



# Spare Parts

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## Torque for Screws

### Hexagon Socket Set Screws (DIN 913...916)

Thread	Width across flats [mm]	Tightening moment MA (nm) for property class 45H
M3	1.5	0.82
M4	2.0	1.90
M5	2.5	3.50
M6	3.0	5.50
M8	4.0	9.50
M10	5.0	20.0
M12	6.0	30.0

### Hexagon Socket Set Screws (DIN 912)

Thread	Width across flats [mm]	Tightening moment MA (nm) for property class 8.8
M3	2.5	1.1
M4	3.0	2.5
M5	4.0	5.0
M6	5.0	10.0
M8	6.0	15.0
M10	8.0	15.0

### Screws with Torx

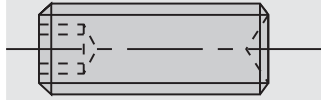
Thread	Torx-Size	Torque MA [Nm] for property class
M2.5	T8	1.31
M3	T9	2.30
M3.5	T15	2.95
M4	T15	5.20
M4x0.5	T9	2.00
M4.5	T15	5.20
M5	T20	8.60
M6	T25	15.00
M5	T15	8.00

995161

**Set Screws - with hexagon socket and cup point**

Drawing

Notes



- | with hexagon socket and cup point
- | packing unit 10 pieces

Dimension

Ident-No.

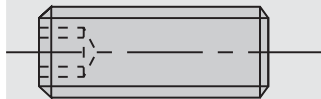
M5x4 DIN EN ISO 4029	001608
M5x5 DIN EN ISO 4029	001609
M6x4 DIN EN ISO 4029	167068
M6x6 DIN EN ISO 4029	180003
M6x5 DIN EN ISO 4029	165049
[mm]	

995161

**Set Screws - with hexagon socket and flat point**

Drawing

Notes



- | with hexagon socket with flat point
- | packing unit 10 pieces

Dimension

Ident-No.

M5x10 DIN EN ISO 4026	180028
M6x6 DIN EN ISO 4026	163546
M6x8 DIN EN ISO 4026	180036
M8x10 DIN EN ISO 4026	059549
[mm]	

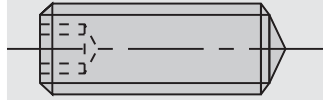


995161

**Set Screws - with hexagon socket and cone point**

Drawing

Notes



- | with hexagon socket with cone point
- | packing unit 10 pieces

Dimension

Ident-No.

M5x10 DIN EN ISO 4027  
[mm]

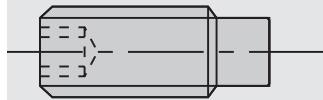
001686

995161

**Set Screws - with hexagon socket and dog point**

Drawing

Notes



- | with hexagon socket with dog point
- | packing unit 10 pieces

Dimension

Ident-No.

M5x8 DIN EN ISO 4028	180015
M5x12 DIN EN ISO 4028	050565
M6x6 DIN EN ISO 4028	163841
M6x10 DIN EN ISO 4028	180002
M6x12 DIN EN ISO 4028	180214
M6x16 DIN EN ISO 4028	001617
M6x25 DIN EN ISO 4028	167979
M8x10 DIN EN ISO 4028	001622
M8x12 DIN EN ISO 4028	180001
M8x14 DIN EN ISO 4028	168453
M8x16 DIN EN ISO 4028	164422
M8x20 DIN EN ISO 4028	001625
M8x35 DIN EN ISO 4028	165937
M10x12 DIN EN ISO 4028	001630
M10x16 DIN EN ISO 4028	168192
M10x20 DIN EN ISO 4028	815807
M10x25 DIN EN ISO 4028	168108
M12x25 DIN EN ISO 4028	181466
[mm]	

995161

**Set Screws - with hexagon socket and ball pressure screw**

## Notes

- | with hexagon socket and ball pressure screw
- | packing unit 10 pieces

## Dimension

## Ident-No.

M8x20

168874 o

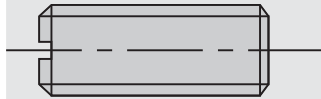
[mm]

