

TOOLS AND  
ACCESORIES  
FOR INDUSTRIAL  
TIGHTENING

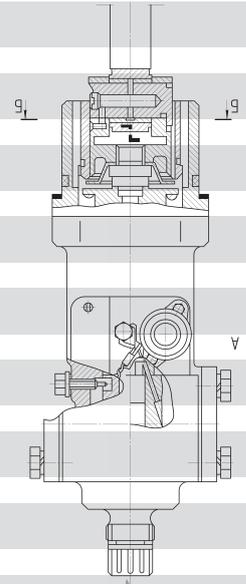
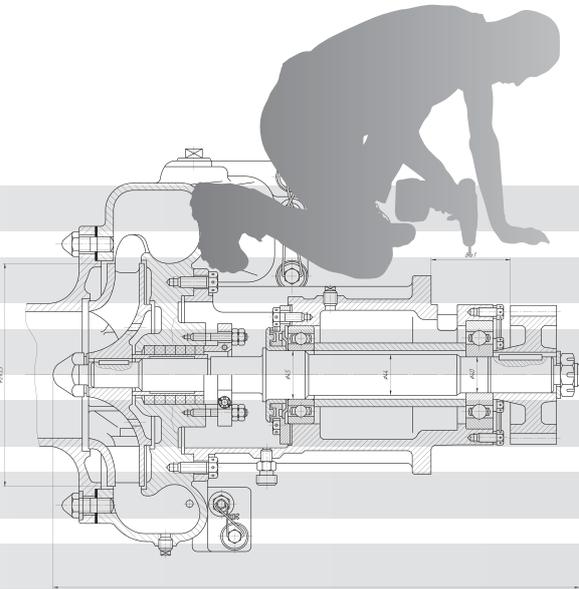
AngleWrenchProgrammersCordlessPistols  
ImpulsePistolsGearedTypesAcceso  
riesBitsBitHoldersSocketsAdapters  
ExtensionsBitSocketsPulseTool  
AccessoriesSocketRetainingRings  
ProtectedPartsSpecialSocketsScrewdrivers

# SPEEDRILL

[www.speedrill.com](http://www.speedrill.com)



# SPEEDRILL



Accessory and tool manufacturer since 1946. Offering our customers solutions and products of the highest quality for a wide range of industrial markets. Our long professional career as well as our international recognition supports our quality, reliability and innovation in our range of products.

We work hard to adapt our company to the non-stop technological changes in the different assembly areas to offer the highest precision and speed at work.

Our company's philosophy is based in three words:  
Quality - Competitiveness - Service

We offer a wide range of tools, sockets, bits, adapters, extensions, wrench sockets, wrench extensions, bit adapters and special accessories under technical requests. Made with materials of the highest quality, strong magnets and protection coverings. These protection coverings are adapted to all our products increasing security and quality at work.

We work day a day to offer the best results.

Do not hesitate to contact us to solve any technical issue you could have or if you don't find the tools or accessories required. We will be pleased to solve it offering the best solutions.



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## ACCESORIES

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# Bits

Speedrill offers high quality bits for an Industrial tightening use in accordance with international security standards. We carry a large portfolio of bits for various applications. If you don't find what you need, we also offer productions under your specifications.



-  Phillips®
-  Slotted
-  Pozidriv®
-  Torx®
-  Torx-Plus®
-  Hexagon
-  Double Hex.
-  Square
-  Torq-set®
-  Tri-Wing®

***Our bits are available in different lengths:  
25, 50, 70, 90 y 150 mm***



The TRI-WING® system provides outstanding resistance to vibration, extending drive tool life. The design was adapted by some parts of the aerospace industry and also used in the electronic equipment.



The TORQ-SET® system is used in torque-sensitive applications. Used in aerospace applications and electronic industry.



The ACR cam-out keeps the driver securely mated to the screw during fastener removal, eliminating damaged screw heads and drives while preventing damage to costly panels and structures. It also reduces fatigue and the risk of injury.



The TORX® design allows a higher torque to be exerted without damaging the head. The head screws resist cam-out better. The lobes of TORX-PLUS® are more squared to allow a higher torque and minimize wear.

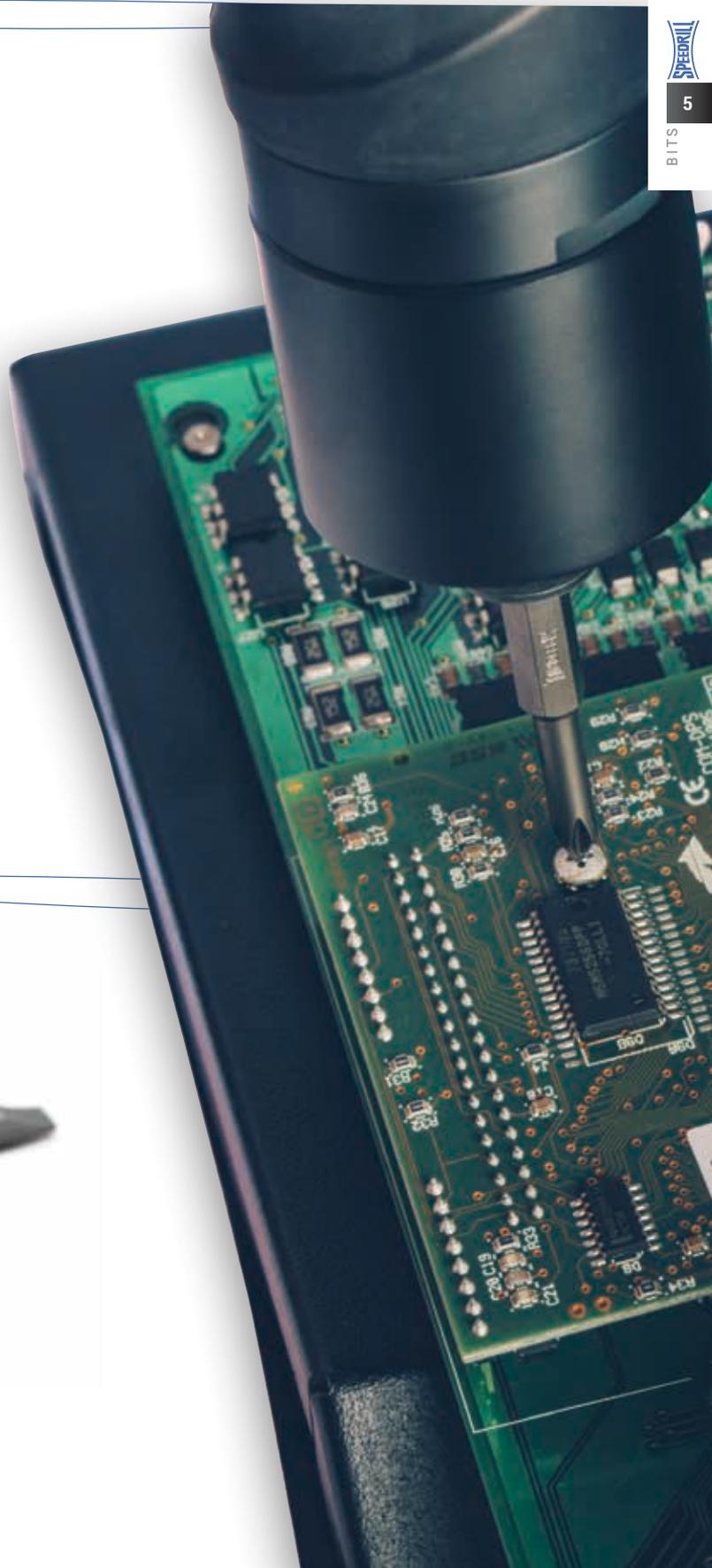
Standard TORX® drivers can be used to drive TORX-PLUS® screws, but not to full torque because of the loose fit. TORX-PLUS® drivers will not fit into standard TORX® screws.

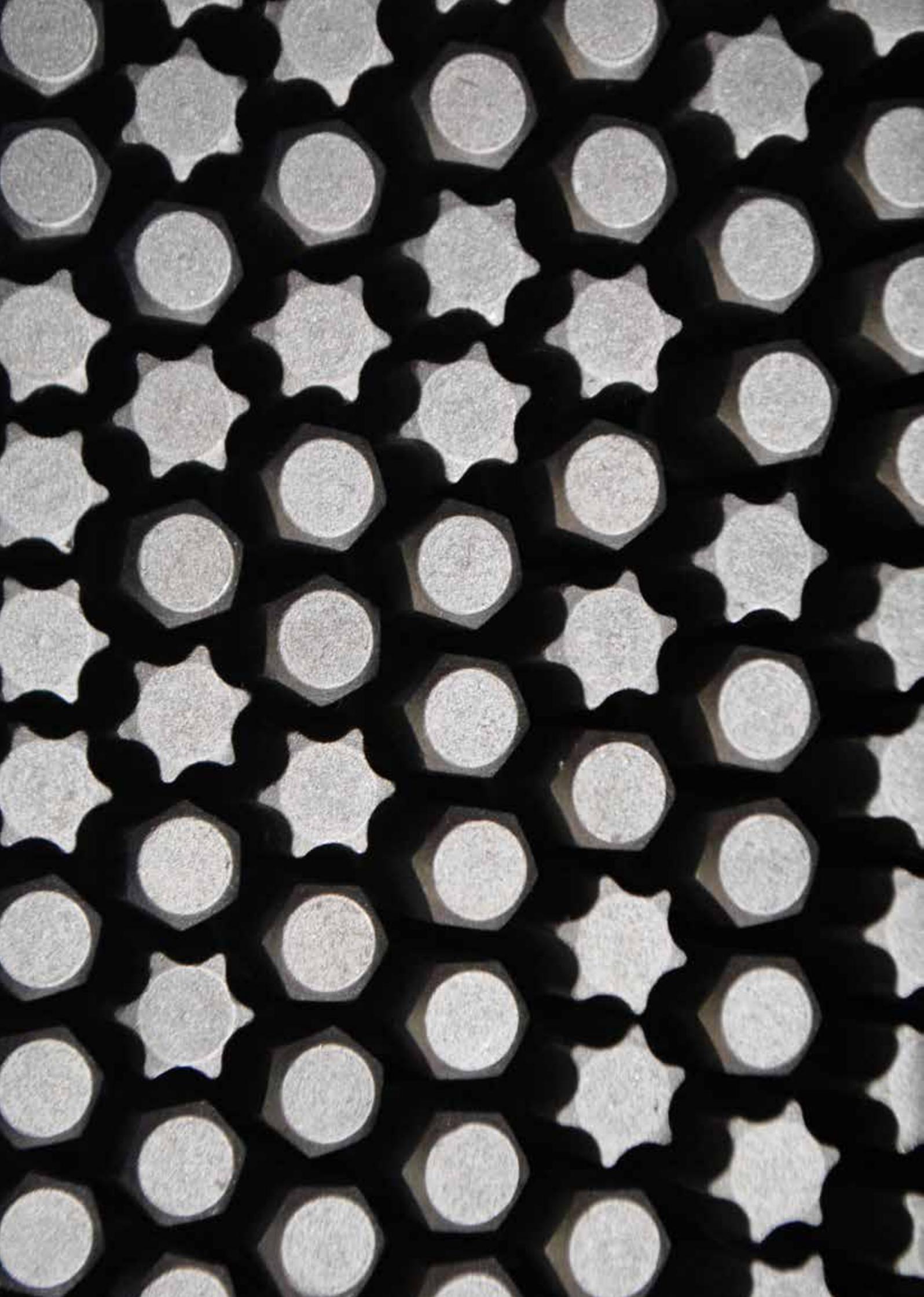


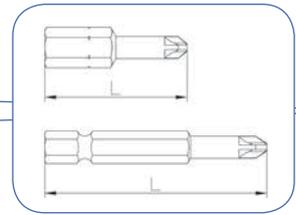
Torx-Plus®



Torx®







1/4" (6.35 mm)		
Item No.	Type	L
PH0	0	25
PH1	1	25
PH2	2	25
PH3	3	25
PH4	4	25

Reduced 1/4"		
Item No.	Type	L
PH2NR	2	25
PH3NR	3	25

ACR 1/4"		
Item No.	Type	L
PH1ACR	1	25
PH2ACR	2	25
PH3ACR	3	25



1/4"		
Item No.	Type	L
PH1ND	1	25
PH2ND	2	25



1/4" Long			
Item No.	Type	L	D
VPPH0/50	0	50	3
VPPH1/50	1	50	4.5
VPPH2/50	2	50	6
VPPH3/50	3	50	6
VPPH4/50	4	50	9
VPPH0/70	0	70	3
VPPH1/70	1	70	4.5
VPPH2/70	2	70	6
VPPH3/70	3	70	6
VPPH4/70	4	70	9
VPPH0/90	0	90	3
VPPH1/90	1	90	4.5
VPPH2/90	2	90	6
VPPH3/90	3	90	6
VPPH4/90	4	90	9
VPPH0/150	0	150	3
VPPH1/150	1	150	4.5
VPPH2/150	2	150	6



5/16" (7.93 mm)		
Item No.	Type	L
PH2A	2	35
PH3A	3	35
PH4A	4	35

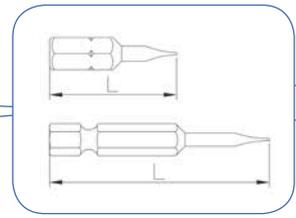


7/16" (7.93 mm)		
Item No.	Type	L
VMPH2/90	2	90
VMPH3/90	3	90
VMPH4/90	4	90



• Phillips ACR® is a registered trademark of Phillips Screw Co.

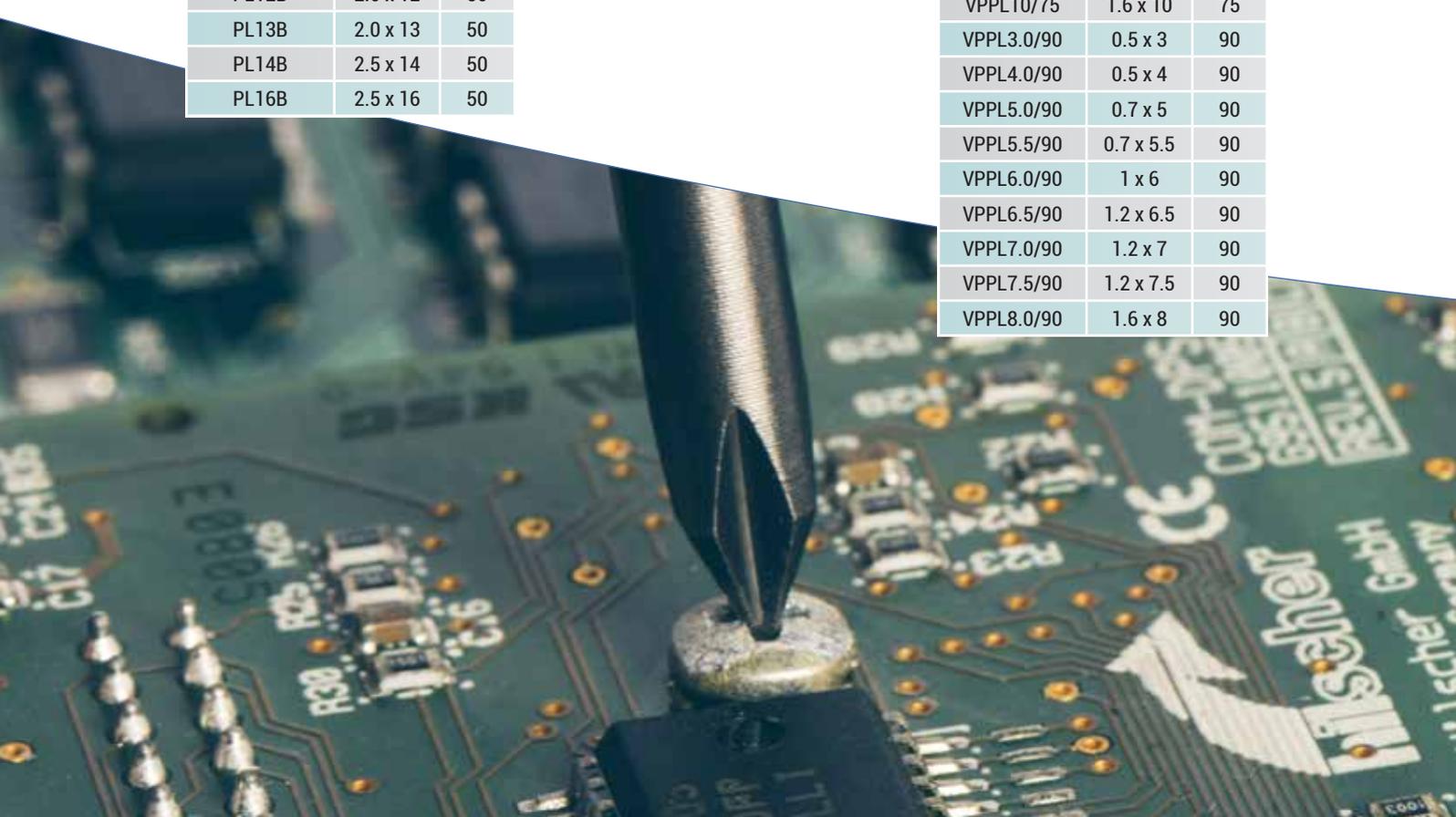
# ⊖ Slotted

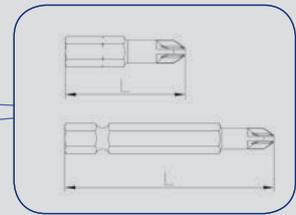


1/4" (6.35 mm)		
Item No.	Type	L
PL2.5	0.4 x 2.5	25
PL3.5	0.6 x 3.5	25
PL4.0	0.5 x 4.0	25
PL4.5	0.6 x 4.5	25
PL5.0	0.7 x 5.0	25
PL5.5	0.8 x 5.5	25
PL6.0	1.0 x 6.0	25
PL6.5	1.2 x 6.5	25
PL7.0	1.2 x 7.0	25
5/16" (7.93 mm)		
Item No.	Type	L
PL8A	1.2 x 8.0	40
PL10A	1.6 x 10	40
PL12A	2.0 x 12	40
PL13A	2.0 x 13	40
PL14A	2.5 x 14	40
PL16A	2.5 x 16	40
1/2" (12.70 mm)		
Item No.	Type	L
PL12B	2.0 x 12	50
PL13B	2.0 x 13	50
PL14B	2.5 x 14	50
PL16B	2.5 x 16	50



