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ASSEMBLY TOOLS AND SYSTEMS



Industrial bits



Know how

More than 70 years of powerbits manufacturing experience at your service. A wide range of standard and special powerbits.

Quality

High quality raw material selection. Steady heat treatment.

Availability

More than 600 references in Stock.

Skills

Expert at your disposal to study your needs and bring the optimized solution



In this catalog :

- A guide to choose the right bits
- Screw size charts against bits models to find your way
- Our range
- A torque tightening abacus

Industrial bits


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How to determine the correct bits ?





1 Determine the footprint

 **Phillips** (n°00, 0, 1, 2 ou 3)

 **Pozidriv** (n°00, 0, 1, 2 ou 3)

 **Slot**

 +/- in PH

 +/- in PZ

 **TORX**®

 **Tamper TORX**

 **TORX plus**®

 **TORX plus security**®

 **Triple Square (XZN)**

 **Hex Int**

 **Carré**

 **Tri-wing**

 **Torq-Set**

 **Spanner**

See charts pages **5-6-7** to define the correct footprint number.



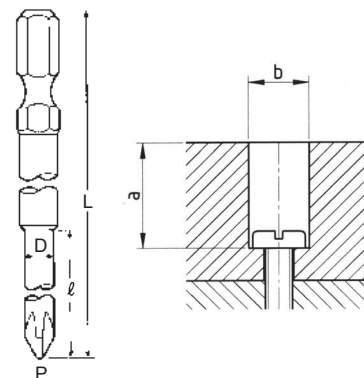
2 Determine the required length

Screw tightening in a well,

- the length of the neckline (l) must be more important than the depth of the well (a)
- the diameter of the screwdriver bit must be smaller than the diameter of the well (b)



Some model has no neckline. In this case consider the total length (L) taking into account the length inside the chuck (25 mm).



3 Determine the required drive

1/4" Hexagonal

- C6,3

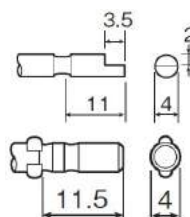
- E6,3



4 mm Half moon



4 mm Wing-Shank



5/16" Hexagonal

3mm Hexagonal

Threaded

] Contact us

Screw size

PHILLIPS SCREW

Dimensions		Metric screws				Sheet metal screws			Wood screws	
		Flat milled	Milled rounded	Cylindric	Cylindric	Flat milled	Flare	Flare	Cylindric rounded	Flat milled
		DIN 965	DIN 966	DIN 7985	DIN 7981	DIN 7982	DIN 7983	DIN 7995	DIN 7996	DIN 7997
		M	M	M	B	B	B	H	H	H
00	00	*	*	*	*	*	*	*	*	*
0	0	1,6 2	1,6 2	1,6	2,2	2,2	2,2	2	2	2
1	1	2,5	2,5	2	2,9	2,9	2,9	2,5	2,5	2,5
		3	3	2,5 3				3	3	3
2	2	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5	3,5
		4	4	4				4	4	4
		5	5	5				4,2	4,2	4,2
3	3	6	6	6	5,5 6,3	5,5 6,3	5,5 6,3	5,5	5,5	5,5
								6	6	6
4	4	8	8	8	8	8	8	8	8	8
		10	10	10				9,5	9,5	9,5

* Special screws

SLOTTED SCREWS

	Metric screws											Sheet metal screws						Wood screws			
	Flat milled		Milled rounded		Cylindric rounded		Cylindric threaded				Rod rounded		Flat milled		Milled rounded		Cylindric threaded	Flat milled	Milled rounded	Cylindric	
	ISO 2009	DIN 963	ISO 2010	DIN 964	ISO 1207	DIN 84	ISO 1580	DIN 85	DIN 920	DIN 921	ISO 4766 7435	DIN 417 427	ISO 1482	DIN 7972	ISO 1483	DIN 7973	ISO 1481	DIN 7971	DIN 97	DIN 95	DIN 96
	M	M	M	M	M	M	M	M	M	M	M	M	B	B	B	B	B	B	H	H	H
2 x 0,4											2,5 3	3									
2,5 x 0,4	1,6	1,6	1,6	1,6	1,6	1,6	1,6	1,6	2,5	1,6	3,5	3,5 4							1,6	1,6	1,6
3 x 0,5	2	2	2	2	2	2	2	2	3		4		2,2	2,2	2,2		2,2		2	2	2
4 x 0,5									3	2											
3,5 x 0,6	2,5	2,5	2,5	2,5	2,5						5					2,2		2,2	2,5	2,5	
4,5 x 0,6						2,5	2,5		4	2,5											2,5
4 x 0,8	3	3	3	3	3		3				5 6	6	2,9	2,9	2,9	2,9	2,9		3	3	
5,5 x 0,8		3,5		3,5		3 3,5		3 3,5	5	3 3,5								2,9	3,5	3,5	3,5 3
5,5 x 1	3,5	4	3,5	4	3,5	4	3,5	4	6	4		8	3,5	3,5 3,9	3,5	3,5 3,9	3,5	3,5 3,9	4	4	4 4,5
6,5 x 1,2	4		4		4		4				8	10	4,2	4,2	4,2	4,2					
8 x 1,2	5	5	5	5	5	5	5	5	8	5			4,8	4,8	4,8	4,8	4,2 4,8	4,2 4,8	5,5 5	5,5 5	5,5 5
8 x 1,6					6						10 12	(12)	5,5	5,5	5,5						
10 x 1,6	6	6	6	6		6	6	6	10	6		(14)	6,3	6,3	6,3	6,3 5,5	5,5 6,3	5,5 6,3	7 6	7 6	6

Index	
	Metric screws
	Threaded rod
	Metric nut
	Metal sheet screws
	Wood screws



Screws size

HEX INT SCREWS




















	Metric screws						
	cylindric	cylindric holed	cylindric	flat milled	threaded stem		
	DIN 912	DIN 6912	DIN 7984	DIN 7991	DIN 913 916	DIN 914	DIN 915
	M \times L	M \times L	M \times L	M \times L	M \times L	M \times L	M \times L
1,5	1,6-2				3	3	3
2	2,5		3	3	4	4	4
2,5	3		4	4	5	5	5
3	4	4	5	5	6	6	6
4	5	5	6	6	8	8	8
5	6	6	8	8	10	10	10
6	8	8		10	12 14	12 14	12 14
7			10				
8	10	10	12	12	16	16	16
10	12	12	14	14 16	18 20	18 20	18 20
12	14	14	16 18	18 20	22 24	22 24	22 24

HEXAGONAL SCREWS

	Metric screws and nuts							
	Screws				nuts		metal sheed screws	wood screws
	DIN 558	DIN 601	DIN 931	DIN 933	DIN 439	DIN 934	DIN 7976	DIN 571
	M \times L	M \times L	M \times L	M \times L	M \times O	M \times O	B \times L	H \times L
3						1,2 1,4		
3,2			1,6	1,6	1,6	1,6	2,2	
3,5					1,8			
4			2	2	2	2		
4,5				2,3				
5			2,5	2,5	2,5	2,5	2,9	
5,5			3	3	3	3	3,5	
6			3,5	3,5	3,5	3,5		
7			4	4	4	4	3,9 4,2	4
8	5	5	5	5	5	5	4,8 5,5	5
9								
10	6	6	6	6	6	6	6,3	6
11			7	7		7		
12								7
13	8	8	8	8	8	8	8	8

Screws size

TORX SCREWS

		Metric screws						Metal sheet screws		
		Cylindric	flat milled	milled rounded	Cylindric	flat milled	milled rounded	Cylindric	flat milled	milled rounded
										
		DIN 912	DIN 963 965	DIN 964 966	DIN 7984 6912	DIN 7985	DIN 7991	DIN 7981	DIN 7972 7982	DIN 7973 7983
Dim.										
T5	1,42	*	*	*	*	*	*	*	*	*
T6	1,70	*	2	*	*	*	*	*	2,2	*
T7	1,99	*	*	*	*	*	*	*	*	*
T8	2,31	2,5	2,5	2,5		2,5		2,9	2,9	2,9
T9	2,50							2,9		
T10	2,74	3	3	3	3	3	3	3,5	3,5	3,5
T15	3,27		3,5	3,5		3,5		3,9	3,9	3,9
T20	3,86	4	4	4	4	4	4	4,2	4,2	4,2
T25	4,43	5	5	5	5	5	5	4,8 5,5	4,8 5,5	4,8 5,5
T27	4,99	*	*	*	*	*	*	*	*	*
T30	5,52	6	6	6	6	6	6	6,3	6,3	6,3
T40	6,65	8	8	8	8	8	8			
T45	7,82	*	*	*	*	*	*	*	*	*
T50	8,83	10	10	10	10	10	10			
T55	11,22	12			12		12			
T60	13,25	14			14					

* Special screws.



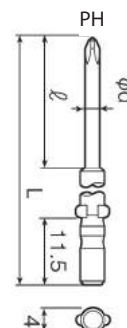
Bits for Phillips screws

+ HIOS 4 mm drive



Reference	Footprint (PH)	Diameter (d)	Neckline (ℓ)	Length (L)	Code
D73 PH00X1.2X40	00	1,2	20	40	4-9102901
D73 PH00X1.5X40	00	1,5	20	40	4-9102902
D73 PH00X1.5X60	00	1,5	20	60	4-9102903
D73 PH00X2X40	00	2	20	40	4-9102904
D73 PH00X2X60	00	2	20	60	4-9102905
D73 PH0X1.4X40	0IS	1,4	20	40	4-9102906
D73 PH0X1.4X60	0IS	1,4	20	60	4-9102907
D73 PH0X1.7X40	0IS	1,7	20	40	4-9102908
D73 PH0X1.7X60	0IS	1,7	20	60	4-9102909
D73 PH0X2X40	0IS	2	20	40	4-9102910
D73 PH0X2X60	0IS	2	20	60	4-9102911
D73 PH0X2.5X40	0IS	2,5	20	40	4-9102912
D73 PH0X2.5X60	0IS	2,5	20	60	4-9102913
D73 PH1X3X40	1IS	3	20	40	4-9102914
D73 PH1X3X60	1IS	3	20	60	4-9102915
D73 PH1X4X40	1IS	4	-	40	4-9102916
D73 PH1X4X60	1IS	4	-	60	4-9102917
D73 PH2X4X40	2IS	4	-	40	4-9102918
D73 PH2X4X60	2IS	4	-	60	4-9102919

