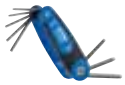
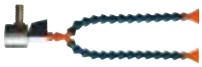
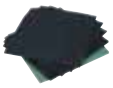
Workshop supplies

	Single open-ended spanner, adjustable spanner	70-2
	Double open-ended spanner, ring spanner	70-3
	Hook spanner	70-7
	Hexagonal offset screwdriver	70-8
	Hexagonal offset screwdriver with angled double ball head	70-11
	TORX- offset screwdriver	70-13
	T-handle screwdriver	70-13
	Screwdriver with flag handle	70-15
	Screwdrivers	70-16
	Screwdriver in hand-held fold-out holder	70-22
	Bit holder and inserts	70-23
	Tube spanner	70-28
	Sockets and inserts	70-29
	Torque screwdriver	70-35
	Torque wrenches	70-40
	Torque wrench MANOSKOP P730 Quick	70-41
	Snap-in tools	70-43
	Tweezers	70-45
	Knives and cutters	70-45
	Pliers and VDE pliers	70-48
	Water pump pliers	70-50
	Electronic pliers	70-51
	Gripping and clamping pliers	70-56
	Snap-ring and electronics pliers	70-58
	Stripper pliers, crimping pliers	70-59
	Chisels, centre punches and wad punches	70-60
	Hammers	70-63
	CNC marking tool	70-7
	Steel types and hand punches	70-68
	Engraving and marking devices	70-70
	Screw clamps	70-72
	Pullers	70-73
	Knurled screw heads	70-76
	Lubricants	70-77
	Marking fluid	70-77
	Cooling lubricant concentrate, cutting oil and thread cutting paste	70-78
	Adhesives	70-79
	PIG repair putty	70-80

	Cleaning products	70-81
	Cleaning agents	70-83
	Lubricants	70-84
	Oil cans and industrial oilers	70-85
	Hand-lever pressure grease gun	70-86
	Paper tissue rolls and cleaning cloths	70-87
	Tool cases and bags	70-88
	Padlock	70-89
	Deburring tools and scrapers	70-90
	Deburring tool sets	70-96
	Batteries	70-100
	Hand-held lights	70-101
	Workplace lights	70-103
	LED workplace lights	70-104
	Coolant delivery systems	70-106
	Cold air nozzles	70-109
	CNC cleaning tools	70-110
	Chip hooks Magnetic chip collector	70-111
	Machine shoes	70-112
	Damping mats	70-115
	Small metal saws	70-116
	Metal saws, hand-saw and jig-saw blades	70-116
	One-handed pneumatic die grinder	70-118
	Pneumatic blow guns	70-121
	Pneumatic accessories	70-123
	Jigsaws	70-125
	Rotary hammer drills and machines	70-127
	Cordless screwdrivers	70-126
	Angle and straight grinders	70-129
	Battery-powered straight grinders	70-130
	Battery-powered magnetic core drill	70-131
	Magnetic core drill	70-131
	Edge deburring tool	70-132
	Power outlet strip and Socket distributors	70-132
	Bench and pillar drills, grinding machines	70-133
	Standard parts	70-135

Single open-end spanner

DIN 894

- Jaw position 15°, robust handle, die-forged
- Up to size 75 mm = black
  Size 80 mm upwards = steel grey

Wr. width mm	L mm	art.no.	€
6	75	**700160** 0006	1,26
7	80	700160 0007	1,30
8	95	700160 0008	1,30
9	100	700160 0009	1,40
10	105	700160 0010	1,34
12	125	700160 0012	1,62
13	135	700160 0013	1,62
14	140	700160 0014	1,62
15	147	700160 0015	1,85
17	151	700160 0017	1,55
19	170	700160 0019	1,91
22	195	700160 0022	2,40
		7101	

Wr. width mm	L mm	art.no.	€
24	215	700160 0024	3,10
25	230	700160 0025	4,52
27	240	700160 0027	3,55
30	260	700160 0030	4,37
32	275	700160 0032	4,70
36	305	700160 0036	6,10
41	340	700160 0041	7,65
46	380	700160 0046	8,95
50	410	700160 0050	11,90
55	440	700160 0055	13,60
60	477	700160 0060	24,30
65	510	700160 0065	29,20
		7101	

Adjustable spanner, DIN 3117A

DIN 3117A

- **Adjustable**
- Swedish model, 15° jaw position
- Worm screw with anticlockwise rotation
- Material: Chrome vanadium steel, phosphate-treated, head ground

Phosphate-treated

max. jaw aperture mm	L mm	art.no.	€
19	150	**700165** 0020	10,80
24	200	700165 0025	12,70
29	250	700165 0030	16,–
33.5	300	700165 0036	21,30
45	375	700165 0043	36,50
		7101	

ATORN® Adjustable spanner

- **Adjustable**
- Jaw position 15°

Standard version

- **Material**: Chrome vanadium steel, burnished or chrome-plated

max. jaw aperture mm	L mm	Burnished art.no.	€	Chrome-plated art.no.	€
19	150	**700166** 0006	12,80	**700167** 0006	15,30
24	200	700166 0008	15,30	700167 0008	16,40
29	250	700166 0010	19,30	700167 0010	21,10
33	300	700166 0012	25,90	700167 0012	31,20
45	375	700166 0015	34,30	700167 0015	36,30
55	450	700166 0018	59,50	700167 0018	63,–
60	600			700167 0024	118,–
62	600	700166 0024	108,–		
		7102		7102	

ATORN® Double open-end spanner

DIN 3110 ISO 10102

- Jaw position 15°
- Chrome vanadium steel, chrome-plated
- Slim design

700120 1617

Double open-end spanner, individual

Wr. width mm	L mm	art.no.	€
6 x 7	125	**700120** 0607	2,79
8 x 9	142	700120 0809	2,90
8 x 10	142	700120 0810	3,16
10 x 11	157	700120 1011	3,21
10 x 13	170	700120 1013	3,93
11 x 13	175	700120 1113	4,24
12 x 13	175	700120 1213	3,62
12 x 14	175	700120 1214	4,19
13 x 14	188	700120 1314	4,24
13 x 15	188	700120 1315	4,45
14 x 15	188	700120 1415	4,66

7102

Wr. width mm	L mm	art.no.	€
13 x 17	205	700120 1317	4,04
14 x 17	205	700120 1417	4,66
16 x 17	205	700120 1617	4,35
16 x 18	205	700120 1618	5,40
17 x 19	222	700120 1719	5,60
18 x 19	222	700120 1819	5,40
19 x 22	233	700120 1922	6,–
19 x 24	249	700120 1924	7,25
20 x 22	233	700120 2022	5,80
21 x 23	249	700120 2123	6,20
22 x 24	249	700120 2224	7,05

7102

Wr. width mm	L mm	art.no.	€
24 x 26	266	700120 2426	8,05
24 x 27	266	700120 2427	8,05
25 x 28	282	700120 2528	9,95
27 x 30	282	700120 2730	11,40
27 x 32	305	700120 2732	11,40
30 x 32	305	700120 3032	11,40
30 x 36	320	700120 3036	18,–
32 x 36	320	700120 3236	18,–
36 x 41	360	700120 3641	23,20
41 x 46	405	700120 4146	35,–

7102

Double open-end spanner sets, boxed

Contents	Wr. width mm	art.no.	€
7-pcs.	6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19	**700125** 0007	28,50
8-pcs.	6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22	700125 0008	31,50
10-pcs.	6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 - 24 x 27 - 30 x 32	700125 0010	47,60
12-pcs.	6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 -16 x 17 - 18 x 19 - 20 x 22 - 21 x 23 - 24 x 27 - 25 x 28 - 30 x 32	700125 0012	60,50

7102

700125 0008

STAHLWILLE® Double open-end spanner

DIN 3110 ISO 10102

- High bending strength and low weight through the Stahlwille typical double T profile
- Non-slip, skin-friendly surface thanks to the Stahlwille rounded finish
- Thinner than usual rings, making work in the tightest spaces possible
- Chrome alloy steel, chrome-plated

Double open-end spanner, individual

Wr. width mm	L mm	art.no.	€
4.5 x 5	100	**700130** 0405	5,50
5.5 x 7	120	700130 0507	5,15
6 x 7	120	700130 0607	4,20
7 x 8	140	700130 0708	5,50
8 x 9	140	700130 0809	4,55
8 x 10	140	700130 0810	5,10
10 x 11	155	700130 1011	4,65
10 x 12	170	700130 1012	6,20
10 x 13	170	700130 1013	6,15
11 x 13	170	700130 1113	6,80
12 x 13	170	700130 1213	5,50
12 x 14	170	700130 1214	6,55
13 x 14	190	700130 1314	6,85

7168

Wr. width mm	L mm	art.no.	€
13 x 15	190	700130 1315	7,05
13 x 17	205	700130 1317	7,25
14 x 15	190	700130 1415	6,–
14 x 17	205	700130 1417	7,40
16 x 17	205	700130 1617	6,40
16 x 18	220	700130 1618	8,10
17 x 19	220	700130 1719	7,85
18 x 19	220	700130 1819	7,65
18 x 21	235	700130 1821	10,15
19 x 22	235	700130 1922	9,20
20 x 22	235	700130 2022	8,85
21 x 23	250	700130 2123	9,80
21 x 24	250	700130 2124	11,90

7168

Wr. width mm	L mm	art.no.	€
22 x 24	250	700130 2224	10,45
24 x 26	270	700130 2426	12,40
24 x 27	280	700130 2427	11,90
25 x 28	285	700130 2528	14,50
27 x 30	300	700130 2730	17,50
27 x 32	300	700130 2732	17,50
30 x 32	300	700130 3032	16,70
30 x 34	300	700130 3034	19,30
32 x 36	325	700130 3236	29,40
34 x 36	325	700130 3436	32,–
36 x 41	425	700130 3641	40,20
41 x 46	425	700130 4146	54,–

7168

Double open-ended spanner sets, in a roll-up case

Contents	Wr. width mm	art.no.	€
8-pcs. in a roll-up case	6 x 7 / 8 x 9 / 10 x 11 / 12 x 13 / 14 x 15 / 16 x 17 / 18 x 19 / 20 x 22	**700132** 0008	42,90
9-pcs. in box	6 x 7 / 8 x 9 / 10 x 11 / 12 x 13 / 14 x 15 / 16 x 17 / 18 x 19 / 20 x 22 / 21 x 24	700132 0009	53,50
10-pcs. in a roll-up case	6 x 7 / 8 x 9 / 10 x 11 / 12 x 13 / 14 x 15 / 16 x 17 / 18 x 19 / 20 x 22 / 24 x 27 / 30 x 32	700132 0010	69,–
12-pcs. in a roll-up case	6 x 7 / 8 x 9 / 10 x 11 / 12 x 13 / 14 x 15 / 16 x 17 / 18 x 19 / 20 x 22 / 21 x 23 / 24 x 27 / 25 x 28 / 30 x 32	700132 0012	90,50
7-pcs. in a roll-up case	1/4"x5/16" / 3/8"x7/16" / 1/2"x9/16" / 5/8"x3/4" / 11/16"x13/16" / 7/8"x15/16" / 1 1/8"x1 5/16"	700132 1007	62,–
11-pcs. in a roll-up case	1/4"x5/16" / 3/8"x7/16" / 1/2"x9/16" / 9/16"x5/8" / 19/32"x11/16" / 5/8"x3/4" / 11/16"x13/16" / 3/4"x7/8" / 25/32"x13/16" / 7/8"x15/16" / 1 1/8"x1 5/16"	700132 1011	96,50

7168

ATORN® Combination spanner (15° angled ring end)

DIN 3113A ISO 3318

- 12-sided energy profile ring head
- 15° angled ring end
- Chrome vanadium steel, chrome-plated
- **Energy profile**
  also adapts to screws outside the tolerance range, loosens even damaged screw heads, preserves screws, high transfer of force

700501 0017

Combination spanner, individual

Wr. width mm	L mm	art.no.	€
6	100	**700501** 0006	4,14
7	110	700501 0007	4,14
8	120	700501 0008	4,19
9	130	700501 0009	4,66
10	140	700501 0010	4,71
11	150	700501 0011	4,86
12	160	700501 0012	5,60

7102

Wr. width mm	L mm	art.no.	€
13	170	700501 0013	5,60
14	180	700501 0014	6,–
15	190	700501 0015	6,40
16	190	700501 0016	6,60
17	210	700501 0017	6,85
18	210	700501 0018	7,65
19	230	700501 0019	7,85

7102

Wr. width mm	L mm	art.no.	€
20	230	700501 0020	9,10
21	260	700501 0021	9,30
22	260	700501 0022	10,35
24	280	700501 0024	12,–
27	310	700501 0027	13,85
30	340	700501 0030	16,10
32	360	700501 0032	17,80

7102

Combination spanner sets, boxed

Contents	Wr. width mm	art.no.	€
8-pcs.	8 - 9 - 10 - 11 - 13 - 14 - 17 - 19	**700505** 0008	38,10
12-pcs.	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 17 - 19 - 22	700505 0012	61,–
12-pcs.	10 - 11 - 12 - 13 - 14 - 17 - 19 - 22 - 24 - 27 - 30 - 32	700505 0112	101,–
17-pcs.	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22	700505 0017	99,–
17-pcs.	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 22 - 24	700505 0117	103,–

7102

700505 0008

ATORN® Combination spanner (offset ring end)

DIN 3113B ISO 3318

- 12-sided energy profile ring head
- Ring side offset
- Chrome vanadium steel, chrome-plated
- **Energy profile**
  also adapts to screws outside the tolerance range, loosens even damaged screw heads, preserves screws, high transfer of force

700507 0017

Combination spanner, individual

Wr. width mm	L mm	art.no.	€
6	100	**700507** 0006	5,60
7	110	700507 0007	5,60
8	120	700507 0008	5,60
9	130	700507 0009	6,40
10	140	700507 0010	6,–
11	150	700507 0011	6,60
12	160	700507 0012	7,05
13	170	700507 0013	7,45