1/4" Long		
Item No.	Type	L
VPPL3.0/50	0.5 x 3	50
VPPL3.5/50	0.6 x 3.5	50
VPPL4.0/50	0.5 x 4	50
VPPL4.5/50	0.6 x 4.5	50
VPPL5.0/50	0.7 x 5	50
VPPL5.5/50	0.8 x 5.5	50
VPPL6.0/50	1 x 6	50
VPPL6.5/50	1.2 x 6.5	50
VPPL7.0/50	1.2 x 7	50
VPPL7.5/50	1.2 x 7.5	50
VPPL8.0/50	1.6 x 8	50
VPPL3.0/75	0.5 x 3	75
VPPL4.0/75	0.5 x 4	75
VPPL5.0/75	0.7 x 5	75
VPPL6.0/75	1 x 6	75
VPPL6.5/75	1.2 x 6.5	75
VPPL7.0/75	1.2 x 7	75
VPPL7.5/75	1.2 x 7.5	75
VPPL8.0/75	1.6 x 8	75
VPPL8.5/75	1.6 x 8.5	75
VPPL10/75	1.6 x 10	75
VPPL3.0/90	0.5 x 3	90
VPPL4.0/90	0.5 x 4	90
VPPL5.0/90	0.7 x 5	90
VPPL5.5/90	0.7 x 5.5	90
VPPL6.0/90	1 x 6	90
VPPL6.5/90	1.2 x 6.5	90
VPPL7.0/90	1.2 x 7	90
VPPL7.5/90	1.2 x 7.5	90
VPPL8.0/90	1.6 x 8	90





1/4" (6.35 mm)		
Item No.	Type	L
PZD0	0	25
PZD1	1	25
PZD2	2	25
PZD3	3	25
PZD4	4	25
Reduced 1/4"		
Item No.	Type	L
PZD2NR	2	25
PZD3NR	3	25
ACR 1/4"		
Item No.	Type	L
PZD1ACR	1	25
PZD2ACR	2	25
PZD3ACR	3	25
PZD4ACR	4	25



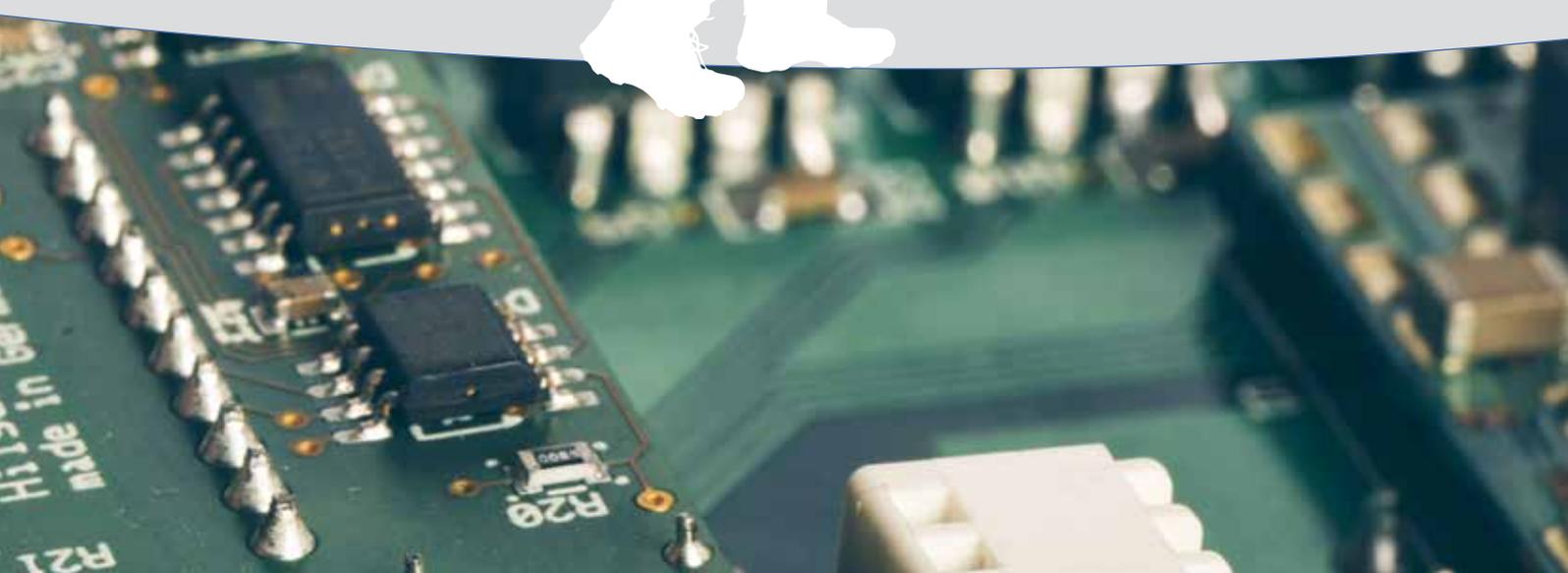
5/16" (7.93 mm)		
Item No.	Type	L
PZD2A	2	35
PZD3A	3	35
PZD4A	4	35

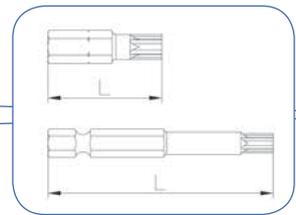


1/4" Long			
Item No.	Type	L	D
VPPZD0/50	0	50	3
VPPZD1/50	1	50	4.5
VPPZD2/50	2	50	6
VPPZD3/50	3	50	6
VPPZD4/50	4	50	9
VPPZD0/70	0	70	3
VPPZD1/70	1	70	4.5
VPPZD2/70	2	70	6
VPPZD3/70	3	70	6
VPPZD4/70	4	70	9
VPPZD0/90	0	90	3
VPPZD1/90	1	90	4.5
VPPZD2/90	2	90	6
VPPZD3/90	3	90	6
VPPZD4/90	4	90	9
VPPZD0/150	0	150	3
VPPZD1/150	1	150	4.5
VPPZD2/150	2	150	6
VPPZD3/150	3	150	6



7/16" Long			
Item No.	Type	L	D
VMPZD2/90	2	90	6
VMPZD3/90	3	90	7.5
VMPZD4/90	4	90	9




**1/4" Short (6.35 mm)**

Item No.	Type	L
TX30/18	T30	18


**1/4" (6.35 mm)**

Item No.	Type	L
TX2	T2	25
TX3	T3	25
TX4	T4	25
TX5	T5	25
TX6	T6	25
TX7	T7	25
TX8	T8	25
TX9	T9	25
TX10	T10	25
TX15	T15	25
TX20	T20	25
TX25	T25	25
TX27	T27	25
TX30	T30	25
TX40	T40	25

**1/4" Tamper**

Item No.	Type	L
TX10P	T10	25
TX15P	T15	25
TX20P	T20	25
TX25P	T25	25
TX27P	T27	25
TX30P	T30	25
TX40P	T40	25


**5/16" (7.93 mm)**

Item No.	Type	L
TX25A	T25	35
TX27A	T27	35
TX30A	T30	35
TX40A	T40	35
TX45A	T45	35
TX50A	T50	35
TX55A	T55	35

**7/16" (11.11 mm)**

Item No.	Type	L
VMTX40/90	T40	90
VMTX50/90	T50	90
VMTX55/90	T55	90

**1/2" (12.70 mm)**

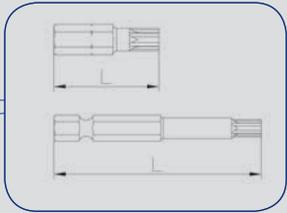
Item No.	Type	L
TX50B	T50	50
TX55B	T55	50
TX60B	T60	50


**1/4" Long**

Item No.	Type	L	A	D
VPTX5/50	T5	50	1.37	3.2
VPTX6/50	T6	50	1.67	3.2
VPTX7/50	T7	50	1.99	3.2
VPTX8/50	T8	50	2.31	3.2
VPTX9/50	T9	50	2.5	3.2
VPTX10/50	T10	50	2.74	4
VPTX15/50	T15	50	3.27	4
VPTX20/50	T20	50	3.86	4.8
VPTX25/50	T25	50	4.43	4.8
VPTX27/50	T27	50	4.99	6
VPTX30/50	T30	50	5.52	6
VPTX40/50	T40	50	6.65	7
VPTX6/70	T6	70	1.67	3.2
VPTX7/70	T7	70	1.99	3.2
VPTX8/70	T8	70	2.31	3.2
VPTX9/70	T9	70	2.5	3.2
VPTX10/70	T10	70	2.74	4
VPTX15/70	T15	70	3.27	4
VPTX20/70	T20	70	3.86	4.8
VPTX25/70	T25	70	4.43	4.8
VPTX27/70	T27	70	4.99	6
VPTX30/70	T30	70	5.52	6
VPTX40/70	T40	70	6.65	7
VPTX45/75	T45	75	7.60	8
VPTX6/90	T6	90	1.67	3.2
VPTX7/90	T7	90	1.99	3.2
VPTX8/90	T8	90	2.31	3.2
VPTX9/90	T9	90	2.5	3.2
VPTX10/90	T10	90	2.74	4
VPTX15/90	T15	90	3.27	4
VPTX20/90	T20	90	3.86	4.8
VPTX25/90	T25	90	4.43	4.8
VPTX27/90	T27	90	4.99	6
VPTX30/90	T30	90	5.52	6
VPTX40/90	T40	90	6.65	7
VPTX6/150	T6	150	1.67	3.2
VPTX7/150	T7	150	1.99	3.2
VPTX8/150	T8	150	2.31	3.2
VPTX9/150	T9	150	2.5	3.2

• TORX® is a registered trademark of Acument Global Technologies LLC.





1/4" (6.35 mm)		
Item No.	Type	L
IP3	T3	25
IP6	T6	25
IP7	T7	25
IP8	T8	25
IP9	T9	25
IP10	T10	25
IP15	T15	25
IP20	T20	25
IP25	T25	25
IP27	T27	25
IP30	T30	25
IP40	T40	25

1/4" (6.35 mm) Tamper		
Item No.	Type	L
IPR10	T10	25
IPR15	T15	25
IPR20	T20	25
IPR25	T25	25
IPR27	T27	25
IPR30	T30	25
IPR40	T40	25



1/4" Long			
Item No.	Type	L	D
VPIP3/50	T3	50	3.2
VPIP6/50	T6	50	3.2
VPIP7/50	T7	50	3.2
VPIP8/50	T8	50	3.2
VPIP9/50	T9	50	3.2
VPIP10/50	T10	50	4
VPIP15/50	T15	50	4
VPIP20/50	T20	50	4.8
VPIP25/50	T25	50	4.8
VPIP27/50	T27	50	6
VPIP30/50	T30	50	6
VPIP40/50	T40	50	7
VPIP3/70	T3	70	3.2
VPIP6/70	T6	70	3.2
VPIP7/70	T7	70	3.2
VPIP8/70	T8	70	3.2
VPIP9/70	T9	70	3.2
VPIP10/70	T10	70	4
VPIP15/70	T15	70	4
VPIP20/70	T20	70	4.8
VPIP25/70	T25	70	4.8
VPIP27/70	T27	70	6
VPIP30/70	T30	70	6
VPIP40/70	T40	70	7
VPIP3/90	T3	90	3.2
VPIP6/90	T6	90	3.2
VPIP7/90	T7	90	3.2
VPIP8/90	T8	90	3.2
VPIP9/90	T9	90	3.2
VPIP10/90	T10	90	4
VPIP15/90	T15	90	4
VPIP20/90	T20	90	4.8
VPIP25/90	T25	90	4.8
VPIP27/90	T27	90	6
VPIP30/90	T30	90	6
VPIP40/90	T40	90	7

- TORX-PLUS® is a registered trademark of Acument Global Technologies LLC.

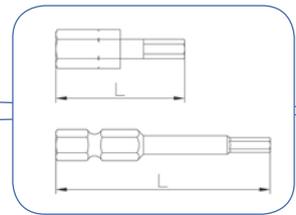


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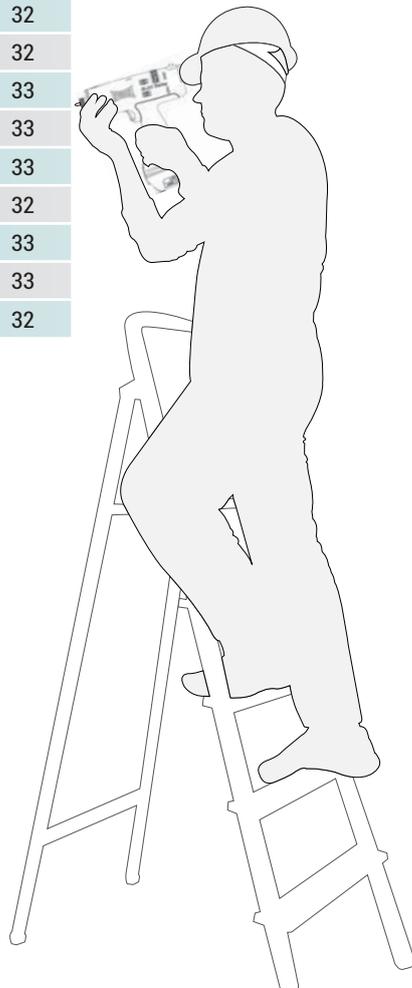


### 1/4" (6.35 mm)

Item No.	Type	L
EM2	2	25
EM2.5	2.5	25
EM3	3	25
EM4	4	25
EM5	5	25
EM6	6	25
EM7	7	25
EM8	8	25
EM10	10	25
EM1/4	1/4	25
EM1/8	1/8	25
EM3/16	3/16	25
EM5/32	5/32	25
EM7/32	7/32	25
EM7/64	7/64	25
EM9/64	9/64	25

### 5/16" (7.93 mm)

Item No.	Type	L
EM4A	4	32
EM5A	5	32
EM6A	6	32
EM7A	7	33
EM8A	8	33
EM10A	10	33
EM1/4A	1/4	32
EM3/8A	3/8	33
EM5/16A	5/16	33
EM7/32A	7/32	32



### 1/4" Long

Item No.	Type	L
VPEM1.5/50	1.5	50
VPEM2/50	2	50
VPEM2.5/50	2.5	50
VPEM3/50	3	50
VPEM4/50	4	50
VPEM5/50	5	50
VPEM6/50	6	50
VPEM7/50	7	50
VPEM8/50	8	50