Sold by 10 pieces

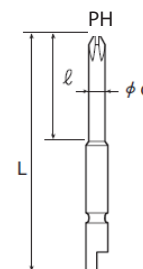


+ Halfmoon 4mm drive



Reference	Footprint (PH)	Diameter (d)	Neckline (ℓ)	Length (L)	Code
PH00x1,5x20x44	00	1,5	20	44	4-9100528
PH00x1,5x20x64	00	1,5	20	64	4-9100530
EPH 204	00	2	20	64	4-9100531
EPH 201	0IS	1,8	20	44	4-9100521
EPH 202	0IS	1,8	20	64	4-9100529
PH0x2x20x44	0IS	2	20	44	4-9100691
PH0x2x20x64	0IS	2	20	64	4-9100692
EPH 205	0IS	2,5	20	44	4-9100506
EPH 206	0IS	2,5	20	64	4-9100532
EPH 207	1IS	3	20	44	4-9100507
EPH 208	1IS	3	20	64	4-9100533
EPH 209	1IS	4	20	44	4-9100523
EPH 210	1IS	4	-	64	4-9100534
EPH 211	2IS	4	-	44	4-9100508
EPH 212	2IS	4	-	64	4-9100542

Sold by 10 pieces



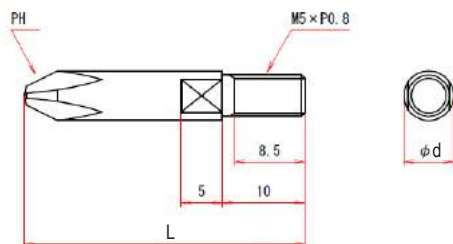
Bits for Phillips screws

+ Threaded M5 x 0,8 drive



Reference	Footprint (PH)	Diameter (d)	Length (L)	Thread	Code
3592/45PH	2	6	45	M5 x 0,8	4-9101516

Sold by 10 pieces

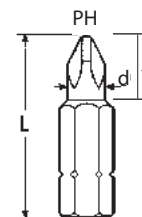


+ C6,3 drive



Reference	Footprint (PH)	Diameter (d)	Neckline (ℓ)	Length (L)	Code
3000/25	0	3	11	25	4-9100047
3001R/2,3PH	1	2,3	11	25	4-9100597 (*)
3001R/2,6PH	1	2,6	11	25	4-9100598 (*)
3001R/25	1	4,5	11	25	4-9100905
1001	1	7	-	25,4	4-9100197
3002R/3,2PH	2	3,2	11	25	4-9100599 (*)
3002R/4,0PH	2	4	11	25	4-9100596 (*)
3002R/25	2	5	11	25	4-9100906
1002	2	7	-	25,4	4-9100198
1003	3	7	-	25,4	4-9100199

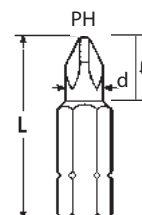
(*) in stock until sold out



+ C6,3 TiN coated drive



Reference	Footprint (PH)	Diameter (d)	Neckline (ℓ)	Length (L)	Code
PH1 - TiN	1	4,5	11	25	4-9101017
PH2 - TiN	2	6	11	25	4-9101070
PH3 - TiN	3	7	-	25	4-9101087



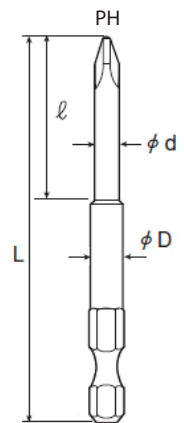


Bits for Phillips screws

+ E6,3 Drive - Accuracy Model



Reference	Footprint (PH)	Neckline (d)	Neckline (d) (ℓ)	Diameter (D)	Length (L)	Code
PH00x1,2x20x60	00	1,2	20	7	60	4-9100167
PH00x1,5x20x60	00	1,5	20	7	60	4-9100168
PH00x1,7x20x60	00	1,7	20	7	60	4-9100169
PH00x2x20x80	00	2	20	7	80	4-9100174 (*)
PH00x2x30x80	00	2	30	7	80	4-9100176 (*)
PH00x2x30x100	00	2	30	7	100	4-9100178 (*)
PH00x2x40x60	00	2	40	7	60	4-9100173
PH00x2x40x100	00	2	40	7	100	4-9100179
PH0x1,4x20x40	0	1,4	20	7	40	4-9100180 (*)
PH0x1,4x20x60	0	1,4	20	7	60	4-9100185 (*)
PH0x1,4x20x80	0	1,4	20	7	80	4-9100192 (*)
PH0x1,4x30x60	ⓂIS	1,4	30	7	60	4-9100190
PH0x1,4x30x80	0	1,4	30	7	80	4-9100204 (*)
PH0x1,4x30x100	0	1,4	30	7	100	4-9100212 (*)
PH0x1,7x20x60	0	1,7	20	7	60	4-9100186 (*)
PH0x1,7x30x60	ⓂIS	1,7	30	7	60	4-9100191
PH0x1,7x40x80	ⓂIS	1,7	40	7	80	4-9100208
PH0x2x20x60	ⓂIS	2	20	7	60	4-9100187
PH0x2x20x80	0	2	20	7	80	4-9100194 (*)
PH0x2x20x100	0	2	20	7	100	4-9100209 (*)
PH0x2x30x100	ⓂIS	2	30	7	100	4-9100213
PH0x2,5x20x60	ⓂIS	2,5	20	7	60	4-9100188
PH0x2,5x20x80	0	2,5	20	7	80	4-9100200 (*)
PH0x2,5x20x100	0	2,5	20	7	100	4-9100210 (*)
PH0x2,5x30x100	ⓂIS	2,5	30	7	100	4-9100214
PH0x3x20x60	ⓂIS	3	20	7	60	4-9100189
PH0x3x20x80	0	3	20	7	80	4-9100202 (*)
PH0x3x20x100	0	3	20	7	100	4-9100211 (*)
PH0x3x30x100	ⓂIS	3	30	7	100	4-9100215
1060	ⓂIS	3,17	25	7	49	4-9100304



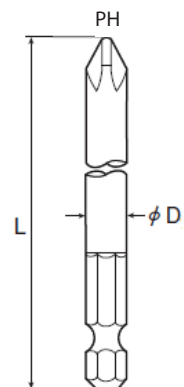
Sold by 10 pieces

(*) in stock until sold out

+ E6,3 Drive



Reference	Footprint (PH)	Diameter (D)	Length (L)	Code	
1061	ⓂIS	1	4,5	49	4-9100027
1071	ⓂIS	1	4,5	70	4-9180140
1081	ⓂIS	1	4,5	89	4-9100036
4301/100	ⓂIS	1	4,5	100	4-9100313
4301/150	ⓂIS	1	4,5	150	4-9100322
1091	ⓂIS	1	4,5	152	4-9100042
1062R	ⓂIS	2	4,5	49	4-9100305
1062	ⓂIS	2	6	49	4-9180141
1072	ⓂIS	2	6	70	4-9180627
1082	ⓂIS	2	6	89	4-9100038
4302/100	ⓂIS	2	6	100	4-9100314
4302/127	ⓂIS	2	6	127	4-9100320
4302/150	ⓂIS	2	6	150	4-9100323
1092	ⓂIS	2	6	152	4-9100044
4302/200	ⓂIS	2	6	200	4-9100324
1063	ⓂIS	3	8	49	4-9100029
1073	ⓂIS	3	8	70	4-9180142
1083	ⓂIS	3	8	89	4-9100040
4303/100	ⓂIS	3	8	100	4-9100315



Bits for Phillips screws

E6,3 Drive - TiN Coated



Reference	Footprint (PH)	Length (L)	Code
PH1x50 - TiN	1	50	4-9101134
PH1x73 - TiN	1	73	4-9101150
PH2x50 - TiN	2	50	4-9101135
PH2x73 - TiN	2	73	4-9101151
PH3x50 - TiN	3	50	4-9101136

Plus/Minus - H shape - E6,3 Drive



Reference	Footprint (PH)	Diameter (D)	Blade Thickness (mm)	Length (L)	Code
H1	1	4,5	0,9	73	4-9101162
H2	2	6	1,0	73	4-9101163

Sold by 10 pieces



Minimum depth of the footprint : 1,4 mm





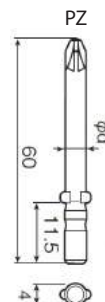
Bits for Pozidriv® screws

HIOS 4 mm Drive



Reference	Footprint (PZ)	Diameter (d)	Length (L)	Code
D73 PZ0X60	0	4	60	4-9102931
D73 PZ1X60	1	4	60	4-9102932
D73 PZ2X60	2	4	60	4-9102933

Sold by 10 pieces

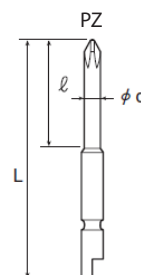


Halfmoon 4 mm Drive



Reference	Footprint (PZ)	Diameter (d)	Neckline (ℓ)	Length (L)	Code
D71 PZ0X44	0	2,5	20	44	4-9100693
D71 PZ0X64	0	2,5	20	64	4-9100694
D71 PZ1X44	1	4	-	44	4-9100695
D71 PZ1X64	1	4	-	64	4-9100696

Sold by 10 pieces

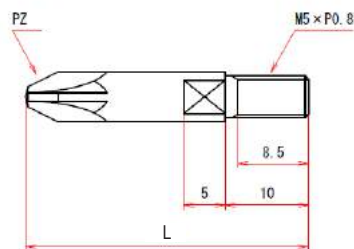


Threaded M5 x 0,8 Drive



Reference	Footprint (PZ)	Diameter (d)	Length (L)	Thread	Code
3592/34PZ	2	6	34	M5 x 0,8	4-9101654

Sold by 10 pieces

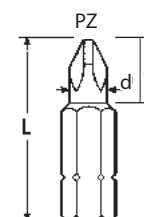


Bits for Pozidriv® screws

C6,3 Drive



Reference	Footprint (PZ)	Diameter (d)	Neckline (ℓ)	Length (L)	Code
3001R/2,3PZ	1	2,3	11	25	4-9100648 (*)
3001R/2,6PZ	1	2,6	11	25	4-9100649 (*)
1001PZ	1	7	-	25,4	4-9100004
3001/50PZ	1	7	-	50	4-9100138
3002R/3,2PZ	2	3,2	11	25	4-9100686 (*)
1002PZ	2	7	-	25,4	4-9100005
3002/50PZ	2	7	-	50	4-9100139
1003PZ	3	7	-	25,4	4-9100006
3003/50PZ	3	7	-	50	4-9100140

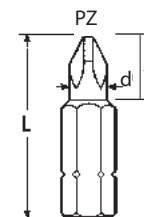


(*) in stock until sold out

C6,3 TiN coated Drive



Reference	Footprint (PZ)	Diameter (d)	Neckline (ℓ)	Length (L)	Code
PZ1 - TiN	1	4,4	9	25	4-9101088
PZ2 - TiN	2	5,6	9	25	4-9101110
PZ3 - TiN	3	6	9	25	4-9101111



