (12P)**

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



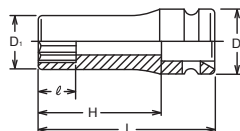
**13145M-150/-200 (12P)** ○ Extra Long Sockets  
Schaftsteckschlüssel  
Douilles, série allongée



13145M.200 (12P) (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (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

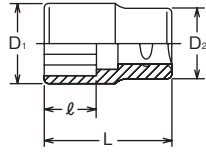
\*1 C-Ring=1301C, Pin/O-Ring=1301A+B → P250-251


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



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

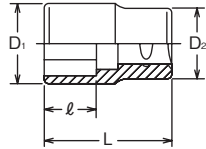
**4109M**  Double 4-point Sockets  
 Doppelvierkant Steckschlüssel  
 Douilles 4-pans, doubles



4109M (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	(g)	(pcs.)
14	1/2"	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

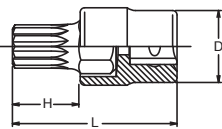
**4111M**  6-point Sockets  
 6-kant Steckschlüssel  
 Douilles 6-pans




4111M (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	(g)	(pcs.)
24	1/2"	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

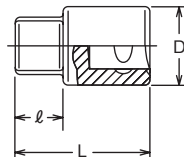



4020-60 (XZN)		D (mm)	H (mm)	L (mm)	(g)	(pcs.)
MH16	1/2"	24	20	60	135	10




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

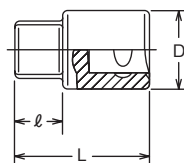
**3110M / 3110A**  4-point Male Sockets  
 Öldienst-Steckschlüssel  
 Douilles mâles 4-pans





3110M (mm)		D (mm)	ℓ (mm)	L (mm)	(g)	(pcs.)
6	3/8"	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)	ℓ (mm)	L (mm)	(g)	(pcs.)
5/16	3/8"	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)	ℓ (mm)	L (mm)	(g)	(pcs.)
8	1/2"	24	10	32	57	10
10		24	10	32	62	10
10.5		24	10	32	64	10
12		24	10	32	64	10
13		24	10	32	66	10
13.5		24	10	32	67	10
19		25	15	37	101	10
20		26	15	37	114	10

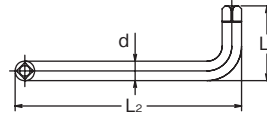
4110A (inch)		D (mm)	ℓ (mm)	L (mm)	(g)	(pcs.)
3/8	1/2"	24	10	32	62	10
1/2		24	10	32	64	10



**158**  For Lubrication Service  
Schmierdienst-Werkzeuge  
Service lubrification-vidange

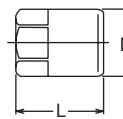


158 (mm)	L <sub>1</sub> (mm)	L <sub>2</sub> (mm)	d (mm)	 (g)	 (pcs.)
<b>8Sx10S</b>	63	230	13	319	1



3012M-25 (mm)		D (mm)	L (mm)	 (g)	 (pcs.)
<b>14</b>	<b>3/8"</b>	19	25	30	10
<b>17</b>		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:W190xH59xT45mm



Sockets

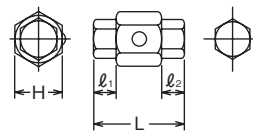
-  **106** Drain Plug Keys  
8Sx10S, 8Hx3/8H, 10Hx11H, 12Hx13H, 14Hx17H, 19H
-  **4102** Drain Plug Key Adaptor

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



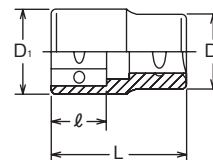
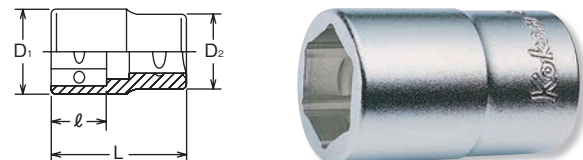
106 (mm)	H (mm)	ℓ <sub>1</sub> (mm)	ℓ <sub>2</sub> (mm)	L (mm)	 (g)	 (pcs.)
<b>8Sx10S</b>	17	8	8	32	40	10
<b>8Hx3/8H</b>	17	8	8	32	38	10
<b>10Hx11H</b>	17	8	8	32	42	10
<b>12Hx13H</b>	17	8	8	32	47	10
<b>14Hx17H</b>	17	8	8	32	55	10
<b>19H</b>	17	-	8	24	49	10




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




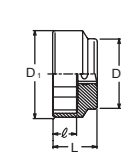
4102 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	 (g)	 (pcs.)
<b>17</b>	<b>1/2"</b>	25	24	16	40	82	10