995162

**Set Screws - with flat point**

## Drawing

## Notes



- | slotted with flat point
- | packing unit 10 pieces

## Dimension

## Ident-No.

M5x10 DIN EN 24766

001600

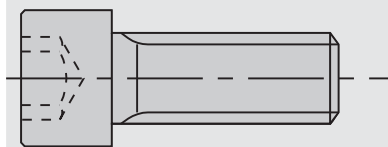
[mm]

995111

**Head Cap Screws - with hexagon socket**

## Drawing

## Notes



- | with hexagon socket
- | packing unit 10 pieces

## Dimension

## Ident-No.

M5x40 DIN EN ISO 4762

001875

M6x16 DIN EN ISO 4762

001879

M6x40 DIN EN ISO 4762

001884

M8x10 DIN EN ISO 4762

001890 o

M10x50 DIN EN ISO 4762

001909

M12x30 DIN EN ISO 4762

001917

M12x50 DIN EN ISO 4762

001921

M16x40 DIN EN ISO 4762

001933

M16x50 DIN EN ISO 4762

166442

M16x50L DIN EN ISO 4762

166431

M16x70 DIN EN ISO 4762

059169

M16x120 DIN EN ISO 4762

001938

M20x50 DIN EN ISO 4762

166441

M20x50L DIN EN ISO 4762

166440

[mm]



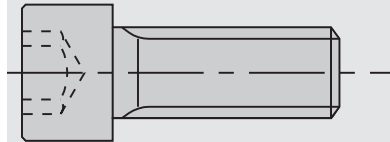
Dimension	Ident-No.
M20x80 DIN EN ISO 4762	056178
M20x120 DIN EN ISO 4762	056153
[mm]	

995111

## Head Cap Screws - with hexagon socket with low head

Drawing

Notes



- | with hexagon socket with low head
- | packing unit 10 pieces

Dimension

Ident-No.

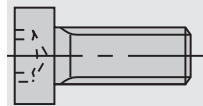
M5x16	165961
M8x16	180004
M8x30	180005
M8x50	180006
[mm]	

995115

## Head Cap Screws - with Torx

Drawing

Notes



- | with Torx
- | packing unit 10 pieces

Dimension

Ø D

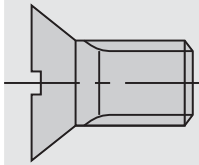
Ident-No.

M2,5x3 T8	3,45	168237
M2,5x4 T8	3,45	168238
M3x5,5 T8	4,35	168239
M3x10 T8	4,4	168782
M3,5x3,8 T15	7,0	162645
M3,5x5,5 T15	6,0	168236
M3,5x6,5 T15	6,2	163223
M3,5x6,5 T15	7,0	162644
M3,5x8 T15	6,25	163222
M5x12 T20	8,5	171237
[mm]	[mm]	

995 122

**Countersunk Screws - slotted**

Drawing



Notes

- | slotted
- | packing unit 10 pieces

Dimension

Ident-No.

M5x10 DIN EN ISO 2009

055881

M5x12

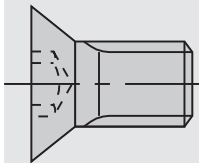
180007

[mm]

995 125

**Countersunk Screws - with Torx**

Drawing



Notes

- | with Torx
- | packing unit 10 pieces

Dimension

Ident-No.

M2,5x5,5 T8

167486

M3x7,3 T8

166502

M3,5x5,5 T15

162649

M3,5x6 T15

162648

M4x0,5x3,2 T9

163925

M4x0,5x4,2 T9

165908

M4x0,5x5,3 T9

170202

M5x6 T20

176199

M5x6,8 T15

180839

M5x8 T20

164005

M5x9 T20 D=Ø9,3

827277

M5x10 T20

for attaching the saw blade without flange

171236

M5x10,8 T15

180840

M5x12 T20

166709

M5x13,5 T20

with collar 6,3 mm

171238

M5x16 T20

for attaching the flange

164839

M6x10 T20

181244

[mm]



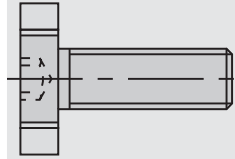


995190

## Cutter Retaining Bolts

Drawing

Notes



l with hexagon socket

Dimension

Ident-No.