7102

Wr. width mm	L mm	art.no.	€
14	180	700507 0014	7,85
15	190	700507 0015	8,50
16	190	700507 0016	9,10
17	210	700507 0017	9,30
18	210	700507 0018	10,55
19	230	700507 0019	10,95
20	230	700507 0020	11,40
21	260	700507 0021	12,40

7102

Wr. width mm	L mm	art.no.	€
22	260	700507 0022	13,25
24	280	700507 0024	15,50
27	310	700507 0027	17,40
30	340	700507 0030	20,90
32	360	700507 0032	22,80
36	360	700507 0036	37,70

7102

Combination spanner sets, boxed

Contents	Wr. width mm	art.no.	€
8-pcs.	8 - 9 - 10 - 11 - 13 - 14 - 17 - 19	**700508** 0008	60,–
12-pcs.	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 17 - 19 - 22	700508 0012	89,–
12-pcs.	10 - 11 - 12 - 13 - 14 - 17 - 19 - 22 - 24 - 27 - 30 - 32	700508 0112	141,–

7102

700508 0008

STAHLWILLE Combination spanner

DIN 3113A ISO 7738

- High bending strength and low weight through the Stahlwille typical double T profile
- Non-slip, skin-friendly surface thanks to the Stahlwille rounded finish
- Thinner than usual rings, making work in the tightest spaces possible
- Chrome alloy steel, chrome-plated

Combination spanner, individual

Wr. width mm	L mm	art.no.	€
5.5	100	**700520** 0055	7,25
6	105	700520 0060	6,55
7	110	700520 0070	6,35
8	115	700520 0080	6,25
9	120	700520 0090	7,20
10	125	700520 0100	7,15
11	135	700520 0110	7,65
12	140	700520 0120	8,–
13	160	700520 0130	8,70
14	165	700520 0140	8,75
15	170	700520 0150	10,45
16	180	700520 0160	11,35

7168

Wr. width mm	L mm	art.no.	€
17	190	700520 0170	11,60
18	200	700520 0180	12,95
19	230	700520 0190	13,70
20	230	700520 0200	16,10
21	260	700520 0210	16,80
22	260	700520 0220	16,70
23	280	700520 0230	22,70
24	280	700520 0240	18,70
25	300	700520 0250	23,90
26	300	700520 0260	24,70
27	300	700520 0270	23,40
28	320	700520 0280	29,20

7168

Wr. width mm	L mm	art.no.	€
29	330	700520 0290	30,40
30	330	700520 0300	28,–
32	360	700520 0310	30,70
34	450	700520 0340	44,90
36	460	700520 0360	53,50
38	480	700520 0380	68,50
41	480	700520 0410	66,50
46	500	700520 0460	94,50
50	530	700520 0500	124,–
55	560	700520 0550	154,–
60	590	700520 0600	205,–

7168

Combination spanner sets, in a roll-up case

Contents	Wr. width mm	art.no.	€
6-pcs. in a roll-up case	7 / 8 / 10 / 13 / 17 / 19	**700522** 0006	54,50
9-pcs. in a roll-up case	9 / 10 / 11 / 12 / 13 / 14 / 17 / 19 / 22	700522 0009	80,50
10-pcs. in box	8 / 9 / 10 / 11 / 12 / 13 / 14 / 15 / 17 / 19	700522 0010	86,50
11-pcs. in a roll-up case	8 / 9 / 10 / 11 / 12 / 13 / 14 / 15 / 17 / 19 / 22	700522 0011	95,50
15-pcs. in a roll-up case	6 / 7 / 8 / 9 / 10 / 11 / 12 / 13 / 17 / 19 / 22 / 24 / 27 / 30 / 32	700522 0015	181,–
16-pcs. in box	7 / 8 / 9 / 10 / 11 / 12 / 13 / 14 / 15 / 16 / 17 / 18 / 19 / 21 / 22 / 24	700522 0016	155,–
17-pcs. in a roll-up case	6 / 7 / 8 / 9 / 10 / 11 / 12 / 13 / 14 / 15 / 16 / 17 / 18 / 19 / 20 / 21 / 22	700522 0017	159,–
26-pcs. in box	6 / 7 / 8 / 9 / 10 / 11 / 12 / 13 / 14 / 15 / 16 / 17 / 18 / 19 / 20 / 21 / 22 / 23 / 24 / 25 / 26 / 27 / 28 / 29 / 30 / 32	700522 0026	365,–

7168

ATORN Double-end ring spanner

DIN 838 ISO 1085

- 12-point energy profile ring head, 15° offset
- Chrome vanadium steel, chrome-plated
- **Energy profile**
  also adapts to screws outside the tolerance range, loosens even damaged screw heads, preserves screws, high transfer of force

701005 1617

Double-end ring spanner, individual

Wr. width mm	L mm	art.no.	€
6 x 7	178	**701005** 0607	5,60
8 x 9	195	701005 0809	5,80
8 x 10	195	701005 0810	6,85
10 x 11	200	701005 1011	6,40
10 x 13	220	701005 1013	7,65
12 x 13	220	701005 1213	7,05
12 x 14	220	701005 1214	7,85
13 x 14	220	701005 1314	8,05
13 x 15	225	701005 1315	8,30

7102

Wr. width mm	L mm	art.no.	€
13 x 17	250	701005 1317	8,50
14 x 15	235	701005 1415	7,45
14 x 17	250	701005 1417	8,50
16 x 17	250	701005 1617	8,05
16 x 18	250	701005 1618	9,50
17 x 19	285	701005 1719	9,10
18 x 19	285	701005 1819	8,90
19 x 22	300	701005 1922	11,60
19 x 24	320	701005 1924	14,10

7102

Wr. width mm	L mm	art.no.	€
20 x 22	300	701005 2022	10,75
22 x 24	320	701005 2224	13,65
24 x 26	330	701005 2426	15,30
24 x 27	330	701005 2427	13,85
25 x 28	345	701005 2528	15,90
27 x 32	360	701005 2732	18,20
30 x 32	360	701005 3032	17,40
36 x 41	450	701005 3641	36,–

7102

Double-end ring spanner sets, boxed

Contents	Wr. width mm	art.no.	€
8-pcs.	6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22	**701010** 0008	59,–
10-pcs.	6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 - 24 x 27 - 30 x 32	701010 0010	85,–
12-pcs.	6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 - 21 x 23 - 24 x 26 - 25 x 28 - 30 x 32	701010 0012	105,–

7102

701010 0008

ATORN® Ratcheting combination spanner

- Ratchet with 72 teeth, 5° start angle
- Material: Chrome vanadium, chrome-plated
- **Caution: Do not use ring end for tightening**

Straight version, individual

Wr. width mm	art.no.	€	Wr. width mm	art.no.	€	Wr. width mm	art.no.	€
8	**700110** 0008	9,75	14	700110 0014	12,20	21	700110 0021	20,10
9	700110 0009	9,75	15	700110 0015	12,65	22	700110 0022	20,70
10	700110 0010	9,95	16	700110 0016	13,25	24	700110 0024	25,30
11	700110 0011	10,15	17	700110 0017	14,10	27	700110 0027	29,–
12	700110 0012	10,55	18	700110 0018	14,70	30	700110 0030	34,40
13	700110 0013	10,95	19	700110 0019	15,30	32	700110 0032	38,30
	7102			7102			7102	

Straight version, set

Description	Contents	Wr. width mm	art.no.	€
In a roll-up case	5-pcs.	8 / 10 / 13 / 17 / 19	**700110** 1005	60,–
			7102	

Reversible, 15° angled ring end, individual

Wr. width mm	art.no.	€	Wr. width mm	art.no.	€	Wr. width mm	art.no.	€
8	**700111** 0008	14,30	12	700111 0012	16,60	16	700111 0016	20,50
9	700111 0009	14,50	13	700111 0013	16,80	17	700111 0017	21,50
10	700111 0010	15,10	14	700111 0014	18,80	18	700111 0018	23,40
11	700111 0011	15,70	15	700111 0015	19,50	19	700111 0019	23,80
	7102			7102			7102	

Reversible, 15° angled ring end, set

Description	Contents	Wr. width mm	art.no.	€
In a roll-up case	5-pcs.	8 / 10 / 13 / 17 / 19	**700111** 1005	91,–
			7102	

With articulated head, individual

Wr. width mm	art.no.	€	Wr. width mm	art.no.	€	Wr. width mm	art.no.	€
8	**700112** 0008	15,90	12	700112 0012	17,80	16	700112 0016	21,90
9	700112 0009	16,10	13	700112 0013	18,20	17	700112 0017	22,40
10	700112 0010	16,60	14	700112 0014	19,–	18	700112 0018	23,40
11	700112 0011	17,20	15	700112 0015	19,90	19	700112 0019	24,60
	7102			7102			7102	

With articulated head, set

Description	Contents	Wr. width mm	art.no.	€
In a roll-up case	5-pcs.	8 / 10 / 13 / 17 / 19	**700112** 1005	106,–
			7102	

Dual-sided ratchet function, individual

Wr. width mm	art.no.	€	Wr. width mm	art.no.	€
8	**700115** 0108	12,85	17	700115 0117	19,–
10	700115 0110	13,25	19	700115 0119	20,30
13	700115 0113	15,10		7102	
	7102				

Dual-sided ratchet function, set

Description	Contents	Wr. width mm	art.no.	€
In a pouch	5-pcs.	8 / 10 / 13 / 17 / 19	**700115** 0205	89,–
			7102	

ATORN® Adapter for ratcheting combination spanners

- Suitable for straight versions and articulated head versions

Adapter	suitable for wr. width mm	art.no.	€
1/4" hexagonal bits	10	**700113** 0001	8,30
1/4" square nuts	10	700113 0002	2,43
3/8 square nuts	13	700113 0003	9,95
1/2" square nuts	19	700113 0004	11,20
		7102	

Hook spanner

DIN 1810A DIN 1810B

- Special steel, hardened and burnished
- * not DIN-compliant

With milled nose, for DIN 1804 slotted nuts

- DIN 1810A

Wr. width mm	Total length mm	Thickness mm	art.no.	€
16 - 20	110	3	**701550** 0020	4,61
25 - 28	136	4	701550 0028	4,84
30 - 32	136	4	701550 0032	4,87
34 - 36	170	5	701550 0036	5,78
40 - 42	170	5	701550 0042	5,72
45 - 50	206	6	701550 0050	6,66

4159

Wr. width mm	Total length mm	Thickness mm	art.no.	€
52 - 55	206	6	701550 0055	6,82
58 - 62	240	7	701550 0062	10,05
68 - 75	240	7	701550 0075	9,98
80 - 90	280	8	701550 0090	13,50
95 - 100	280	8	701550 0100	13,55
110 - 115	335	10	701550 0115	23,70

4159

Wr. width mm	Total length mm	Thickness mm	art.no.	€
120 - 130	335	10	701550 0130	23,70
135 - 145	385	10*	701550 0145	29,25
155 - 165	385	10*	701550 0165	29,25
180 - 195	470	10*	701550 0195	47,95

4159

With pilot tip, for capstan nuts, DIN 1816

- DIN 1810B

Wr. width mm	Pin Ø mm	Pin length mm	Total length mm	Thickness mm	art.no.	€
16 - 18	2.5	2.5	110	3	**701560** 0020	5,18
25 - 28	3.0	3.0	136	4	701560 0028	5,86
30 - 32	4.0	3.0	136	4	701560 0032	5,86
34 - 36	4.0	3.5	170	5	701560 0036	6,88
40 - 42	4.0	3.5	170	5	701560 0042	6,92
45 - 50	5.0	4.0	206	6	701560 0050	8,58
52 - 55	5.0	4.0	206	6	701560 0055	8,64
58 - 62	5.0	5.0	240	7	701560 0062	11,45

4159

Wr. width mm	Pin Ø mm	Pin length mm	Total length mm	Thickness mm	art.no.	€
68 - 75	6.0	5.0	240	7	701560 0075	11,55
80 - 90	6.0	6.0	280	8	701560 0090	14,25
95 - 100	8.0	6.0	280	8	701560 0100	14,25
110 - 115	8.0	8.0	335	8*	701560 0115	24,65
120 - 130	8.0	8.0	335	8*	701560 0130	24,65
135 - 145	8.0	8.0	380	8*	701560 0145	32,15
180 - 195	10.0	8.0	470	10*	701560 0195	54,20

4159

Face spanner

- **Adjustable face wrench with electrically welded pins**
- Special steel, tempered to a burnished shade

Individual

Pin Ø mm	Adjusting range pin removal mm	Pin length mm	Total length mm	art.no.	€
3	11 - 60	4	160	**701570** 0003	8,74
4	11 - 60	5	160	701570 0004	8,74
5	14 - 100	6	215	701570 0005	12,70
6	14 - 100	7	215	701570 0006	12,70
8	14 - 100	8	215	701570 0008	13,25

4159

Set with replaceable pins (two sets per size)

- Special steel, hardened and galvanised
- Replaces five individual spanner sizes (Ø 1.5 / 2 / 2.5 / 3 / 4 mm)
- Supplied in a robust two-component box

Wr. width mm	Weight kg	art.no.	€
8 - 100	0.335	**701571** 0001	36,35

4159

Tyre lever

- Profiled, die-forged
- Chrome vanadium steel, chrome-plated

Straight

Length mm	art.no.	€
300	**701535** 0300	7,45
400	701535 0400	11,35
500	701535 0500	14,65
600	701535 0600	22,40

7101

Offset version

Length mm	art.no.	€
400	**701536** 0400	28,80
500	701536 0500	29,80
600	701536 0600	38,60

7101

ATORN® Hexagonal offset screwdriver

ISO 2936 ISO 2936L

- For hexagonal socket head screws
- Hardness and torque in accordance with ISO 2936 or ISO 2936L
- Chamfered key ends
- **Material**: high-quality chrome vanadium steel (59CrMoV4), black oiled or nickel-plated