### 7/16" (11.11 mm)

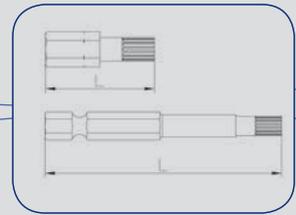
Item No.	Type	L
VMEM1.5/90	1.5	90
VMEM2/90	2	90
VMEM2.5/90	2.5	90
VMEM3/90	3	90
VMEM4/90	4	90
VMEM5/90	5	90
VMEM6/90	6	90
VMEM7/90	7	90
VMEM8/90	8	90
VMEM10/90	10	90



### 1/2" (12.70 mm)

Item No.	Type	L
EM10B	10	50
EM11B	11	50
EM12B	12	50
EM14B	14	50
EM17B	17	50
EM19B	19	50
EM1/2B	1/2	50
EM3/4B	3/4	50
EM5/8B	5/8	50
EM7/16B	7/16	50
EM9/16B	9/16	50

# Double Hex.



1/4" (6.35 mm)		
Item No.	Type	L
BH4	M4	25
BH5	M5	25
BH6	M6	25
BH8	M8	25
BH9	M9	25
BH10	M10	25



5/16" (7.93 mm)			
Item No.	Type	L	D
BH6A	M6	30	5
BH8A	M8	30	6
BH10A	M10	30	8
BH12A	M12	30	9.5
BH14A	M14	30	11
BH16A	M16	30	13

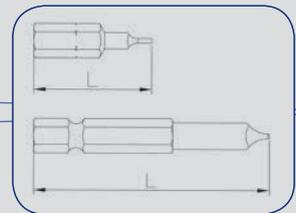


1/4" Long			
Item No.	Type	L	D
VPBH4	M4	50	3
VPBH5	M5	50	4
VPBH6	M6	50	5
VPBH8	M8	50	6
VPBH10	M10	50	8
VPBH12	M12	50	9.5



7/16" (11.11 mm)			
Item No.	Type	L	D
VMBH5	M5	30	5
VMBH6	M6	30	6
VMBH8	M8	30	8
VMBH10	M10	30	9.5
VMBH12	M12	30	11
VMBH14	M14	30	13

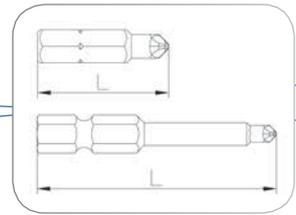
# Square



1/4" Long		
Item No.	Type	L
VPSQ0/50	0	50
VPSQ1/50	1	50
VPSQ2/50	2	50
VPSQ3/50	3	50
VPSQ4/50	4	50
VPSQ0/70	0	70
VPSQ1/70	1	70
VPSQ2/70	2	70
VPSQ3/70	3	70
VPSQ4/70	4	70
VPSQ0/90	0	90
VPSQ1/90	1	90
VPSQ2/90	2	90
VPSQ3/90	3	90
VPSQ4/90	4	90



1/4" (6.35 mm)		
Item No.	Type	L
SQ0	0	25
SQ1	1	25
SQ2	2	25
SQ3	3	25
SQ4	4	25



**1/4"**

Item No.	Type	L
TS0	0	32
TS1	1	32
TS2	2	32
TS3	3	32
TS4	4	32
TS5	5	32
TS6	6	32
TS8	8	32
TS10	10	32

**ACR 1/4"**

Item No.	Type	L
TS1/4ACR	1/4	32
TS6ACR	6	32
TS8ACR	8	32
TS10ACR	10	32



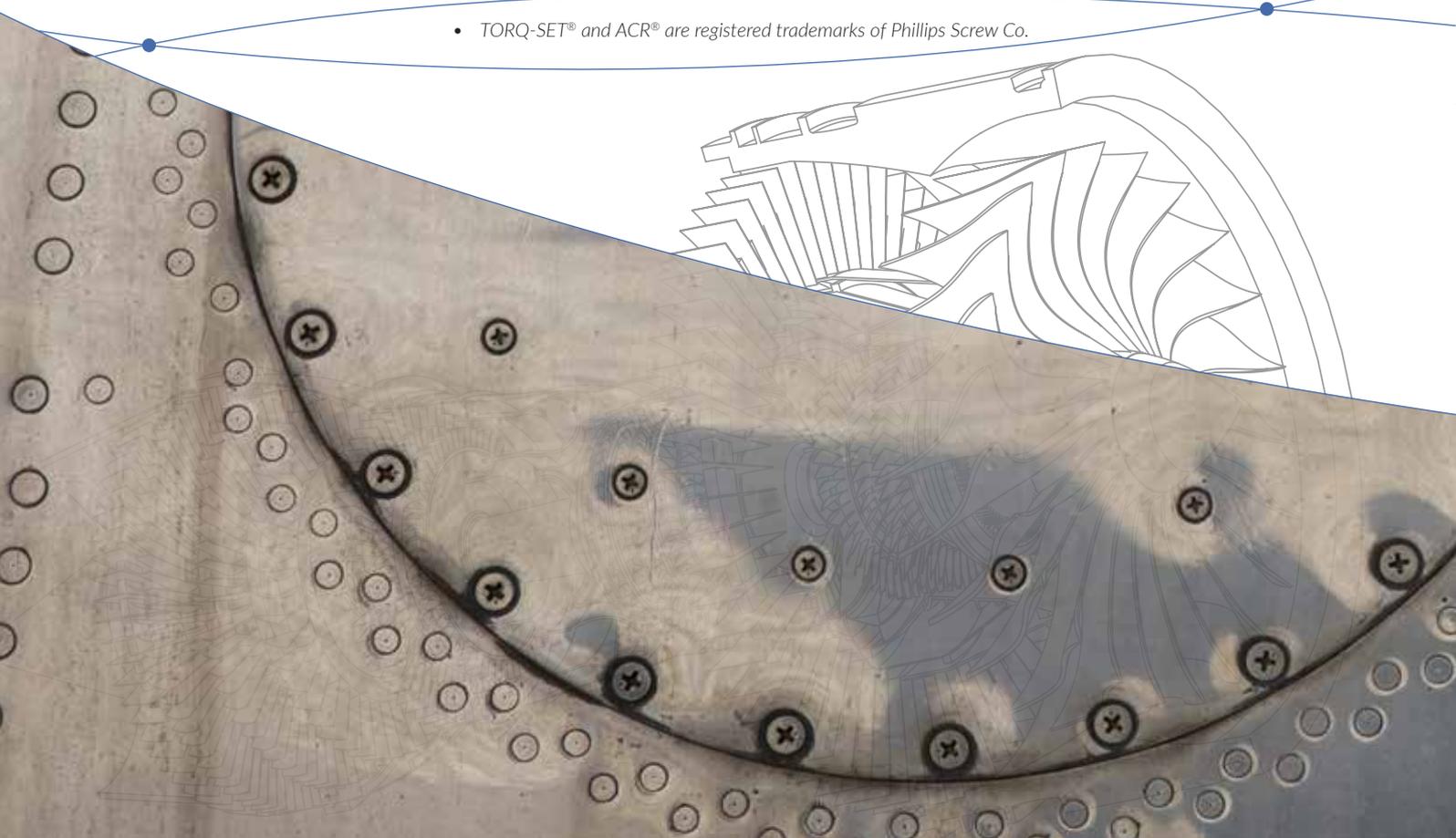
**5/16" (7.93 mm)**

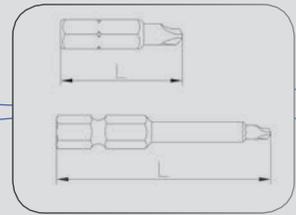
Item No.	Type	L
TS1/4A	1/4	32
TS10A	10	32
TS3/8A	3/8	32
TS5/16A	5/16	32
TS8A3	8	32

**ACR 5/16"**

Item No.	Type	L
TS1/4ACR	1/4	32
TS5/16ACR	5/16	32
TS8AACR	8	32
TS10AACR	10	32

• TORQ-SET® and ACR® are registered trademarks of Phillips Screw Co.





1/4"		
Item No.	Type	L
TW2	2	32
TW3	3	32
TW4	4	32
TW5	5	32
TW6	6	32

ACR 1/4"		
Item No.	Type	L
TW0ACR	0	32
TW1ACR	1	32
TW2ACR	2	32
TW3ACR	3	32
TW4ACR	4	32
TW5ACR	5	32
TW6ACR	6	32
TW7ACR	7	32

5/16" (7.93 mm)		
Item No.	Type	L
TW4A	4	32
TW5A	5	32
TW6A	6	32
TW7A	7	32
TW8A	8	32

ACR 5/16"		
Item No.	Type	L
TW4ACR	4	32
TW5ACR	5	32
TW6ACR	6	32
TW7ACR	7	32
TW8ACR	8	32



• TRI-WING® is a registered trademark of Phillips Screw Co.



# Hex. Insert Bit Holder 1/4"



1/4"			
Item No.	L	Hex. M	Hex. F
2570	55	1/4	1/4
2571	55	1/4	5/16
2576	70	7/16	1/4
2577	70	7/16	5/16
2590	55	5/16	1/4
2591	55	5/16	5/16

# Magnetic Bit Holder 1/4"



1/4" WITH RETAINING RING			
Item No.	L	D	L3
553	60	7	44
553/3	75	7	44
553/4	100	7	44
553/5	125	7	44
553/6	150	7	44
553/7	175	7	44
553/8	200	7	44
553/10	250	7	44
553/12	300	7	44

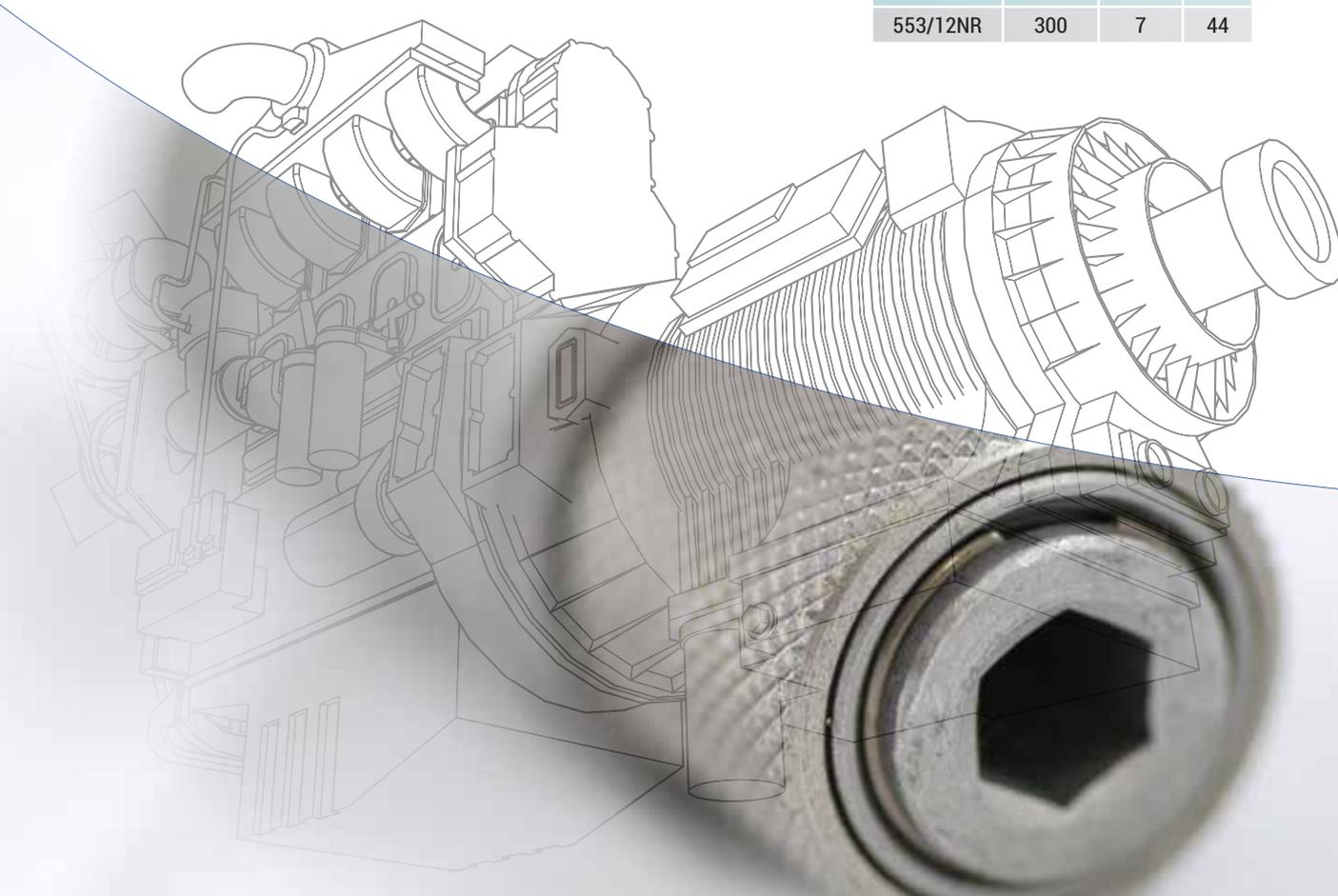
  

1/4" WITHOUT RETAINING RING			
Item No.	L	D	L3
553/3NR	75	7	44
553/8NR	200	7	44
553/10NR	250	7	44
553/12NR	300	7	44

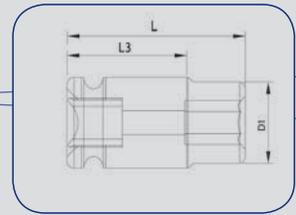
# Quick Release Bit Holder 1/4"



1/4"			
Item No.	L	D	L3
553RAP	60	7	44
553/3RAP	75	7	44
553/4RAP	100	7	44



# Bit Holders



1/4" MAGNETIC					
Item No.	L	Sq. Drive	Hex.	D	D1
R51-1/4	57	1/4	1/4	12.5	11
R51-5/16	65	5/16	1/4	14	14
3/8" MAGNETIC					
Item No.	L	Sq. Drive	Hex.	D	D1
J51-1/4	65	1/4	3/8	10	13
J51-5/16	70	5/16	3/8	13	19
1/2" MAGNETIC					
Item No.	L	Sq. Drive	Hex.	D	D1
S51-1/4	70	1/4	1/2	10	13



1/4" WITH RETAINING RING				
Item No.	L	Hex.	D	D1
R28-1/4	25	1/4	12.5	13
R28-5/16	25	5/16	14	19
1/4" SET SCREW				
Item No.	L	Hex.	D	D1
R28-1/4V	32	1/4	12.5	13
R28-5/16V	25	5/16	14	19
3/8" WITH RETAINING RING				
Item No.	L	Hex.	D	D1
J28-1/4	30	1/4	10	13
J28-5/16	33	5/16	13	19
3/8" SET SCREW				
Item No.	L	Hex.	D	D1
J28-1/4V	30	1/4	10	13
J28-5/16V	33	5/16	13	19
1/2" WITH RETAINING RING				
Item No.	L	Hex.	D	D1
S28-1/4	40	1/4	11	25
S28-5/16	40	5/16	21	25
S28-1/2	40	1/2	21	25
1/2" SET SCREW				
Item No.	L	Hex.	D	D1
S28-1/4V	38	1/4	11	25
S28-7/16V	38	7/16	19	25
S28-1/2V	38	1/2	21	25
S28-5/16V	38	5/16	21	25



## Quick Release



Item No.	L	Sq. Dr.	Hex. F
R100VP	38	1/4	1/4
J100VP	44.5	3/8	1/4
J100VI	44.5	3/8	5/16
J100VM	50.8	3/8	7/16
S100VP	54	1/2	1/4
S100VI	54	1/2	5/16
S100VM	54	1/2	7/16

# Sockets

We carry a complete line of impact sockets of great quality with a large variety of lengths and sizes. We also include in our catalogue the “Fast lead” and “Surface Drive” for those difficult situations that request a fast coupling.

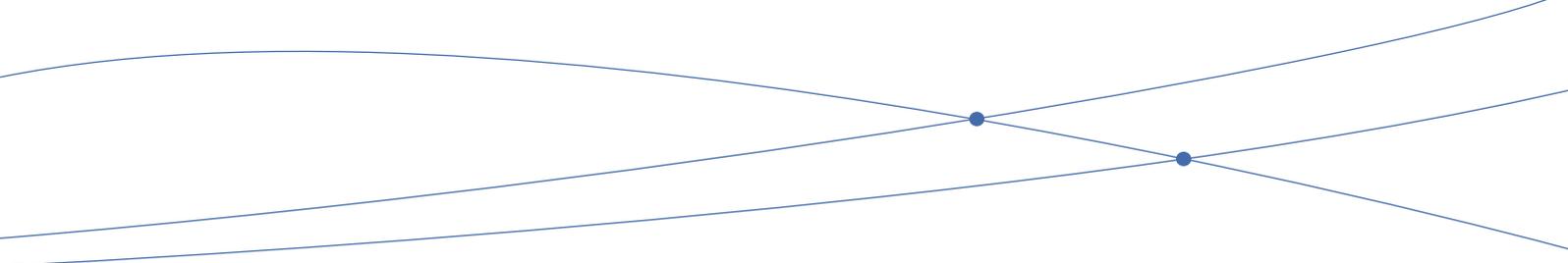
You can find our magnets in different options, such as: fixed, spring loaded type, and side wall magnets. They reduce drastically time and access difficulties.