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



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



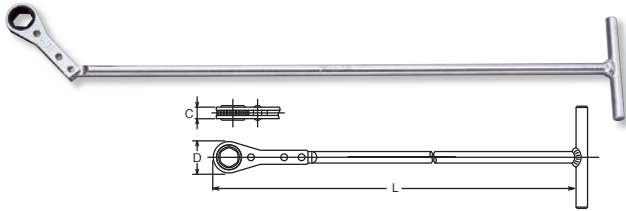
Z-SERIES  
 HAND  
 TITANIUM  
 SCREWDRIVERS ACCESSORIES  
 IMPACT  
 SLEEVE-DRIVE  
 PROTECTOR  
 INDUSTRIAL  
 AUTOMOTIVE  
 MOTORCYCLE  
 CONSTRUCTION  
 SPARE PART

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



<b>1206</b>		3 Pieces Set/⚖️=320g	
CARDBOARD BOX			
Sockets		Accessory	
 <b>150.14H Sockets</b> 12, 14	<b>154K-14</b>		

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



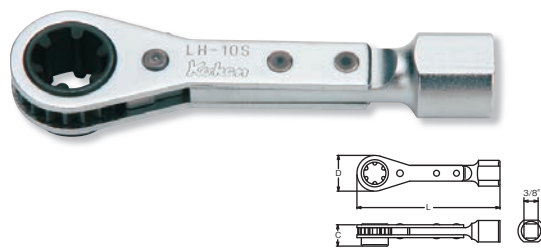
154K (mm)	L (mm)	D (mm)	C (mm)	⚖️ (g)	📦 (pcs.)
<b>14</b>	480	24.6	9	280	1


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

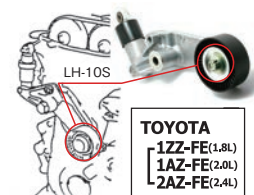


150-14H (mm)	D (mm)	ℓ (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
<b>10</b>	16	5	17	16	10
<b>12</b>	17.3	5	18	14	10
<b>14</b>	19.2	7	21	17	10

**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.)
<b>10S</b>	<b>3/8"</b>	100	25	15.5	90	10



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

**TOYOTA**  
**1ZZ-FE(1.8L)**  
**1AZ-FE(2.0L)**  
**2AZ-FE(2.4L)**

 This item has less strength due to the special design.

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



<b>4282</b>		4 Pieces Set/⚖️=449g	
PLASTIC BAG			
Sockets			
 <b>4020.100-M10</b> <b>4020.140-M10</b>			
 <b>4025.100R-T50</b>			
 <b>185</b>			



**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

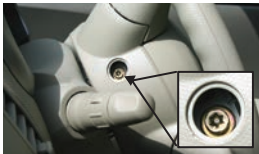


1210E		11 Pieces Set/△=460g
PLASTIC BAG		
Sockets	Accessory	
<ul style="list-style-type: none"> <li>179B.12H Sockets 10, 12, 13</li> <li>179B.12H XZN Bits M8, M10, M12</li> <li>179B.12H TORX® Bits T40, T45, T50</li> <li>179B.12H Hex Bit 8</li> </ul>	145KD-12	

**3247** 4 Pieces Set/△=385g  
PLASTIC BAG

Sockets

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



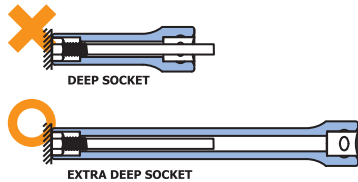
**3300M/4-L120** 4 Pieces Set/△=477g  
PLASTIC BAG

Sockets

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.