Short version, ISO 2936

Wr. width mm	Edge length mm	Offset screwdriver, black, oiled art.no.	€	Offset screwdriver, nickel-plated art.no.	€
0.7	33 x 7	**703001** 0007	0,46		
0.9	33 x 11	703001 0009	0,40		
1.3	41 x 13			**703005** 0013	0,25
1.5	46.5 x 15.5	703001 0015	0,22	703005 0015	0,30
2.0	52 x 18	703001 0020	0,22	703005 0020	0,30
2.5	58.5 x 20.5	703001 0025	0,24	703005 0025	0,32
3.0	66 x 23	703001 0030	0,29	703005 0030	0,34
3.5	69.5 x 25.5	703001 0035	0,32	703005 0035	0,40
4.0	74 x 29	703001 0040	0,36	703005 0040	0,40
4.5	80 x 30.5	703001 0045	0,50	703005 0045	0,58
5.0	85 x 33	703001 0050	0,50	703005 0050	0,53
5.5	90.5 x 35.5	703001 0055	0,65	703005 0055	0,81
6.0	96 x 38	703001 0060	0,64	703005 0060	0,65
7.0	102 x 41	703001 0070	0,85	703005 0070	0,88
		7111		7111	

Wr. width mm	Edge length mm	Offset screwdriver, black, oiled art.no.	€	Offset screwdriver, nickel-plated art.no.	€
8.0	108 x 44	703001 0080	1,02	703005 0080	1,10
9.0	114 x 47	703001 0090	1,58	703005 0090	1,63
10.0	122 x 50	703001 0100	1,61	703005 0100	1,63
11.0	129 x 53	703001 0110	1,76	703005 0110	1,89
12.0	137 x 57	703001 0120	1,97	703005 0120	2,10
14.0	154 x 70	703001 0140	3,30	703005 0140	3,52
17.0	177 x 80	703001 0170	5,90	703005 0170	6,10
19.0	199 x 89	703001 0190	8,05	703005 0190	8,40
22.0	222 x 102	703001 0220	11,30	703005 0220	11,95
24.0	248 x 114	703001 0240	16,80	703005 0240	17,60
27.0	277 x 127	703001 0270	26,80	703005 0270	28,10
30.0	315 x 142			703005 0300	39,10
32.0	347 x 157			703005 0320	50,50
36.0	391 x 176			703005 0360	72,50
		7111		7111	

Extra-long version, ISO 2936 L

Wr. width mm	Edge length mm	Black, oiled art.no.	€	Nickel-plated art.no.	€
2.0	102 x 18	**703010** 0020	0,47	**703015** 0020	0,50
2.5	114.5 x 20.5	703010 0025	0,58	703015 0025	0,61
3.0	129 x 23	703010 0030	0,62	703015 0030	0,65
4.0	144 x 29	703010 0040	0,86	703015 0040	0,88
5.0	165 x 33	703010 0050	1,03	703015 0050	1,01
6.0	186 x 38	703010 0060	1,39	703015 0060	1,31
		7111		7111	

Wr. width mm	Edge length mm	Black, oiled art.no.	€	Nickel-plated art.no.	€
8.0	208 x 44	703010 0080	2,24	703015 0080	1,79
10.0	234 x 50	703010 0100	3,96	703015 0100	2,57
12.0	262 x 57	703010 0120	5,35	703015 0120	3,20
14.0	294 x 70	703010 0140	8,45	703015 0140	4,88
17.0	337 x 80	703010 0170	13,55	703015 0170	9,25
19.0	379 x 89	703010 0190	19,80	703015 0190	11,95
		7111		7111	

703020 3017

703020 2017

703020 1009

703020 0008

703025 1008

703025 2008

Sets, ISO 2936, ISO 2936 L

ISO design	Wr. width mm	Design	Black, oiled art.no.	€	Nickel-plated art.no.	€
2936	2 / 2.5 / 3 / 4 / 5 / 6 / 8 / 10	Ring-mounted	**703020** 0008	7,90	**703025** 0008	6,–
2936	2 / 2.5 / 3 / 4 / 5 / 6 / 8 / 10	Plastic box	703020 1008	8,60	703025 1008	8,–
2936-long	2 / 2.5 / 3 / 4 / 5 / 6 / 8 / 10	Plastic box	703020 2008	16,10	703025 2008	13,25
2936	2.5 / 3 / 4 / 5 / 6 / 8 / 10 / 12 / 14	Workshop stands	703020 0009	26,10	703025 0009	22,30
2936-long	2.5 / 3 / 4 / 5 / 6 / 8 / 10 / 12 / 14	Workshop stands	703020 1009	34,90	703025 1009	26,–
2936	1.5 / 2 / 2.5 / 3 / 4 / 5 / 6	Hand-held fold-out holder, metal	703020 2007	6,20		
2936	2.5 / 3 / 4 / 5 / 6 / 8	Hand-held fold-out holder, metal	703020 2009	9,85	703025 2009	10,95
2936	2.5 / 3 / 4 / 5 / 6 / 8 / 10	Hand-held fold-out holder, metal	703020 2017	10,20		
2936	1.5 / 2 / 2.5 / 3 / 4 / 5 / 6	Hand-held fold-out holder, plastic.	703020 3007	10,35		
2936	2.5 / 3 / 4 / 5 / 6 / 8 / 10	Hand-held fold-out holder, plastic.	703020 3017	14,45		
			7111		7111	

wiha Hexagonal offset screwdriver

- **Material:** Chrome vanadium steel, through-hardened, blackened

ISO 2936K

Wr. width mm	Edge length mm	art.no.	€
1.3	41 x 13	**703028** 0013	0,24
1.5	46 x 15	703028 0015	0,24
2.0	51 x 18	703028 0020	0,24
2.5	51 x 18	703028 0025	0,25
3.0	64 x 23	703028 0030	0,32
4.0	72 x 29	703028 0040	0,41
5.0	83 x 33	703028 0050	0,55
6.0	94 x 38	703028 0060	0,73
7.0	99 x 41	703028 0070	1,–
8.0	105 x 44	703028 0080	1,24
9.0	112 x 47	703028 0090	1,64

7113

Wr. width mm	Edge length mm	art.no.	€
10.0	119 x 50	703028 0100	1,82
11.0	126 x 53	703028 0110	2,14
12.0	134 x 57	703028 0120	3,38
14.0	151 x 70	703028 0140	4,18
17.0	173 x 80	703028 0170	7,04
19.0	195 x 89	703028 0190	9,22
22.0	217 x 102	703028 0220	14,10
24.0	241 x 114	703028 0240	21,60
27.0	271 x 127	703028 0270	26,80
32.0	339 x 157	703028 0320	55,40

7113

In accordance with ISO 2936L

Wr. width mm	Edge length mm	art.no.	€
0.7	67 x 6	**703048** 0007	1,68
0.9	70 x 9	703048 0009	1,42
1.3	80 x 13	703048 0013	0,78
1.5	91 x 15	703048 0015	0,57
2.0	101 x 18	703048 0020	0,54
2.5	113 x 20	703048 0025	0,67
3.0	128 x 23	703048 0030	0,78
4.0	142 x 29	703048 0040	0,98

7113

Wr. width mm	Edge length mm	art.no.	€
5.0	163 x 33	703048 0050	1,10
6.0	184 x 38	703048 0060	1,46
7.0	194 x 41	703048 0070	1,77
8.0	206 x 44	703048 0080	2,15
10.0	231 x 50	703048 0100	3,30
12.0	259 x 57	703048 0120	5,28
14.0	291 x 70	703048 0140	7,14

7113

wiha Hexagonal offset ball-head screwdriver, long

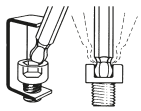
- **With ball head**, can be used for screwing at angles of up to 25°
- Chrome vanadium steel, through-hardened and burnished
- In accordance with ISO 2936L
- Especially for difficult-to-reach screws

Wr. width mm	Edge length mm	art.no.	€
1.3	74 x 14	**703070** 0013	1,04
1.5	91 x 15	703070 0015	1,04
2.0	101 x 18	703070 0020	1,04
2.5	113 x 20	703070 0025	1,06
3.0	128 x 23	703070 0030	1,10
4.0	142 x 29	703070 0040	1,51
5.0	163 x 33	703070 0050	1,69
6.0	184 x 38	703070 0060	2,16
8.0	206 x 44	703070 0080	3,63
10.0	231 x 50	703070 0100	5,03
12.0	259 x 57	703070 0120	6,58

7113

ATORN® Hexagonal offset ball-head screwdriver

- **With ball head**
- For hexagonal socket head screws
- Chamfered key ends, can be used for screwing at angles up to 30°
- **Material**: high-quality chrome vanadium steel (59CrMoV4), steel grey or nickel-plated



Short

Wr. width mm	Edge length mm	Steel grey art.no.	€	Nickel-plated art.no.	€
2.0	52 x 18	**703030** 0020	0,95	**703031** 0020	0,97
2.5	58.5 x 20.5	703030 0025	1,02	703031 0025	1,06
3.0	66 x 23	703030 0030	1,07	703031 0030	1,11
4.0	74 x 29	703030 0040	1,44	703031 0040	1,48
5.0	85 x 33	703030 0050	1,60	703031 0050	1,64
6.0	96 x 38	703030 0060	2,07	703031 0060	2,17
7.0	102 x 41	703030 0070	3,20	703031 0070	3,30
8.0	108 x 44	703030 0080	3,54	703031 0080	3,72
10.0	122 x 50	703030 0100	4,83	703031 0100	5,20
		7111		7111	

Extra-long

Wr. width mm	Edge length mm	Steel grey art.no.	€	Nickel-plated art.no.	€
1.5	91.5 x 15.5	**703033** 0015	0,68	**703034** 0015	0,92
2.0	102 x 18	703033 0020	0,68	703034 0020	0,92
2.5	114.5 x 20.5	703033 0025	0,68	703034 0025	0,99
3.0	129 x 23	703033 0030	0,75	703034 0030	1,01
4.0	144 x 29	703033 0040	0,93	703034 0040	1,47
5.0	165 x 33	703033 0050	1,16	703034 0050	1,58
6.0	186 x 38	703033 0060	1,46	703034 0060	2,05
7.0	197 x 41	703033 0070	4,53	703034 0070	4,10
8.0	208 x 44	703033 0080	2,76	703034 0080	3,15
10.0	234 x 50	703033 0100	4,42	703034 0100	4,46
12.0	262 x 57	703033 0120	7,70	703034 0120	6,30
		7111		7111	

Sets

Design	Wr. width mm	Packaging	Steel grey art.no.	€	Nickel-plated art.no.	€
Normal, 8-pcs.	2 / 2.5 / 3 / 4 / 5 / 6 / 8 / 10	Plastic box	**703035** 0008	16,30	**703036** 0008	17,90
Long, 8-pcs.	2 / 2.5 / 3 / 4 / 5 / 6 / 8 / 10	Plastic box	703035 1008	20,70	703036 1008	22,80
Long, 9-pcs.	1.5 / 2 / 2.5 / 3 / 4 / 5 / 6 / 8 / 10	Plastic clip	703035 3009	14,75	703036 3009	16,50
			7111		7111	

703036 1008

703036 0008

703036 3009

… with safety

ATORN®
High quality for great performance

ATORN® Hexagonal offset ball-head screwdriver, coloured

- Hexagonal ball head on the long end, with wear-resistant powder coating
- Chrome vanadium steel, hardened
- In a practical plastic holder, keys are easy to remove
- Individual offset screwdriver sizes available on request

Design	Wr. width mm	Packaging	art.no.	€
Long, 9-pcs.	1.5 / 2 / 2.5 / 3 / 4 / 5 / 6 / 8 / 10	Plastic clip	**703044** 0009	22,95
			7111	

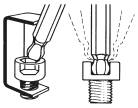
wiha Hexagonal offset screwdriver ErgoStar

- Chrome vanadium steel, through-hardened with a matt chrome-plated finish
- Space-saving holder
- Mechanical operation allows each pin wrench to be removed easily without moving the others
- **MagicRing**® in spring steel (from 3 mm size) holds any standard hex screw securely in any position - no time wasted hunting for dropped screws
- Can be used for screwing at angles of up to 25° thanks to ball head

Design	Wr. width mm	Packaging	art.no.	€
9-pcs.	1.5 / 2 / 2.5 / 3 / 4 / 5 / 6 / 8 / 10	Plastic clip	**703041** 0009	32,10
			7113	

Bondhus Hexagonal offset screwdriver (pin wrench)

- Made from protanium steel for 20 % more torque than comparable hex keys



15 pcs. set
- Extra-long gloss nickel-plated design
- Supplied with a holder in plastic packaging

Contents	Wr. width mm	art.no.	€
1 ball-head hex key in each size	1.27 / 1.5 / 2 / 2.5 / 3 / 3.5 / 4 / 4.5 / 5 / 5.5 / 6 / 7 / 8 / 9 / 10	**703036** 3015	34,75
		7112	

9 pcs. „Stubby" set
- Extra-short handle for difficult-to-reach screws
- **Angled double ball head for screws up to 15°**
- Corrosion protection: Bondhus® ProGuard™ surface protection is five times more effective than comparable coatings
- Supplied with holder in plastic packaging

703046 0009

703046 0010

Contents	Wr. width mm	art.no.	€
1 ball-head hex key in each size	1.5 / 2 / 2.5 / 3 / 4 / 5 / 6 / 8 / 10	**703046** 0009	18,95
Angled double ball head	1.5 / 2 / 2.5 / 3 / 4 / 5 / 6 / 8 / 10	703046 0010	26,95
		7112	

Bondhus ProHold™ Balldriver® hex key set

- **9 pcs. set, 1.5 - 10 mm**
- Maximum stability and fitting accuracy
- Holds screws securely
- No wear or corrosion to the head
- Corrosion protection: Bondhus®ProGuard™ surface protection is five times more effective than comparable coatings
- Non-magnetic
- No reduction in key strength
- Supplied with plastic clip in a blister pack