M16x26xØ42

173592

M12x22xØ35

173591

Ø20xM8x23

171393

Ø28xM10x26

171392

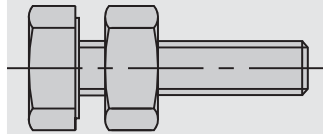
[mm]

995190

## Stop Screws

Drawing

Notes



l for shank-type tools  
l packing unit 10 pieces

Dimension

Ident-No.

M8x25

stop screw

172828

M6x16

for shank Ø 16

172797

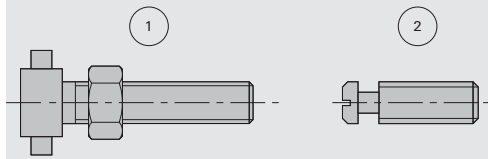
[mm]

995190

**Safety Screws**

Drawing

Notes



| for ps-System and PS 2000-E

Dimension

Ident-No.

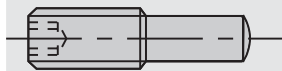
1	M6x20	for ps-System 16 mm	Ident-No. 168674	172115
1	M8x25	for ps-System 25 mm	Ident-No. 167738	172113
2	M8x19	for PS-2000 E	Ident-No. 173352	172921
	[mm]			

995191

**Special Set Screws**

Drawing

Notes



| for SuperProfiler "MAN"  
| with hexagon socket  
| packing unit 10 pieces

Dimension

Ident-No.

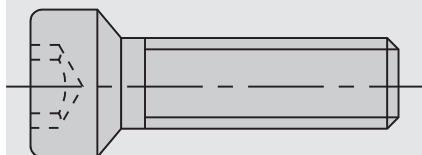
M8x24	167269
[mm]	

995191

**Screws**

Drawing

Notes



| for "Klack" bottom part  
| packing unit 10 pieces

Dimension

Ident-No.

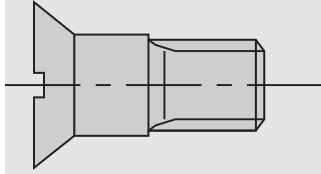
M8x24L	180013
M8x24R	180012
[mm]	

995 192

**Countersunk Screws - with collar**

Drawing

Notes



- | with collar
- | packing unit 10 pieces

Dimension

Ident-No.

M5x12

180009

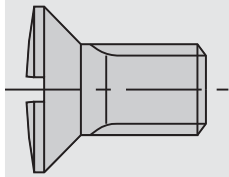
[mm]

995 192

**Countersunk Screws - for hogger segments**

Hoggers

Notes



- | for hogger segments
- | safety screws

Dimension

Ident-No.

M8x12,5

180010

M8x17

180011

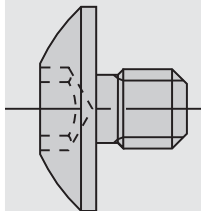
[mm]

995 195

**Round Head Screws**

Drawing

Notes



- | with Torx
- | packing unit 10 pieces

Dimension

Ident-No.

M3,5x4 T15

head Ø 9

168893

M3,5x12 T15

head Ø 9

171067

M4x5,9 T15

head Ø 9

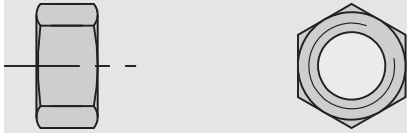
167966

[mm]

995210

**Hexagon Nuts**

Drawing



Dimension

Ident-No.

M4 DIN EN ISO 4032

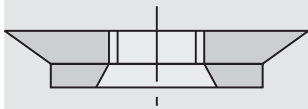
009631

M6 DIN EN ISO 4032

009633

[mm]

995290

**Special Nuts**

- | for grooving cutterhead turnover knives
- | packing unit 10 pieces

Dimension

Ident-No.