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

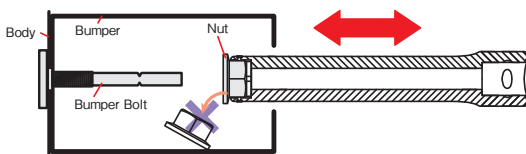


**3350M/2-L120** 2 Pieces Set/△=230g  
PLASTIC BAG

Sockets

3350M(L120) Nut Grip Extra Deep Sockets 10, 12

Nut Grip Extra Deep Socket

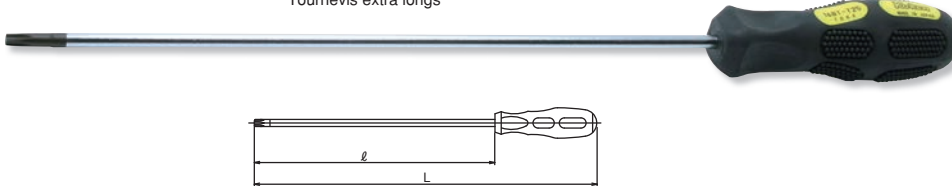


**3350M/2-L120** ⚠ Socket Set  
Steckschlüssel Satz  
Jeu de clés à douille





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

**168T (250)**  Extra long shank Screwdrivers  
 Extra lange Schraubendreher  
 Tournevis extra longs






Long shank Screw Screwdriver

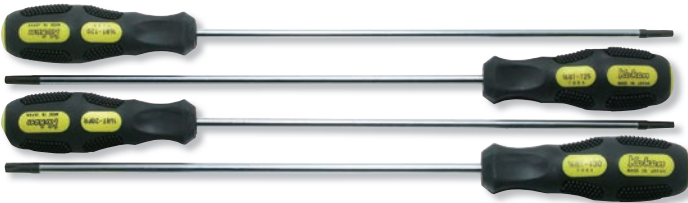





168T(250) (PR)	ℓ (mm)	L (mm)	 (g)	 (pce.)
<b>20PR</b>	250	350	85	1

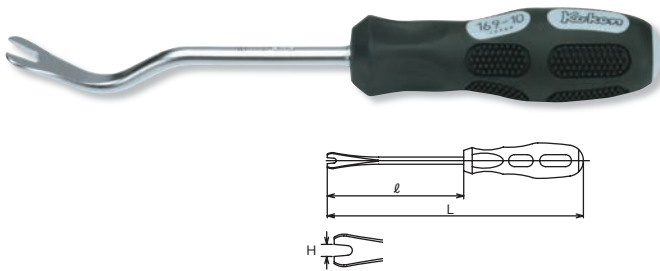
168T(250) (T)	ℓ (mm)	L (mm)	 (g)	 (pce.)
<b>T20</b>	250	350	85	1
<b>T25</b>	250	350	85	1
<b>T30</b>	250	360	120	1



**1212**  Long shank Screwdriver 4 pieces set  
 Extra lange Schraubendreher 4teiliger Satz  
 Tournevis longs. Jeu de 4 pièces

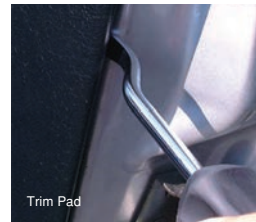


1212	4 Pieces Set/  =380g
PLASTIC BAG	
Screwdrivers	
 <b>168T(250)</b> 20PR	
 <b>168T(250)</b> T20, T25, T30	

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




169	ℓ (mm)	L (mm)	H (mm)	 (g)	 (pcs.)
<b>6</b>	115	215	5	80	2
<b>10</b>	120	230	9	110	2



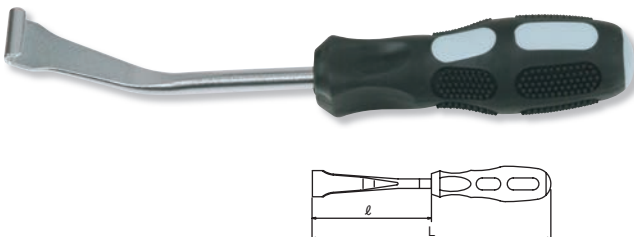
Clip Handle



**169/2** Door Trim Pad Tool  
 Demontagehebel für Türclips  
 Levier pour le démontage des garnitures de portes



169/2	2 Pieces Set/  =200g
PLASTIC BAG	
Clip Handles	
<b>169</b> 6, 10	

**169WM** Window Molding Remover  
 Zum Lösen von Fenstergummis  
 Pour le démontage des joints de vitres



169WM	ℓ (mm)	L (mm)	 (g)	 (pcs.)
<b>169WM</b>	100	210	90	2

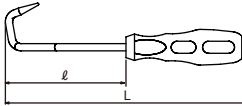
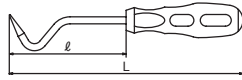