Contents	Wr. width mm	art.no.	€
1 Pro Hold ball-head hex key in each size	1.5 / 2 / 2.5 / 3 / 4 / 5 / 6 / 8 / 10	**703043** 0009	23,85
		7112	

ATORN® Hexagonal offset pilot-tip screwdriver (pin wrench)

DIN 6911

- **With pilot tip**
- For hexagonal socket head screws, DIN 6912
- Chamfered key ends,
- **Material**: high-quality chrome vanadium steel (59CrMoV4), nickel-plated

Individual

Wr. width mm	Edge length mm	Nickel-plated art.no.	€
3	66 x 23	**703037** 0003	0,42
4	74 x 29	703037 0004	0,48
5	85 x 33	703037 0005	0,64
6	96 x 38	703037 0006	0,86
8	108 x 44	703037 0008	1,25

7111

Wr. width mm	Edge length mm	Nickel-plated art.no.	€
10	122 x 50	703037 0010	2,07
12	137 x 57	703037 0012	3,14
14	154 x 70	703037 0014	4,69
17	177 x 80	703037 0017	7,50

7111

Set

Design	Wr. width mm	art.no.	€
5-pcs. in a plastic pouch	3 / 4 / 5 / 6 / 8	**703039** 1005	6,70

7111

ATORN® TORX® offset screwdrivers

- Strength as stipulated by the license issuer: RUIA global fasteners
- **Material**: high-quality chrome vanadium steel (59CrMoV4), steel grey

Individual

TORX	Edge length mm	Steel grey art.no.	€
T6	44.5 x 18.5	**703038** 0060	1,81
T7	50.5 x 18.5	703038 0070	1,81
T8	51 x 19	703038 0080	1,81
T9	51 x 19	703038 0090	1,61
T10	54 x 20	703038 0100	1,61
T15	57.5 x 21.5	703038 0150	1,64
T20	61 x 23	703038 0200	1,64
T25	64.5 x 24.5	703038 0250	1,64

7111

TORX	Edge length mm	Steel grey art.no.	€
T27	69.5 x 26.5	703038 0270	1,64
T30	76 x 30	703038 0300	1,76
T40	83 x 33	703038 0400	1,94
T45	91 x 37	703038 0450	2,57
T50	104 x 41	703038 0500	3,21
T55	120 x 47	703038 0550	4,43
T60	134 x 52	703038 0600	6,20

7111

703045 0008 703045 1008

Sets

Design	TORX	art.no.	€
8-pcs. on ring in hang-up bag	T9 / T10 / T15 / T20 / T25 / T27 / T30 / T40	**703045** 0008	28,10
8-pcs., plastic box	T9 / T10 / T15 / T20 / T25 / T27 / T30 / T40	703045 1008	17,20
8-pcs., hand-held fold-out holder	T9 / T10 / T15 / T20 / T25 / T27 / T30 / T40	703045 2008	17,40

7111

703045 2008

ATORN® TORX® offset ball-head screwdrivers

- **With ball head**
- Strength as stipulated by the license issuer: RUIA global fasteners
- **Material**: high-quality chrome vanadium steel (59CrMoV4), steel grey

Design	TORX	art.no.	€
8-pcs., plastic clip	T9 / T10 / T15 / T20 / T25 / T27 / T30 / T40	**703047** 1008	24,40

7111

ATORN® TORX® offset screwdrivers, coloured

- TORX®ball head on the long end, with wear-resistant powder coating
- Chrome vanadium steel, hardened
- In a practical plastic holder, keys are easy to remove
- Individual offset screwdriver sizes available on request

Design	TORX	art.no.	€
8-pcs., plastic clip	T9 / T10 / T15 / T20 / T25 / T27 / T30 / T40	**703056** 0008	28,10
		7111	

wiha TORX® offset screwdrivers ErgoStar

- Chrome vanadium steel, through-hardened, blackened
- Space-saving holder
- Mechanical operation allows each pin wrench to be removed easily without moving the others
- **MagicSpring®** retaining spring holds TORX® screws securely and reliably – no more hunting for dropped screws

TORX® offset screwdrivers ErgoStar MagicSpring®

Design	TORX	Packaging	art.no.	€
With MagicSpring®, 13-pcs.	T6 / T7 / T8 / T9 / T10 / T15 / T20 / T25 / T27 / T30 / T40 / T45	Plastic clip	**703062** 1001	54,–
			7113	

felo T-handle screwdrivers

- 2-component handle with comfortable non-slip soft covering
- Blade made from a special chrome vanadium and chrome molybdenum vanadium compound
- Matt chrome-plated finish with black tip
- Exceptional hardness and elasticity far above DIN and ISO requirements

Hex

Wr. width mm	Blade length mm	Handle width mm	art.no.	€
2.0	100	100	**706001** 0020	4,62
2.5	100	100	706001 0025	4,73
3.0	150	100	706001 0030	4,83
4.0	150	100	706001 0040	4,99
5.0	150	100	706001 0050	5,15
6.0	150	100	706001 0060	5,40
8.0	200	100	706001 0080	6,85
10.0	200	100	706001 0100	8,05
			7112	

Hexagonal socket tool

Wr. width mm	Blade length mm	Handle width mm	art.no.	€
6.0	230	100	**706005** 0060	9,50
8.0	230	100	706005 0080	9,75
10.0	230	100	706005 0100	10,15
12.0	230	100	706005 0120	10,90
13.0	230	100	706005 0130	11,85
			7112	

TORX®

TORX	Blade length mm	Handle width mm	art.no.	€
T10	125	100	**706010** 0010	6,60
T15	125	100	706010 0015	6,70
T20	125	100	706010 0020	5,85
T25	125	100	706010 0025	5,85
T27	200	100	706010 0027	7,15
T30	200	100	706010 0030	8,20
			7112	

ATORN® T-handle screwdrivers

T-handle hexagonal screwdriver

- Straight, with ergonomic T-handle
- Through-hardened blade
- Front edges rounded, gloss nickel-plated
- **Material**: high-quality chrome vanadium steel

Wr. width mm	Blade length mm	art.no.	€
2.0	100	**703060** 0020	2,55
2.5	100	703060 0025	2,55
3.0	100	703060 0030	2,40
3.0	150	703060 0130	2,60
3.0	200	703060 0230	2,91
4.0	100	703060 0040	2,45
4.0	150	703060 0140	2,70
4.0	200	703060 0240	2,96
5.0	100	703060 0050	2,75
5.0	150	703060 0150	2,91
5.0	200	703060 0250	3,37
6.0	100	703060 0060	3,21
6.0	150	703060 0160	3,26
6.0	200	703060 0260	3,57
8.0	100	703060 0080	3,67
8.0	150	703060 0180	4,03
8.0	200	703060 0280	4,23
10.0	100	703060 0100	6,30
10.0	200	703060 2100	7,75

7111

TORX® T-handle screwdrivers

- Handle made from shock-proof ABS terpolymer
- Chrome-plated blade with black tip
- Strength as stipulated by the license issuer: RUIA global fasteners
- Material: high-quality chrome vanadium steel (59CrMoV4)

TORX	Total length mm	Blade length mm	TORX wrench art.no.	€
T8	125	100	**703040** 0080	4,41
T9	125	100	703040 0090	4,73
T10	125	100	703040 0100	4,78
T15	125	100	703040 0150	4,78
T15	225	200	703040 1150	5,80
T20	132	100	703040 0200	5,45
T20	232	200	703040 1200	6,40
T25	132	100	703040 0250	5,45
T25	232	200	703040 1250	6,85
T27	132	100	703040 0270	5,65
T27	232	200	703040 1270	7,50
T30	132	100	703040 0300	5,65
T30	232	200	703040 1300	7,90
T40	132	100	703040 0400	6,10
T40	232	200	703040 1400	8,60
T45	189	150	703040 0450	9,05
T45	289	250	703040 1450	11,10
T50	189	150	703040 0500	10,50
T50	289	250	703040 1500	13,–

7111

7 pcs. set

Contents	art.no.	€
2 x 100 mm - 2.5 x 100 mm - 3 x 100 mm - 4 x 150 mm - 5 x 150 mm - 6 x 200 mm - 8 x 200 mm	**703061** 0007	19,95

7111

wiha TORX® flag-handle screwdrivers

- **Material:** high-quality chrome vanadium steel, through-hardened, blackened
- For high torques on small screw dimensions, especially when changing indexable cutting inserts on measuring heads

Individual

TORX	Total length mm	Blade length mm	art.no.	€
T6	62	35	**703042** 0060	3,32
T7	67	35	703042 0070	3,32
T8	72	40	703042 0080	3,32
T9	74	40	703042 0090	3,63
T10	74	40	703042 0100	3,75
T15	80	45	703042 0150	3,88
T20	80	45	703042 0200	4,24

7113

Set, 7 pcs. in a small workbench stand

Contents	art.no.	€
T6 / T7 / T8 / T9 / T10 / T15 / T20	**703042** 0001	31,40

7113

BONDHUS TORX® and TORX PLUS® wing-handle screwdrivers

- 2-component handle
- Oil-free surface for a secure grip
- Resistant to alkaline solutions
- **Material:** Tool steel

TORX®

TORX	art.no.	€
T6	**703051** 0060	3,25
T7	703051 0070	3,25
T8	703051 0080	3,25
T9	703051 0090	3,25
7113		

TORX	art.no.	€
T10	703051 0100	3,25
T15	703051 0150	3,25
T20	703051 0200	3,25
7113		

TORX® Set, 7 pcs. in a small workbench stand

Contents	art.no.	€
T6 / T7 / T8 / T9 / T10 / T15 / T20	**703051** 0001	26,–
	7113	

TORX PLUS®

TORX plus	art.no.	€
6IP	**703052** 0060	3,48
7IP	703052 0070	3,48
8IP	703052 0080	3,48
9IP	703052 0090	3,90
7113		

TORX plus	art.no.	€
10IP	703052 0100	3,90
15IP	703052 0150	4,10
20IP	703052 0200	4,52
7113		

TORX PLUS® Set, 7 pcs. in a small workbench stand

Contents	art.no.	€
6IP / 7IP / 8IP / 9IP / 10IP / 15IP / 20IP	**703052** 0001	29,95
	7113	

ATORN® TORX® and TORX PLUS® flag-handle screwdrivers

- **Material:** high-quality molybdenum vanadium steel

TORX®

Wr. width mm	Total length mm	Blade length mm	TORX art.no.	€
T5	67	33	**703053** 0050	3,09
T6	67	33	703053 0060	3,09
T7	67	33	703053 0070	3,09
T8	67	33	703053 0080	3,15
7114				

Wr. width mm	Total length mm	Blade length mm	TORX art.no.	€
T9	74	37	703053 0090	3,15
T10	74	37	703053 0100	3,30
T15	80	43	703053 0150	3,35
T20	80	43	703053 0200	3,40
7114				

TORX® Set, 7 pcs. in a small workbench stand

Contents	art.no.	€
T6 / T7 / T8 / T9 / T10 / T15 / T20	**703053** 0001	21,10
	7114	

TORX PLUS®

Wr. width mm	Total length mm	Blade length mm	TORX-plus art.no.	€
5IP	67	33	**703054** 0050	4,30
6IP	67	33	703054 0060	4,30
7IP	67	33	703054 0070	4,30
8IP	67	33	703054 0080	4,30
7114				

Wr. width mm	Total length mm	Blade length mm	TORX-plus art.no.	€
9IP	74	37	703054 0090	4,55
10IP	74	37	703054 0100	4,55
15IP	80	43	703054 0150	5,–
20IP	80	43	703054 0200	5,75
7114				

TORX PLUS® Set, 7 pcs. in a small workbench stand

Contents	art.no.	€
6IP / 7IP / 8IP / 9IP / 10IP / 15IP / 20IP	**703054** 0001	30,80
	7114	

ATORN® Screwdrivers

DIN 5265 D | DIN 5262 D

- With 2-component heavy-duty handle, steel blue and black, with extra-large soft zone
- Blade made from through-hardened chrome vanadium molybdenum steel, matt chrome-plated finish
- With black tip

Slot

- DIN 5265 D
- Hexagonal bolster for models over 5.5 mm

Cutting edge width mm	Blade length mm	art.no.	€
3.5	75	**705138** 0035	3,71
4.5	90	705138 0045	4,33
5.5	100	705138 0055	5,75
6.5	125	705138 0065	6,80
8.0	150	705138 0080	8,65
10.0	175	705138 0100	10,10
12.0	200	705138 0120	12,75

7114

PH Phillips recess

- DIN 5262 D

PH	Blade length mm	art.no.	€
PH1	80	**705139** 0001	4,84
PH2	100	705139 0002	5,95
PH3	150	705139 0003	8,05

7114

PZ Pozidriv-Supadriv

- DIN 5262 D

PZ	Blade length mm	art.no.	€
PZ1	80	**705140** 0001	5,10
PZ2	100	705140 0002	6,20
PZ3	150	705140 0003	8,65

7114

Security TORX®

- Security version from T10

TORX	Blade length mm	Wrench art.no.	€
T6	60	**705141** 0006	4,95
T7	60	705141 0007	5,10
T8	60	705141 0008	5,35
T9	60	705141 0009	5,55
TR10	100	705141 0010	5,55
TR15	100	705141 0015	5,75
TR20	100	705141 0020	5,95
TR25	100	705141 0025	6,15
TR27	100	705141 0027	6,35
TR30	115	705141 0030	6,80
TR40	125	705141 0040	6,95

7114

Sets

705143 0005

Contents	Slot mm	PH	PZ	TORX	Six-edged mm	art.no.	€
6-pcs.	3.5 / 4.5 / 5.5 / 6.5 / 8.0 / 10.0	-	-	-	-	**705143** 0001	34,50
3-pcs.	-	PH1 / PH2 / PH3	-	-	-	705143 0002	18,70
3-pcs.	-	-	PZ1 / PZ2 / PZ3	-	-	705143 0003	19,50
6-pcs.	4.5 / 5.5 / 6.5 / 8.0	PH1 / PH2	-	-	-	705143 0004	32,10
8-pcs.	5.5 / 6.5 / 8.0	PH1 / PH2 / PH3	PZ1 / PZ2	-	-	705143 0005	44,–
3-pcs.	-	-	-	TR10 / TR15 / TR20	-	705143 0006	17,50
5-pcs.	-	-	-	T6 / T7 / T8 / T9 / TR10	-	705143 0007	25,90
5-pcs.	-	-	-	TR10 / TR15 / TR20 / TR25 / TR30	-	705143 0008	30,40
7-pcs.	-	-	-	T8 / T9 / TR10 / TR15 / TR20 / TR25 / TR30	-	705143 0009	40,30