The spring magnets allow the bolt to recess into the socket body as the nut is driven down. For fix Magnet, add an “M” at the end of the Item No., for lateral Magnet “APM” and for spring Magnet “HRM”.

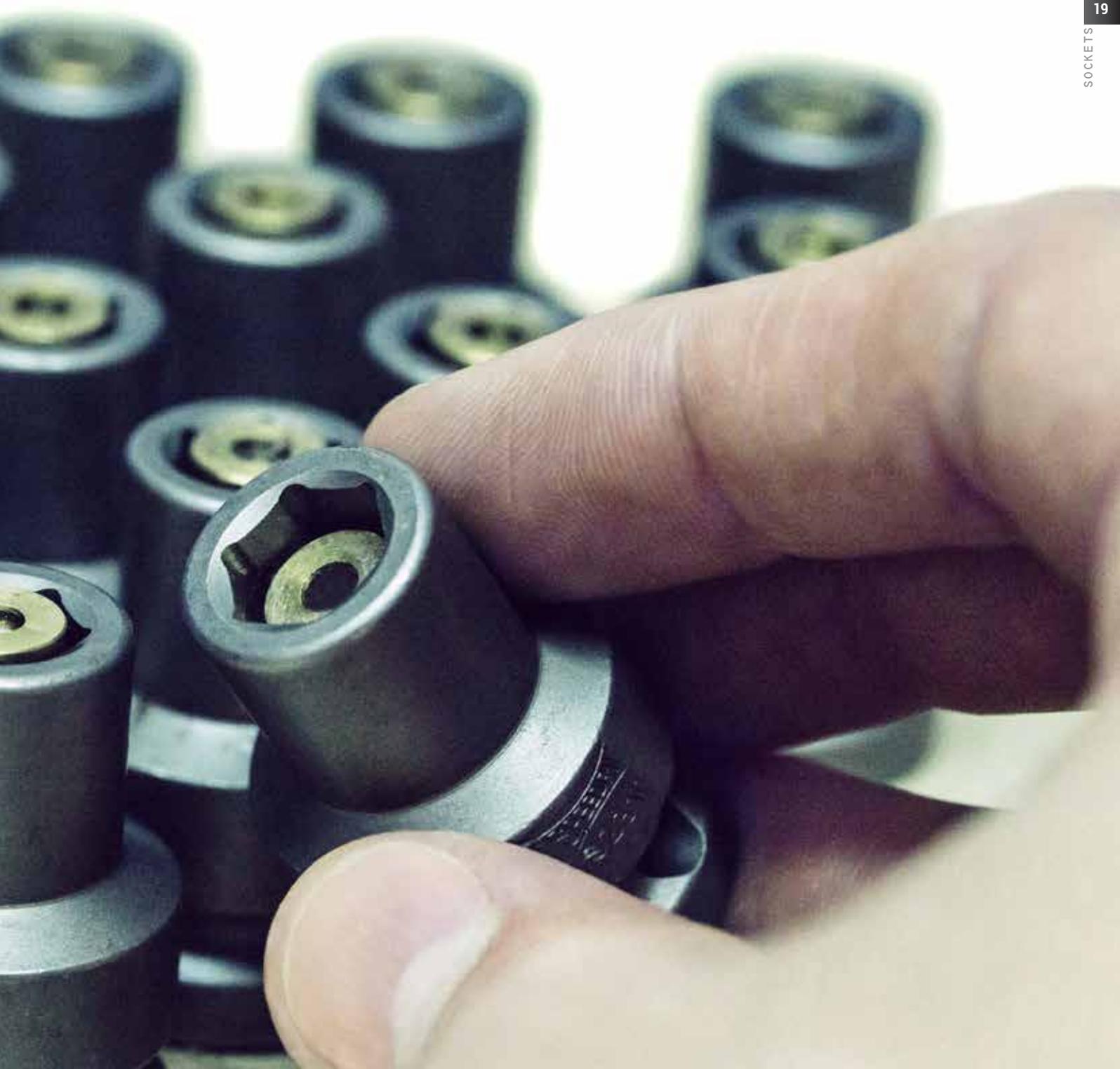
-  Hexagonal
-  Square
-  Surface Drive
-  Fast Lead
-  Double Hex.
-  Torx®

-  Short
-  Standard
-  Medium
-  Long
-  Extra Long



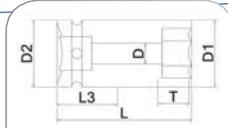


KEY WORDS	
<b>C:</b> Short	<b>APM:</b> Side Magnet
<b>H:</b> Standard	<b>HRM:</b> Spring Magnet
<b>JL:</b> Medium	<b>HER:</b> Fast Lead
<b>XL:</b> Extra Long	<b>SD:</b> Surface Drive
<b>M:</b> Fix Magnet	<b>TEF:</b> Protected



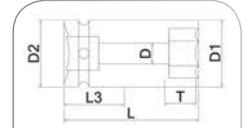
## 6 Point

## Long 6 Point



1/4"

Item No.	L	S	D1	D2	ØD	L3	T
R2304H	25	4	7.8	13	3	13	4.5
R2305H	25	5	9	13	5	13	5.5
R2305.5H	25	5.5	9.6	13	5	13	5.5
R2306H	25	6	10	13	6	13	5.5
R2307H	25	7	12.5	13	6	13	5.5
R2308H	25	8	13	13	6	13	5.5
R2309H	25	9	14	13	7	7	6.5
R2310H	25	10	15	13	8	7	6.5
R2311H	25	11	17	13	9	7	7.5
R2312H	25	12	18	13	10	7	7.5
R2313H	25	13	19	13	11	7	8.5

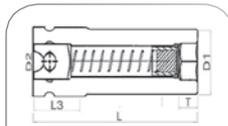


1/4"

Item No.	L	S	D1	D2	ØD	L3	T
R2305HL	50	5	8.8	13	5	13	5
R2305.5HL	50	5.5	9.4	13	5	13	5
R2306HL	50	6	10	13	6	13	5
R2307HL	50	7	11.4	13	6	13	5
R2308HL	50	8	12.5	13	6	13	5
R2309HL	50	9	14	13	7	7	6
R2310HL	50	10	15	13	8	7	6
R2311HL	50	11	16.3	13	9	7	7
R2312HL	50	12	17.5	13	10	7	7
R2313HL	50	13	18.7	13	11	7	8

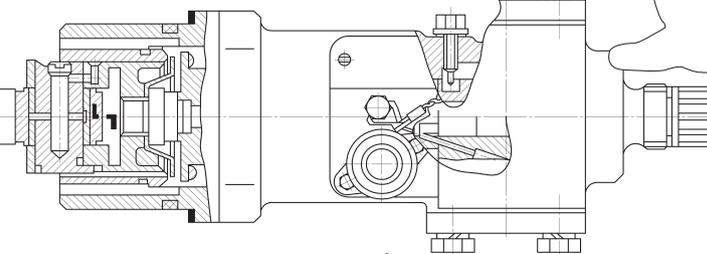
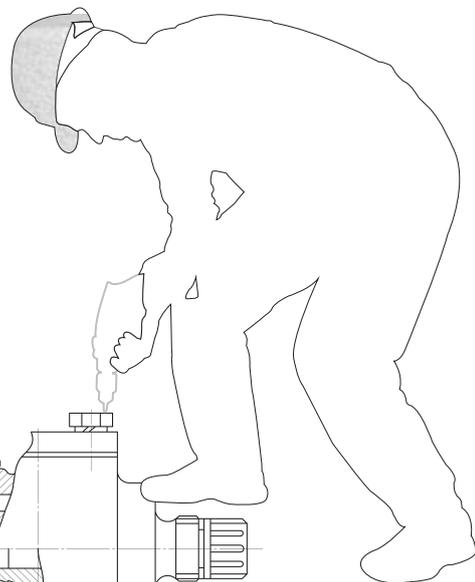
 All items are available magnetized adding **M** at the end of the item No. or lateral magnet adding **APM** at the end of the item No.

## Floating Magnet



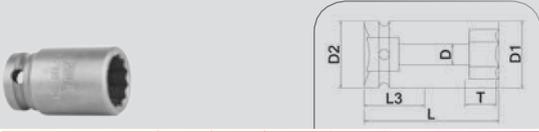
1/4"

Item No.	L	S	D1	D2	L3	T
R2307HRM	50	7	15	13	13	2.8
R2308HRM	50	8	15	13	13	3.3
R2309HRM	50	9	15	13	13	3.8
R2310HRM	50	10	15	13	7	3.8
R2311HRM	50	11	16	13	7	4.9
R2312HRM	50	12	18	13	7	5
R2313HRM	50	13	19	13	7	5.4

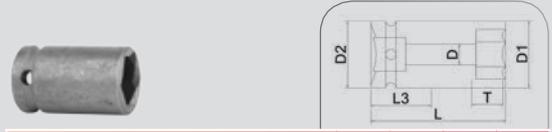


# Double Hex.

# Fast Lead



1/4"							
Item No.	L	S	D1	D2	ØD	L3	T
R2306BH	25	6	10	13	5	13	5
R2307BH	25	7	12	13	5	13	5
R2308BH	25	8	12.5	13	6	13	5
R2309BH	25	9	14	13	7	7	6
R2310BH	25	10	15	13	8	7	6

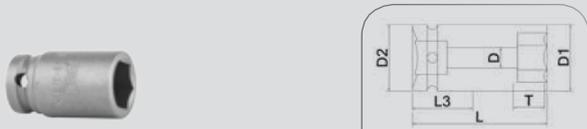


1/4"							
Item No.	L	S	D1	D2	ØD	L3	T
R2306HER	25	6	10	13	5	13	5
R2307HER	25	7	12	13	5	13	5
R2308HER	25	8	12.5	13	6	13	5
R2309HER	25	9	14	13	7	7	6
R2310HER	25	10	15	13	8	7	6

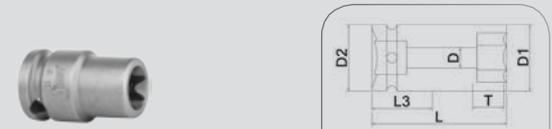
All items are available magnetized adding **M** at the end of the item No. or lateral magnet adding **APM** at the end of the item No.

# SAE

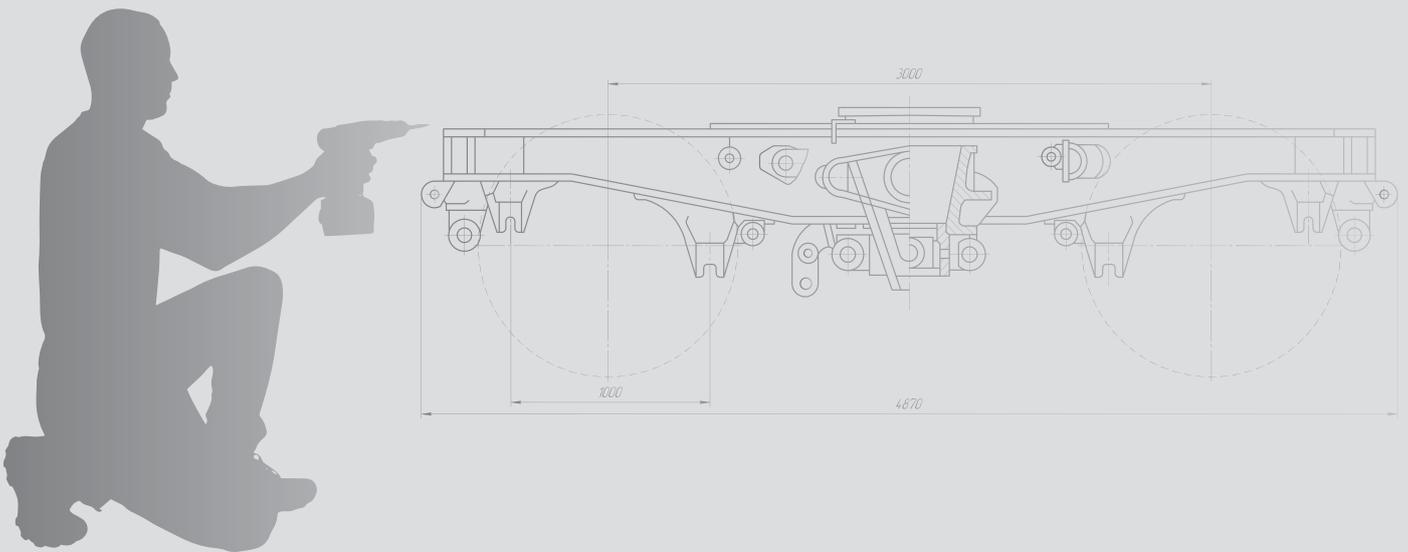
# Torx®



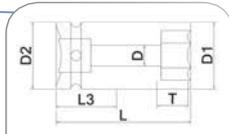
1/4"							
Item No.	L	S	D1	D2	ØD	L3	T
R23-1/4H	25	1/4	10.4	13	6	13	4
R23-3/8H	25	3/8	14.4	13	7	13	6
R23-5/16H	25	5/16	12.4	13	6	13	4.5
R23-1/2H	25	1/2	18.4	13	10	7	7



1/4"							
Item No.	L	S	D1	D2	ØD	L3	T
RE4	25	E4	6	13	1.5	13	3.6
RE5	25	E5	7	13	2	13	4.5
RE6	25	E6	8.5	13	3	13	4.5
RE7	25	E7	9.5	13	4	13	6
RE8	25	E8	10	13	4	13	6
RE10	25	E10	14	13	4.5	13	8
RE12	25	E12	15.9	13	6	13	8.5



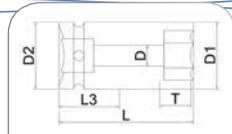
## 6 Point



3/8"

Item No.	L	S	D1	D2	ØD	L3	T
J2306H	34	6	10	19	5	16	5
J2307H	34	7	12.5	19	5	16	5
J2308H	34	8	13.8	19	6	16	5
J2309H	34	9	15	19	7	16	6
J2310H	34	10	16.3	19	8	16	6
J2311H	34	11	17.5	19	9	16	7
J2312H	34	12	19	19	10	16	7
J2313H	34	13	20	22	11	16	8
J2314H	34	14	21.3	22	12	16	8
J2315H	34	15	22	22	13	10	9
J2316H	34	16	23.8	22	14	10	9
J2317H	34	17	25	22	15	10	10
J2318H	34	18	26	22	16	10	10
J2319H	34	19	27.5	22	17	10	12
J2321H	34	21	30	22	18	10	12
J2322H	34	22	32	22	19	10	12
J2323H	34	23	34	22	20	10	12
J2324H	34	24	35	22	21	10	15

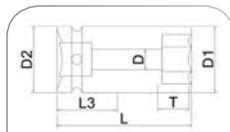
## Short 6 Point



3/8"

Item No.	L	S	D1	D2	ØD	L3	T
J2306HC	26	6	11.5	19	4	18	3
J2307HC	26	7	12.5	19	6	18	5
J2308HC	26	8	13.8	19	6	18	6
J2310HC	26	10	16.3	19	8	18	6
J2311HC	26	11	17.5	19	9	18	7
J2312HC	26	12	19	19	10	18	7
J2313HC	26	13	20	22	11	18	8
J2314HC	26	14	21.3	22	12	18	6.5
J2315HC	26	15	22	22	13	10	7.5
J2316HC	26	16	23.8	22	14	10	9
J2317HC	26	17	25	22	15	10	10

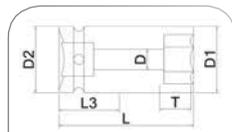
## Long 6 Point



3/8"

Item No.	L	S	D1	D2	ØD	L3	T
J2306HL	50	6	10.8	19	6	18	5
J2307HL	50	7	12.5	19	6	18	6
J2308HL	50	8	13.8	19	6	18	6
J2309HL	50	9	15	19	7	18	7
J2310HL	50	10	16.3	19	8	18	7
J2311HL	50	11	17.5	19	9	18	8
J2312HL	50	12	19	19	10	18	9
J2313HL	50	13	20	22	11	18	9
J2314HL	50	14	21.3	22	12	18	12
J2315HL	50	15	22.5	22	13	10	13
J2316HL	50	16	23.8	22	14	10	14
J2317HL	50	17	25	22	15	10	14
J2318HL	50	18	26	22	16	10	14
J2319HL	50	19	27.5	22	17	10	14
J2321HL	50	21	30	22	18	10	14
J2322HL	50	22	32	22	19	10	14
J2323HL	50	23	34	22	20	10	14
J2324HL	50	24	35	22	21	10	14

## Extra Long 6 Point

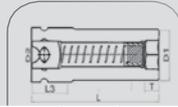


3/8"

Item No.	L	S	D1	D2	ØD	L3	T
J2307HXL	90	7	12.5	19	5	18	6
J2308HXL	90	8	13.8	19	6	18	6
J2309HXL	90	9	15	19	7	18	7
J2310HXL	90	10	16.3	19	8	18	8
J2311HXL	90	11	17.5	19	9	18	9
J2312HXL	90	12	19	19	10	18	9
J2313HXL	90	13	20	22	11	18	14
J2314HXL	90	14	21.3	22	12	18	14
J2315HXL	90	15	22.5	22	13	10	14
J2316HXL	90	16	23.8	22	14	10	14
J2317HXL	90	17	25	22	15	10	14
J2318HXL	90	18	26.3	22	16	10	14
J2319HXL	90	19	27.5	22	17	10	14
J2321HXL	90	21	30	22	18	10	14
J2322HXL	90	22	32	22	19	10	14

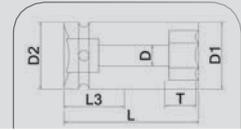
 All items are available magnetized adding **M** at the end of the item No. or lateral magnet adding **APM** at the end of the item No.