Window Molding Remover

169HR	ℓ (mm)	L (mm)	(g)	(pcs.)
<b>A</b>	100	200	75	2
<b>B</b>	100	200	90	2



Hose Remover



**169HR-A** Hose Remover  
Zum lösen von Schläuchen  
Pour le démontage des tuyaux



**169HR-B** Hose Remover  
Zum lösen von Schläuchen  
Pour le démontage des tuyaux



169HR/2	2 Pieces Set/△=180g
PLASTIC BAG	Hose Remover <b>169HR</b> A, B

**169HR/2** Hose Remover, 2 pieces set  
Universalhaken, 2teiliger Satz  
Pour le démontage des tuyaux. Jeu de 2 pièces



169BP	T×W (mm)	ℓ (mm)	L (mm)	(g)	(pcs.)
<b>1.8×13</b>	1.8×13	50	150	60	2

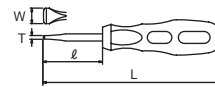


For Battery screw



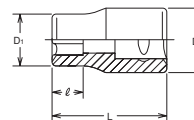
Quick Fastener

**169BP** For Battery Screws  
Für Batterie-Verschlussstopfen  
Pour vis de batterie



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

**4425-N** TORX® Sockets  
TORX® Steckschlüssel  
Douilles TORX®



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

**RS4425/6-N** Socket Set on Rail  
Steckschlüsselsatz auf Schiene  
Jeu de douilles sur rail



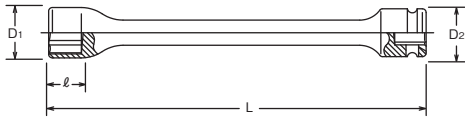
Engine type : QR/MR

Flywheel bolt for NISSAN : E20N

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

**13145A-150**  
**14145A-150**

Extra Long Socket  
 Schaftsteckschlüssel  
 Douilles, série allongée



13145A-150 (inch)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	(g)	(pcs.)	
9/16(D20)	3/8"	20	19	13	150	130	1	*1

\*1 C-Ring=1301C, Pin/O-Ring=1301A/B → P250-251

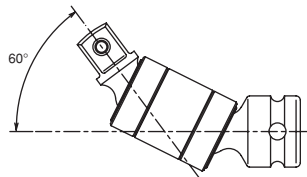
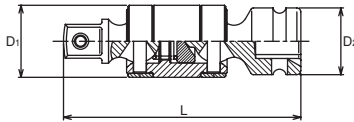
14145A-150 (inch)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	(g)	(pcs.)	
9/16(D20)	1/2"	20	25	13	150	200	1	*1

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B → P250-251

For Land Rover Prop Shaft

**13772-P**  
**14772-P**

Universal Double Joint  
 Doppelgelenk-Einsatz  
 Cardan universel double



		D <sub>1</sub> (mm)	D <sub>2</sub> (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

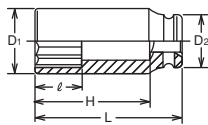
\*1 C-Ring=1301C, Pin/O-Ring=1301A/B

\*2 C-Ring=1401C, Pin/O-Ring=1401A/B → P250-251



**14305M**

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



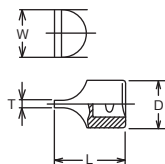
14305M (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	H (mm)	L (mm)	(g)	(pcs.)	
30		42	30	30	63	85	457	10	*2
32	1/2"	44.5	30	32	63	85	542	10	*2
36		49.5	30	36	61	85	635	2	*2

\*1 C-Ring=1402C, Pin/O-Ring=1402A/B → P250-251



**4101 / 6101**

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

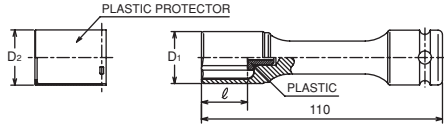


4101		T×W (mm)	D (mm)	L (mm)	(g)	(pcs.)
1		2.7×18.6	22	40	59	10
2	1/2"	3.7×24	24	40	79	10
3		3.7×30	30	40	128	10

6101		T×W (mm)	D (mm)	L (mm)	(g)	(pcs.)
6101	3/4"	6.4×33.5	35	50	205	10

14145PM-110 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	Shaft Color	(g)	(pcs.)	
17		23.7	25.2	21	Blue	208	5	*1
19	1/2"	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 → P250-251



### 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:W125xH95xT34mm

Sockets

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

280PM (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	H (mm)	Shaft Color	(g)	(pcs.)
19	25.7	27.2	13	52	19	Red	150	5
21	27.5	29	13	55	21	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.

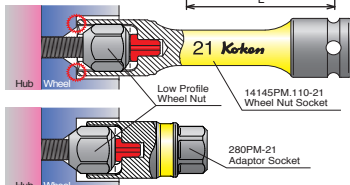
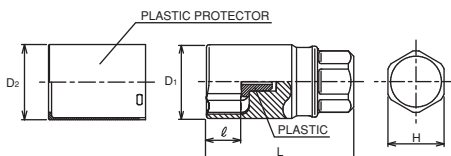
Der Kunststoffanschlag im inneren des Werkzeugs schützt zusätzlich die Radmutter.

Die Farbmarkierung macht die Identifikation des Werkzeugs einfach.

La protection plastifiée amovible, protège la jante et évite des dommages 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.