M4x0,5x1,6

163704

M4x0,5x2,2

163703

M4x0,5x2,75

165907

M4x0,5x4,1

170203

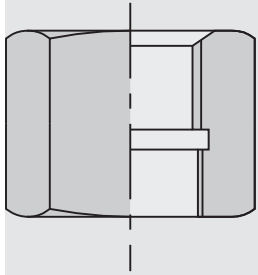
[mm]



995290

**Union Nuts**

Drawing



Notes

I for MK-shanks

Dimension

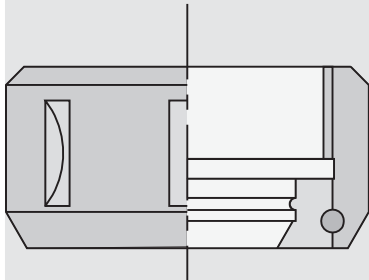
Ident-No.

M33x3/M30x1,5	double-edged	170275 o
W 1 1/8"/W20x14	hexagonal	167911 o
W 1 1/8"/M30x1,5/L	hexagonal	167780
W 1 1/8"/M30x1,5	hexagonal	165561
[mm]		

995290

**Lock Nuts**

Drawing



Notes

I for draw-in collet chucks

Dimension

Ident-No.

M30x1,5R	with ball-bearing	178763
M40x1,5R	with slide bearing	178761
M48x2R	with slide bearing	178764
M50x1,5R	with slide bearing	178762 o
[mm]		

955520

## Spacers

Ø D	B	Ø d	DKN	NL	Ident-No.
14	0,1	6			176422 o
14	0,2	6			176423 o
14	0,5	6			176424 o
14	1,0	6			176425 o
14	2,0	6			176426 o
14	5,0	6			176427 o
40	0,1	20			000218
40	0,2	20			000219
40	0,5	20			000220
40	1,0	20			000221
40	2,0	20			000222
40	3,0	20			000223
40	0,1	25			183756
40	0,2	25			183757
40	0,5	25			183758
40	1,0	25			183759
40	2,0	25			183760
40	4,0	25			183761
40	6,0	25			183762
40	10	25			183763
40	20	25			183764
80	0,05	22		2/4/42	017424
80	0,1	22		2/4/42	017425
80	0,2	22		2/4/42	017426
45	0,1	25			000230
45	0,2	25			000231
45	0,5	25			000232
45	1,0	25			000233
45	2,0	25			000234
45	3,0	25			000235
50	0,1	30			000242
50	0,2	30			000243
50	0,5	30			000244
50	1,0	30			000245
50	2,0	30			000246
50	3,0	30			000247
65	0,1	30			000266
65	0,1	30	8x3,3		176700
65	0,2	30			000267
65	0,2	30	8x3,3		176701
65	0,5	30			000268
65	0,5	30	8x3,3		176702
65	1,0	30			000269
65	1,0	30	8x3,3		176703
65	2,0	30			000270
65	2,0	30	8x3,3		176704
65	3,0	30			000271
65	3,0	30	8x3,3		176705
65	4,0	30			161999
[mm]	[mm]	[mm]	[mm]		



Ø D	B	Ø d	DKN	NL	Ident-No.
65	4,0	30	8x3,3		176706
65	10	30			162002
65	10	30	8x3,3		176707
90	0,1	30			000308
90	0,2	30			000309
90	0,5	30			000310
90	1,0	30			000311
90	2,0	30			000312
90	3,0	30			000313
100	0,1	30			000320
100	0,2	30			000321
100	0,5	30			000322
100	1,0	30			000323
100	2,0	30			000324
100	3,0	30			000325
175	0,1	30			000458
175	0,2	30			000459
175	0,5	30			000460
175	1,0	30			000461
70	0,1	35			000296
70	0,1	35	10x3,3		176436
70	0,2	35			000297
70	0,2	35	10x3,3		176437
70	0,5	35			000298
70	0,5	35	10x3,3		176438
70	1,0	35			000299
70	1,0	35	10x3,3		176439
70	2,0	35			000300
70	2,0	35	10x3,3		176440
70	3,0	35			000301
70	3,0	35	10x3,3		176441
70	4,0	35			162000
70	4,0	35	10x3,3		176442
70	10	35			162003
70	10	35	10x3,3		176443
100	0,1	35			000326
100	0,2	35			000327
100	0,5	35			000328
100	1,0	35			000329
100	2,0	35			000330
100	3,0	35			000331
70	0,1	40			000302
70	0,1	40	12x3,3		176444
70	0,2	40			000303
70	0,2	40	12x3,3		176445
70	0,5	40			000304
70	0,5	40	12x3,3		176446
70	1,0	40			000305
70	1,0	40	12x3,3		176447
70	2,0	40			000306
70	2,0	40	12x3,3		176448
70	3,0	40			000307
70	3,0	40	12x3,3		176449
70	4,0	40			162001
70	4,0	40	12x3,3		176450
70	10	40			162004
70	10	40	12x3,3		176451
120	0,1	40			000344
120	0,2	40			000345
120	0,5	40			000346
120	1,0	40			000347
120	2,0	40			000348
90	0,1	50			000314
90	0,2	50			000315
[mm]	[mm]	[mm]	[mm]		