## Floating Magnet



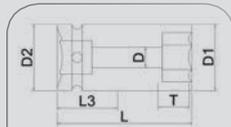
3/8"							
Item No.	L	S	D1	D2	L3	T	
J2308HRM	50	8	13.8	19	18	2.85	
J2309HRM	50	9	15	19	18	2.85	
J2310HRM	50	10	16.3	19	18	3.3	
J2311HRM	50	11	17.5	19	18	3.3	
J2312HRM	50	12	18	19	18	4.9	
J2313HRM	50	13	20	22	18	4.9	
J2314HRM	50	14	21.3	22	18	5.3	
J2315HRM	50	15	22.5	22	10	5.3	
J2316HRM	50	16	23.8	22	10	6	
J2317HRM	50	17	25	22	10	6	

## Double Hex.



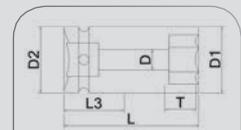
3/8"							
Item No.	L	S	D1	D2	ØD	L3	T
J2307BH	34	7	12.5	19	5	18	3.5
J2308BH	34	8	13.8	19	6	18	3.5
J2309BH	34	9	15	19	7	18	4.5
J2310BH	34	10	16.3	19	8	18	4.5
J2311BH	34	11	17.5	19	9	18	5.5
J2312BH	34	12	19	19	10	18	5.5
J2313BH	34	13	20	22	11	18	6.5
J2314BH	34	14	21.3	22	12	18	6.5
J2315BH	34	15	22	22	13	18	7.5
J2316BH	34	16	23.8	22	14	10	7.5
J2317BH	34	17	25	22	15	10	8.5
J2318BH	34	18	26	22	16	10	8.5
J2319BH	34	19	27.5	22	17	10	10.5

## Fast Lead



3/8"							
Item No.	L	S	D1	D2	ØD	L3	T
J2308HER	34	8	13.8	19	6	18	5
J2309HER	34	9	15	19	7	18	6
J2310HER	34	10	16.3	19	8	18	6
J2311HER	34	11	17.5	19	9	18	7
J2312HER	34	12	19	19	10	18	7
J2313HER	34	13	20	22	11	18	8
J2314HER	34	14	21.3	22	12	18	8
J2315HER	34	15	22	22	13	10	9
J2316HER	34	16	23.8	22	14	10	9
J2317HER	34	17	25	22	15	10	10
J2318HER	34	18	26	22	16	10	10
J2319HER	34	19	27.5	22	17	10	12
J2321HER	34	21	30	22	18	10	12

## SAE

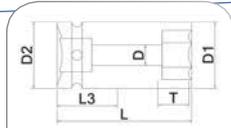


3/8"							
Item No.	L	S	D1	D2	ØD	L3	T
J23-1/4H	34	1/4	10.4	19	6	18	5
J23-5/16H	34	5/16	12.7	19	6	18	6
J23-3/8H	34	3/8	15	19	7	18	6
J23-7/16H	34	7/16	17.4	19	9	18	7
J23-1/2H	34	1/2	20.6	22	10	18	8
J23-3/4H	34	3/4	26.9	22	17	10	11

 All items are available magnetized adding **M** at the end of the item No. or lateral magnet adding **APM** at the end of the item No.

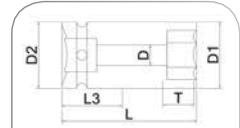
# Surface Drive

# Torx®



3/8"

Item No.	L	S	D1	D2	ØD	L3	T
J2307SD	34	7	12.5	19	6	18	5
J2309SD	34	9	15	19	7	18	6
J2310SD	34	10	16.3	19	8	18	6
J2311SD	34	11	17.5	19	9	18	7
J2312SD	34	12	19	19	10	18	7
J2313SD	34	13	20	22	11	18	8
J2314SD	34	14	21.3	22	12	18	8
J2315SD	34	15	22	22	13	18	9
J2316SD	34	16	23.8	22	14	10	9
J2317SD	34	17	25	22	15	10	10
J2318SD	34	18	26	22	16	10	10
J2319SD	30	19	27.5	22	17	10	12



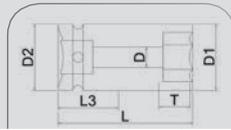
3/8"

Item No.	L	Type	D1	D2	L3	T
JE5	30	E5	8	19	18	4.2
JE6	30	E6	9	19	18	4.5
JE7	30	E7	10	19	18	6
JE8	30	E8	11.5	19	18	6
JE10	37.5	E10	13.5	19	18	7.2
JE12	37.5	E12	15	19	18	8.5
JE14	37.5	E14	17	19	18	10
JE15	37.5	E15	19	19	18	11



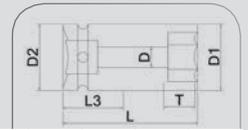
All items are available magnetized adding **M** at the end of the item No. or lateral magnet adding **APM** at the end of the item No.

## 6 Point



1/2"							
Item No.	L	S	D1	D2	ØD	L3	T
S2308H	38	8	15	25	6	20	5
S2309H	38	9	16	25	7	20	6
S2310H	38	10	17	25	8	20	6
S2311H	38	11	18.5	25	9	20	7
S2312H	38	12	20	25	10	20	7
S2313H	38	13	21	25	11	20	8
S2314H	38	14	22.5	25	12	20	8
S2315H	38	15	23	30	13	20	8
S2316H	38	16	25	30	14	20	10
S2317H	38	17	26	30	15	20	10
S2318H	38	18	27.5	30	16	20	11
S2319H	38	19	28.5	30	17	20	12
S2320H	38	20	30	30	18	13	12
S2321H	38	21	31	30	18	13	12
S2322H	38	22	32.5	30	19	13	12
S2323H	38	23	34	30	20	13	12
S2324H	38	24	35	30	21	13	17
S2325H	45	25	36	30	22	13	17
S2326H	45	26	37.5	30	23	13	19
S2327H	45	27	38.5	30	23	13	19
S2328H	47	28	40	30	24	13	20
S2329H	47	29	41	30	25	13	20
S2330H	50	30	42	30	25	13	22

## Long 6 Point



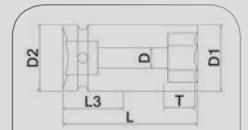
1/2"							
Item No.	L	S	D1	D2	ØD	L3	T
S2308HL	80	8	15	25	6	25	10
S2309HL	80	9	16	25	7	25	10
S2310HL	80	10	17	25	8	25	11
S2311HL	80	11	18.5	25	9	25	11
S2312HL	80	12	20	25	10	25	11
S2313HL	80	13	21	25	11	25	11
S2314HL	80	14	22.5	25	12	25	13
S2315HL	80	15	23	30	13	25	13
S2316HL	80	16	25	30	14	25	13
S2317HL	80	17	26	30	15	25	13
S2318HL	80	18	27.5	30	16	25	17
S2319HL	80	19	28.5	30	17	25	17
S2320HL	80	20	30	30	18	25	17
S2321HL	80	21	31	30	18	13	17
S2322HL	80	22	32.5	30	19	13	20
S2323HL	80	23	34	30	20	13	20
S2324HL	80	24	35	30	21	13	23
S2325HL	80	25	36	30	22	13	24
S2326HL	80	26	37.5	30	23	13	25
S2327HL	80	27	38.5	30	23	13	26
S2328HL	80	28	40	30	24	13	27
S2329HL	80	29	41	30	25	13	28
S2330HL	80	30	42	30	25	13	29

## 6 Point Med.



1/2"							
Item No.	L	S	D1	D2	ØD	L3	T
S2310HJL	50	10	17	25	8	20	6
S2311HJL	50	11	18.5	25	9	20	7
S2312HJL	50	12	20	25	10	20	7
S2313HJL	50	13	21	25	11	20	8
S2314HJL	50	14	22.5	25	12	20	8
S2315HJL	50	15	23	30	13	20	8
S2316HJL	50	16	25	30	14	20	10
S2317HJL	50	17	26	30	15	20	10
S2318HJL	50	18	27.5	30	16	20	11
S2319HJL	50	19	28.5	30	17	20	12
S2320HJL	50	20	30	30	18	20	12
S2321HJL	50	21	31	30	18	13	12
S2322HJL	50	22	32.5	30	19	13	12
S2323HJL	50	23	34	30	20	13	12
S2324HJL	50	24	35	30	21	13	17
S2332HJL	50	32	44	30	26	13	22

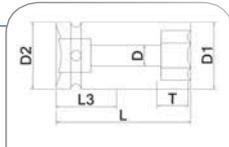
## SAE



1/2"							
Item No.	L	S	D1	D2	ØD	L3	T
S23-3/8H	38	3/8	17	25	7	20	6
S23-7/16H	38	7/16	19	25	9	20	7
S23-1/2H	38	1/2	21	25	10	20	7
S23-3/4H	38	3/4	29	30	17	20	12
S23-15/16H	38	15/16	35	30	21	13	15
S23-1H	38	1	37	30	22	13	16

 All items are available magnetized adding **M** at the end of the item No. or lateral magnet adding **APM** at the end of the item No.

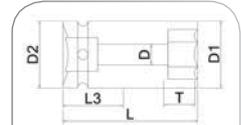
## Double Hex.



1/2"

Item No.	L	S	D1	D2	ØD	L3	T
S2308BH	38	8	15	25	6	20	5
S2309BH	38	9	16	25	7	20	6
S2310BH	38	10	17	25	8	20	6
S2311BH	38	11	18.5	25	9	20	7
S2312BH	38	12	20	25	10	20	7
S2313BH	38	13	21	25	11	20	8
S2314BH	38	14	22.5	25	12	20	8
S2315BH	38	15	23	30	13	20	8
S2316BH	38	16	25	30	14	20	10
S2317BH	38	17	26	30	15	20	10
S2318BH	38	18	27.5	30	16	20	11
S2319BH	38	19	28.5	30	17	20	12
S2320BH	38	20	30	30	18	13	12
S2321BH	38	21	31	30	18	13	12
S2322BH	38	22	32.5	30	19	13	12
S2323BH	38	23	34	30	20	13	12
S2324BH	38	24	35	30	21	13	17

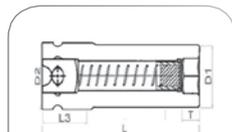
## Fast Lead



1/2"

Item No.	L	S	D1	D2	ØD	L3	T
S2310HER	38	10	17	25	8	20	6
S2311HER	38	11	18.5	25	9	20	7
S2312HER	38	12	20	25	10	20	7
S2313HER	38	13	21	25	11	20	8
S2314HER	38	14	22.5	25	12	20	8
S2315HER	38	15	23	30	13	20	8
S2316HER	38	16	25	30	14	20	10
S2317HER	38	17	26	30	15	20	10
S2318HER	38	18	27.5	30	16	20	11
S2319HER	38	19	28.5	30	17	20	12
S2320HER	38	20	30	30	18	13	12
S2321HER	38	21	31	30	18	13	12
S2322HER	38	22	32.5	30	19	13	12
S2323HER	38	23	34	30	20	13	12
S2324HER	38	24	35	30	21	13	17
S2325HER	45	25	36	30	22	13	17

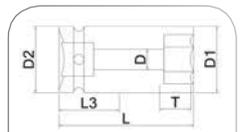
## Floating Magnet



1/2"

Item No.	L	S	D1	D2	ØD	L3	T
S2310HRM	50	10	17	25	8	20	6
S2311HRM	50	11	18.5	25	9	20	7
S2312HRM	50	12	20	25	10	20	7
S2313HRM	50	13	21	25	11	20	8
S2314HRM	50	14	22.5	25	12	20	8
S2315HRM	50	15	23	30	13	20	8
S2316HRM	50	16	25	30	14	20	10
S2317HRM	50	17	26	30	15	20	10
S2318HRM	50	18	27.5	30	16	20	11
S2319HRM	50	19	28.5	30	17	20	12
S2320HRM	50	20	30	30	18	20	12
S2321HRM	50	21	31	30	18	13	12
S2322HRM	50	22	32.5	30	19	13	12
S2323HRM	50	23	34	30	20	13	12
S2324HRM	50	24	35	30	21	13	17

## Surface Drive

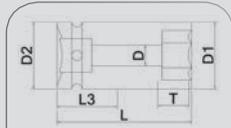


1/2"

Item No.	L	S	D1	D2	ØD	L3	T
S2310SD	38	10	17	25	8	20	6
S2311SD	38	11	18.5	25	9	20	7
S2312SD	38	12	20	25	10	20	7
S2313SD	38	13	21	25	11	20	8
S2314SD	38	14	22.5	25	12	20	8
S2315SD	38	15	23	30	13	20	8
S2316SD	38	16	25	30	14	20	10
S2317SD	38	17	26	30	15	20	10
S2318SD	38	18	27.5	30	16	20	11
S2319SD	38	19	28.5	30	17	20	12
S2320SD	38	20	30	30	18	13	12
S2321SD	38	21	31	30	18	13	12
S2322SD	38	22	32.5	30	20	13	12

All items are available magnetized adding **M** at the end of the item No. or lateral magnet adding **APM** at the end of the item No.