7114

felo Screwdrivers

DIN 5260 DIN 5261

- Blade made from chrome molybdenum vanadium steel
- Matt chrome-plated with black tip
- Ergonomic handle made from shock-proof polypropylene
- Handle with slip protection and hanging or lever-insertion hole

Slot

- DIN 5260

Slot mm	Blade width mm	Blade length mm	Total length mm	art.no.	€
2.5 x 0.4	2.5	75	155	**705101** 0025	2,47
3.0 x 0.5	3	80	160	705101 0030	2,73
3.5 x 0.6	3.5	100	180	705101 0035	3,15
4.0 x 0.8	4	100	190	705101 0040	3,37
5.0 x 0.8	5	125	215	705101 0050	3,78
5.5 x 1.0	5	125	223	705101 0055	4,89
6.5 x 1.2	6	125	223	705101 0065	4,99
8.0 x 1.2	7	175	280	705101 0080	6,95
10.0 x 1.6	8	200	305	705101 0100	9,85

7112

PH Phillips

- DIN 5261

PH	Blade width mm	Blade length mm	Total length mm	art.no.	€
PH0	3	60	140	**705104** 0010	3,–
PH1	4.5	80	170	705104 0011	3,68
PH2	6	100	198	705104 0012	5,41
PH3	8	150	255	705104 0013	7,55

7112

PZ Pozidriv

- DIN 5260

PZ	Blade width mm	Blade length mm	Total length mm	art.no.	€
PZ0	3	60	140	**705103** 0010	3,–
PZ1	4.5	80	170	705103 0011	3,68
PZ2	6	100	198	705103 0012	5,40
PZ3	8	150	255	705103 0013	7,55

7112

TORX®

- DIN 5261

TORX	Blade width mm	Blade length mm	Total length mm	TORX wrench art.no.	€
T6	3	60	140	**705105** 0006	5,20
T7	3	60	140	705105 0007	4,94
T8	3.5	60	140	705105 0008	4,94
T9	3.5	60	140	705105 0009	4,94
T10	3.5	100	190	705105 0010	5,30
T15	4	100	190	705105 0015	5,30
T20	5	100	198	705105 0020	5,60
T25	5	100	198	705105 0025	5,60
T27	5	100	198	705105 0027	5,65
T30	6	115	220	705105 0030	6,50
T40	8	125	230	705105 0040	7,65

7112

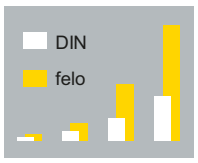
Sets, flat head and PH Phillips

Contents	Slot mm	PH	art.no.	€
5-pcs.	3.5 / 4.0 / 5.5	PH1x80 / PH2x100	**705106** 0005	21,40
7-pcs.	3.5 / 4.0 / 5.5 / 6.5 / 8.0	PH1 / PH2	705106 0007	33,60

7112

felo Screwdrivers ERGONIC

- Blade made from chrome molybdenum vanadium steel, matt chrome-plated with black tip
- Ergonomic 3-component handle
- **The first handle that adjusts to fit your hand!**
- Handle core encased in a hard-wearing, resilient body, with recess-mounted padding made from flexible plastic
- Hand and handle interlock, reducing the force required
- The material's flexibility results in greater sensitivity thus enabling force to be applied with precision
- Optimum performance data, up to 100 % higher than DIN requirements
- Handle core made from **shock-proof** hard plastic
- Hexagonal blade with bolster for slotted, PH and PZ screw heads
- Round blade for TORX® and for flat head, PH, PZ and Torx on request® security Torx on request
- EAN code on every tool
- Screw symbols on the top of the handle



TÜVRheinland ZERTIFIZIERT

GS geprüfte Sicherheit

Slot

Slot mm	Blade width mm	Blade length mm	Total length mm	art.no.	€
4.0 x 0.8	4	75	165	**705121** 0040	6,85
5.5 x 1.0	5	100	199	705121 0055	7,60
6.5 x 1.2	6	125	225	705121 0065	9,55
8.0 x 1.2	8	150	255	705121 0080	12,85
10.0 x 1.6	10	175	280	705121 0100	14,70
12.0 x 2.0	10	200	305	705121 0120	16,60

7112

PH Phillips

PH	Blade width mm	Blade length mm	Total length mm	art.no.	€
PH1	5	80	174	**705124** 0011	7,65
PH2	6.35	100	206	705124 0012	9,85
PH3	8	150	262	705124 0013	13,20

7112

PZ Pozidriv

PZ	Blade width mm	Blade length mm	Total length mm	art.no.	€
PZ1	5	80	174	**705127** 0011	7,65
PZ2	6.35	100	206	705127 0012	9,85
PZ3	8	150	262	705127 0013	13,20

7112

TORX®

TORX	Blade width mm	Blade length mm	Total length mm	art.no.	€
T7	3	60	146	**705128** 0007	7,–
T8	3	60	146	705128 0008	7,–
T9	3.5	60	146	705128 0009	7,–
T10	3.5	100	186	705128 0010	7,80
T15	4	100	194	705128 0015	7,80
T20	4	100	201	705128 0020	8,75
T25	5	100	206	705128 0025	8,75
T27	5	100	206	705128 0027	8,75
T30	6	115	227	705128 0030	10,85
T40	8	125	237	705128 0040	11,55

7112

Sets

Contents	Slot mm	PH	TORX	art.no.	€
6-pcs.	3.0 / 4.0 / 5.5 / 6.5	PH1 / PH2		**705129** 0006	43,10
6-pcs.			T8 / T9 / T10 / T15 / T20 / T25	705129 1006	44,90

7112

wiha TORX PLUS® screwdrivers

- Round blade, high-quality chrome vanadium molybdenum steel, through-hardened with a matt chrome-plated finish
- Ergonomic multi-component handle with slip protection
- Wiha ChromTop® Blade tip guarantees maximum dimensional stability
- Reinforced profile cross-section of TORX PLUS - drive transmits a torque approx. 25% higher than a TORX profile

TORX plus	Total length mm	Blade length mm	**TORX plus** art.no.	€
6IP	164	60	**705145** 0006	5,82
7IP	164	60	705145 0007	5,82
8IP	164	60	705145 0008	5,82
9IP	171	60	705145 0009	6,23
10IP	191	80	705145 0010	6,40
15IP	191	80	705145 0015	6,65
			7113	

TORX plus	Total length mm	Blade length mm	**TORX plus** art.no.	€
20IP	218	100	705145 0020	7,06
25IP	218	100	705145 0025	7,32
27IP	233	115	705145 0027	7,70
30IP	233	115	705145 0030	8,24
40IP	254	130	705145 0040	8,70
			7113	

felo Screwdriver set Smart

- 13 pcs. replaceable blade set
- Patented ergonomic 2K handle, screwdriver and T-handle in one
- Can be combined to create a total of 72 different fastening tools for screws and nuts (24 screwdrivers, 24 T-handles, 24 bits)
- Blades made from chrome molybdenum vanadium steel
- Suitable for the entire 1/4 inch standard range
- In a sturdy and secure StrongBox

Contents	Slot mm	PH	PZ	Interior hexagon mm	TORX	art.no.	€
1 handle; 12 twin blades (1/4")	0,6 0,8 1,0 1,2	PH1 PH2 PH3	PZ1 PZ2 PZ3	3 4 5 6	T6 T7 T8 T9 T10 T15 T20 T25 T30 T40	**702106** 0013	84,50
						7112	

felo Interchangeable precision screwdriver set

- Ergonomically perfected 2-component handle with easily rotatable cap
- Interchangeable blades with hexagonal shank
- Plastic box

Contents	Slot mm	PH	PZ	art.no.	€
7-pcs.; incl. 102 x 19 mm handle	1.5 / 3.0 - 2.0 / 3.5 - 2.5 / 4.0	PH1 / PH0 - PH00 / PH000	PZ1 - PZ0	**705002** 0007	43,75
				7112	

ATORN® VDE screwdriver

DIN 7437 DIN 7438

- With 2-component heavy-duty handle, red and yellow
- Blade made from hardened and burnished chrome vanadium molybdenum steel
- Protective insulation sprayed directly onto the blade

Slot

- DIN 7437

Cutting edge width mm	Blade length mm	art.no.	€
2.5	75	**705170** 0025	3,50
3.0	100	705170 0030	3,55
3.5	100	705170 0035	3,81
4.0	100	705170 0040	4,74
5.5	125	705170 0055	6,20
6.5	150	705170 0065	6,80
8.0	175	705170 0080	8,25
10.0	200	705170 0100	10,10

7114

PH Phillips

- DIN 7438

PH	Blade length mm	art.no.	€
0	60	**705171** 0000	4,38
1	80	705171 0001	5,05
2	100	705171 0002	6,40
3	150	705171 0003	8,05

7114

PZ Pozidriv-Supadriv

- DIN 7438

PZ	Blade length mm	art.no.	€
0	60	**705172** 0000	4,89
1	80	705172 0001	5,75
2	100	705172 0002	7,–
3	150	705172 0003	9,25

7114

Set

Contents	Slot mm	PH	PZ	art.no.	€
3-pcs.	-	PH1 - PH2 - PH3	-	**705173** 0001	15,90
3-pcs.	-	-	PZ1 - PZ2 - PZ3	705173 0002	21,20
5-pcs.	2.5 - 4.0 - 5.5 - 6.5 - 8.0	-	-	705173 0003	25,30
6-pcs.	2.5 - 3.5 - 4.0 - 5.5	PH1 - PH2	-	705173 0004	26,60
7-pcs. incl. voltage tester	2.5 - 4.0 - 5.5 - 6.5	PH1 - PH2	-	705173 0005	31,70

7114

felo VDE voltage tester

- 150 - 250 V testing range
- VDE 0680

Slot mm	Blade length mm	art.no.	€
3.0	140	**705565** 3014	2,05
3.5	187	705565 3519	2,73

7112

wiha SoftFinish® VDE screwdriver

DIN ISO 2380 | DIN ISO 8764

- VDE screwdriver with 1,000 V AC protective insulation, GS-tested
- Individually tested underwater at 10,000 V, manufactured in accordance with IEC 60900:2012
- Protective insulation sprayed directly onto the blade
- Ergonomic SoftFinish®handle for quick and easy work
- High-quality chrome vanadium steel, through-hardened and burnished

Slot

- DIN ISO 2380

Slot mm	Thickness mm	Blade length mm	art.no.	€
2.5	0.4	75	**705157** 0025	4,98
3.0	0.5	100	705157 0030	4,98
3.5	0.6	100	705157 0035	5,16
4.0	0.8	100	705157 0040	6,36
4.5	1.0	125	705157 0045	7,15
5.5	1.0	125	705157 0055	8,02
6.5	1.2	150	705157 0065	9,14
8.0	1.2	175	705157 0080	10,65

7113

PH Phillips

- DIN ISO 8764

PH	Blade length mm	art.no.	€
0	60	**705158** 0000	5,86
1	80	705158 0010	7,02
2	100	705158 0020	8,57
3	150	705158 0030	10,65

7113

PZ Pozidriv

- DIN ISO 8764

PZ	Blade length mm	art.no.	€
1	80	**705159** 0010	7,65
2	100	705159 0020	9,31
3	150	705159 0030	12,20

7113

Set

Contents	Slot mm	PH	art.no.	€
6-pcs.	2.5 - 3.5 - 4.5 - 5.5	PH1 - PH2	**705160** 0006	33,90

7113

wiha slimVario VDE screwdriver set

- Wiha SoftFinish® multi-component electrical handle with slip protection
- ClickFix quick-release holder keeps bits securely locked
- Bits made from high-quality chrome vanadium steel, through-hardened and burnished
- Protective insulation individually tested at 1,000 V AC, VDE and GS-tested
- Easy access to deep-set screw connections
- Clearly arranged in a high-quality and hard-wearing pouch
- Incl. SoftFinish® 110 - 250 V voltage tester

Contents	Slot mm	PH	PZ	TORX	art.no.	€
16-pcs.; 1x slimVario holder; 1x voltage tester	2.5 / 3 / 4 / 5.5	PH1 / PH2	PZ1 / PZ2 / SL/PZ1 / SL/PZ2	T10 / T15 / T20 / T25	**705162** 0016	65,50

7113

wiha Magnetiser

- For magnetising and de-magnetising blades and similar steel tools
- Tools should be demagnetised before starting work on electronic components.

B mm	H mm	T mm	art.no.	€
52	50	29	**705566** 0052	8,23
			7113	

felo VDE screwdriver set E-smart

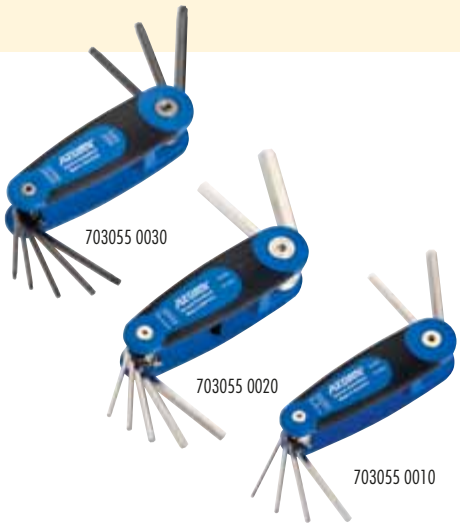
- 12 replaceable blades and two-component handle
- Locking mechanism ensures blades are securely held
- Snap-on twist cap and soft-grip zone
- **Safety tool in accordance with DIN EN 60900 all parts individually tested at 10,000 V**
- Sturdy, non-slip strongbox

Can be used as a screwdriver or fine tool!