Ø D	B	Ø d	DKN	NL	Ident-No.
90	0,5	50			000316
90	1,0	50			000317
90	2,0	50			000318
90	3,0	50			000319
100	0,05	50		4/9/80	177019
100	0,1	50		4/9/80	176835
100	0,2	50		4/9/80	176836
100	0,5	50		4/9/80	176837
100	1,0	50		4/9/80	176838
100	2,0	50		4/9/80	176839
100	3,0	50		4/9/80	176840
90	0,05	60		3/9/74	177022
90	0,1	60		3/9/74	177023
90	0,2	60		3/9/74	177024
90	0,5	60		3/9/74	177025
90	1,0	60		3/9/74	177026
90	2,0	60		3/9/74	177027
100	0,1	60			000332
100	0,2	60			000333
100	0,5	60			000334
100	1,0	60			000335
100	2,0	60			000336
100	3,0	60			000337
120	0,1	60		4/9/100	176830
120	0,15	60		4/9/100	177018
120	0,2	60		4/9/100	176831
120	0,5	60		4/9/100	176832
120	1,0	60		4/9/100	176495
120	2,0	60		4/9/100	176833
120	3,0	60		4/9/100	176834
160	0,1	60			000452
160	0,2	60			000453
160	0,5	60			000454
160	1,0	60			000455
160	2,0	60			000456
160	3,0	60			000457
115	1,0	80		4/10/100	009255
120	0,1	80		4/9/100+2/6,5/90	177380
120	0,2	80		4/9/100+2/6,5/90	177381
120	0,5	80		4/9/100+2/6,5/90	177382
120	1,0	80		4/9/100+2/6,5/90	177383
120	2,0	80		4/9/100+2/6,5/90	177384
120	3,0	80		4/9/100+2/6,5/90	177385
130	0,5	80			000450
145	0,1	80		4/12/100+4/9/120	552104
145	0,2	80		4/12/100+4/9/120	552105
145	0,5	80		4/12/100+4/9/120	552106
145	1,0	80		4/12/100+4/9/120	552107
[mm]	[mm]	[mm]	[mm]		

## 955521

## Spacer Sets - 9 parts

## Notes

I 9 piece set consists of: 1 piece 0.1 mm, 2 pieces 0.2 mm, 1 piece 0.5 mm, 3 pieces 1.0 mm, 1 piece 4.0 mm, 1 piece 10 mm

Ø D	B	Ø d	Ident-No.
65	18	30	161797
70	18	35	161798
70	18	40	161799
[mm]	[mm]	[mm]	



955521

### Spacer Sets - 8 parts for milling spindles

Notes

| for milling spindles

| 8 piece set consists of: 2 pieces 5 mm, 1 piece 8 mm, 1 piece 10 mm, 2 pieces 16 mm, 1 piece 25 mm, 1 piece 40 mm

Ø D	B	Ø d	Ident-No.
50	125	30	160233 o
60	125	40	160234 o
[mm]	[mm]	[mm]	

995520

### Spacers for S-System - Homag

Notes

| for S-System - Homag

Ø D	B	Ø d	DKN	Ident-No.
60	11	35	10x3,3	180647
[mm]	[mm]	[mm]	[mm]	

955530

## Reducing Ring

## Notes

| for reduction of the saw blade bore

| rotation of the clamping flanges must be observed to ensure secure clamping of the tool