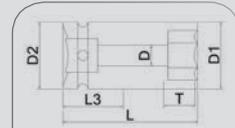
## Square



1/2"

Item No.	L	S	D1	D2	ØD	L3	T
S2308SQ	38	8	18.6	25	6	20	6
S2310SQ	38	10	21.5	25	8	20	7
S2312SQ	38	12	25	25	10	20	7
S2313SQ	38	13	25.7	25	11	20	8
S2314SQ	38	14	27.5	30	12	20	8
S2315SQ	38	15	29	30	13	20	8
S2317SQ	38	17	32	30	15	13	10
S2319SQ	38	19	35	30	17	13	13
S2322SQ	38	22	39.2	30	19	13	13
S2323SQ	38	23	41	30	20	13	13

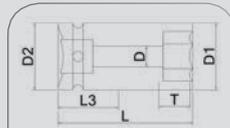
## Torx®



1/2"

Item No.	L	S	D1	D2	ØD	L3	T
SE10	38	E10	14	25	5	20	7
SE11	38	E11	15	25	5	20	7
SE12	38	E12	15.9	25	6	20	7
SE14	38	E14	17.7	25	7	20	7
SE16	38	E16	20	25	8	20	11
SE18	38	E18	22	25	8	20	12
SE20	40	E20	25	25	11	20	14
SE22	40	E22	26	30	11	20	15
SE24	40	E24	30	30	12	20	16

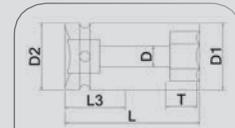
## 6 Point



3/4"

Item No.	L	S	D1	D2	ØD	L3	T
K2315H	50	15	26	38	13	30	11
K2316H	50	16	27	44	14	24	14
K2317H	51	17	31	44	15	24	14
K2318H	51	18	32	44	16	24	14
K2319H	51	19	32.5	44	17	24	14
K2320H	51	20	33.5	44	18	24	14
K2321H	51	21	35	44	18	24	14
K2322H	51	22	36	44	19	24	14
K2323H	51	23	37.5	44	20	24	14
K2324H	51	24	38.5	44	21	24	14
K2325H	53	25	40	44	21	24	16
K2326H	53	26	41	44	22	24	16
K2327H	53	27	42.5	44	23	24	20
K2328H	53	28	44	44	24	24	20
K2330H	53	30	46	44	25	24	20
K2332H	57	32	48.5	44	26	24	21
K2336H	57	36	53.5	44	28	25	21
K2341H	58	41	60	44	32	26	22
K2346H	62	46	66	44	37	27	25

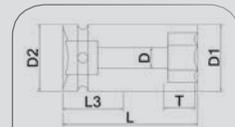
## Fast Lead



3/4"

Item No.	L	S	D1	D2	ØD	L3	T
K2318HER	51	18	31	44	24	16	14
K2319HER	51	19	32.5	44	24	17	14
K2321HER	51	21	35	44	24	18	14

## Surface Drive



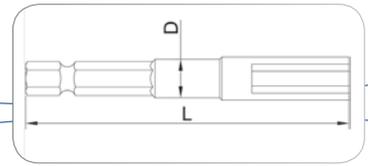
3/4"

Item No.	L	S	D1	D2	ØD	L3	T
K2318SD	51	18	32	44	16	24	14
K2319SD	50	19	33	44	17	24	14
K2321SD	50	21	35	44	19	25	14



All items are available magnetized adding **M** at the end of the item No. or lateral magnet adding **APM** at the end of the item No.

# Adapters 1/4"



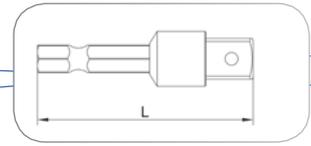
STANDARD 1/4"			
Item No.	L	A	D
2004/1	30	4	9
2005/1	30	5	10
2006/1	30	6	11
2007/1	30	7	11
2008/1	30	8	13
2009/1	30	9	15
2010/1	30	10	16
20-1/4/1	30	1/4	11
20-3/8/1	30	3/8	16
20-5/16/1	30	5/16	13
20-7/16/1	30	7/16	18
2004VPC	50	4	9
2005VPC	50	5	9
2006VPC	50	6	10
2007VPC	50	7	12
2008VPC	50	8	12.5
2009VPC	50	9	14
2010VPC	50	10	14.5
2011VPC	50	11	18
2012VPC	50	12	18
2013VPC	50	13	19
2014VPC	50	14	20
20-3/8VPC	50	3/8	14
20-5/16VPC	50	5/16	13
2004VP	80	4	9
2005VP	80	5	10
2005.5VP	80	5.5	10
2006VP	80	6	11
2007VP	80	7	13
2008VP	80	8	14
2009VP	80	9	15
2010VP	80	10	16
2011VP	80	11	18
2012VP	80	12	19
2013VP	80	13	19
2014VP	80	14	21
20-3/8VP	80	3/8	16
20-5/16VP	80	5/16	14

BALL			
Item No.	L	A	D
2004VPJ	50	4	9
2005VPJ	50	5	9
2006VPJ	50	6	10
2007VPJ	50	7	12
2008VPJ	50	8	13
2009VPJ	50	9	14
2010VPJ	50	10	16
2011VPJ	50	11	18
2012VPJ	50	12	18
2013VPJ	50	13	19
2014VPJ	50	14	20
20-3/8VPJ	50	3/8	14
20-5/16VPJ	50	5/16	13



All items are available magnetized adding **M** at the end of the item No.

# Adapters from Hex. 1/4" to Male Square



BALL				PIN				PIN HOLE			
Item No.	L	Hex. M	M. Sq.	Item No.	L	Hex. M	M. Sq.	Item No.	L	Hex. M	M. Sq.
2520/2A	50	1/4	1/4	2520/2B	50	1/4	1/4	2520/2C	50	1/4	1/4
2520/3A	75	1/4	1/4	2520/3B	75	1/4	1/4	2520/3C	75	1/4	1/4
2520/4A	100	1/4	1/4	2520/4B	100	1/4	1/4	2520/4C	100	1/4	1/4
2520/5A	125	1/4	1/4	2520/5B	125	1/4	1/4	2520/5C	125	1/4	1/4
2520/6A	150	1/4	1/4	2520/6B	150	1/4	1/4	2520/6C	150	1/4	1/4
2520/8A	200	1/4	1/4	2520/8B	200	1/4	1/4	2520/8C	200	1/4	1/4
2520/10A	250	1/4	1/4	2520/10B	250	1/4	1/4	2520/10C	250	1/4	1/4
2520/12A	300	1/4	1/4	2520/12B	300	1/4	1/4	2520/12C	30	1/4	1/4
2521/2A	50	1/4	3/8	2521/2B	50	1/4	3/8	2521/2C	50	1/4	3/8
2521/3A	75	1/4	3/8	2521/3B	75	1/4	3/8	2521/3C	75	1/4	3/8
2521/4A	100	1/4	3/8	2521/4B	100	1/4	3/8	2521/4C	100	1/4	3/8
2521/6A	150	1/4	3/8	2521/6B	150	1/4	3/8	2521/6C	150	1/4	3/8
2528/2A	50	7/16	3/8	2528/2B	50	7/16	3/8	2528/2C	50	7/16	3/8
2528/3A	75	7/16	3/8	2528/3B	75	7/16	3/8	2528/3C	75	7/16	3/8
2528/4A	100	7/16	3/8	2528/4B	100	7/16	3/8	2528/4C	100	7/16	3/8
2529/2A	50	7/16	1/2	2529/2B	50	7/16	1/2	2529/2C	50	7/16	1/2
2529/3A	75	7/16	1/2	2529/3B	75	7/16	1/2	2529/3C	75	7/16	1/2
2529/4A	100	7/16	1/2	2529/4B	100	7/16	1/2	2529/4C	100	7/16	1/2

# Adapters from Hex. to Male Square



3/8"				1/2"			
Item No.	L	M. Sq.	Hex.	Item No.	L	M. Sq.	Hex.
CMJ-H10	24	3/8	10	CMS-H10	29	1/2	10
CMJ-H11	24	3/8	11	CMS-H11	29	1/2	11
CMJ-H12	24	3/8	12	CMS-H12	29	1/2	12
CMJ-H13	24	3/8	13	CMS-H13	29	1/2	13
CMJ-H14	24	3/8	14	CMS-H14	29	1/2	14
CMJ-H15	24	3/8	15	CMS-H15	29	1/2	15
CMJ-H16	24	3/8	16	CMS-H16	29	1/2	16
CMJ-H17	24	3/8	17	CMS-H17	29	1/2	17
				CMS-H18	29	1/2	18

## Adapters 1/4"

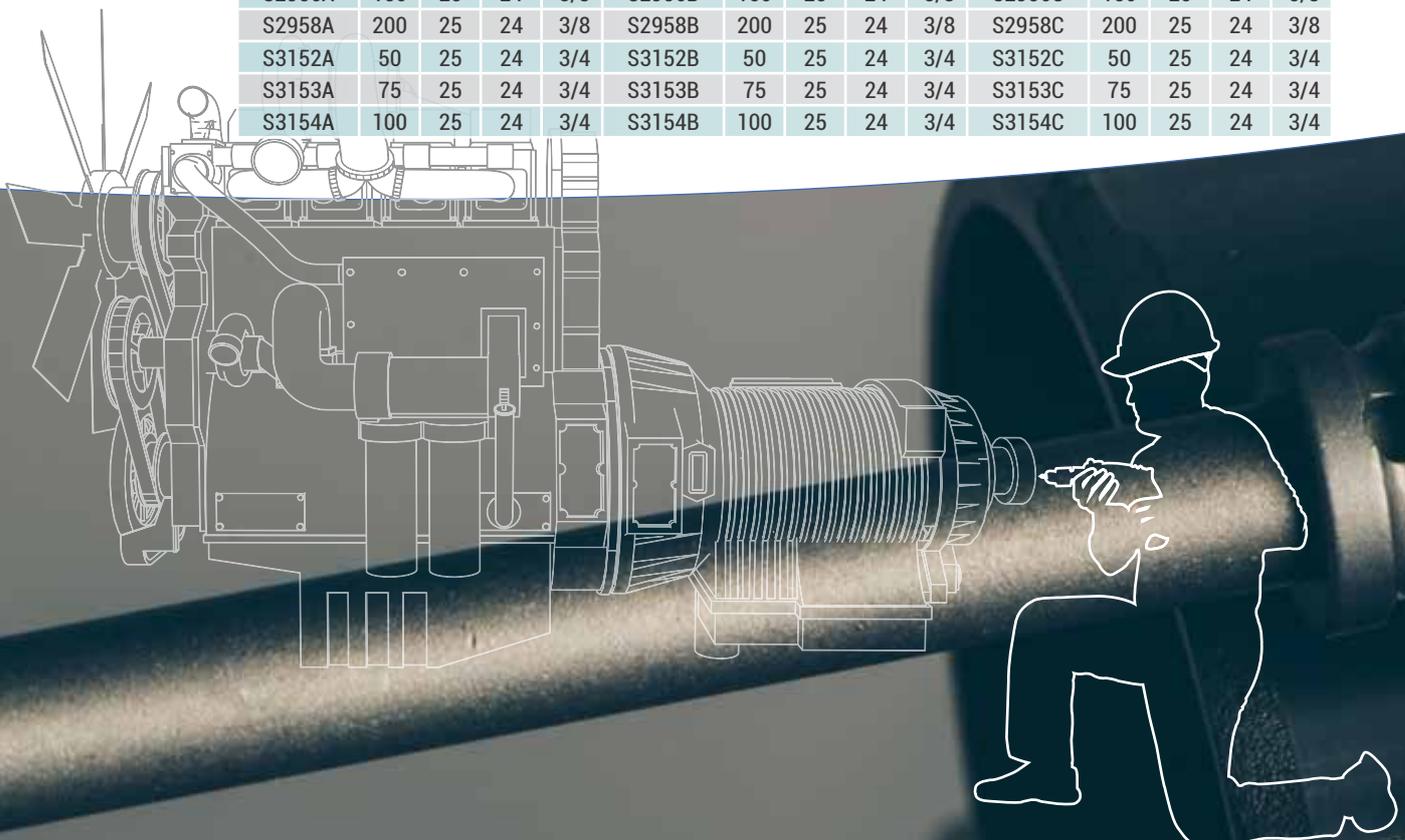
BALL					PIN					PIN HOLE				
Item No.	L	D2	L3	M	Item No.	L	D2	L3	M	Item No.	L	D2	L3	M
R3100A	25	13	14	3/8	R3100B	25	13	14	3/8	R3100C	25	13	14	3/8

## Adapters 3/8"

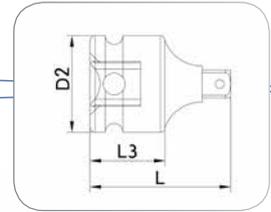
BALL					PIN					PIN HOLE				
Item No.	L	D2	L3	M	Item No.	L	D2	L3	M	Item No.	L	D2	L3	M
J2920A	32	19	18	1/4	J2920B	32	19	18	1/4	J2920C	32	19	18	1/4
J2922A	50	19	18	1/4	J2922B	50	19	18	1/4	J2922C	50	19	18	1/4
J2923A	75	19	18	1/4	J2923B	75	19	18	1/4	J2923C	75	19	18	1/4
J2924A	100	19	18	1/4	J2924B	100	19	18	1/4	J2924C	100	19	18	1/4
J3120A	32	19	18	1/2	J3120B	32	19	18	1/2	J3120C	32	19	18	1/2
J3122A	50	19	18	1/2	J3122B	50	19	18	1/2	J3122C	50	19	18	1/2

## Adapters 1/2"

BALL					PIN					PIN HOLE				
Item No.	L	D2	L3	M	Item No.	L	D2	L3	M	Item No.	L	D2	L3	M
S2950A	40	25	24	3/8	S2950B	40	25	24	3/8	S2950C	40	25	24	3/8
S2952A	50	25	24	3/8	S2952B	50	25	24	3/8	S2952C	50	25	24	3/8
S2953A	75	25	24	3/8	S2953B	75	25	24	3/8	S2953C	75	25	24	3/8
S2954A	100	25	24	3/8	S2954B	100	25	24	3/8	S2954C	100	25	24	3/8
S2955A	125	25	24	3/8	S2955B	125	25	24	3/8	S2955C	125	25	24	3/8
S2956A	150	25	24	3/8	S2956B	150	25	24	3/8	S2956C	150	25	24	3/8
S2958A	200	25	24	3/8	S2958B	200	25	24	3/8	S2958C	200	25	24	3/8
S3152A	50	25	24	3/4	S3152B	50	25	24	3/4	S3152C	50	25	24	3/4
S3153A	75	25	24	3/4	S3153B	75	25	24	3/4	S3153C	75	25	24	3/4
S3154A	100	25	24	3/4	S3154B	100	25	24	3/4	S3154C	100	25	24	3/4



# Adapters 3/4"



BALL					PIN					PIN HOLE				
Item No.	L	D2	L3	M	Item No.	L	D2	L3	M	Item No.	L	D2	L3	M
K2903A	75	44	34	1/2	K2903B	75	44	34	1/2	K2903C	75	44	34	1/2
K2904A	100	44	34	1/2	K2904B	100	44	34	1/2	K2904C	100	44	34	1/2
K2905A	125	44	34	1/2	K2905B	125	44	34	1/2	K2905C	125	44	34	1/2
K2906A	150	44	34	1/2	K2906B	150	44	34	1/2	K2906C	150	44	34	1/2
K2908A	200	44	34	1/2	K2908B	200	44	34	1/2	K2908C	200	44	34	1/2
K3103A	75	44	34	1	K3103B	75	44	34	1	K3103C	75	44	34	1
K3104A	100	44	34	1	K3104B	100	44	34	1	K3104C	100	44	34	1
K3105A	125	44	34	1	K3105B	125	44	34	1	K3105C	125	44	34	1
K3106A	150	44	34	1	K3106B	150	44	34	1	K3106C	150	44	34	1