Look at our MMBC bit holders on page 34 & 35



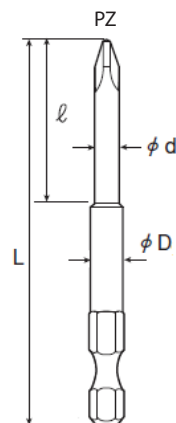


Bits for Pozidriv® screws

E6,3 Drive - Accuracy model



Reference	Footprint (PZ)	Neckline (d)	Neckline (ℓ)	Diameter (D)	Length (L)	Code
PZ0x1,4x20x80	0	1,4	20	7	80	4-9100247 (*)
PZ0x1,4x30x60	0	1,4	30	7	60	4-9100245
PZ0x1,4x30x80	0	1,4	30	7	80	4-9100251 (*)
PZ0x1,4x30x100	0	1,4	30	7	100	4-9100259 (*)
PZ0x1,7x20x60	0	1,7	20	7	60	4-9100241 (*)
PZ0x1,7x40x80	0	1,7	40	7	80	4-9100255 (*)
PZ0x2x20x40	0	2	20	7	40	4-9100237 (*)
PZ0x2x20x60	0	2	20	7	60	4-9100242
PZ0x2x20x80	0	2	20	7	80	4-9100248 (*)
PZ0x2x20x100	0	2	20	7	100	4-9100256 (*)
PZ0x2x30x100	0	2	30	7	100	4-9100260
PZ0x2,5x20x60	0	2,5	20	7	60	4-9100243
PZ0x2,5x20x80	0	2,5	20	7	80	4-9100249 (*)
PZ0x2,5x20x100	0	2,5	20	7	100	4-9100257 (*)
PZ0x2,5x30x100	0	2,5	30	7	100	4-9100261 (*)
PZ0x3x20x60	0	3	20	7	60	4-9100244
PZ0x3x20x100	0	3	20	7	100	4-9100258 (*)
PZ0x3x30x100	0	3	30	7	100	4-9100262

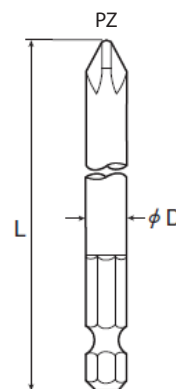


Sold by 10 pieces
(*) in stock until sold out

E6,3 Drive



Reference	Footprint (PZ)	Diameter (D)	Length (L)	Code
1061PZ	1	4,5	49	4-9100008
1071PZ	1	4,5	70	4-9100034
1081PZ	1	4,5	89	4-9100037
4301/100PZ	1	4,5	100	4-9100408
1091PZ	1	4,5	152	4-9100043
1062PZ	2	6	49	4-9100030
1072PZ	2	6	70	4-9100028
1082PZ	2	6	89	4-9100039
4302/100PZ	2	6	100	4-9100409
4302/127PZ	2	6	127	4-9100413
4302/150PZ	2	6	150	4-9100415
1092PZ	2	6	152	4-9100196
4302/200PZ	2	6	200	4-9100416
1063PZ	3	8	49	4-9100009
1073PZ	3	8	70	4-9100035
1083PZ	3	8	89	4-9100195
4304/51PZ	4	8	50	4-9100403



Bits for Pozidriv® screws

E6,3 Drive - TiN Coated



Reference	Footprint (PZ)	Length (L)	Code
PZ1x50 - TiN	1	50	4-9101137
PZ1x73 - TiN	1	73	4-9101152
PZ2x50 - TiN	2	50	4-9101138
PZ2x73 - TiN	2	73	4-9101153
PZ3x50 - TiN	3	50	4-9101139

Plus / Minus - Z Shape - E6,3 Drive



Reference	Footprint (PZ)	Diameter (D)	Blade Thickness (mm)	Length (L)	Code
Z1	1	4,5	0,8	73	4-9101112
Z2	2	6	1,0	73	4-9101114

Sold by 10 pieces



Minimum depth of the footprint : 1,1 mm





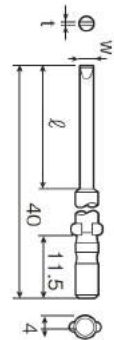
Bits for slotted screws

HIOS 4 mm Drive



Reference	Slot thickness (t)	Slot width (w)	Neckline (ℓ)	Length (L)	Code
D73 Slot 0,3X2X40	0,30	2	20	40	4-9102941
D73 Slot 0,3X2,5X40	0,30	2,5	20	40	4-9102942
D73 Slot 0,4X3X40	0,40	3	20	40	4-9102943
D73 Slot 0,5X4X40	0,50	4	-	40	4-9102944

Sold by 10 pieces

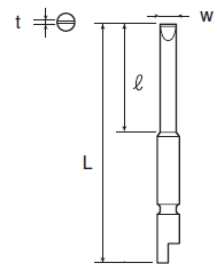


Halfmoon 4 mm Drive



Reference	Slot thickness (t)	Slot width (w)	Neckline (ℓ)	Length (L)	Code
EPL 221	0,30	2	20	44	4-9100502
EPL 222	0,30	2,5	20	44	4-9100503
EPL 223	0,40	3	20	44	4-9100504
EPL 224	0,50	4	20	44	4-9100505

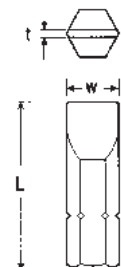
Sold by 10 pieces



C6,3 Drive



Reference	Slot thickness (t)	Slot width (w)	Length (L)	Code
5635/25	0,55	3,5	25	4-9100913
5604/25	0,6	4	25	4-9100914
5605/25	0,75	5	25	4-9100915
1501	0,86	4,76	25,4	4-9100120
1502	1,00	5,56	25,4	4-9100121
1503	1,06	6,35	25,4	4-9100122
1504	1,17	7,14	25,4	4-9100123
1505	1,27	8,00	25,4	4-9100124



Bits for slotted screws

E6,3 Drive



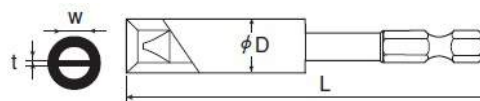
Reference	Slot thickness (t)	Slot width (W)	Length (L)	Code
5303/51	0,50	3,0	50	4-9110010
5304/51	0,60	4,0	51	4-9110013
152000	0,56	3,1	49	4-9100960
156000	0,56	3,1	76	4-9100968
157000	0,56	3,1	102	4-9100981
15200	0,71	3,4	49	4-9100961
15300	0,71	3,4	70	4-9100964
15700	0,71	3,4	102	4-9100982
1520	0,76	3,84	49	4-9100962
1560	0,76	3,84	76	4-9100970
1570	0,76	3,84	102	4-9100983
1521	0,86	4,75	49	4-9100010
1561	0,86	4,75	76	4-9100971
1571	0,86	4,75	102	4-9100984
1522	0,91	5,46	49	4-9100011
1562	0,91	5,46	76	4-9100972
1572	0,91	5,46	102	4-9100985
1524	0,97	6,35	49	4-9100013
1564	0,97	6,35	76	4-9100973
1574	0,97	6,35	102	4-9100986
1525	1,07	6,99	49	4-9100012
1565	1,07	6,99	76	4-9100974
1575	1,07	6,99	102	4-9100987
1526	1,17	7,92	49	4-9180124
1566	1,17	7,92	76	4-9100975
1576	1,17	7,92	102	4-9100988
1527	1,27	9,14	49	4-9180132
1567	1,27	9,14	76	4-9100976
1577	1,27	9,14	102	4-9100989



E6,3 Drive - with telescopic guide



Reference	Slot thickness (t)	Slot width (W)	Diameter (D)	Length (L)	Code
6001	0,91	4,90	9,5	95	4-9180576
6002	0,97	6,12	11,1	95	4-9180577
6003	1,07	7,37	12,7	95	4-9180579
6004	1,17	8,89	14,3	95	4-9180581





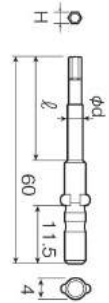
Bits for socket head (Hex int) screws

HIOS 4 mm Drive



Reference	Footprint (H)	Diameter (d)	Neckline (ℓ)	Length (L)	Code
D73 H1,5X60	H1,5	2	20	60	4-9102951
D73 H2X60	H2	3	20	60	4-9102952
D73 H2,5X60	H2,5	3	20	60	4-9102953
D73 H3X60	H3	4	-	60	4-9102954

Sold by 10 pieces

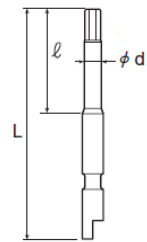


Halfmoon 4 mm Drive



Reference	Footprint (H)	Diameter (d)	Neckline (ℓ)	Length (L)	Code
EHW 231	1,5	3	20	44	4-9100512
EHW 232	2	3	20	44	4-9100513
EHW 233	2,5	3,5	20	44	4-9100537
EHW 234	3	4	20	44	4-9100538

Sold by 10 pieces

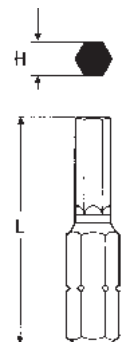


C6,3 Drive - Inch unit



Reference	Footprint (H)	Length (L)	Code
H0.05" L.25	0.05"	25	4-9110301
H1/16" L.25	1/16"	25	4-9110302
H5/64" L.25	5/64"	25	4-9110303
H3/32" L.25	3/32"	25	4-9110304
H7/64" L.25	7/64"	25	4-9110305
H1/8" L.25	1/8"	25	4-9110306
H9/64" L.25	9/64"	25	4-9110307
H5/32" L.25	5/32"	25	4-9110308
H3/16" L.25	3/16"	25	4-9110309
H7/32" L.25	7/32"	25	4-9110310
H1/4" L.25	1/4"	25	4-9110311
H5/16" L.25	5/16"	25	4-9110312
H3/8" L.25	3/8"	25	4-9110313

Sold by 10 pieces

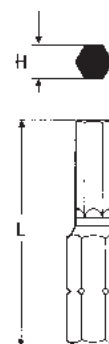


Bits for socket head (Hex int) screws

C6,3 Drive - Metric unit



Reference	Footprint (H)	Length (L)	Code
30315/25	1,5	25	4-9100942
3032/25	2	25	4-9100943
30325/25	2,5	25	4-9100109
3033/25	3	25	4-9100110
3034/25	4	25	4-9100111
21004	4	33,3	4-9100133
3035/25	5	25	4-9100112
21005	5	33,3	4-9100134
3036/25	6	25	4-9100113
21006	6	33,3	4-9100135
3038/25	8	25	4-9100114
21008	8	31,8	4-9100136