Ø D	B	Ø d	Ø d	Ident-No.
20	1,6	12,7	1/2	161946
20	1,6	16		161945
22	2,0	20		161887
22	4,0	20		161830
25	2,2	20		000104
30	1,4	15		000107
30	1,4	16		000111
30	1,4	20		000117
30	1,4	25		000125
30	1,8	15,1	19/32	161949
30	1,9	16		000112
30	1,9	20		000118
30	2,0	20		016848
30	2,0	25		000127
30	2,2	15,88	5/8	000110
30	2,2	16		000113
30	2,2	18		000114
30	2,2	20		000119
30	2,2	22		000120
30	2,2	25		000128
30	2,2	25,4	1	000130
30	2,2	28		000132
30	3,0	25		000129
32	2,0	16		161886
32	2,2	16		000134
32	2,2	20		000135
32	2,2	22		010571
32	2,2	30		000137
35	1,0	30		000145
35	1,4	30		000146
35	1,9	30		000147
35	2,2	20		000138
35	2,2	24		000139
35	2,2	25		000142
35	2,2	28		000144 s
35	2,2	30		000148
35	2,2	32		000150 s
40	2,0	32		161962
40	2,2	20		000151
40	2,2	30		000153
40	2,2	35		000154
45	2,5	30		161831
50	2,2	30		000156
55	2,2	30		000159
60	2,2	30		000161
60	2,2	35		000162
60	2,2	40		000163
60	2,2	50		000164
60	2,8	30		010577
70	2,2	30		000166
80	2,2	30		000171
80	2,2	35		000172
80	2,2	50		000175
80	2,2	60		000177
80	2,2	70		000179
[mm]	[mm]	[mm]	[inch]	



Ø D	B	Ø d	Ø d	Ident-No.
80	2,8	60		000178
[mm]	[mm]	[mm]	[inch]	

956506

## Reducing Bushing

Notes  
 | cylindrical  
 | bore tolerance H7

Ø D	B	Ø d	Ø d	Ident-No.
30	5,1 - 10	20		000411 s
30	5,1 - 10	25		000415 &
30	10,1 - 25	20		000441 o
30	10,1 - 25	25		000445 &
30	15,1 - 20		1	000726 &
30	15,1 - 20	20		000721 o
30	15,1 - 20	25		000725 &
30	20,1 - 25		1	000756 o
30	20,1 - 25	25		000755 &
30	25,1 - 30	20		000781 o
30	25,1 - 30	25		000785 &
30	30,1 - 40		1	000816 &
30	30,1 - 40	20		000811 &
30	30,1 - 40	25		000815 &
30	40,1 - 50		1	000846 &
30	40,1 - 50	25		000845 o
30	50,1 - 60	25		000875 &
30	60,1 - 80		1	000365
30	60,1 - 80	20		000360
30	60,1 - 80	25		000364
35	5,1 - 10	20		000420 &
35	5,1 - 10	30		000424 &
35	10,1 - 25	30		000704 &
35	15,1 - 20		1 1/4	000735 &
35	15,1 - 20	30		000734 &
35	20,1 - 25		1 1/4	000765 &
35	20,1 - 25	30		000764 &
35	25,1 - 30		1 1/4	000795 o
35	25,1 - 30	30		000794 &
35	30,1 - 40		1 1/4	000825 &
35	30,1 - 40	30		000824
35	40,1 - 50	30		000854 &
35	50,1 - 60		1 1/4	000885 &
35	50,1 - 60	30		000884 &
35	60,1 - 80		1 1/4	000374
35	60,1 - 80	20		000369
35	60,1 - 80	30		000373
40	5,1 - 10	20		000428 &
40	5,1 - 10	25		000429 &
40	5,1 - 10	30		000430 &
40	5,1 - 10	35		000891 &
40	10,1 - 25	20		000708 &
40	10,1 - 25	30		000710 &
40	10,1 - 25	35		000912 &
40	15,1 - 20	30		000740 &
40	15,1 - 20	35		000933 &
30	25,1 - 30		1	000786 &
40	20,1 - 25	25		000769 &
40	20,1 - 25	30		000770 &
40	25,1 - 30	30		000800 &
40	25,1 - 30	35		000975 o
[mm]	[mm]	[mm]	[inch]	