## 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

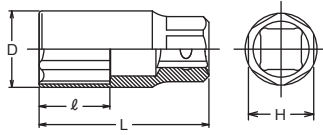
Adaptor Socket for Low Profile Wheel Nut  
Adapter Steckschlüssel für kurze Radmuttern  
Adaptateur pour des écrous de roue courts



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)	ℓ (mm)	L (mm)	H (mm)	⚖️ (g)	📦 (pcs.)
17	1/2"	23.6	25	60	21	98	10
19		25.1	25	60	21	100	10
21		27.1	25	60	21	102	10

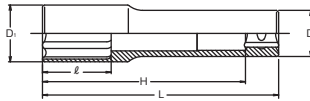


Wheel Nut Sockets

⚠️ 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

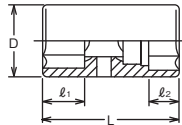
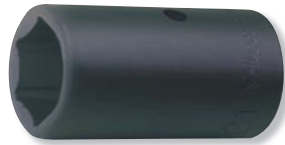


4300M(L110) (mm)	□	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	H (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
17	1/2"	23	22	32	93	110	155	5
19		25.8	22	32	93	110	170	5
21		26.8	22	32	93	110	165	5

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

### 14118M

Wheel Nut Sockets, Double Ended  
 Radmuttern-Steckschlüssel, doppelseitig  
 Douilles pour écrous de roue à ouvertures doubles



14118M (mm)	□	D (mm)	ℓ <sub>1</sub> (mm)	ℓ <sub>2</sub> (mm)	L (mm)	⚖️ (g)	📦 (pcs.)
17×19	1/2"	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



New 14218M 2 Pieces Set ⚖️=360g

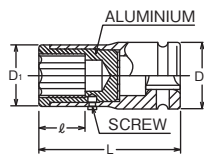
#### CARDBOARD BOX

Sockets		Accessory	
🔧 14118PM 19×21		🔧 14760ST-B	

Interchangeable Wheel Nut Socket of 19mm and 21mm.

### AR14300

Impact Sockets with exchangeable Aluminium Inlets  
 Impact Steckschlüssel mit auswechselbarem Aluminium Einsatz  
 Douilles Impact avec cartouche en aluminium remplaçable

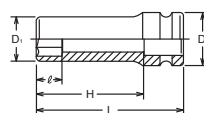


AR14300 (mm)	□	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	⚡
17	1/2"	28	30	21	65	220	10	*1
19		30	30	24	65	223	10	*1
21		33	30	25	65	237	10	*1

\*1 C-Ring=1402C, Pin/O-Ring=1402A/B → P250-251

### 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 <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	H (mm)	L (mm)	⚖️ (g)	📦 (pcs.)	⚡
17	1/2"	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 → P250-251



14113J (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (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=1402C, Pin/O-Ring=1402A/B → P250-251

14113M (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (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=1402C, Pin/O-Ring=1402A/B → P250-251

14124 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ <sub>1</sub> (mm)	ℓ <sub>2</sub> (mm)	L (mm)	(g)	(pcs.)
21×24.5	1/2"	28	29.5	24	25	65	157	10
26×27.5		31.5	35	24.5	24.5	65	197	10

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



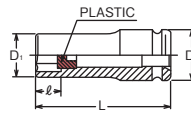
14124 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	(g)	(pcs.)	
17	1/2"	20.5	25	15	50	83	10	*1
18		21	25	15	50	83	10	*1
18.5		23	25	15	50	95	10	*1
19		25	30	20.5	50	140	10	*2
21		28	30	20.5	50	153	10	*2
24.5		29.5	30	23	50	138	10	*2
26		31.5	30	23	50	147	10	*2
27.5		35	30	23	50	181	10	*2

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B  
 \*2 C-Ring=1402C, Pin/O-Ring=1402A/B → P250-251

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

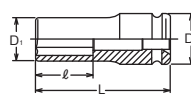
### 14113J

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



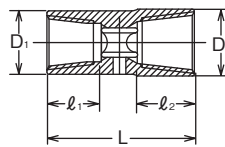
### 14113M

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 antivols.



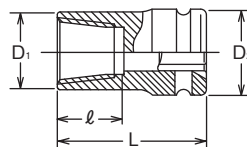
### 14124/3

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 antivols.