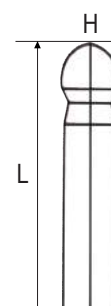


C6,3 Drive - Spherical models



Reference	Footprint (H)	Length (L)	Code
3720/25	2	25	4-9175000
3725/25	2,5	25	4-9175001
3730/25	3	25	4-9175002
3740/25	4	25	4-9175003
3750/25	5	25	4-9175004
3760/25	6	25	4-9175005
3780/25	8	25	4-9175006

Sold by 10 pieces



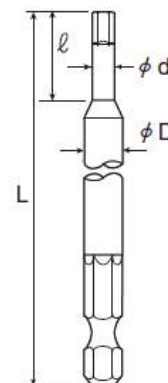


Bits for socket head (Hex int) screws

E6,3 Drive - Inch unit

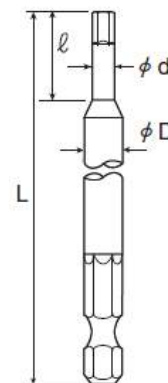
Reference	Footprint (H)	Diameter (D)	Length (L)	Code
H0,05" L.50	0,05"	2,5	50	4-9103641
H1/16" L.50	1/16"	2,5	50	4-9110321
H5/64" L.50	5/64"	3,0	50	4-9110322
H3/32" L.50	3/32"	3,0	50	4-9110323
H7/64" L.50	7/64"	3,5	50	4-9110324
H1/8" L.50	1/8"	4,0	50	4-9110325
H9/64" L.50	9/64"	4,5	50	4-9110326
H5/32" L.50	5/32"	5,0	50	4-9110327
H3/16" L.50	3/16"	6,0	50	4-9110328
H7/32" L.50	7/32"	-	50	4-9110329
H1/4" L.50	1/4"	-	50	4-9110330
H5/16" L.50	5/16"	-	50	4-9110331

Sold by 10 pieces



E6,3 Drive - Metric unit

Reference	Footprint (H)	Neckline (d)	Neckline (l)	Diameter (D)	Length (L)	Code
H1,5x50	1,5	-	-	-	50	4-9110290
21202	2	-	-	7	49	4-9100308
H2x75	2	2,3	10	7	75	4-9100388
H2x100	2	2,3	10	7	100	4-9100394
H2x150	2	2,3	10	7	150	4-9180500
21225	2,5	3,5	27	7	49	4-9180463
H2,5x75	2,5	3	10	7	75	4-9100389
H2,5x100	2,5	3	10	7	100	4-9100395
H2,5x150	2,5	3	10	7	150	4-9180501
21203	3	3,6	27	7	49	4-9180464
H3x75	3	3,6	10	7	75	4-9100390
H3x100	3	3,6	10	7	100	4-9100396
H3x150	3	3,6	10	7	150	4-9180503
21204	4	4,7	27	7	49	4-9180465
H4x75	4	4,7	11	7	75	4-9100391
H4x100	4	4,7	11	7	100	4-9100397
H4x150	4	4,7	11	7	150	4-9180504
21205	5	5,8	27	7	49	4-9180466
H5x75	5	5,8	14	7	75	4-9100392
H5x100	5	5,8	14	7	100	4-9100398
H5x150	5	5,8	14	7	150	4-9180505
21206	6	-	-	7	49	4-9180467
H6x75	6	-	-	7	75	4-9100393
H6x100	6	-	-	7	100	4-9100399
H6x150	6	-	-	7	150	4-9180506
1337/70	7	8,1	15	10	70	4-9100384
1338/70	8	9,2	15	10	70	4-9100385
H8x150	8	9,2	19	10	150	4-9180507
1339/70	9	-	-	11	70	4-9100386
1340/70	10	-	-	12	70	4-9100387
H10x150	10	-	-	12	150	4-9180509



Bits for socket head (Hex int) screws



E6,3 Drive - Spherical models



Reference	Footprint (H)	Length (L)	Code
1732/50	2	50	4-9175007
17325/50	2,5	50	4-9175008
1733/50	3	50	4-9175009
1734/50	4	50	4-9175010
1735/50	5	50	4-9175011
1736/50	6	50	4-9175012
1738/50	8	50	4-9175013

Sold by 10 pieces



Look at our impact bits for Impact and Pulse tool on page 36 & 37





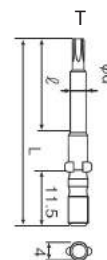
Bits for Torx® screws

HIOS 4 mm Drive



Reference	Footprint (T)	Diameter (d)	Neckline (l)	Length (L)	Code
D73 T1X40	T1	1,5	20	40	4-9102961
D73 T2X40	T2	1,5	20	40	4-9102962
D73 T3X40	T3	1,7	20	40	4-9102963
D73 T4X40	T4	1,8	20	40	4-9102964
D73 T5X40	T5	2	20	40	4-9102965
D73 T5X60	T5	2	20	60	4-9102966
D73 T6X40	T6	2,5	20	40	4-9102967
D73 T6X60	T6	2	20	60	4-9102968
D73 T7X60	T7	2	20	60	4-9102969
D73 T8X40	T8	2,5	20	40	4-9102970
D73 T9X40	T9	3	20	40	4-9102971
D73 T10X40	T10	3	20	40	4-9102972

Sold by 10 pieces



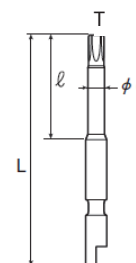
Halfmoon 4 mm Drive



Reference	Footprint (T)	Diameter (d)	Neckline (l)	Length (L)	Code
D71 T1x44	T1	1,5	20	44	4-9101055
D71 T2x44	T2	1,5	20	44	4-9101056
D71 T3x44	T3	1,7	20	44	4-9101057
D71 T4x44	T4	1,8	20	44	4-9101058
ETX250	T5	2	6,5	44	4-9101065
ETX251	T5	2	6,5	64	4-9101081
ETX252	T6	2	6,5	44	4-9101082
ETX253	T6	2	6,5	64	4-9101375
D71 T7x44	T7	2,5	20	44	4-9101066
D71 T8x44	T8	3	20	44	4-9101376
D71 T9x44	T9	3	20	44	4-9101067
D71 T20x64	T20	4	20	64	4-9101546 (*)

Sold by 10 pieces

(*) in stock until sold out

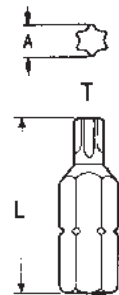


Bits for Torx® screws

C6,3 Drive



Reference	Footprint (T)	Size (A)	Length (L)	Code
T03/25	3	1,12	25	4-9101049
T05/25	5	1,37	25	4-9101050
T06/25	6	1,65	25	4-9101051
T07/25	7	1,99	25	4-9101025
T08/25	8	2,31	25	4-9101026
T09/25	9	2,50	25	4-9101027
T10/25	10	2,74	25	4-9101028
T15/25	15	3,27	25	4-9101029
T20/25	20	3,86	25	4-9101030
T25/25	25	4,43	25	4-9101031
T27/25	27	4,99	25	4-9101032
T30/25	30	5,52	25	4-9101033
T40/25	40	6,30	25	4-9101034
T45/25	45	7,85	25	4-9101048





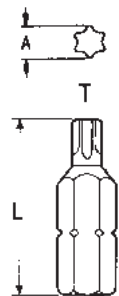
Look at our MMBC bits with magnetic ring on page 34 & 35



C6,3 Drive - TiN Coated



Reference	Footprint (T)	Size (A)	Length (L)	Code
Torx 6 - TiN	6	1,65	25	4-9101117
Torx 7 - TiN	7	1,99	25	4-9101118
Torx 8 - TiN	8	2,31	25	4-9101119
Torx 9 - TiN	9	2,50	25	4-9101121
Torx 10 - TiN	10	2,74	25	4-9101123
Torx 15 - TiN	15	3,27	25	4-9101124
Torx 20 - TiN	20	3,86	25	4-9101125
Torx 25 - TiN	25	4,43	25	4-9101126
Torx 27 - TiN	27	4,99	25	4-9101127
Torx 30 - TiN	30	5,52	25	4-9101128
Torx 40 - TiN	40	6,30	25	4-9101129
Torx 45 - TiN	45	7,85	25	4-9101159



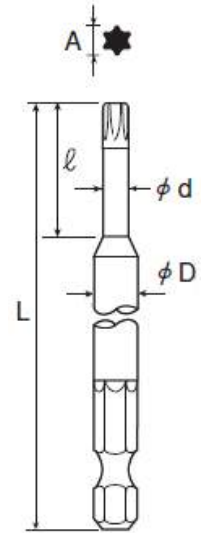


Bits for Torx® screws

E6,3 Drive



Reference	Footprint (T)	Size (A)	Neckline (d)	Neckline (ℓ)	Diameter (D)	Length (L)	Code
Torx 1 L.50	1	0,84	2	21	7	50	4-9101020
Torx 2 L.50	2	0,94	2	21	7	50	4-9101022
Torx 3 L.50	3	1,12	2	21	7	50	4-9101023
Torx 4 L.50	4	1,30	2	21	7	50	4-9101024
T10605	5	1,37	3,18	21	7	49	4-9100306
T10705	5	1,37	3,18	42	7	70	4-9100307
T10606	6	1,65	3,18	21	7	49	4-9100454
T10706	6	1,65	3,18	42	7	70	4-9100481
T10806	6	1,65	3,18	62	7	89	4-9100492
T10906	6	1,65	3,18	123	7	152	4-9101001
T10607	7	1,99	3,18	21	7	49	4-9101035
T10707	7	1,99	3,18	42	7	70	4-9100362
T10807	7	1,99	3,18	62	7	89	4-9100372
T10907	7	1,99	3,18	123	7	152	4-9101003
T10608	8	2,31	3,18	21	7	49	4-9101036
T10708	8	2,31	3,18	42	7	70	4-9100363
T10808	8	2,31	3,18	62	7	89	4-9100373
T10908	8	2,31	3,18	123	7	152	4-9101005
T10609	9	2,50	3,18	21	7	49	4-9101037
T10709	9	2,50	3,18	42	7	70	4-9100364
T10809	9	2,50	3,18	62	7	89	4-9100374
T10909	9	2,50	3,18	123	7	152	4-9101006
T10610	10	2,74	3,96	21	7	49	4-9101038
T10710	10	2,74	3,96	42	7	70	4-9100365
T10810	10	2,74	3,96	62	7	89	4-9101045
T10910	10	2,74	3,96	123	7	152	4-9101007
T10615	15	3,27	3,96	21	7	49	4-9101039
T10715	15	3,27	3,96	42	7	70	4-9100366
T10815	15	3,27	3,96	62	7	89	4-9101046
T10915	15	3,27	3,96	123	7	152	4-9101008
T10620	20	3,86	4,37	21	7	49	4-9101040
T10720	20	3,86	4,37	42	7	70	4-9100367
T10820	20	3,86	4,37	62	7	89	4-9101047
T10920	20	3,86	4,37	123	7	152	4-9101010
T10625	25	4,43	4,75	21	7	49	4-9101041
T10725	25	4,43	4,75	42	7	70	4-9100368
T10825	25	4,43	4,75	62	7	89	4-9100375
T10925	25	4,43	4,75	123	7	152	4-9101011
T10627	27	4,99	6,35	21	7	49	4-9101042
T10827	27	4,99	6,35	62	7	89	4-9100376
T10927	27	4,99	6,35	123	7	152	4-9101012
T10630	30	5,52	6,35	21	7	49	4-9101043
T10730	30	5,52	6,35	42	7	70	4-9100370
T10830	30	5,52	6,35	62	7	89	4-9100377
T10930	30	5,52	6,35	123	7	152	4-9101013
T10640	40	6,65	7	21	7	49	4-9101044
T10740	40	6,65	7	42	7	70	4-9100371
T10840	40	6,65	7	62	7	89	4-9100378
T10940	40	6,65	7	123	7	152	4-9101014