Ø D	B	Ø d	Ø d	Ident-No.
40	30,1 - 40	20		000828 &
40	30,1 - 40	25		000829 &
40	30,1 - 40	30		000830 &
40	30,1 - 40	35		000996 &
40	40,1 - 50	30		000860 &
40	40,1 - 50	35		001017 &
40	50,1 - 60	30		000890 &
40	50,1 - 60	35		001038 &
40	60,1 - 80	20		000377
40	60,1 - 80	25		000378
40	60,1 - 80	30		000379
40	60,1 - 80	35		000380
60	5,1 - 10	30		000899 &
60	5,1 - 10	35		000900 &
60	5,1 - 10	40		000901 &
60	10,1 - 25	30		000920 &
60	10,1 - 25	35		000921 &
60	10,1 - 25	40		000922 &
60	15,1 - 20	30		000941 &
60	15,1 - 20	35		000942 &
60	15,1 - 20	40		000943 &
60	20,1 - 25	30		000962 &
60	20,1 - 25	35		000963 &
60	25,1 - 30	30		000983 &
60	25,1 - 30	35		000984 &
60	25,1 - 30	40		000985 &
60	30,1 - 40	30		001004 &
60	30,1 - 40	35		001005 &
60	30,1 - 40	40		001006 &
60	40,1 - 50	30		001025 &
60	40,1 - 50	35		001026 &
60	40,1 - 50	40		001027 &
60	50,1 - 60	35		001047 &
60	50,1 - 60	40		001048 &
60	60,1 - 80	30		000388
60	60,1 - 80	35		000389
60	60,1 - 80	40		000390
80	5,1 - 10	30		000905 &
80	10,1 - 25	40		000928 &
80	15,1 - 20	30		000947 &
80	15,1 - 20	35		000948 &
80	15,1 - 20	40		000949 &
80	20,1 - 25	35		000969 &
80	20,1 - 25	40		000970 &
80	25,1 - 30	30		000989 &
80	25,1 - 30	35		000990 &
80	30,1 - 40	35		001011 &
80	30,1 - 40	40		001012 &
80	40,1 - 50	30		001031 &
80	40,1 - 50	35		001032 &
80	40,1 - 50	40		001033 &
80	50,1 - 60	35		001053 &
80	60,1 - 80	30		000394
80	60,1 - 80	35		000395
80	60,1 - 80	40		000396
80	10,1 - 25	30		000926 &
80	10,1 - 25	35		000927 &
80	5,1 - 10	35		000906 &
80	5,1 - 10	40		000907 &
[mm]	[mm]	[mm]	[inch]	

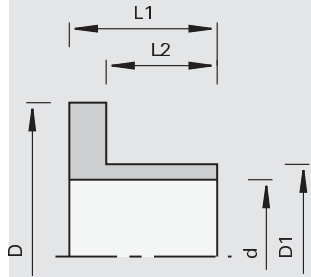


956506

### Reducing Bushings with collar

Drawing

Notes



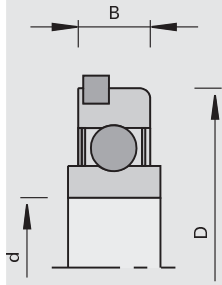
I with collar

Ø D	Ø D1	Ø d	L1	L2	Ident-No.
60 [mm]	40 [mm]	30 [mm]	24 [mm]	18 [mm]	168063 s

997500

## Ball Bearing Bushings

Drawing



Notes

- | for use with ball bearing rub collar
- | bearing cage sealed against dust
- | stop collar for ball bearing ring

$\varnothing D$	B	$\varnothing d$	Ident-No.
62	16	30	003578
72	20	40	160203 o
[mm]	[mm]	[mm]	