Contents	Slot mm	PH	PZ	TORX	art.no.	€
1 handle; 1 twist cap; 12 blades	2.5 / 3.0 / 3.5 / 4.0 / 5.5 / 6.5	PH1 / PH2	PZ2	T10 / T15 / T20	**705169** 0014	67,10
					7112	

ATORN® Screwdrivers in a hand-held fold-out holder

- 2-component hand-held fold-out holder with lifting device
- Keys made from hardened chrome vanadium steel



Contents	Six-edged mm	TORX		art.no.	€
7-pcs., nickel-plated	1.5 - 2 - 2.5 - 3 - 4 - 5 - 6	-		**703055** 0010	13,25
7-pcs., nickel-plated	2.5 - 3 - 4 - 5 - 6 - 8 - 10	-		703055 0020	13,65
8-pcs.; steel grey	-	T9 - T10 - T15 - T20 - T25 - T27 - T30 - T40		703055 0030	20,40
				7111	

Switch cabinet key

- Various key sizes
- Incl. square venting key
- **Material:** Die-cast zinc

701533 9060

701533 7272

Interior quadratic mm	External quadratic mm	Interior triangle mm	Lever lock mm	Double-bit slot/PH	Plastic adapter	art.no.	€
6 / 7 - 8	-	9	3 - 5	1x7 / PH 2	1/4"	**701533** 7272	18,30
6 - 7 / 7 - 8	6 - 9	9	-	1x7 / PH 2	1/4"	701533 9060	14,40
						7101	

felo Bit holder

Extra-strong hold

feloStar automatic holder
- **Genuine one-handed operation**
- Holds bit and screw securely
- Adjusts automatically to the depth of the screw head
- For 6.35 mm (1/4 inch) screwdriver bits
- Extra-strong neodymium ring magnet to hold screws securely

suitable for	Total length mm	art.no.	€
Type C 6.3 and E 6.3 bits	70	**702553** 0104	18,95
		7106	

Magnetic holder
- **For machine holding fixtures**
- Stainless steel sleeve, for 6.35 mm (1/4 inch) screwdriver bits

702550 0104

702550 1104

suitable for	Total length mm	art.no.	€
Type C 6.3 and E 6.3 bits	58	**702550** 0104	3,42
Type C 6.3 and E 6.3 bits	74	702550 1104	5,55
		7106	

wiha CentroFix SuperSlim bit holder

- Robust stainless steel operating sleeve
- For bits in accordance with DIN 3126, ISO 1173 type C6.3 and E6.3
- Drive: DIN 3126, ISO 1173 type E6.3
- Packaging: Plastic box, reusable and dust-proof
- SelfLock - bit is automatically locked on insertion
- EasyOut - simple bit removal with ejector function
- With neodymium magnet

suitable for	Length mm	art.no.	€
Bits DIN 3126, ISO 1173 Form C 6.3 and E 6.3	66	**702554** 0104	12,05
		7106	

felo Bit holder screwdriver

- **With magnet**
- For 6.35 mm (1/4 inch) screwdriver bits
- Ergonomic 2-component handle

702540 0104

702540 1104

Design	Total length mm	art.no.	€
Standard	199	**702540** 0104	10,45
VDE	204	702540 1104	11,15
		7106	

Safety in the workplace

Please protect your eyes, ears and respiratory system!

wiha 26one magazine bit holder

- Blade made of high-quality chrome vanadium steel, through-hardened
- Ergonomic Wiha SoftFinish multi-component handle with slip protection
- Bit holder made of stainless steel, with strong neodymium permanent magnets
- Drive: DIN 3126, ISO 1173, Form D 6.3
- **Compact 26-bit storage inside the handle**

Alternative to screwdriver sets! 90% less volume, 85% less weight, 100% efficiency

Slot mm	PH	PZ	TORX	Interior hexagon mm	Interior quadratic (Robertson)	art.no.	€
4 6	PH0 PH1 PH2 PH3	PZ1 PZ2	T10 T15 T20 T25 T27 T30	Wr. width 3 Wr. width 4 Wr. width 5 Wr. width 6 Wr. width 3/32″ Wr. width 7/64″ Wr. width 1/8″ Wr. width 9/64″ Wr. width 5/32″ Wr. width 3/16″	1 2	**702644** 0001	49,40
						7110	

wiha LiftUp 25 magazine bit holder

- Blade made from high-quality chrome vanadium steel, through-hardened
- Ergonomic Wiha SoftFinish multi-component handle with slip protection
- Bit holding fixture made from stainless steel, with strong neodymium permanent magnets
- Output: DIN 3126, ISO 1173 type D6.3
- For 25 mm standard bits
- Compact 12-bit storage inside the handle

The alternative to screwdriver sets!

Contents	Slot mm	PH	PZ	TORX	art.no.	€
13-pcs.	4.5 6.5	PH1 PH2 PH3	PZ PZ2 PZ3	T15 T20 T25 T30	**702544** 0001	28,15
13-pcs.	-	PH1 PH2 PH3	PZ1 PZ2 PZ3	T10 T15 T20 T25 T30 T40	702544 0002	27,95
					7110	

... and optimum service life

ATORN®
High quality for great performance

wiha Screwdriver bits, C6.3

DIN 3126 | ISO 1173

- **Type C6.3** hexagonal connector, 6.35 mm (1/4 inch)
- **Standard bit:** Chrome vanadium steel, through-hardened
  Torsion bit: Chrome vanadium steel, through-hardened, tough, torsion zone for protection against torque peaks, particularly suitable for hard screw joints
- Unit prices when purchased in PU

Slot

Slot mm	Total length mm		Standard bit art.no.	€		Torsion bit art.no.	€
0.6 x 4.5	25	10	**702501** 0045	0,89	5	**702503** 0645	1,15
0.8 x 5.5	25	10	702501 0055	0,89	5	702503 0855	1,15
			7106			7106	

Slot mm	Total length mm		Standard bit art.no.	€		Torsion bit art.no.	€
1.2 x 6.5	25	10	702501 0065	0,89	5	702503 1265	1,15
1.6 x 8.0	25	10	702501 0180	0,89			
			7106			7106	

Cross head (PHILLIPS), short

PH	Total length mm		Standard bit art.no.	€		Torsion bit art.no.	€
PH 1	25	10	**702505** 0001	0,49	5	**702507** 0001	0,77
PH 2	25	10	702505 0002	0,49	5	702507 0002	0,77
PH 3	25	10	702505 0003	0,49	5	702507 0003	0,77
			7106			7106	

Cross head (PHILLIPS), long

PH	Total length mm		Torsion bit art.no.	€
PH 1	50	10	**702527** 0001	1,86
PH 2	50	10	702527 0002	1,86
PH 3	50	10	702527 0003	1,86
			7106	

POZIDRIV, short

PZ	Total length mm		Standard bit art.no.	€		Torsion bit art.no.	€
PZ 1	25	10	**702510** 0001	0,49	5	**702512** 0001	0,77
PZ 2	25	10	702510 0002	0,49	5	702512 0002	0,77
PZ 3	25	10	702510 0003	0,49	5	702512 0003	0,77
			7106			7106	

POZIDRIV, long

PZ	Total length mm		Torsion bit art.no.	€
PZ 1	50	10	**702515** 0001	1,86
PZ 2	50	10	702515 0002	1,86
PZ 3	50	10	702515 0003	1,86
			7106	

TORX

TORX	Total length mm		Standard bit art.no.	€		Torsion bit art.no.	€
T6	25	10	**702520** 0006	0,79			
T7	25	10	702520 0007	0,79			
T8	25	10	702520 0008	0,79			
T9	25	10	702520 0009	0,79			
T10	25	10	702520 0010	0,77	10	**702522** 0010	1,24
T15	25	10	702520 0015	0,77	10	702522 0015	1,24
T20	25	10	702520 0020	0,77	10	702522 0020	1,24
T25	25	10	702520 0025	0,77	10	702522 0025	1,24
T27	25	10	702520 0027	0,77	10	702522 0027	1,24
T30	25	10	702520 0030	0,77	10	702522 0030	1,24
T40	25	10	702520 0040	0,77	10	702522 0040	1,24
			7106			7106	

Hex

Interior hexagon mm	Total length mm		Standard bit art.no.	€
1.5	25	10	**702515** 0015	1,84
2.0	25	10	702515 0020	1,84
2.5	25	10	702515 0025	1,84
3.0	25	10	702515 0030	1,84
4.0	25	10	702515 0040	1,84
5.0	25	10	702515 0050	1,84
6.0	25	10	702515 0060	1,84
8.0	30	10	702515 0080	2,28
10.0	30	10	702515 0100	2,40
			7106	

Security TORX

TORX	Total length mm		Standard bit art.no.	€
TR10	25	10	**702516** 0010	2,03
TR15	25	10	702516 0015	2,03
TR20	25	10	702516 0020	2,03
TR25	25	10	702516 0025	2,03
			7106	

TORX	Total length mm		Standard bit art.no.	€
TR27	25	10	702516 0027	2,03
TR30	25	10	702516 0030	2,03
TR40	25	10	702516 0040	2,03
			7106	

wiha Screwdriver bits, E 6.3

DIN 3126 | ISO 1173

- **Type E6.3** hexagonal connector, 6.35 mm (1/4 inch)
- **Standard bit:** Chrome vanadium steel, through-hardened
- Unit prices when purchased in PU

Slot

Slot mm	Total length mm		Professional bit art.no.	€
0.5 x 3.0	50	10	**702601** 0530	2,84
0.6 x 3.5	50	10	702601 0635	2,84
0.8 x 4.0	50	10	702601 0840	2,84
1.0 x 5.5	50	10	702601 1050	2,84
1.2 x 6.5	50	10	702601 1265	2,84

7106

Hex

Interior hexagon mm	Total length mm		Professional bit art.no.	€
3.0	50	10	**702620** 5003	2,68
4.0	50	10	702620 5004	2,68
5.0	50	10	702620 5005	2,68
6.0	50	10	702620 5006	2,68
8.0	50	10	702620 5008	4,64

7106

TORX

TORX	Total length mm		Professional bit art.no.	€
T10	50	10	**702615** 5010	2,84
T15	50	10	702615 5015	2,84
T20	50	10	702615 5020	2,84
T25	50	10	702615 5025	2,84
T27	50	10	702615 5027	2,84
T30	50	10	702615 5030	2,84
T40	50	10	702615 5040	2,84

7106

Cross head (PHILLIPS)

PH	Total length mm		Professional bit art.no.	€
PH 1	70	10	**702605** 5001	3,32
PH 2	70	10	702605 5002	3,32
PH 3	70	10	702605 5003	3,32

7106

POZIDRIV + SUPADRIV

PZ	Total length mm		Professional bit art.no.	€
PZ 1	70	10	**702610** 5001	3,32
PZ 2	70	10	702610 5002	3,32
PZ 3	70	10	702610 5003	3,32

7106

ATORN® Bit range

Bit box with premium bit holder and handle

Contents	Interior hexagon mm	Slot mm	PH	PZ	TORX	art.no.	€
32-pcs., 1 handle with 1/4" mount; 1 CentroFix premium bit holder	1x4.0 1x5.0 1x6.0	1x4.5 1x5.5 1x6.5	1xPH1 5xPH3	2xPZ1 5xPZ2 2xPZ3	1xT10 / 1xT15 / 1xT20 / 1xT25 / 1xT30 / 1xT40	**702565** 0032	41,40
32-pcs., 1 handle with 1/4" mount; 1 CentroFix premium bit holder	-	-	2xPH1 5xPH2 2xPH3	2xPZ1 5xPZ2 2xPZ3	2xT10 / 2xT15 / 2xT20 / 2xT25 / 2xT30 / 2xT40	702565 1032	42,20

7106

Bit box with premium bit holder

Contents	Interior hexagon mm	Slot mm	PH	PZ	TORX	art.no.	€
61-pcs. 1 CentroFix premium bit holder	2x3.0 2x4.0 2x5.0 2x6.0	1x4.5 1x5.5 1x6.5 1x8.0	4xPH1 10xPH2 4xPH3	4xPZ1 10xPZ2 4xPZ3	2xT10 / 2xT15 / 2xT20 / 2xT25 / 2xT30 / 2xT40	**702566** 0061	54,50

7106

Bit box with bit holder

Contents	Interior hexagon mm	Slot mm	PH	PZ	TORX	art.no.	€
17-pcs. 1 bit holder	1x3.0 1x4.0 1x5.0	1x4.5 1x6.5	1xPH1 1xPH2 1xPH3	1xPZ1 1xPZ2 1xPZ3	1xT10 / 1xT15 / 1xT20 / 1xT25 / 1xT30	**702567** 0017	18,10
17-pcs. 1 bit holder			1xPH1 2xPH2 1xPH3	1xPZ1 2xPZ2 1xPZ3	1xT10 / 1xT15 / 2xT20 / 2xT25 / 1xT30 / 1xT40	702567 1017	16,90

7106

Bit holder

Description	art.no.	€
CentroFix bit holder, 1/4" x 60 mm, for C and E 6.3 drives	**702568** 0001	15,40
Quick release holder, 1/4" x 60 mm, for C 6.3 drive	702568 0002	4,84
Magnetic bit holder screwdriver, 1/4" x 125 mm, magnetic for C 6.3 drive	702568 0003	12,75
Bit holder screwdriver, 1/4" mount for interchangeable holder	702568 0004	10,90

7106

702568 0001

702568 0003

702568 0004

wiha FlipSelector bit sets

- Box made from shock-proof fibreglass-reinforced polyamide – durably rugged
- Bit clamping element can be swivelled 180°
- Extra folding section for magnetic bit holder
- 1/4 inch universal holder, magnetic, type E6.3
- Simply slide the Wiha logo down, and the bits are ready to remove
- Always to hand - fits easily in a trouser pocket or belt clip (see **BitBuddy** accessories)