# Extensions 1/4"

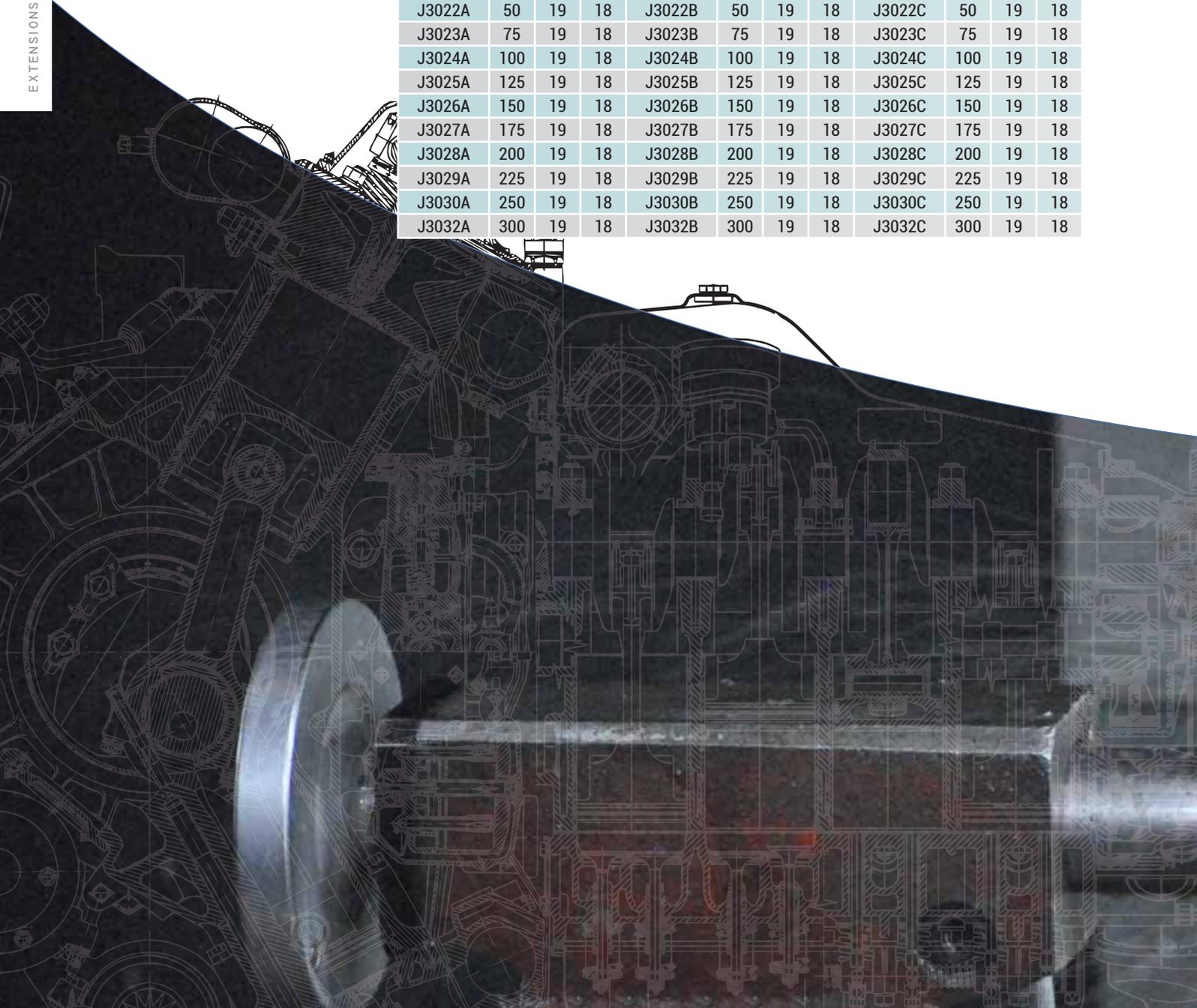
BALL				PIN				PIN HOLE			
Item No.	L	D2	L3	Item No.	L	D2	L3	Item No.	L	D2	L3
R3001A	32	13	13	R3001B	32	13	13	R3001C	32	13	13
R3002A	50	13	13	R3002B	50	13	13	R3002C	50	13	13
R3003A	75	13	13	R3003B	75	13	13	R3003C	75	13	13
R3004A	100	13	13	R3004B	100	13	13	R3004C	100	13	13
R3005A	125	13	13	R3005B	125	13	13	R3005C	125	13	13
R3006A	150	13	13	R3006B	150	13	13	R3006C	150	13	13



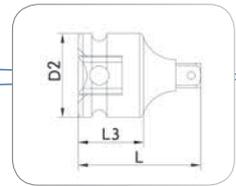
# Extensions 3/8"



BALL				PIN				PIN HOLE			
Item No.	L	D2	L3	Item No.	L	D2	L3	Item No.	L	D2	L3
J3020A	32	19	18	J3020B	32	19	18	J3020C	32	19	18
J3022A	50	19	18	J3022B	50	19	18	J3022C	50	19	18
J3023A	75	19	18	J3023B	75	19	18	J3023C	75	19	18
J3024A	100	19	18	J3024B	100	19	18	J3024C	100	19	18
J3025A	125	19	18	J3025B	125	19	18	J3025C	125	19	18
J3026A	150	19	18	J3026B	150	19	18	J3026C	150	19	18
J3027A	175	19	18	J3027B	175	19	18	J3027C	175	19	18
J3028A	200	19	18	J3028B	200	19	18	J3028C	200	19	18
J3029A	225	19	18	J3029B	225	19	18	J3029C	225	19	18
J3030A	250	19	18	J3030B	250	19	18	J3030C	250	19	18
J3032A	300	19	18	J3032B	300	19	18	J3032C	300	19	18



# Extensions 1/2"

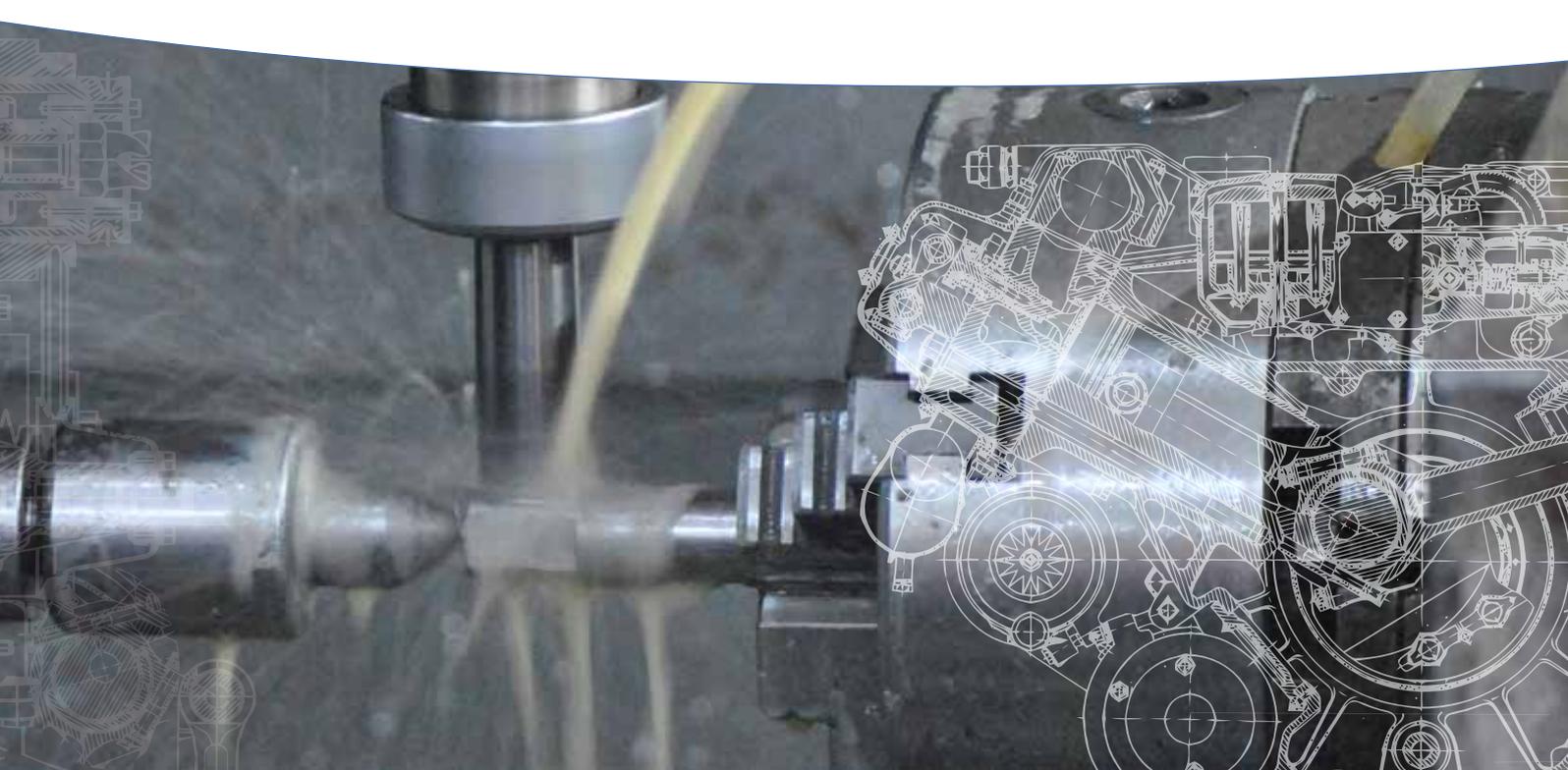


BALL				PIN				PIN HOLE			
Item No.	L	D2	L3	Item No.	L	D2	L3	Item No.	L	D2	L3
S3050A	40	25	24	S3050B	40	25	24	S3050C	40	25	24
S3053A	75	25	24	S3053B	75	25	24	S3053C	75	25	24
S3054A	100	25	24	S3054B	100	25	24	S3054C	100	25	24
S3055A	125	25	24	S3055B	125	25	24	S3055C	125	25	24
S3056A	150	25	24	S3056B	150	25	24	S3056C	150	25	24
S3057A	175	25	24	S3057B	175	25	24	S3057C	175	25	24
S3058A	200	25	24	S3058B	200	25	24	S3058C	200	25	24
S3059A	225	25	24	S3059B	225	25	24	S3059C	225	25	24
S3060A	250	25	24	S3060B	250	25	24	S3060C	250	25	24
S3062A	300	25	24	S3062B	300	25	24	S3062C	300	25	24

# Extensions 3/4"



BALL				PIN				PIN HOLE			
Item No.	L	D2	L3	Item No.	L	D2	L3	Item No.	L	D2	L3
K3003A	75	44	34	K3003B	75	44	34	K3003C	75	44	34
K3004A	100	44	34	K3004B	100	44	34	K3004C	100	44	34
K3005A	125	44	34	K3005B	125	44	34	K3005C	125	44	34
K3006A	150	44	34	K3006B	150	44	34	K3006C	150	44	34



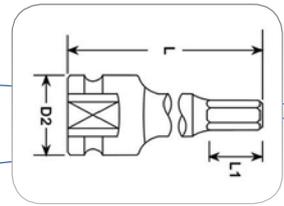
# Bit Sockets

HEXAGON 3/8"				
Item No.	L	Hex. M	D2	L1
J23-EM3	50	3	19	11
J23-EM4	50	4	19	11
J23-EM5	50	5	19	11
J23-EM6	50	6	19	11
J23-EM7	50	7	19	16
J23-EM8	50	8	19	16
J23-EM9	50	9	19	16
J23-EM10	50	10	19	16
J23-EM11	50	11	19	16
J23-EM12	50	12	19	16
J23-EM13	50	13	19	16
J23-EM14	50	14	19	16
J23-EM15	50	15	19	16
J23-EM16	50	16	19	16
J23-EM4/100	100	4	19	11
J23-EM5/100	100	5	19	11
J23-EM6/100	100	6	19	11
J23-EM7/100	100	7	19	16
J23-EM8/100	100	8	19	16
J23-EM9/100	100	9	19	16
J23-EM10/100	100	10	19	16
J23-EM11/100	100	11	19	16
J23-EM12/100	100	12	19	16
J23-EM13/100	100	13	19	16
J23-EM14/100	100	14	19	16
J23-EM15/100	100	15	19	16
J23-EM16/100	100	16	19	16
J23-EM4/150	150	4	19	11
J23-EM5/150	150	5	19	11
J23-EM6/150	150	6	19	11
J23-EM7/150	150	7	19	16
J23-EM8/150	150	8	19	16
J23-EM9/150	150	9	19	16
J23-EM10/150	150	10	19	16
J23-EM11/150	150	11	19	16
J23-EM12/150	150	12	19	16
J23-EM13/150	150	13	19	16
J23-EM14/150	150	14	19	16
J23-EM15/150	150	15	19	16
J23-EM16/150	150	16	19	16

HEXAGON 1/2"				
Item No.	L	Hex. M	D2	L1
S23-EM4	55	4	25	11
S23-EM5	55	5	25	15
S23-EM6	55	6	25	15
S23-EM7	55	7	25	15
S23-EM8	55	8	25	16
S23-EM9	55	9	25	16
S23-EM10	55	10	25	16
S23-EM11	55	11	25	16
S23-EM12	55	12	25	16
S23-EM13	55	13	25	20
S23-EM14	55	14	25	20
S23-EM15	55	15	25	20
S23-EM16	55	16	25	20
S23-EM17	55	17	25	20
S23-EM18	55	18	25	20
S23-EM19	55	19	25	20
S23-EM20	55	20	25	20
S23-EM21	55	21	25	20
S23-EM22	55	22	25	20
S23-EM4/100	100	4	25	11
S23-EM5/100	100	5	25	15
S23-EM6/100	100	6	25	15
S23-EM7/100	100	7	25	20
S23-EM8/100	100	8	25	25
S23-EM9/100	100	9	25	25
S23-EM10/100	100	10	25	25
S23-EM11/100	100	11	25	25
S23-EM12/100	100	12	25	25
S23-EM13/100	100	13	25	25
S23-EM14/100	100	14	25	25
S23-EM15/100	100	15	25	25
S23-EM16/100	100	16	25	25
S23-EM17/100	100	17	25	25
S23-EM18/100	100	18	25	25
S23-EM19/100	100	19	25	25
S23-EM21/100	100	21	25	25
S23-EM22/100	100	22	25	25
S23-EM4/150	150	4	25	11
S23-EM5/150	150	5	25	15
S23-EM6/150	150	6	25	15
S23-EM7/150	150	7	25	20
S23-EM8/150	150	8	25	25
S23-EM9/150	150	9	25	25
S23-EM10/150	150	10	25	25
S23-EM11/150	150	11	25	25
S23-EM12/150	150	12	25	25
S23-EM13/150	150	13	25	25
S23-EM14/150	150	14	25	25
S23-EM15/150	150	15	25	25
S23-EM16/150	150	16	25	25
S23-EM17/150	150	17	25	25
S23-EM18/150	150	18	25	25
S23-EM19/150	150	19	25	25
S23-EM21/150	150	21	25	25
S23-EM22/150	150	22	30	25



# Bit Sockets



HEXAGON 3/4"				
Item No.	L	Hex. M	D2	L1
K23-EM10	62	10	44	20
K23-EM11	62	11	44	20
K23-EM12	62	12	44	20
K23-EM13	62	13	44	20
K23-EM14	62	14	44	20
K23-EM15	62	15	44	20
K23-EM16	62	16	44	20
K23-EM17	62	17	44	20
K23-EM18	62	18	44	20
K23-EM19	62	19	44	20
K23-EM20	62	20	44	20
K23-EM21	62	21	44	20
K23-EM22	62	22	44	20
K23-EM24	62	23	44	20
K23-EM25	62	24	44	20
K23-EM10/100	100	10	44	20
K23-EM11/100	100	11	44	20
K23-EM12/100	100	12	44	20
K23-EM13/100	100	13	44	20
K23-EM14/100	100	14	44	20
K23-EM15/100	100	15	44	20
K23-EM16/100	100	16	44	20
K23-EM17/100	100	17	44	20
K23-EM18/100	100	18	44	20
K23-EM19/100	100	19	44	20
K23-EM20/100	100	20	44	20
K23-EM21/100	100	21	44	20
K23-EM22/100	100	22	44	20
K23-EM24/100	100	23	44	20
K23-EM25/100	100	24	44	20

DOUBLE-HEX 3/8"				
Item No.	L	Hex. M	D2	L1
J23-BH5	50	M5	19	7
J23-BH6	50	M6	19	7
J23-BH8	50	M8	19	9
J23-BH10	50	M10	19	9
J23-BH12	50	M12	19	11
J23-BH14	50	M14	19	11
J23-BH16	50	M16	19	13
J23-BH5/100	100	M5	19	7
J23-BH6/100	100	M6	19	7
J23-BH8/100	100	M8	19	9
J23-BH10/100	100	M10	19	9
J23-BH12/100	100	M12	19	11
J23-BH14/100	100	M14	19	11
J23-BH16/100	100	M16	19	13

DOUBLE-HEX 1/2"				
Item No.	L	Hex. M	D2	L1
S23-BH5	50	M5	25	7
S23-BH6	50	M6	25	7
S23-BH8	50	M8	25	9
S23-BH10	50	M10	25	9
S23-BH12	50	M12	25	11
S23-BH14	50	M14	25	11
S23-BH16	50	M16	25	13
S23-BH5/100	100	M5	25	7
S23-BH6/100	100	M6	25	7
S23-BH8/100	100	M8	25	9
S23-BH10/100	100	M10	25	9
S23-BH12/100	100	M12	25	11
S23-BH14/100	100	M14	25	11
S23-BH16/100	100	M16	25	13

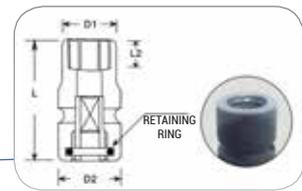


TORX 3/8"					TORX 1/2"				
Item No.	L	Hex. M	D2	L1	Item No.	L	Hex. M	D2	L1
J23-TX9	50	TX9	19	31	S23-TX20	60	TX20	25	30
J23-TX10	50	TX10	19	31	S23-TX25	60	TX25	25	30
J23-TX15	50	TX15	19	31	S23-TX27	60	TX27	25	30
J23-TX20	50	TX20	19	31	S23-TX30	60	TX30	25	30
J23-TX25	50	TX25	19	31	S23-TX40	60	TX40	25	30
J23-TX27	50	TX27	19	31	S23-TX45	60	TX45	25	30
J23-TX30	50	TX30	19	31	S23-TX47	60	TX47	25	30
J23-TX40	50	TX40	19	31	S23-TX50	75	TX50	25	30
J23-TX45	50	TX45	19	31	S23-TX55	75	TX55	25	30
J23-TX47	50	TX47	19	31	S23-TX60	75	TX60	25	30
J23-TX50	50	TX50	19	31					