997500

## Ball Bearings

Notes

Notes

- | for shank-type tools

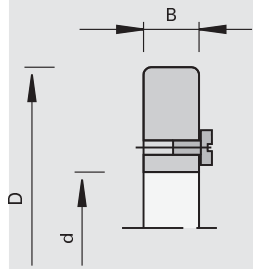
	Dimension	Ident-No.
ball-bearing thrust ring assy.	$\varnothing 12$	167923
ball-bearing thrust ring assy.	$\varnothing 14$	169314
Ball Bearings	12,7x5x4,76	164920
Ball Bearings	13x5x6	170265 o
Ball Bearings	15,9x5x6,35	164921
Ball Bearings	19x6x6	164922
Ball Bearings	22x7,5x8	180838
ball-bearings with thrust ring	19x7,5x6,35	164229
ball-bearings with thrust ring	21x7,5x6,35	170774 o
ball-bearings with thrust ring	22x7,5x6,35	164228
	[mm]	



955550

## Rub Collars

Drawing



Notes

- | for use on ball bearing bushing
- | intermediate dimensions available upon request
- | screw for axial locking: cap screw M4x10 DIN 84 Ident-No. 001730

Ø D	B	Ø d	Ident-No.
75	10	62	160205
80	10	62	160206
85	10	62	160207
90	10	62	160208
95	10	62	160209 o
100	10	62	160210
105	10	62	160211
110	10	62	160212
115	10	62	160213 o
120	10	62	160214
125	10	62	056840
130	10	62	160215 o
135	10	62	160216 o
140	10	62	160217 o
145	10	62	160218 o
150	10	62	160219
[mm]	[mm]	[mm]	

985720

**Engineers Wrenches**

Dimension	Ident-No.
9x11 DIN 3118	168672 o
11x13 DIN 3118	168670 o
14x17 DIN 3118	168671
SW10/13 DIN 895	171060 o
[mm]	

985720

**Single-Head Engineers Wrenches**

Dimension	Ident-No.
SW36 DIN 894	169296 o
SW41 DIN 894	169297
SW46x10 DIN 894	178760
[mm]	

985720

**Hook Wrenches**

Notes  
I for draw-in collet chucks

Dimension	Ident-No.
SW40/42 DIN 1810	169298
SW45/50 DIN 1810	175851
SW58/62 DIN 1810	169299
[mm]	

985730

**Cranked Wrench Keys for hexagon socket screws**

Notes  
I for hexagon socket screws

Dimension	Ident-No.
SW2 DIN ISO 2936	009670
SW2,5 DIN ISO 2936	009671
SW3 DIN ISO 2936	009672
SW4 DIN ISO 2936	009673
SW5 DIN ISO 2936	009674
SW6 DIN ISO 2936	009675
SW8 DIN ISO 2936	009677
[mm]	





985730

### Screwdrivers with sliding handle for hexagon socket

Notes

- | for hexagon socket screws
- | with sliding handle

Dimension	Ident-No.
SW2,5x100	168010
SW3x100	166090
SW4x100	166091
SW5x150	168703
SW6x200	167817
[mm]	

985730

### Screwdrivers with sliding handle for Torx

Notes

- | for screws with Torx
- | with sliding handle

Dimension	Ident-No.
T20x100	166092
T25x100	50933169
T40x130	831404 o
[mm]	

985730

### Screwdrivers with flag for Torx

Notes

- | for screws with Torx
- | with flag

Dimension	Ident-No.
T7	167904
T8	166499
T9	164344
T15	163161
[mm]	

985730

### Cranked Wrench Keys for Torx

Notes

Notes

- | for screws with Torx

Dimension	Ident-No.
T15	for adjustment unit Altendorf 181147
T30x100	50933102
[mm]	

985730

**Screwdrivers with spinner handle for Torx**

## Notes

- | for screws with Torx
- | with spinner handle

Dimension	Ident-No.
T9x60	173796
T15x80	171188
T15x140	179145
[mm]	

985730

**Screwdrivers with spinner handle**

## Notes

## Notes

- | with spinner handle

Dimension	Ident-No.
8	053874
[mm]	

985730

**Screwdrivers with wooden handle**

## Notes

## Notes

- | with wooden handle

Dimension	Ident-No.
9,0	011088
[mm]	

985200

**Adjusting Gauges**

Dimension	Ident-No.
0,3	055883
0,5	50570583
0,7	056096
0,8	50570581
1,0	011103
1,8	50570582
[mm]	

997800

**Magnetic Stops**

Dimension	Ident-No.
0,0	016613
0,5	166093
1,0	166094
[mm]	

two-piece for glue-joint cutterhead