Contents	Slot mm	PH	PZ	TORX	art.no.	€
13-piece incl. 1 bit holder	5.5	PH1 3xPH2 PH3	PZ1 4xPZ2 PZ3	-	**702572** 0001	15,90
13-piece incl. 1 bit holder	-	-	-	T7 T8 T9 T10 2xT15 2xT20 2xT25 T30 T40	702572 0002	19,70
13-piece incl. 1 bit holder	-	2xPH2	PZ1 2xPZ2 PZ3	T10 T15 T20 T25 T30 T40	702572 0003	17,80

7106

702572 0003

wiha BitBuddy torsion bit sets

- Box made from shock-proof fibreglass-reinforced polyamide – durably robust
- Ideal for frequently changing screw applications within a single trade
- Always to hand - fits easily in a trouser pocket or belt clip
- Individually tailored to the profile, max. long torsion zone
- Precision-milled profile for a perfect fit and maximum power

Magnetic

MaxxTor bits with a length of 29 mm

- At least 30 % more torsion and twice the lifespan of the best T25 x 29 high-performance impact bits available on the market
- Up to 3x longer life than commercially available standard bits

Contents	Six-edged mm	PH	TORX	PZ	art.no.	€
8-pcs. incl. 1 bit holder	2x3.0 2x4.0 2x5.0 6.0	-	-	-	**702564** 0001	25,60
8-pcs. incl. 1 bit holder	-	-	T10 T15 2xT20 T25 T30 T40	-	702564 0002	25,60
8-pcs. incl. 1 bit holder	-	PH2	T15 T20 T25	PZ1 PZ2 PZ3	702564 0003	24,–

7106

MaxxTor bits with a length of 49 mm

- 70% longer life than the best T25 x 50 high-performance impact bits available on the market

Contents	Six-edged mm	PH	TORX	PZ	art.no.	€
7-pcs.	2x3.0 2x4.0 2x5.0 6.0	-	-	-	**702571** 0001	30,65
7-pcs.	-	-	T10 T15 2xT20 T25 T30 T40	-	702571 0002	30,65
7-pcs.	-	PH2	T15 T20 T25	PZ1 PZ2 PZ3	702571 0003	28,90

7106

Accessories

- Compatible with **BitBuddy** and **FlipSelector** bit sets

Description	art.no.	€
Belt clip, shock-proof plastic	**702570** 0001	2,92

7106

Tube spanner

DIN 896B

- Precision steel tube with hexagonal head
- Can be operated with a cross bar or open-end spanner
- Through-drilled, chrome-plated

Wr. width mm	Total length mm	Hole Ø mm	Weight kg	art.no.	€
6 x 7	100	5	0.03	**701510** 0607	4,35
8 x 9	100	6	0.035	701510 0809	4,77
8 x 10	120	6	0.05	701510 0810	4,77
10 x 11	120	6	0.05	701510 1011	5,20
12 x 13	140	8	0.07	701510 1213	5,60
13 x 17	150	10	0.125	701510 1317	8,05
14 x 17	150	10	0.13	701510 1417	8,05
16 x 17	150	10	0.13	701510 1617	8,05
17 x 19	160	12	0.2	701510 1719	8,90
18 x 19	160	12	0.2	701510 1819	8,90

7101

Wr. width mm	Total length mm	Hole Ø mm	Weight kg	art.no.	€
20 x 22	170	12	0.235	701510 2022	10,85
21 x 23	170	14	0.25	701510 2123	12,50
22 x 24	185	14	0.28	701510 2224	12,50
24 x 27	185	14	0.285	701510 2427	14,35
25 x 28	205	16	0.325	701510 2528	17,10
27 x 32	205	16	0.415	701510 2732	20,10
30 x 32	205	16	0.38	701510 3032	20,10
32 x 36	225	18	0.54	701510 3236	25,40
36 x 41	225	18	0.59	701510 3641	33,60
41 x 46	245	20	0.835	701510 4146	51,50

7101

Tube spanner set, DIN 896 Type B, ISO 2236/ISO 1085

Contents	Wr. width mm	art.no.	€
8-pcs.	6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22	**701515** 0008	54,50

7101

Cross bar, DIN 900

- Fits tube spanners with corresponding bore diameters

Length mm	Ø mm	art.no.	€
125	5	**701525** 0125	1,38
160	6	701525 0160	2,12
180	8	701525 0180	2,60
200	10	701525 0200	3,61
250	12	701525 0250	5,15

7101

Length mm	Ø mm	art.no.	€
320	14	701525 0320	7,30
400	16	701525 0400	11,15
500	18	701525 0500	20,60
630	20	701525 0630	42,30

7101

Stepped cross bar, DIN 900

- Chrome-plated and through-hardened

Length mm	Ø mm	art.no.	€
280	5 / 6 / 8 / 10 / 12	**701520** 0280	9,45

7101

felo Socket tool

DIN 3125

2-component plastic handles

- Blade made from chrome molybdenum vanadium steel
- Slip protection
- Horizontal hanging hole

Wr. width mm	Blade length mm	Handle length mm	art.no.	€
5	125	90	**701530** 0050	8,70
5.5	125	90	701530 0055	9,–
6	125	90	701530 0060	9,20
7	125	99	701530 0070	11,10
8	125	99	701530 0080	11,55
9	125	99	701530 0090	11,80
10	125	99	701530 0100	11,90
11	125	105	701530 0110	13,45
12	125	105	701530 0120	13,45
13	125	105	701530 0130	13,85
14	125	105	701530 0140	14,10

7112

ATORN® Sockets

1/4"

- **Chrome vanadium steel, chrome-plated, with a pin hole**
- Hexagonal version with special profile for higher torques
- Optimum force transmission and screw protection

Hexagonal socket, 1/4 inch, DIN 3124

Wr. width mm	Length mm	art.no.	€
4	25	**702108** 0040	3,36
4.5	25	702108 0045	3,36
5	25	702108 0050	3,52
5.5	25	702108 0055	3,52
6	25	702108 0060	3,52
7	25	702108 0070	3,52
8	25	702108 0080	3,52
9	25	702108 0090	3,67
10	25	702108 0100	3,67
11	25	702108 0110	3,67
12	25	702108 0120	3,83
13	25	702108 0130	3,83
14	25	702108 0140	4,04

7102

Hexagonal socket, 1/4 inch, long

Wr. width mm	Length mm	art.no.	€
4	50	**702109** 0040	8,90
4.5	50	702109 0045	9,10
5	50	702109 0050	9,10
5.5	50	702109 0055	9,10
6	50	702109 0060	9,10
7	50	702109 0070	9,10
8	50	702109 0080	9,10
9	50	702109 0090	9,50
10	50	702109 0100	9,10
11	50	702109 0110	9,50
12	50	702109 0120	9,50
13	50	702109 0130	9,95
14	50	702109 0140	10,75

7102

Hex bit, 1/4 inch

Wr. width mm	Length mm	art.no.	€
3	37	**702110** 0030	5,60
4	37	702110 0040	5,60
5	37	702110 0050	5,60
6	37	702110 0060	5,60
8	37	702110 0080	6,–

7102

TORX bit, 1/4 inch

TORX	Length mm	art.no.	€
T10	37	**702111** 0100	6,40
T15	37	702111 0150	6,40
T20	37	702111 0200	6,40
T25	37	702111 0250	6,40
T27	37	702111 0270	6,40
T30	37	702111 0300	6,40
T40	37	702111 0400	7,25
T8	37	702111 0080	6,40
T9	37	702111 0090	6,40

7102

TORX socket, 1/4 inch

TORX	Length mm	art.no.	€
E 4	25	**702112** 0040	4,97
E 5	25	702112 0050	4,97
E 6	25	702112 0060	4,97
E 7	25	702112 0070	4,97
E 8	25	702112 0080	4,97
E 10	25	702112 0100	5,60

7102

Flat head, 1/4 inch

Slot mm	Length mm	art.no.	€
0.8 x 4.0	37	**702113** 0040	5,40
1.0 x 5.5	37	702113 0055	5,40
1.2 x 6.5	37	702113 0065	5,40

7102

Cross head (Phillips), 1/4 inch

PH	Length mm	art.no.	€
PH 1	37	**702114** 0010	5,40
PH 2	37	702114 0020	5,40
PH 3	37	702114 0030	5,40

7102

Pozidriv, 1/4 inch

PZ	Length mm	art.no.	€
PZ 1	37	**702115** 0010	6,–
PZ 2	37	702115 0020	6,–
PZ 3	37	702115 0030	6,–

7102

ATORN® Drives and connectors

1/4"

Designation	Length mm	art.no.	€
Reversible ratchet	150	**702010** 0014	39,50
Handle with slide block	120	702010 0006	8,05
Adapter, 1/4" internal x 3/8" external	26	702010 0007	7,25
Cardan joint	40	702010 0004	17,40
Extension	50	702010 0002	5,60
Extension	105	702010 0003	5,80
Extension	150	702010 0035	6,40

7102

702010 0014

702010 0007

702010 0002

702010 0006

702010 0004

ATORN® Sockets

3/8″

- **Chrome vanadium steel, chrome-plated, with a pin hole**
- Hexagonal version with special profile for higher torques
- Optimum force transmission and screw protection

Hexagonal socket, 3/8 inch

Wr. width mm	Length mm	art.no.	€
6	27	**702128** 0006	5,20
7	27	702128 0007	5,20
8	27	702128 0008	5,20
9	27	702128 0009	5,20
10	27	702128 0010	5,20
11	27	702128 0011	5,20
12	27	702128 0012	5,20
13	27	702128 0013	5,20
14	27	702128 0014	5,40
15	27	702128 0015	5,40
16	27	702128 0016	5,40
17	30	702128 0017	5,40
18	30	702128 0018	5,40
19	30	702128 0019	5,40
20	30	702128 0020	6,–
21	30	702128 0021	6,–
22	30	702128 0022	6,–

7102

Hex bit, 3/8 inch

Wr. width mm	Length mm	art.no.	€
3	47	**702130** 0030	5,80
4	47	702130 0040	5,80
5	47	702130 0050	5,80
6	47	702130 0060	5,80
7	47	702130 0070	5,80
8	47	702130 0080	5,80
9	47	702130 0090	5,80
10	47	702130 0100	5,80
12	47	702130 0120	11,20

7102

TORX bit, 3/8 inch

TORX	Length mm	art.no.	€
T20	47	**702131** 0200	7,85
T25	47	702131 0250	7,85
T27	47	702131 0270	7,85
T30	47	702131 0300	7,85
T40	47	702131 0400	7,85
T45	47	702131 0450	7,85
T50	47	702131 0500	7,85

7102

TORX socket, 3/8 inch

TORX	Length mm	art.no.	€
EX 5	27	**702132** 0050	7,65
EX 6	27	702132 0060	7,65
EX 7	27	702132 0070	7,65
EX 8	27	702132 0080	7,65
EX10	27	702132 0100	7,65
EX11	27	702132 0110	7,65
EX12	27	702132 0120	7,65
EX14	27	702132 0140	7,65

7102

Flat head, 3/8 inch

Slot mm	Length mm	art.no.	€
1.0 x 5.5	49	**702133** 0055	7,75
1.2 x 8.0	49	702133 0080	7,75
1.6 x 10.0	49	702133 0100	9,20

7102

Cross head (Phillips), 3/8 inch

PH	Length mm	art.no.	€
PH 1	49	**702134** 0010	7,75
PH 2	49	702134 0020	7,75
PH 3	49	702134 0030	7,75

7102

ATORN® Drives and connectors

3/8″

Designation	Length mm	art.no.	€
Lever-reversible ratchet	190	**702030** 0038	51,–
Handle with slide block	163	702030 0010	10,55
Adapter, 3/8″ internal x 1/4″ external	29	702030 0007	7,05
Adapter, 3/8″ internal x 1/2″ external	36	702030 0008	7,05
Cardan joint	55	702030 0006	20,90
Extension	50	702030 0009	8,50
Extension	75	702030 0002	7,45
Extension	125	702030 0003	8,50
Extension	150	702030 0004	10,55
Extension	250	702030 0005	12,–

7102

702030 0038

702030 0010

702030 0002

702030 0007

702030 0006

ATORN® Sockets

1/2"

- **Chrome vanadium steel, chrome-plated, with a pin hole**
- Hexagonal version with special profile for higher torques
- Optimum force transmission and screw protection

Hexagonal socket, 1/2 inch, DIN 3124

Wr. width mm	Length mm	art.no.	€
8	38	**702148** 0008	5,60
9	38	702148 0009	5,60
10	38	702148 0010	4,81
11	38	702148 0011	5,10
12	38	702148 0012	5,10
13	38	702148 0013	4,81
14	38	702148 0014	5,40
15	38	702148 0015	5,40
16	38	702148 0016	5,40
17	38	702148 0017	5,60
18	38	702148 0018	6,–
19	38	702148 0019	5,60
20	38	702148 0020	6,40
21	38	702148 0021	7,05
22	38	702148 0022	6,40
23	40	702148 0023	7,05
24	40	702148 0024	7,05
26	42	702148 0026	7,65
27	42	702148 0027	8,70
28	42	702148 0028	9,50
30	45	702148 0030	9,75
32	45	702148 0032	9,75

7102

12-point socket, 1/2 inch, long

Wr. width mm	Length mm	art.no.	€
10	75	**702149** 0010	12,65
11	75	702149 0011	12,65
12	75	702149 0012	12,65
13	75	702149 0013	12,65
14	75	702149 0014	13,25
15	75	702149 0015	14,10
16	75	702149 0016	14,10
17	75	702149 0017	14,10
18	75	702149 0018	14,90
19	75	702149 0019	14,10
20	75	702149 0020	14,70
21	75	702149 0021	14,90
22	75	702149 0022	15,10
23	75	702149 0023	16,–
24	75	702149 0024	15,30
26	75	702149 0026	15,50
27	75	702149 0027	17,–
30	75	702149 0030	17,60
32	75	702149 0032	18,80