### 14124

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



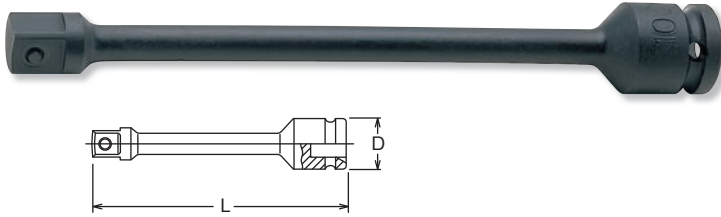
### RS14124/7


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

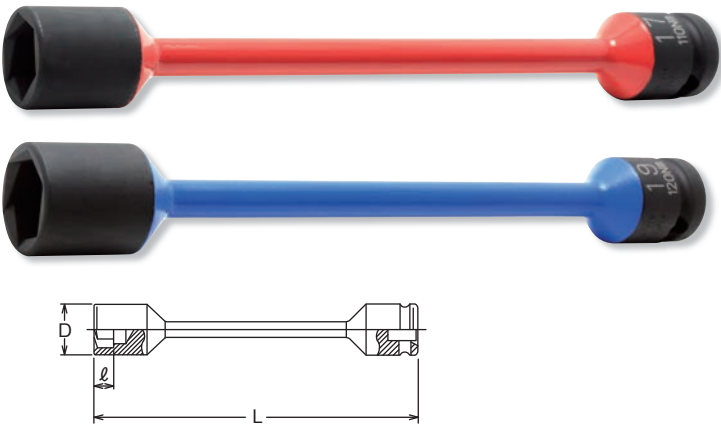
**14112-P**  Torsion Extension Bars (for tightening only)  
 Torsionsstab-Verlängerungen (nur zum Anziehen)  
 Barres de torsion (pour serrage seulement) 




14112-P (Nm)	D (mm)	L (mm)	(g)	(pcs.)	
90Nm	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 → P250-251

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



14101MP (mmxNm)	D (mm)	l (mm)	L (mm)	Shaft Color	(pcs.)	
17x 95Nm	25.7	12	214	Yellow	10	*1
17x110Nm	25.7	12	204	Red	10	*1
17x120Nm	25.7	12	200	Green	10	*1
19x 90Nm	28.2	13	259	Yellow	10	*1
19x100Nm	28.2	13	233	White	10	*1
19x120Nm	28.2	13	203	Blue	10	*1
19x140Nm	28.2	13	199	Orange	10	*1
21x100Nm	30.7	14	214	Black	10	*1
21x120Nm	30.7	14	203	Brown	10	*1
22x150Nm	30.7	14	220	Purple	10	*1

\*1 C-Ring=1401C, Pin/O-Ring=1401A/B → P250-251

 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  
 17x95Nm, 17x110Nm, 17x120Nm,  
 19x90Nm, 19x100Nm, 19x120Nm, 19x140Nm, 21x100Nm

**Torsion Bars**

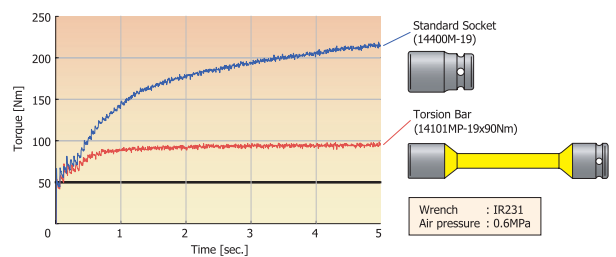
- Designed for tightening wheel nuts with an impact wrench.
- Prevent the excessive torque road.
- Color coded shafts make size identification easy.

**Torsionsstäbe**

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

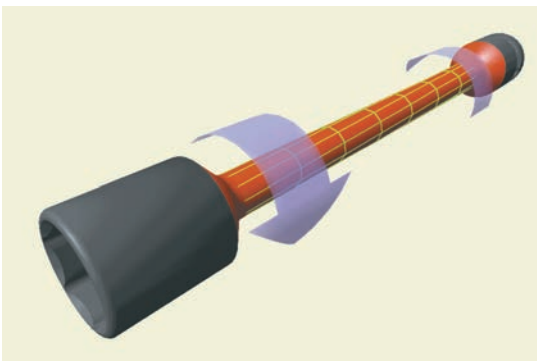
**Barres de torsion**

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



14101M (mmxNm)		D (mm)	ℓ (mm)	L (mm)			
14x 95Nm	1/2"	22	11	208	230	1	*1
15x110Nm		23.2	11	201	230	1	*1
17x 60Nm		25.7	12	216	227	1	*1
17x 75Nm		25.7	12	228	240	1	*1
17x 95Nm		25.7	12	214	256	1	*1
17x110Nm		25.7	12	204	285	1	*1
17x120Nm		25.7	12	200	284	1	*1
19x 60Nm		28.2	13	219	237	1	*1
19x 90Nm		28.2	13	259	275	1	*1
19x110Nm		28.2	13	214	278	1	*1
19x120Nm		28.2	13	203	297	1	*1
19x135Nm		28.2	13	206	339	1	*1
19x170Nm		28.2	13	190	332	1	*1
21x100Nm		30.7	14	214	288	1	*1
21x120Nm	30.7	14	203	288	1	*1	
22x160Nm	32	15	209	385	1	*1	