E6,3 Drive - TiN Coated



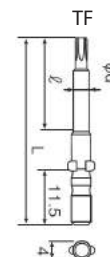
Reference	Footprint (T)	Size (A)	Neckline (d)	Neckline (ℓ)	Diameter (D)	Length (L)	Code
Torx 10x50 - TiN	10	2,74	3,6	23	7	50	4-9101140
Torx 15x50 - TiN	15	3,27	4,1	23	7	50	4-9101141
Torx 20x50 - TiN	20	3,86	4,1	23	7	50	4-9101142
Torx 25x50 - TiN	25	4,43	4,6	23	7	50	4-9101143
Torx 30x50 - TiN	30	5,52	6,1	23	7	50	4-9101144
Torx 40x50 - TiN	40	6,65	7,1	23	7	50	4-9101145

Bits for Tamper Torx®

HIOS 4 mm Drive

Reference	Footprint (TF)	Diameter (d)	Length (L)	Code
D73 T8HX60	T8H	4	60	4-9102981
D73 T10HX60	T10H	4	60	4-9102982

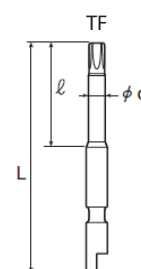
Sold by 10 pieces



Half moon 4 mm Drive

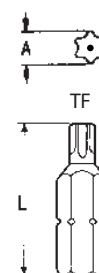
Reference	Footprint (TF)	Diameter (d)	Neckline (ℓ)	Length (L)	Code
ETX254	T8H	3	7	44	4-9101541
ETX255	T8H	4	48	64	4-9101543
ETX256	T10H	4	7,5	44	4-9101542
ETX257	T10H	4	7,5	64	4-9101544
ETX259	T15H	4	7,5	64	4-9101545

Sold by 10 pieces



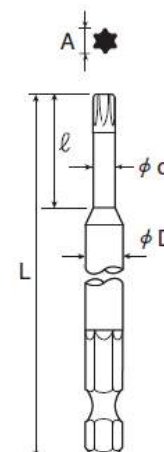
C6,3 Drive

Reference	Footprint (TF)	Size (A)	Length (L)	Code
TF08/25	8	2,31	25	4-9100106
TF09/25	9	2,50	25	4-9100127
TF10/25	10	2,74	25	4-9101059
TF15/25	15	3,27	25	4-9101060
TF20/25	20	3,86	25	4-9101061
TF25/25	25	4,43	25	4-9101062
TF27/25	27	4,99	25	4-9101063
TF30/25	30	5,52	25	4-9101064



E6,3 Drive

Reference	Footprint (TF)	Size (A)	Neckline (d)	Neckline (ℓ)	Diameter (D)	Length (L)	Code
T10610H	10	2,74	3,9	21	7	49	4-9101724
T10710H	10	2,74	3,9	42	7	70	4-9102024
T10620H	20	3,86	4,3	21	7	49	4-9100001
T10720H	20	3,86	4,3	42	7	70	4-9100016
T10820H	20	3,86	4,3	62	7	90	4-9100017
T10920H	20	3,86	4,3	123	7	150	4-9100018





Bits for Torx plus® screws

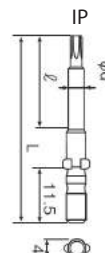


HIOS 4 mm Drive



Reference	Footprint (IP)	Diameter (d)	Neckline (ℓ)	Length (L)	Code
D73 4IPX60	4	1,8	20	60	4-9102991
D73 5IPX60	5	2	20	60	4-9102992
D73 6IPX60	6	2,5	20	60	4-9102993
D73 8IPX60	8	3	20	60	4-9102994
D73 10IPX60	10	3	20	60	4-9102995

Sold by 10 pieces

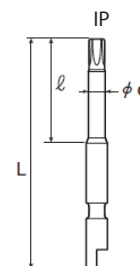


Half moon 4 mm Drive



Reference	Footprint (IP)	Diameter (d)	Neckline (ℓ)	Length (L)	Code
D71 2IPX44	2	1,5	20	44	4-9101451
D71 2IPX64	2	1,5	20	64	4-9101452
D71 3IPx44	3	1,7	20	44	4-9101453
D71 3IPx44	3	1,7	20	64	4-9101454
D71 4IPX44	4	1,8	20	44	4-9101455
D71 4IPX64	4	1,8	20	64	4-9101456
D71 5IPX44	5	2	20	44	4-9101457
D71 5IPX64	5	2	20	64	4-9101458
D71 6IPX44	6	2,5	20	44	4-9101459
D71 6IPX64	6	2,5	20	64	4-9101460
D71 8IPX44	8	3	20	44	4-9101461
D71 8IPX64	8	3	20	64	4-9101462
D71 10IPX44	10	3	20	44	4-9101463
D71 10IPX64	10	3	20	64	4-9101464

Sold by 10 pieces

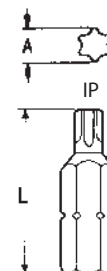


C6,3 Drive



Reference	Footprint (IP)	Size (A)	Length (L)	Code
6IP/25	6	1,64	25	4-9101200
8IP/25	8	2,31	25	4-9101201
10IP/25	10	2,72	25	4-9101202
15IP/25	15	3,25	25	4-9101203
20IP/25	20	3,84	25	4-9101204
25IP/25	25	4,39	25	4-9101205
30IP/25	30	5,49	25	4-9101206
40IP/25	40	6,30	25	4-9101207

Sold by 10 pieces

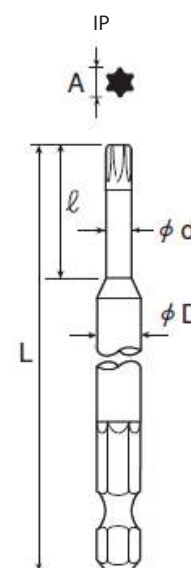


Bits for Torx plus® screws

E6,3 Drive



Reference	Footprint (IP)	Size (A)	Neckline (d)	Neckline (ℓ)	Length(L)	Code
IP10605	5	1,41	3,18	21	49	4-9101215
IP10705	5	1,41	3,18	42	70	4-9101216
IP10606	6	1,64	3,18	21	49	4-9101208
IP10706	6	1,64	3,18	42	70	4-9101222
IP10806	6	1,64	3,18	62	90	4-9101233
IP10906	6	1,64	3,18	123	152	4-9101244
IP10608	8	2,31	3,18	21	49	4-9101211
IP10708	8	2,31	3,18	42	70	4-9101224
IP10808	8	2,31	3,18	62	90	4-9101235
IP10908	8	2,31	3,18	123	152	4-9101246
IP10610	10	2,74	3,96	21	49	4-9101213
IP10710	10	2,74	3,96	42	70	4-9101226
IP10810	10	2,74	3,96	62	90	4-9101237
IP10910	10	2,74	3,96	123	152	4-9101248
IP10615	15	3,27	3,96	21	49	4-9101214
IP10715	15	3,27	3,96	42	70	4-9101227
IP10815	15	3,27	3,96	62	90	4-9101238
IP10915	15	3,27	3,96	123	152	4-9101249
IP10620	20	3,86	4,37	21	49	4-9101217
IP10720	20	3,86	4,37	42	70	4-9101228
IP10820	20	3,86	4,37	62	90	4-9101239
IP10920	20	3,86	4,37	123	152	4-9101250
IP10625	25	4,43	4,75	21	49	4-9101218
IP10725	25	4,43	4,75	42	70	4-9101229
IP10825	25	4,43	4,75	62	90	4-9101240
IP10925	25	4,43	4,75	123	152	4-9101251
IP10627	27	4,99	6,35	21	49	4-9101219
IP10727	27	4,99	6,35	42	70	4-9101230
IP10827	27	4,99	6,35	62	90	4-9101241
IP10927	27	4,99	6,35	123	152	4-9101252
IP10630	30	5,52	6,35	21	49	4-9101220
IP10730	30	5,52	6,35	42	70	4-9101231
IP10830	30	5,52	6,35	62	90	4-9101242
IP10930	30	5,52	6,35	123	152	4-9101253
IP10640	40	6,65	7	21	49	4-9101221
IP10740	40	6,65	7	42	70	4-9101232
IP10840	40	6,65	7	62	90	4-9101243
IP10940	40	6,65	7	123	152	4-9101254



Sold by 10 pieces

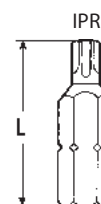


Bits for Torx® Plus Security screws

C6,3 Drive



Reference	Footprint (IPR)	Length (L)	Code
8IPR L.25	8	25	4-9110342
9IPR L.25	9	25	4-9110341
10IPR L.25	10	25	4-9110343
15IPR L.25	15	25	4-9110344
20IPR L.25	20	25	4-9110345
25IPR L.25	25	25	4-9110346
27IPR L.25	27	25	4-9110347
30IPR L.25	30	25	4-9110348
40IPR L.35	40	35	4-9110349
45IPR L.35	45	35	4-9110361



Sold by 10 pieces

E6,3 Drive



Reference	Footprint (IPR)	Diameter (d)	Length (L)	Code
10IPR L.50	10	4,0	50	4-9110362
15IPR L.50	15	4,0	50	4-9110363
20IPR L.50	20	4,5	50	4-9110364
25IPR L.50	25	6,0	50	4-9110365
27IPR L.50	27	6,0	50	4-9110366
30IPR L.50	30	6,0	50	4-9110367

Sold by 10 pieces



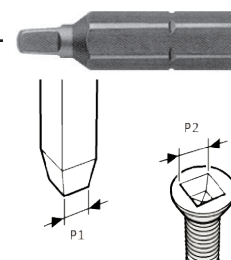
These screwdriver bits are only sold to customer under "Torx Plus Tamper-resistant" user licence.