# Pulse Tool Sockets (antivibration)

(Pulse Tool Accesories)



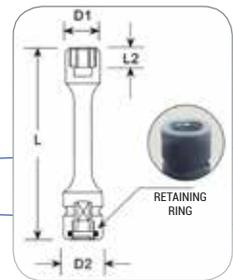
6 POINT 3/8"					
Item No.	L	S	D2	D1	L2
JIM2306H	43	6	19	10.5	5
JIM2307H	43	7	19	11.5	5
JIM2308H	43	8	19	12	7
JIM2309H	43	9	19	15	7
JIM2310H	43	10	19	15	7
JIM2311H	43	11	19	18	8
JIM2312H	43	12	19	17	9
JIM2313H	43	13	19	19	9
JIM2314H	43	14	20	20	9
JIM2315H	43	15	22	22	12
JIM2316H	43	16	22	24	12
JIM2317H	43	17	22	25	12
JIM2318H	43	18	22	26	12
JIM2319H	43	19	22	27	12
JIM2320H	43	20	22	28	13
JIM2321H	43	21	22	30	13
JIM2322H	43	22	23	32	14

6 POINT 1/2"					
Item No.	L	S	D2	D1	L2
SIM2306H	52	6	25	13	6
SIM2307H	52	7	25	13.5	7
SIM2308H	52	8	25	14	9
SIM2309H	52	9	25	16	12
SIM2310H	52	10	25	16	12
SIM2311H	52	11	25	18.7	12
SIM2312H	52	12	25	19	12
SIM2313H	52	13	25	20	12
SIM2314H	52	14	25	22	12
SIM2315H	52	15	25	22	12
SIM2316H	52	16	25	25	12
SIM2317H	52	17	26	26	13
SIM2318H	52	18	26	26	13
SIM2319H	52	19	28	28	13
SIM2320H	52	20	30	30	14
SIM2321H	52	21	30	30	14
SIM2322H	52	22	30	32	14
SIM2323H	52	23	30	32	14
SIM2324H	52	24	30	35	15
SIM2325H	57	25	30	36	15
SIM2326H	57	26	30	38	17
SIM2327H	57	27	30	38	17
SIM2328H	57	28	30	40	17
SIM2329H	57	29	30	40	18
SIM2330H	57	30	30	41	18
SIM2331H	57	31	30	43	18
SIM2332H	62	32	30	44	18



# Pulse Tool Extension Sockets (antivibration)

(Pulse Tool Accesories)



HEX. WITH EXTENSION 3/8"					
Item No.	L	S	D2	D1	L2
JIM2308HL/100	100	8	19	12.5	8
JIM2310HL/100	100	10	19	15.5	8
JIM2312HL/100	100	12	19	18	9
JIM2313HL/100	100	13	19	20	9
JIM2314HL/100	100	14	19	21	9
JIM2315HL/100	100	15	22	22	11
JIM2316HL/100	100	16	22	24	11
JIM2317HL/100	100	17	22	25	11
JIM2308HL/150	150	8	19	12.5	8
JIM2310HL/150	150	10	19	15.5	8
JIM2312HL/150	150	12	19	18	9
JIM2313HL/150	150	13	19	20	9
JIM2314HL/150	150	14	19	21	9
JIM2315HL/150	150	15	22	22	11
JIM2316HL/150	150	16	22	24	11
JIM2317HL/150	150	17	22	25	11
JIM2308HL/200	200	8	19	12.5	8
JIM2310HL/200	200	10	19	15.5	8
JIM2312HL/200	200	12	19	18	9
JIM2313HL/200	200	13	19	20	9
JIM2314HL/200	200	14	19	21	9
JIM2315HL/200	200	15	22	22	11
JIM2316HL/200	200	16	22	24	11
JIM2317HL/200	200	17	22	25	11

HEX. WITH EXTENSION 1/2"					
Item No.	L	S	D2	D1	L2
SIM2308HL/100	100	8	25	15	10
SIM2310HL/100	100	10	25	17	12
SIM2312HL/100	100	12	25	19.5	12
SIM2313HL/100	100	13	25	21	12
SIM2314HL/100	100	14	25	22	12
SIM2315HL/100	100	15	25	23	12
SIM2316HL/100	100	16	25	25	13
SIM2317HL/100	100	17	25	26	13
SIM2318HL/100	100	18	25	27	13
SIM2319HL/100	100	19	25	28	13
SIM2321HL/100	100	21	25	30	13
SIM2322HL/100	100	22	25	31	14
SIM2323HL/100	100	23	25	34	14
SIM2324HL/100	100	24	30	35	15
SIM2308HL/150	150	8	25	15	10
SIM2310HL/150	150	10	25	17	12
SIM2312HL/150	150	12	25	19.5	12
SIM2313HL/150	150	13	25	21	12
SIM2314HL/150	150	14	25	22	12
SIM2315HL/150	150	15	25	23	12
SIM2316HL/150	150	16	25	25	13
SIM2317HL/150	150	17	25	26	13
SIM2318HL/150	150	18	25	27	13
SIM2319HL/150	150	19	25	28	13
SIM2321HL/150	150	21	25	30	13
SIM2322HL/150	150	22	25	31	14
SIM2323HL/150	150	23	25	34	14
SIM2324HL/150	150	24	30	35	15
SIM2308HL/200	200	8	25	15	10
SIM2310HL/200	200	10	25	17	12
SIM2312HL/200	200	12	25	19.5	12
SIM2313HL/200	200	13	25	21	12
SIM2314HL/200	200	14	25	22	12
SIM2315HL/200	200	15	25	23	12
SIM2316HL/200	200	16	25	25	13
SIM2317HL/200	200	17	25	26	13
SIM2318HL/200	200	18	25	27	13
SIM2319HL/200	200	19	25	28	13
SIM2321HL/200	200	21	25	30	13
SIM2322HL/200	200	22	25	31	14
SIM2323HL/200	200	23	25	34	14
SIM2324HL/200	200	24	30	35	15



# Pulse Tool Adapters and Extensions (antivibration)

(Pulse Tool Accesories)

EXTENSIONS 3/8" PIN		
Item No.	L	D2
JIM3022B	50	19
JIM3024B	100	19
JIM3026B	150	19
JIM3028B	200	19
JIM3030B	250	19
3/8" PIN HOLE		
Item No.	L	D2
JIM3022C	50	19
JIM3024C	100	19
JIM3026C	150	19
JIM3028C	200	19
JIM3030C	250	19
1/2" PIN		
Item No.	L	D2
SIM3054B	100	25
SIM3056B	150	25
SIM3058B	200	25
1/2" PIN HOLE		
Item No.	L	D2
SIM3054C	100	25
SIM3056C	150	25
SIM3058C	200	25

ADAPTERS 3/8" PIN			
Item No.	L	D2	M
JIM3122B	50	19	1/2
JIM3124B	100	19	1/2
3/8" PIN HOLE			
Item No.	L	D2	M
JIM3122C	50	19	1/2
JIM3124C	100	19	1/2
1/2" PIN			
Item No.	L	D2	M
SIM2952B	50	25	3/8
SIM2954B	100	25	3/8
1/2" PIN HOLE			
Item No.	L	D2	M
SIM2952C	50	25	3/8
SIM2954C	100	25	3/8



## Socket Retaining Rings



Item No.	SQUARE DRIVE	RING		RETAINER		SIZE
		D1	D	D2	L	
D2.5/9	1/4"	2.5	9	1.5	10	All
D3.5/13	3/8"	3.5	13	2.5	14	> 12
D3.5/16	3/8"	3.5	16	2.5	16	< 12
D4/19	1/2"	4	19	3	20	> 14
D4/24	1/2"	4	24	3	25	< 14
D5/36	3/4"	5	36	4	35	46
D7/45	1"	7	45	6	45	70
Item No.	SQUARE DRIVE	D				
SP1301R	3/8"	< 12				
SP1302R	3/8"	> 12				
SP1401R	1/2"	< 14				
SP1402R	1/2"	> 14				
SP1600R	3/4"	< 46				



# Protected Products



**Our products with protection cover increase safety and cleanliness of the workplace, facilitating and smoothing the movements, reducing the friction at the tool.**

Our covering improves the anti-adherence and cleaning issues. It increases the productivity and helps displacements, facilitating the products use with its low coefficient of friction. It has an important anticorrosive system, being resistant to most of the chemical products and high temperatures. Thanks to our cover you increase the quality of your work reducing lubricant liquids, grease, oils, etc.

All our product line allows the protection covers, offering a variety of solutions, having the option of customizing colour, length an any other aspect needed.



# Special Sockets

**Speedrill is a supplier of Impact and Special Sockets for the Automotive, Assembly and Construction Industries. We carry a complete line of Impact Sockets.**

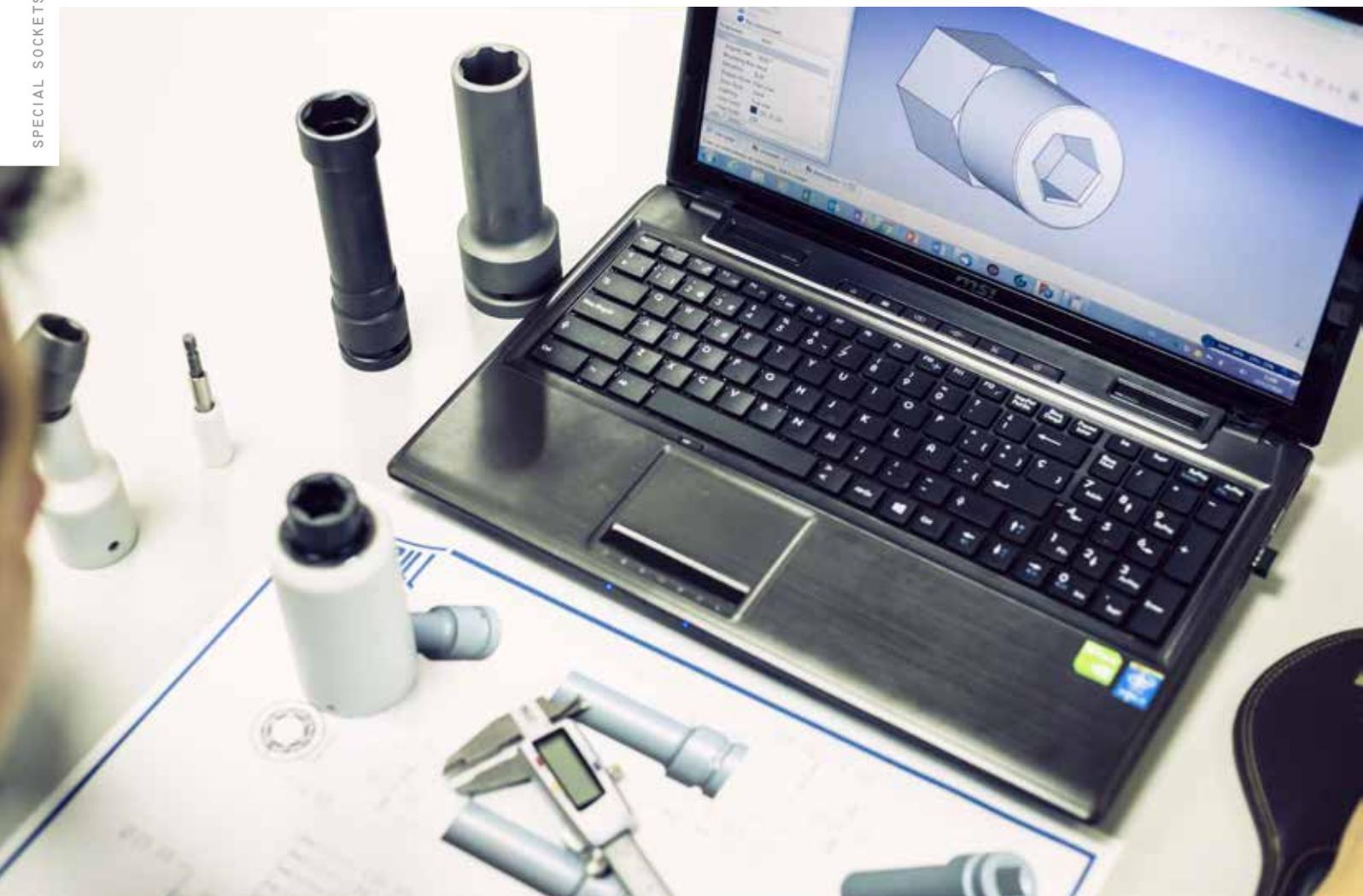
We also have a large selection of Impact Star drivers, Impact Hex drivers, Triple Square drivers, Magnetic holding sockets, Universal joints and special custom made tooling.

These sockets are available in single and double hex and in a variety of lengths and hex sizes. Thorough and exact heat treatment insures the correct balance of strength and durability.

Special shapes, sizes and drives made to order. We can assist you with our engineering and manufacturing capabilities related to all kind of fastening situations, from complicated assembly procedures to simple nuts and bolts with clearance problems.

Our products are AISA 6150 steel heat treated and a hardness Rockwell C treatment to industry standards unless otherwise specified.

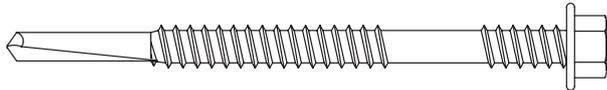
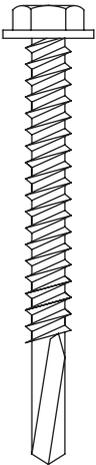
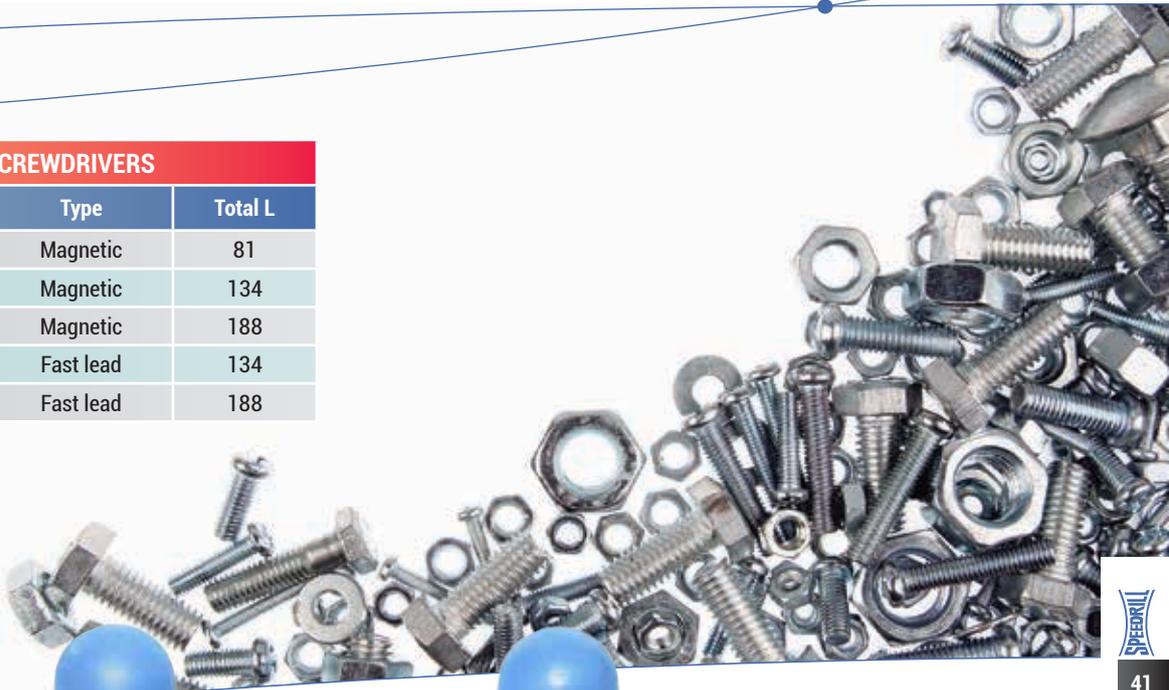
Call us or visit our web and ask for your customized accesories through the application form



# Manual Screwdrivers



SCREWDRIVERS		
Item No.	Type	Total L
RL81M	Magnetic	81
RL134M	Magnetic	134
RL188M	Magnetic	188
RL134VP	Fast lead	134
RL188VP	Fast lead	188



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