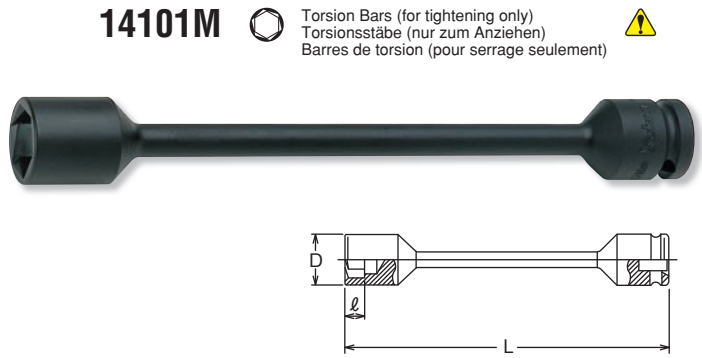
\*1 C-Ring=1401C, Pin/O-Ring=1401A/B → P250-251



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:**

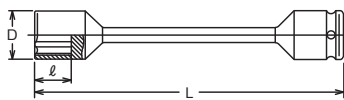
1. Use with a 1/2" Sq. Dr. Pneumatic impact wrench.
2. Set air pressure 0.6MPa, and set impact wrench dial to Medium range.
3. Choose a suitable Torsion bar according to wheel nut size and indicated tightening torque.
4. Attach the torsion bar to impact wrench and apply load.
5. Check the actual tightening 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 (mmxNm)		D (mm)	ℓ (mm)	L (mm)			
24x180Nm	3/4"	38.8	24	235	850	1	*1
27x450Nm		42.5	27	280	1236	1	*1
32x600Nm		48.8	32	280	1370	1	*1
33x600Nm		50	33	280	1370	1	*1

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B → P250-251

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.



**16101M** Torsion Bars (for tightening only)  
**18101M** Torsionsstäbe (nur zum Anziehen)  
Barres de torsion (pour serrage seulement)

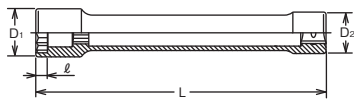
18101M (mmxNm)		D (mm)	ℓ (mm)	L (mm)			
24x350Nm	1"	43.5	24	300	1380	1	*1
27x350Nm		47	27	300	1401	1	*1
27x450Nm		47	27	300	1579	1	*1
30x500Nm		51	30	300	1563	1	*1
32x450Nm		53.5	32	300	1600	1	*1
32x550Nm		53.5	32	300	1602	1	*1
32x600Nm		53.5	32	300	1602	1	*1
32x700Nm		51.5	32	300	1630	1	*1
33x550Nm		55	33	300	1638	1	*1
33x600Nm		55	33	300	1638	1	*1
36x600Nm		58.5	36	300	1718	1	*1

\*1 C-Ring=1801C, Pin/O-Ring=1801A/B → P250-251

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

**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 <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	📦 (pce.)
41Wx21W	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 <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	⚖️ (g)	📦 (pce.)
41Wx21W	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.

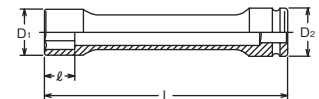


Combination type  
41Wx21W

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 <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (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
New 38		56.3	44	32	270	1610	1	*1
New 41		60	44	32	270	1640	1	*1

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B → P250-251

16102M-400 (mm)	□	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (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=1600C, Pin/O-Ring=1601A/B → P250-251

18102M-270 (mm)	□	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (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
New 41		60	54	32	270	1800	1	*1

\*1 C-Ring=1801C, Pin/O-Ring=1801A/B → P250-251

18102M-400 (mm)	□	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (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=1801C, Pin/O-Ring=1801A/B → P250-251

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

PW6 (mmxmm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	(g)	(pcs.)	
32x17	3/4"	47	44	12	75	633	2	*1
35x17		50	44	13	75	673	2	*1
38x20		55	44	14	75	708	2	*1
41x19		58	44	14	80	840	2	*1
41x20		58	44	14	80	840	2	*1
41x21		58	44	14	80	831	2	*1

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B → P250-251

PW8 (mmxmm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	(g)	(pcs.)	
35x17	1"	50	54	13	83	935	2	*1
38x20		55	54	14	83	1038	2	*1
41x19		58	54	14	87	1100	2	*1
41x20		58	54	14	87	1096	2	*1
41x21		58	54	14	87	1089	2	*1

\*1 C-Ring=1801C, Pin/O-Ring=1801A/B → P250-251

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

**PW8P/4** 4 Pieces Set/△=4,250g  
CARDBOARD BOX:W240xH95xT70mm  
Sockets  
PW8P Impact Rear Wheel Nut Sockets  
35x17, 38x20, 41x19, 41x21

PW8P (mmxmm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	(g)	Shaft Color	(pcs.)	
35x17	1"	50	54	13	83	935	White	5	*1
38x20		55	54	14	83	1038	Red	5	*1
41x19		58	54	14	87	1100	Green	5	*1
41x21		58	54	14	87	1089	Yellow	5	*1