Bits for square screws

■ C6,3 Drive

Reference	Footprint (P)	P1 (mm)	P2 (mm)	Length (L)	Code
3001	1 (3/32")	2,31	2,5	25,4	4-9100084
3002	2 (1/8")	2,85	3,1	25,4	4-9100093
3003	3 (9/64")	3,37	3,7	25,4	4-9100098

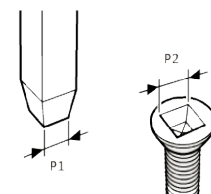
Sold by 10 pieces



■ E6,3 Drive

Reference	Footprint (P)	P1 (mm)	P2 (mm)	Length (L)	Code
3041	1 (3/32")	2,31	2,5	70	4-9100061
3042	2 (1/8")	2,85	3,1	70	4-9100062
3043	3 (9/64")	3,37	3,7	70	4-9100066

Sold by 10 pieces



Look at our impact bits for Impact and Pulse tools on page 36 & 37



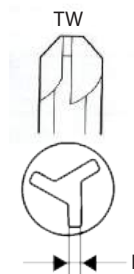


Bits for aircraft screws

Tri-Wing® - C6,3 Drive

Reference	Footprint (TW)	Dimension (E)	Length (L)	Code
4001	1	0,57	25,4	4-9100099
4002	2	0,75	25,4	4-9100103
4003	3	0,95	25,4	4-9100104
4004	4	1,08	25,4	4-9100105

Sold by 10 pieces

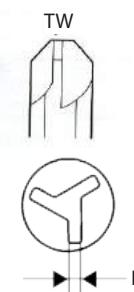


Tri-Wing® - E6,3 Drive

Reference	Footprint (TW)	Dimension (E)	Length (L)	Code
B39 TW2	2	0,75	40	4-9110033
B39 TW3	3	0,95	40	4-9110034
B39 TW4	4	1,08	40	4-9110035
B39 TW5	5	1,23	40	4-9110036
B39 TW6	6	1,54	45	4-9110037 (*)
B39 TW7	7	1,87	46	4-9110038 (*)

Sold by 10 pieces

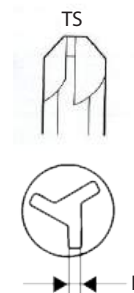
(*) in stock until sold out



Torq-Set® - C6,3 Drive

Reference	Footprint (TS)	Dimension (E)	Length (L)	Code
212-0	0	0,43	25,4	4-9100143
212-1	1	0,43	25,4	4-9100144
212-2	2	0,43	25,4	4-9100145
212-3	3	0,48	25,4	4-9100146
212-4	4	0,56	25,4	4-9100147
212-5	5	0,63	25,4	4-9100148
212-6	6	0,71	25,4	4-9100149
212-8	8	0,84	25,4	4-9100150
212-10	10	0,96	25,4	4-9100151
212-1/4	1/4	1,27	25,4	4-9100152

Sold by 5 pieces



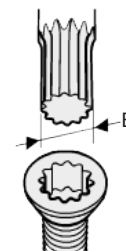
Bits for special screws



Triple Square (XZN) - C6,3 Drive



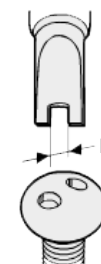
Reference	Dimension (E)	Length (L)	Code
XZN M4	3,83	26	4-9100560
XZN M5	4,80	26	4-9100561
XZN M6	6,00	26	4-9100562
XZN M8	7,20	26	4-9100563
XZN M10	9,60	26	4-9100564



Spanner® - C6,3 Drive



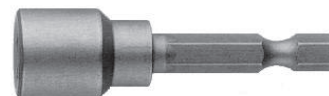
Reference	Dimension (E)	Diameter (D)	Length (L)	Code
Spanner 6	2,41	4,3	26	4-9100230
Spanner 8	2,79	5,2	26	4-9100231
Spanner 10	3,30	6,1	26	4-9100232



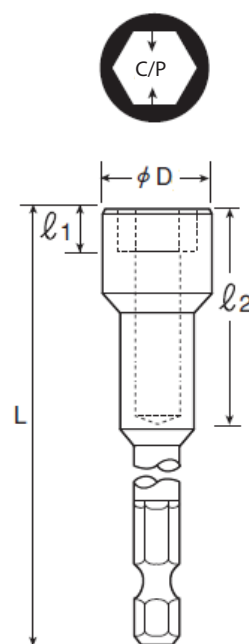


Socket for hexagonal drive screws

E6,3 Drive



Reference	Footprint (C/P)	Diameter (D)	Depth (l1)	Depth (l2)	Length (L)	Code
1304/50	4	8,5	3	15	50	4-9100325
1304/75	4	8,5	3	30	75	4-9100334
1304/100	4	8,5	3	30	100	4-9100344
1345/50	4,5	8,5	3	15	50	4-9100326
1345/75	4,5	8,5	3	30	75	4-9100335
1345/100	4,5	8,5	3	30	100	4-9100345
1305/50	5	8,5	3,5	15	50	4-9100327
1305/75	5	8,5	3,5	30	75	4-9100336
1305/100	5	8,5	3,5	30	100	4-9100346
1305/150	5	8,5	3,5	30	150	4-9100350
1355/50	5,5	9	3,5	15	50	4-9110805
1355/75	5,5	9	3,5	30	75	4-9100955
1355/100	5,5	9	3,5	30	100	4-9100347
1355/150	5,5	9	3,5	30	150	4-9100351
1306/50	6	10	4	15	50	4-9100328
1306/75	6	10	4	30	75	4-9100337
1306/100	6	10	4	30	100	4-9100956
1306/150	6	10	4	30	150	4-9100352
1307/50	7	13	5	15	50	4-9110806
1307/75	7	13	5	30	75	4-9100338
1307/100	7	13	5	30	100	4-9110800
1307/150	7	13	5	30	150	4-9100353
1308/50	8	13	5	15	50	4-9110807
1308/75	8	13	5	30	75	4-9100957
1308/100	8	13	5	30	100	4-9110801
1308/150	8	13	5	30	150	4-9100354
1309/50	9	14	5,5	15	50	4-9100329
1309/75	9	14	5,5	30	75	4-9100339
1309/100	9	14	5,5	30	100	4-9100348
1310/50	10	16	6,5	15	50	4-9110808
1310/75	10	16	6,5	30	75	4-9100958
1310/100	10	16	6,5	30	100	4-9110809
1310/150	10	16	6,5	30	150	4-9100355
1311/50	11	17	7	15	50	4-9100330
1311/75	11	17	7	30	75	4-9100340
1311/100	11	17	7	30	100	4-9100349
1312/50	12	19	7,5	15	50	4-9100331
1312/75	12	18	7,5	30	75	4-9100341
1312/100	12	18	7,5	30	100	4-9100959
1312/150	12	18	7,5	30	150	4-9100356
1313/50	13	19	8	15	50	4-9100332
1313/75	13	19	8	30	75	4-9100342
1313/100	13	19	8	30	100	4-9110803
1313/150	13	19	8	30	150	4-9100357
1314/50	14	20	8	15	50	4-9100333
1314/75	14	20	8	30	75	4-9100343
1314/100	14	20	8	30	100	4-9110804

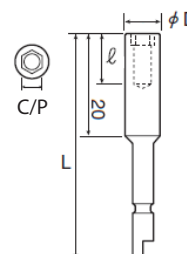


Socket for hexagonal drive screws

Half moon 4 mm Drive

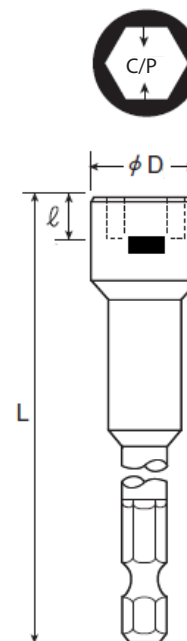
Reference	C/P	Diameter (D)	Depth (ℓ)	Length (L)	Code
EBX 241	2,3	4	5	44	4-9100539
EBX 242	2,5	4	5	44	4-9100514
EBX 243	3	5	8	44	4-9100540
EBX 244	4	7	10	44	4-9100516
EBX 245	4,5	7	10	44	4-9100541
EBX 246	5	8	15	44	4-9100517
EBX 247	5,5	8	15	44	4-9100518

Sold by 10 pieces



E6,3 Drive - Magnetic model

Reference	Footprint (C/P)	Diameter (D)	Depth (ℓ)	Length (L)	Code
1305/50M	5	8,5	3,5	50	4-9100263
1305/75M	5	8,5	3,5	75	4-9100274
1305/100M	5	8,5	3,5	100	4-9100285
1305/150M	5	8,5	3,5	150	4-9100296
1355/50M	5,5	9	3,5	50	4-9100264
1355/75M	5,5	9	3,5	75	4-9100275
1355/100M	5,5	9	3,5	100	4-9100286
1355/150M	5,5	9	3,5	150	4-9100297
1306/50M	6	10	4	50	4-9100265
1306/75M	6	10	4	75	4-9100276
1306/100M	6	10	4	100	4-9100287
1306/150M	6	10	4	150	4-9100298
1307/50M	7	13	5	50	4-9100266
1307/75M	7	13	5	75	4-9100277
1307/100M	7	13	5	100	4-9100288
1307/150M	7	13	5	150	4-9100299
1308/50M	8	13	5	50	4-9100267
1308/75M	8	13	5	75	4-9100278
1308/100M	8	13	5	100	4-9100289
1308/150M	8	13	5	150	4-9100300
1309/50M	9	14	5,5	50	4-9100268
1309/75M	9	14	5,5	75	4-9100279
1309/100M	9	14	5,5	100	4-9100290
1310/50M	10	16	6,5	50	4-9100269
1310/75M	10	16	6,5	75	4-9100280
1310/100M	10	16	6,5	100	4-9100291
1310/150M	10	16	6,5	150	4-9100301
1311/50M	11	17	7	50	4-9100270
1311/75M	11	17	7	75	4-9100281
1311/100M	11	17	7	100	4-9100292
1312/50M	12	19	7,5	50	4-9100271
1312/75M	12	18	7,5	75	4-9100282
1312/100M	12	18	7,5	100	4-9100293
1312/150M	12	18	7,5	150	4-9100302
1313/50M	13	19	8	50	4-9100272
1313/75M	13	19	8	75	4-9100283
1313/100M	13	19	8	100	4-9100294
1313/150M	13	19	8	150	4-9100303
1314/50M	14	20	8	50	4-9100273
1314/75M	14	20	8	75	4-9100284
1314/100M	14	20	8	100	4-9100295





MMBC Range

BITS with Magnetic ring

+ Phillips MMBC - C6,3 Drive



Reference	Footprint	Length (L)	Code
PH1 L.33MMBC 	PH 1	33	4-9101611
PH2 L.33MMBC 	PH 2	33	4-9101612

Sold by 10 pieces

+ Phillips MMBC - Spare bits (without ring)



Reference	Footprint	Length (L)	Code
PH1 L.33 	PH 1	33	4-9101564
PH2 L.33 	PH 2	33	4-9101565

Sold by 10 pieces

* Pozidriv® MMBC - C6,3 Drive



Reference	Footprint	Length (L)	Code
PZ1 L.33MMBC	PZ 1	33	4-9101613
PZ2 L.33MMBC	PZ 2	33	4-9101614

Sold by 10 pieces

* Pozidriv® MMBC - Spare bits (without ring)



Reference	Footprint	Length (L)	Code
PZ1 L.33	PZ 1	33	4-9101566
PZ2 L.33	PZ 2	33	4-9101575

Sold by 10 pieces

MMBC Range

BITS with Magnetic ring

Torx® MMBC - C6,3 Drive



Reference	Footprint	Length (L)	Code
T10 L.33MMBC	T 10	33	4-9101528
T15 L.33MMBC	T 15	33	4-9101529
T20 L.33MMBC	T 20	33	4-9101525
T25 L.33MMBC	T 25	33	4-9101687

Sold by 10 pieces

Torx® MMBC - Spare bits (without ring)



Reference	Footprint	Length (L)	Code
T10 L.33	T10	33	4-9101523
T15 L.33	T15	33	4-9101524
T20 L.33	T 20	33	4-9101526
T25 L.33	T25	33	4-9101527

Sold by 10 pieces

Torx® MMBC - E6,3 Drive



Reference	Footprint	Length (L)	Code
T10 L.49MMBC	T 10	49	4-9101692
T10 L.70 MMBC	T 10	70	4-9101707
T20 L.49MMBC	T 20	49	4-9101708
T20 L.75MMBC	T 20	75	4-9101626
T20 L.150MMBC	T 20	150	4-9101627

Sold by 10 pieces

Torx® MMBC - Spare bits (without ring)



Reference	Footprint	Length (L)	Code
T10 L.49MMBC	T 10	49	4-9101692
T10 L.70 MMBC	T 10	70	4-9101707
T20 L.49MMBC	T 20	49	4-9101708
T20 L.75MMBC	T 20	75	4-9101626
T20 L.150MMBC	T 20	150	4-9101627
T25 L.49 MMBC	T25	49	4-9103223
T25 L.70 MMBC	T25	70	4-9103222

Sold by 10 pieces

Spare magnetic ring for MMBC bits



Reference	Diameter (D)	Length (L)	Code
Spare magnetic	12	17	4-9101552

Sold by 10 pieces



IMPACT bits range

For Impact wrench and Pulse tool

+ Phillips Impact - C6,3 Drive



Reference	Footprint	Length (L)	Code
PH2 L.25 - Impact	PH 2	25	4-9110211
PH3 L.25 - Impact	PH 3	25	4-9110212

Sold by 10 pieces

+ Phillips Impact - E6,3 Drive



Reference	Footprint	Length (L)	Code
PH2 L.50 - Impact	PH 2	50	4-9110216
PH3 L.50 - Impact	PH 3	50	4-9110217

Sold by 5 pieces

* Pozidriv Impact - C6,3 Drive



Reference	Footprint	Length (L)	Code
PZ2 L.25 - Impact	PZ 2	25	4-9110221
PZ3 L.25 - Impact	PZ 3	25	4-9110222

Sold by 10 pieces

* Pozidriv Impact - E6,3 Drive



Reference	Footprint	Length (L)	Code
PZ2 L.50 - Impact	PZ 2	50	4-9110226
PZ3 L.50 - Impact	PZ 3	50	4-9110227

Sold by 5 pieces

⊕ Socket head (hex int) Impact - C6,3 Drive



Reference	Footprint	Length (L)	Code
H4 L.25 - Impact	H4	25	4-9110251
H5 L.25 - Impact	H5	25	4-9110252
H6 L.25 - Impact	H6	25	4-9110253

Sold by 10 pieces

⊕ Socket head (hex int) Impact - E6,3 Drive



Reference	Footprint	Length (L)	Code
H4 L.50 - Impact	H4	50	4-9110261
H5 L.50 - Impact	H5	50	4-9110262
H6 L.50 - Impact	H6	50	4-9110263

Sold by 5 pieces

IMPACT bits range

For Impact wrench and Pulse tool

Torx® Impact - C6,3 Drive



Reference	Footprint	Length (L)	Code
T20 L.25 - Impact	T 20	25	4-9110231
T25 L.25 - Impact	T 25	25	4-9110232
T30 L.25 - Impact	T 30	25	4-9110233
T40 L.25 - Impact	T 40	25	4-9110234

Sold by 10 pieces

Torx® Impact - E6,3 Drive



Reference	Footprint	Length (L)	Code
T20 L.50 - Impact	T 20	50	4-9110241
T25 L.50 - Impact	T 25	50	4-9110242
T30 L.50 - Impact	T 30	50	4-9110243
T40 L.50 - Impact	T 40	50	4-9110244

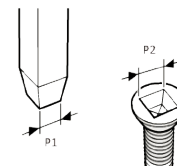
Sold by 5 pieces

Square Impact - C6,3 Drive



Reference	Footprint	P1 (mm)	P2 (mm)	Length (L)	Code
Q2 L.25 - Impact	Square n° 2	2,85	3,1	25	4-9110271
Q3 L.25 - Impact	Square n° 3	3,37	3,7	25	4-9110272

Sold by 10 pieces

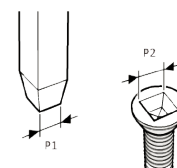


Square Impact - E6,3 Drive



Reference	Footprint	P1 (mm)	P2 (mm)	Length (L)	Code
Q2 L.50 - Impact	Square n° 2	2,85	3,1	50	4-9110277
Q3 L.50 - Impact	Square n° 3	3,37	3,7	50	4-9110276

Sold by 5 pieces



Bit holder Impact - E6,3 Drive



Reference	Output	Length (L)	Code
Impact bit holder with magnetic ring	For C6,3 bit	75	4-9110202

Bit holder Impact - E6,3 Drive



Reference	Output	Length (L)	Code
Magnetic impact bit holder	For C6,3 bit	75	4-9110201



Bits holders and accessories

Bit holders with magnetic ring

Reference	Drive	Output	Diameter (D)	Length (L)	Code
MBC	E6,3 - Hexagonal 1/4"	For bit C6,3	17	71	4-9101444



Bit holders with magnetic ring - Without C-Ring

Reference	Drive	Output	Diameter (D)	Length (L)	Code
MBH150	E6,3 - Hexagonal 1/4"	For bit C6,3	11,1	150	4-9101165
MBH450	E6,3 - Hexagonal 1/4"	For bit C6,3	11,1	450	4-9101166



Magnetic bit holders - With Quick release chuck

Reference	Drive	Output	Diameter (D)	Length (L)	Code
RAPID50	E6,3 - Hexagonal 1/4"	For bit C6,3 ou E6,3	15	50	4-9110203
RAPID75	E6,3 - Hexagonal 1/4"	For bit C6,3 ou E6,3	15	75	4-9110204
RAPID100	E6,3 - Hexagonal 1/4"	For bit C6,3 ou E6,3	15	100	4-9110205



Magnetic bit holders

Reference	Drive	Output	Diameter (D)	Length (L)	Code
DBHM-01	E6,3 - Hexagonal 1/4"	For bit C6,3	60	11,1	4-9110020
3314M/75	E6,3 - Hexagonal 1/4"	For bit C6,3	75	11,1	4-9100129
BH44M	E6,3 - Hexagonal 1/4"	For bit C6,3	100	11,1	4-9100065
BH46M	E6,3 - Hexagonal 1/4"	For bit C6,3	150	11,1	4-9100950



Standard bit holders

Reference	Drive	Output	Diameter (D)	Length (L)	Code
DBH-01	E6,3 - Hexagonal 1/4"	For bit C6,3	11,1	60	4-9110021
BH44	E6,3 - Hexagonal 1/4"	For bit C6,3	11,1	100	4-9100063
BH46	E6,3 - Hexagonal 1/4"	For bit C6,3	11,1	150	4-9100949



Bits holders and accessories

Hexagonal 1/4" - 4 mm Half moon adapter



Reference	Drive	Output	Length (mm)	Code
HD 71	E6,3 - Hexagonal 1/4"	For half moon bit 4 mm	45	4-9100932

4 mm Half moon - Hexagonal 1/4" magnetic adapter



Reference	Drive	Output	Length (mm)	Code
BH423M	Half moon 4mm	For bit C6,3	75	4-9100954

Bit holder for 4mm Half moon and 4mm Hios - With quick release chuck

Reference	Drive	Output	Length (mm)	Code
E-DLH	E6,3 - Hexagonal 1/4"	For 4mm half-moon or Hios bit	50	4-9110007
DL-DLH	Half-moon 4mm	For 4mm half-moon or Hios bit	50	4-9110008
H-DLH	Hios 4mm	For 4mm half-moon or Hios bit	50	4-9110009



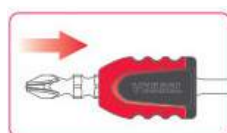
Individual magnet rings for E6,3 Bits

Reference	Diameter	Packaging	Code
Mag'O Net 4 mm	4,7 mm	Sold by pack of 10 pieces	4-9100058
Mag'O Net 7 mm	7,0 mm	Sold by pack of 10 pieces	4-9100057



Magnetizer-demagnetizing ring kit

Référence	Code
NMC-2P	4-9180000



Magnetises the bit



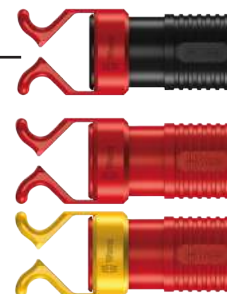
Demagnetises the bit



Hand drivers

Screw grab

Reference	Composition	Length (L)	Code
1441SB	Screw grab for bits diameter 4,5 to 6,0 mm	41	4-9100002
1440-1442	Set of two screw grab : - one screw grab for bits diameter 4,5 to 6,0 mm - one screw grab for bits diameter 6,0 to 8,5 mm	41	4-9100003