\*1 C-Ring=1801C, Pin/O-Ring=1801A/B → P250-251

PW8L (mmxmm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	(g)	(pcs.)	
41x21	1"	58	54	15	105	1263	1	*1

\*1 C-Ring=1801C, Pin/O-Ring=1801A/B → P250-251

PS6 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (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

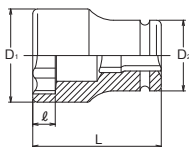
\*1 C-Ring=1600C, Pin/O-Ring=1601A/B → P250-251

PS8 (mm)		D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (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

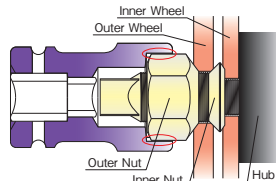
\*1 C-Ring=1801C, Pin/O-Ring=1801A/B → P250-251

## PW6 / PW8

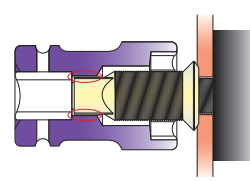
Rear Wheel Nut Sockets  
Steckschlüssel für Hinterradmuttern  
Douilles spéciales pour écrous de roué arrière



Tightening / Loosening Outer Nut



Tightening / Loosening Inner Nut



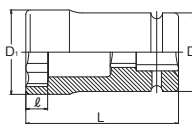
## PW8P/4 PW8P

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



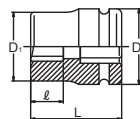
## PW8L

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



## PS6 / PS8

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



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

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

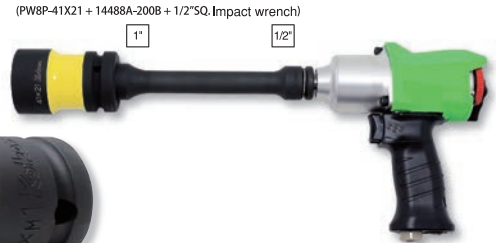
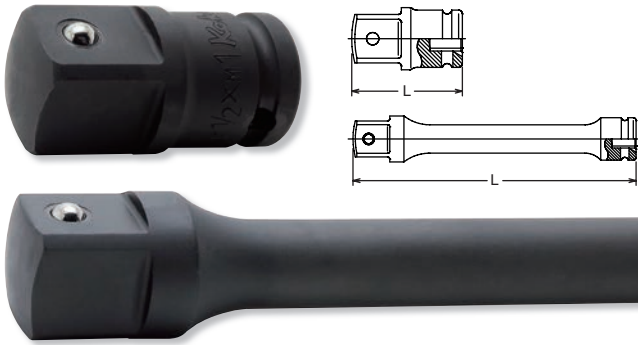
Adaptor  
 Verbindungsstück  
 Réducteur

No Warranty  
 Keine Garantie  
 Sans Garantie




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

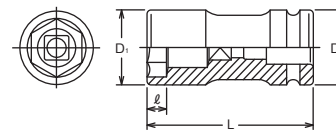
\*1 C-Ring=1402C, Pin/O-Ring=1402A/B → P250-251



### 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 (mmxmm)	□	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	(g)	(pce.)	⚡
35x17	3/4"	52	44	10	90	865	1	*1
38x20		56	44	13	100	952	1	*1
41x19		59	44	12	100	1037	1	*1
41x21		59	44	15	100	963	1	*1

\*1 C-Ring=1600C, Pin/O-Ring=1601A/B → P250-251

18316M (mmxmm)	□	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	(g)	(pce.)	⚡
35x17	1"	52	54	10	108	1153	1	*1
38x20		56	54	13	108	1133	1	*1
41x19		59	54	12	108	1200	1	*1
41x21		59	54	15	108	1155	1	*1

\*1 C-Ring=1801C, Pin/O-Ring=1801A/B → P250-251

16316A (inchxinch)	□	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	(g)	(pce.)	⚡
1.1/2x13/16	3/4"	56	44	13	100	940	1	*1

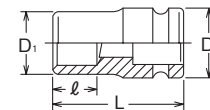
\*1 C-Ring=1600C, Pin/O-Ring=1601A/B → P250-251

18316A (inchxinch)	□	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (mm)	L (mm)	(g)	(pce.)	⚡
1.1/2x13/16	1"	59	54	13	108	1120	1	*1

\*1 C-Ring=1801C, Pin/O-Ring=1801A/B → P250-251

### 16317M / 16317A 18317M / 18317A

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



16317M (mm)	□	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (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 → P250-251

18317M (mm)	□	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (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 → P250-251

16317A (inch)	□	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (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 → P250-251

18317A (inch)	□	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	ℓ (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 → P250-251