SMART handle for E6,3 Bits

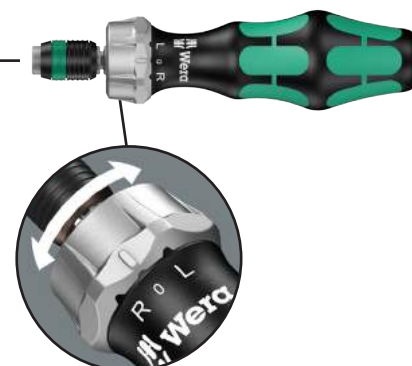
Reference	Output	Code
SMART handle	For bit E 6,3 - Hexagonal 1/4"	4-9110150



2 in 1 Handle : screwdriver Handle or T driver

Ratchet screwdriver with magnetic bit holder

Fits for quick change bits C6,3 and E6,3
 Ratchet with small tothing allowing small rework angle
 Inversion ring (right, left, fixed)
 Max torque 50 Nm
 Fast magnetic chuck
 Handle lenght : 142 mm
Code : 4-9103141



Adapters

Male Hex Drive E6,3 1/4" / Male Square



Reference	Drive	Output		Length (L)	Code
X5001	E6,3 - Hexagonal 1/4"	Square 1/4"	Pin	35	4-9100951
B0531	E6,3 - Hexagonal 1/4"	Square 1/4"	Pin	50	4-9103156
X5002	E6,3 - Hexagonal 1/4"	Square 1/4"	Pin	51	4-9100153
X5003	E6,3 - Hexagonal 1/4"	Square 1/4"	Pin	76	4-9100155
X5004	E6,3 - Hexagonal 1/4"	Square 1/4"	Pin	102	4-9100157
X5005	E6,3 - Hexagonal 1/4"	Square 1/4"	Pin	152	4-9100160
X5011	E6,3 - Hexagonal 1/4"	Square 3/8"	Pin	43	4-9100952
X5012	E6,3 - Hexagonal 1/4"	Square 3/8"	Pin	51	4-9100025
X5013	E6,3 - Hexagonal 1/4"	Square 3/8"	Pin	76	4-9100026
X5014	E6,3 - Hexagonal 1/4"	Square 3/8"	Pin	102	4-9100201
X5015	E6,3 - Hexagonal 1/4"	Square 3/8"	Pin	152	4-9100203
X5021	E6,3 - Hexagonal 1/4"	Square 1/2"	Pin	51	4-9101907

Female Square / Female Hex. 1/4" with quick release chuck



Drive	Output	Length (L)	Code
Square 1/4"	For bit E6,3 - Hexagonal 1/4"	38	4-9101071
Square 3/8"	For bit E6,3 - Hexagonal 1/4"	45	4-9101072
Square 1/2"	For bit E6,3 - Hexagonal 1/4"	54	4-9101073

Female Square / C6,3 bit holder - fast chuck



Reference	Drive	Output	Length (L)	Code
784 A	Square 1/4"	For C6,3 bits holder - hexagonal 1/4"	30	4-9110040
784 B	Square 3/8"	For C6,3 bits holder - hexagonal 1/4"	43	4-9110041
784 C	Square 1/2"	For C6,3 bits holder - hexagonal 1/4"	50	4-9110042

Female Square / Female Hex. 1/4"



Reference	Drive	Output	Length (L)	Code
DM825	Square 1/4"	For bit C6,3 - Hexagonal 1/4"	25,4	4-9100067
2801	Square 3/8"	For bit C6,3 - Hexagonal 1/4"	38	4-9101021

Female Square / Female HEx. 1/4" - Magnetic



Reference	Drive	Output	Length (L)	Code
M825	Square 1/4"	For bit C6,3 - Hexagonal 1/4"	57,2	4-9100068



Tightening torque abacus

These abacus has been determined according to the NF E25-030 standard from 1984 with the following criteria :

- Dimensional and material criteria :
 - Hexagonal head metric screws ISO 4014 with 4017 Thread
 - Screw hole according to the 273 ISO Standard middle series
 - Bolt Assembly class 4,6 to 12,9
- Friction criteria
 - 0,10 : for phosphate or zinc screws and good quality lubricant
 - 0,15 : for black or zinc screws and poor lubricant
 - 0,20 : for coated screws without lubricant
- Tightening criteria
 - Max tightening corresponding to 80% of the Elastic limit of the screw
 - The tightening is achieved with an accurate screwdriver (+/- 10% to Accuracy)

Note : Tightenings in stainless steel elements feature higher friction rates and may provok some seizures. To decrease these risks it is recommended to use smooth and clean surfaces, high quality lubricant and reduced speed rotation of the screwdriver.



These charts are given for information only. It belongs to your Engineering team to achieve its own studies according your process and your tightening tools.

Tightening torque abacus

STANDARD PITCH THREAD

Diameter	Pitch (mm)	μ	Class							
			4-6	4-8	A2-70 A4-70	6-8	A2-80 A4-80	8-8	10-9	12-9
M1,6	0,35	0,10	0,04	0,06	0,08	0,09	0,11	0,11	0,16	0,19
		0,15	0,05	0,07	0,10	0,11	0,13	0,14	0,20	0,24
		0,20	0,06	0,08	0,12	0,12	0,15	0,16	0,23	0,28
M2	0,4	0,10	0,09	0,12	0,17	0,18	0,22	0,24	0,34	0,40
		0,15	0,11	0,15	0,21	0,23	0,28	0,30	0,42	0,51
		0,20	0,13	0,17	0,24	0,26	0,32	0,35	0,49	0,58
M2,5	0,45	0,10	0,19	0,25	0,35	0,37	0,46	0,50	0,70	0,84
		0,15	0,24	0,31	0,44	0,47	0,59	0,63	0,88	1,1
		0,20	0,27	0,36	0,51	0,54	0,68	0,73	1,0	1,2
M3	0,5	0,10	0,32	0,43	0,61	0,65	0,81	0,86	1,2	1,5
		0,15	0,41	0,55	0,77	0,82	1,0	1,1	1,5	1,8
		0,20	0,48	0,63	0,89	0,95	1,2	1,3	1,8	2,1
M4	0,7	0,10	0,74	0,99	1,4	1,5	1,9	2,0	2,8	3,3
		0,15	0,94	1,3	1,8	1,9	2,3	2,5	3,5	4,2
		0,20	1,1	1,4	2,0	2,2	2,7	2,9	4,1	4,9
M5	0,8	0,10	1,5	2,0	2,7	2,9	3,7	3,9	5,5	6,6
		0,15	1,9	2,5	3,5	3,7	4,7	5,0	7,0	8,4
		0,20	2,2	2,9	4,1	4,3	5,4	5,8	8,1	9,7
M6	1	0,10	2,5	3,4	4,8	5,1	6,4	6,8	9,5	11
		0,15	3,2	4,3	6,1	6,5	8,1	8,6	12	15
		0,20	3,7	5,0	7,0	7,5	9,4	10	14	17
M8	1,25	0,10	6,2	8,2	12	12	15	16	23	28
		0,15	7,9	10	15	16	20	21	29	35
		0,20	9,1	12	17	18	23	24	34	41
M10	1,5	0,10	12	17	23	25	31	33	46	56
		0,15	16	21	30	32	40	42	59	71
		0,20	18	25	35	37	46	49	69	83
M12	1,75	0,10	21	28	40	42	53	57	80	96
		0,15	27	36	51	54	68	73	102	122
		0,20	32	42	59	63	79	85	119	143
M16	2	0,10	52	69	97	103	129	138	194	233
		0,15	67	89	125	134	167	178	251	301
		0,20	78	104	147	157	196	209	294	352

FINE PITCH THREAD

Diameter	Pitch (mm)	μ	Class							
			4-6	4-8	A2-70 A4-70	6-8	A2-80 A4-80	8-8	10-9	12-9
M1,6	0,2	0,10	0,05	0,07	0,10	0,11	0,13	0,14	0,20	0,24
		0,15	0,07	0,09	0,13	0,14	0,17	0,18	0,26	0,31
		0,20	0,08	0,11	0,15	0,16	0,20	0,21	0,30	0,36
M2	0,25	0,10	0,11	0,14	0,20	0,21	0,26	0,28	0,40	0,48
		0,15	0,14	0,18	0,26	0,27	0,34	0,37	0,51	0,62
		0,20	0,16	0,21	0,30	0,32	0,40	0,43	0,60	0,72
M2,5	0,35	0,10	0,20	0,27	0,38	0,40	0,51	0,54	0,76	0,91
		0,15	0,26	0,35	0,49	0,52	0,65	0,70	0,98	1,2
		0,20	0,30	0,41	0,57	0,61	0,76	0,81	1,1	1,4
M3	0,35	0,10	0,36	0,48	0,67	0,71	0,89	0,95	1,3	1,6
		0,15	0,46	0,62	0,87	0,93	1,2	1,2	1,7	2,1
		0,20	0,55	0,73	1,0	1,1	1,4	1,5	2,0	2,5
M4	0,5	0,10	0,82	1,1	1,5	1,6	2,1	2,2	3,1	3,7
		0,15	1,1	1,4	2,0	2,1	2,7	2,8	4,0	4,8
		0,20	1,2	1,7	2,3	2,5	3,1	3,3	4,7	5,6
M5	0,5	0,10	1,6	2,2	3,1	3,3	4,1	4,4	6,2	7,4
		0,15	2,2	2,9	4,0	4,3	5,4	5,7	8,1	9,7
		0,20	2,5	3,4	4,8	5,1	6,3	6,8	9,5	11
M6	0,75	0,10	2,8	3,7	5,2	5,5	6,9	7,4	10	12
		0,15	3,6	4,8	6,7	7,2	9,0	9,6	13	16
		0,20	4,2	5,6	7,9	8,4	11	11	16	19
M8	1	0,10	6,6	8,7	12	13	16	17	25	29
		0,15	8,5	11	16	17	21	23	32	38
		0,20	9,9	13	19	20	25	26	37	45
M10	1,25	0,10	13	17	24	26	33	35	49	59
		0,15	17	23	32	34	42	45	63	76
		0,20	20	26	37	40	49	53	74	89
M12	1,25	0,10	23	31	43	46	57	61	86	103
		0,15	30	40	56	60	75	80	113	135
		0,20	35	47	66	71	89	94	133	159
M16	1,5	0,10	55	73	103	109	137	146	205	246
		0,15	72	96	135	144	180	192	270	324
		0,20	85	113	159	170	212	226	318	382



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