7102

Hex bit, 1/2 inch

Wr. width mm	Length mm	art.no.	€
4	57	**702150** 0040	6,–
5	57	702150 0050	6,–
6	57	702150 0060	6,–
7	57	702150 0070	6,–
8	57	702150 0080	6,–
10	57	702150 0100	7,05
12	57	702150 0120	7,05
14	57	702150 0140	8,70
17	57	702150 0170	9,50
19	57	702150 0190	10,35

7102

TORX bit, 1/2 inch

TORX	Length mm	art.no.	€
T20	56	**702151** 0200	9,10
T25	56	702151 0250	9,10
T27	56	702151 0270	9,10
T30	56	702151 0300	9,10
T40	56	702151 0400	10,35
T45	56	702151 0450	10,35
T50	56	702151 0500	10,35
T55	56	702151 0550	13,25
T60	56	702151 0600	13,25

7102

TORX bit, 1/2 inch, long

TORX	Length mm	art.no.	€
T20	110	**702156** 0200	10,75
T25	110	702156 0250	10,75
T27	110	702156 0270	10,75
T30	110	702156 0300	10,75
T40	110	702156 0400	12,20
T45	110	702156 0450	12,20
T50	110	702156 0500	12,20
T55	110	702156 0550	15,30
T60	110	702156 0600	15,30

7102

TORX socket, 1/2 inch

TORX	Length mm	art.no.	€
EX 10	38	**702152** 0100	7,85
EX 11	38	702152 0110	7,85
EX 12	38	702152 0120	7,85
EX 14	38	702152 0140	8,70
EX 16	38	702152 0160	8,70
EX 18	38	702152 0180	9,10
EX 20	38	702152 0200	9,10
EX 22	38	702152 0220	9,95
EX 24	40	702152 0240	12,40

7102

Flat head, 1/2 inch

Slot mm	Length mm	art.no.	€
1.2 x 8.0	56	**702153** 0080	10,15
1.6 x 10.0	56	702153 0100	10,15
2.0 x 12.0	56	702153 0120	10,55
2.5 x 14.0	58	702153 0140	11,60

7102

Cross head (PH Phillips), 1/2 inch

PH	Length mm	art.no.	€
PH 2	56	**702154** 0020	9,75
PH 3	56	702154 0030	9,95
PH 4	56	702154 0040	10,15

7102

Cross head (PZ Pozidriv), 1/2 inch

PZ	Length mm	art.no.	€
PZ 2	56	**702155** 0020	9,75
PZ 3	56	702155 0030	9,95
PZ 4	56	702155 0040	10,15

7102

ATORN® Drives and connectors

1/2"

702060 0013

702060 0008

Designation	Length mm	art.no.	€
Reversible ratchet	255	**702060** 0013	55,–
Handle with slide block	300	702060 0008	11,60
Adapter, 1/2" internal x 3/8" external	38	702060 0009	7,45
Adapter, 1/2" internal x 3/4" external	49	702060 0010	9,50
Cardan joint	75	702060 0005	20,90
Spark plug insert	16	702060 0011	7,85
Spark plug insert	21	702060 0012	9,55
Extension	75	702060 0002	8,05
Extension	125	702060 0025	8,50
Extension	250	702060 0035	11,40

7102

702060 0005

702060 0009

702060 0002

702060 0011

ATORN® Socket sets

1/4"

6-kant Spezial Profil

- Sheet steel box, powder-coated
- With two-colour foam inlay and removable trays
- Hexagonal with special profile for higher torques
- Optimum force transmission and screw protection

702205 1428

702205 1418

702205 1442

Contents	Six-edged mm	Interior hexagon mm	Slot mm	PH	PZ	TORX	Dimensions W x D x H mm	Weight g	art.no.	€
18-pcs.; 1x reversible ratchet, 150 mm; 1x Cardan joint, 40 mm; 2x extensions, 50 / 105 mm; 1x handle with slide block	4 / 4.5 / 5 / 5.5 / 6 / 7 / 8 / 9 / 10 / 11 / 12 / 13 / 14	-	-	-	-	-	225 x 130 x 37	approx. 1030	**702205** 1418	118,–
28-pcs.; 1x reversible ratchet, 150 mm; 1x Cardan joint, 40 mm; 1x extension, 50 mm; 1x handle with slide block	4 / 4.5 / 5 / 5.5 / 6 / 7 / 8 / 9 / 10 / 11 / 12 / 13	3 / 4 / 5 / 6 / 8	4 / 5.5 / 6.5	PH1 / PH2	PZ1 / PZ2	-	225 x 130 x 37	approx. 1140	702205 1428	137,–
42-pcs.; 1x reversible ratchet, 150 mm; 1x Cardan joint, 40 mm; 2x extensions, 50 / 105 mm; 1x handle with slide block	4 / 4.5 / 5 / 5.5 / 6 / 7 / 8 / 9 / 10 / 11 / 12 / 13 / 14 / long: 8 / 10 / 11 / 13	3 / 4 / 5 / 6 / 8	4 / 5.5 / 6.5	PH1 / PH2 / PH3	PZ1 / PZ2 / PZ3	T10 / T15 / T20 / T25 / T30 / T40	320x130x47	approx. 1760	702205 1442	184,–

7102

... and optimum service life

ATORN®
High quality for great performance

ATORN® Socket set

3/8″

- Sheet steel box, powder-coated
- With two-colour foam inlay and removable trays
- Hexagonal with special profile for higher torques
- Optimum force transmission and screw protection

Contents	Six-edged mm	Dimensions W x D x H mm	Weight g	art.no.	€
22-pcs.; 1x reversible ratchet, 190 mm; 1x Cardan joint, 55 mm; 3x extensions, 50 / 75 / 150 mm; 1x adapter, 1/2″ x 3/8″	6 / 7 / 8 / 9 / 10 / 11 / 12 / 13 / 14 / 15 / 16 / 17 / 18 / 19 / 20 / 21 / 22	320x130x47	2080	**702209** 3823	182,–

7102

ATORN® Socket sets

1/2″

- Sheet steel box, powder-coated
- With two-colour foam inlay and removable trays
- Hexagonal with special profile for higher torques
- Optimum force transmission and screw protection

702214 1219

702214 1222

702214 1235

Contents	Weight g	Six-edged mm	Interior hexagon mm	PH	Dimensions W x D x H mm	TORX	art.no.	€
19-pcs.; 1x reversible ratchet, 255 mm; 1x Cardan joint, 75 mm; 2x extensions, 125 / 250 mm; 1x handle with slide block	approx. 4420	10 / 11 / 12 / 13 / 14 / 15 / 16 / 17 / 19 / 22 / 24 / 27 / 30 / 32	-	-	455x180x51	-	**702214** 1219	195,–
22-pcs.; spark plug inserts, 16 / 21 mm; 1x reversible ratchet, 255 mm; 1x Cardan joint, 75 mm; 2x extensions, 125 / 250 mm; 1x adapter, 1/2″ x 3/8″	approx. 4352	10 / 11 / 12 / 13 / 14 / 15 / 16 / 17 / 18 / 19 / 22 / 24 / 27 / 30 / 32	-	-	455x180x51	-	702214 1222	205,–
35-pcs.; 1x reversible ratchet, 255 mm; 1x Cardan joint, 75 mm; 2x extensions, 125 / 250 mm; 1x adapter, 1/2″ x 3/8″	approx. 5234	10 / 11 / 12 / 13 / 14 / 15 / 16 / 17 / 18 / 19 / 20 / 21 / 22 / 23 / 24 / 27 / 30 / 32	7 / 8 / 10 / 12 / 14	PH3 / PH4	455x180x51	T30 / T40 / T45 / T55 / T60	702214 1235	275,–

7102

STAHLWILLE® Socket sets

1/4″ 1/2″

- **STAHLWILLE** ratchets, connectors and inserts are quite simply the trusted choice for professionals
- All metal parts made from high-quality steel (chrome alloy steel, chrome-plated)
- Socket tool and connectors fit together securely and unfasten easily
- Ergonomically shaped 2-component handle made from shock-proof, Skydrol-resistant plastic
- Ergonomic lever to switch between clockwise and anti-clockwise rotation

Socket set, 1/4 inch + 1/2 inch

Contents	Six-edged mm	Interior hexagon mm	art.no.	€
38-pcs. in a sheet steel box; 2 ratchets; 4 extensions (54/130/150/255 mm); 2 Cardan joints; 1 drive handle; 2 T-handles	4 / 5 / 5.5 / 6 / 7 / 8 / 9 / 10 / 11 / 13 / 16 / 17 / 18 / 19 / 21 / 22 / 24 / 27 / 30	3 / 4 / 5 / 6 / 8 / 10 / 12 / 14	**702040** 0038	450,–

7168

Socket set, 1/2 inch

- Double hex inserts

Contents	Six-edged mm	Interior hexagon mm	art.no.	€
31-pcs. in a sheet steel box; 1 ratchet; 3 extensions (75/130/255 mm); 1 T-handle; 1 Cardan joint	8 / 10 / 11 / 12 / 13 / 14 / 15 / 16 / 17 / 18 / 19 / 21 / 22 / 24 / 27 / 30 / 32	4 / 5 / 6 / 7 / 8 / 10 / 12 / 14	**702041** 0031	395,–

7168

Socket set

1/4" 1/2"

- **82 pcs.**
- Matt satin chrome-plated finish
- Sturdy plastic case
- **Contents:**
  13x Superlock 1/4" sockets: Wr. width 4 to 14 mm
  12x Superlock 1/2 inch sockets: Wr. width 14 to 32 mm
  2x 1/2 inch spark plug sockets: 16 + 21 mm
  17x 1/4 inch Bit sockets:
  3x flat head 4.0 - 5.5 - 7.0 mm
  2 x PHILLIPS® PH 1 - PH 2
  2 x POZIDRIV® PZ 1 / PZ 2
  4x hex 3.0 - 4.0 - 5.0 - 6.0 mm
  6 TORX® T8 - T10 - T15 - T20 - T25 - T30
  15x 5/16" Bits:
  3x flat head 8.0 - 10.0 - 12.0 mm
  2 x PHILLIPS® PH 3 - PH 4
  2 x POZIDRIV®PZ 3 - PZ 4
  4x hex 8.0 - 10.0 - 12.0 - 14.0 mm
  4x TORX® T40 - T45 - T50 - T55
  1x 1/4 inch extension, 50 mm, milled
  1x 1/4 inch extension, 100 mm, milled
  1x 1/4 inch extension, flexible, 150 mm
  1x square screwdriver, 1/4 inch with 1/4 inch square socket
  1x 1/4 inch Cardan joint
  1x T-grip with slide block, 1/4 inch
  1x socket adapter, 1/4 inch square with 1/4 inch hexagonal drive
  1x reversible ratchet, 1/4 inch, length 145 mm
  1x 1/2 inch extension, 125 mm, milled
  1x 1/2 inch extension, 250 mm, milled
  1x slide block for 1/2 inch extension and 3/8 inch x 1/2 inch enlargement adapter
  1x 1/2 inch Cardan joint
  1x bit adapter socket, 1/2 inch x 5/16 inch
  1x reversible ratchet, 1/2 inch, length 250 mm
  9x combination spanners: Wr. width 8 - 10 - 11 - 12 - 13 - 14 - 17 - 19 - 22 mm

Contents	art.no.	€
82-pcs.	**702107** 0082	185,–
	7101	

felo Socket set ERGONIC

1/4"

With super-fine serration

- **Extremely strong switching mechanism with super-fine toothing (> 65 Nm, 72 teeth, 5° return angle)**
- Socket tool safety lock (with push-button release)
- Handle permanently attached to the forged component
- Patented ERGONIC handle with cushion effect for maximum comfort
- Various application-specific assortments in a sturdy and secure StrongBox
- High-quality and durable: 15-year guarantee with every item

Contents	Six-edged mm	Interior hexagon mm	Slot mm	PH	PZ	TORX	art.no.	€
1/4", 36-pcs.; 1x ERGONIC ratchet; 1x ERGONIC stubby; 2x extensions, 50 and 100 mm; 1x Cardan joint; 1x bit holder, E6.3 x 58 mm; 1x adapter, E6.3 - 1/4" (50 mm); 1x adapter, 1/4" SQ - 1/4" hex	4 4.5 5 5.5 6 7 8 9 10 11 12 13 14	4.0 5.0 6.0	4.5 x 0.6 - 5.5 x 1.0	1 2 3	1 2	T10 T15 T20 T25 T30	**702003** 0036	79,90
							7112	

ATORN® Torque screwdriver

- Simple and precise torque adjustment
- Precise release when the set torque is reached, clearly audible and tangible
- Blades made of chrome molybdenum vanadium alloy
- Ergonomic 2-component handle
- Replaceable blades for maximum flexibility in all application areas
- Other set configurations and individual blades available on request!

Torque handle

- Including adjustment key, user manual and calibration certificate

Torque N-m	art.no.	€
0.6 - 1.5	**703732** 0615	49,90
1.5 - 3.0	703732 1530	49,90
3.0 - 5.4	703732 3054	49,90

7109

Replaceable blades

- Black tip for a precise fit

Description	Length mm	Hexagonal support in	art.no.	€
Torx T6	170	1/4	**702733** 0060	4,35
Torx T7	170	1/4	702733 0070	4,35
Torx T8	170	1/4	702733 0080	4,35
Torx T9	170	1/4	702733 0090	4,35
Torx T10	170	1/4	702733 0100	4,35
Torx T15	170	1/4	702733 0150	4,35
Torx T20	170	1/4	702733 0200	4,35
Torx T25	170	1/4	702733 0250	4,35
Torx Plus 6IP	170	1/4	702733 1060	4,35
Torx Plus 7IP	170	1/4	702733 1070	4,35
Torx Plus 8IP	170	1/4	702733 1080	4,35
Torx Plus 9IP	170	1/4	702733 1090	4,35
Torx Plus 10IP	170	1/4	702733 1100	4,35
Torx Plus 15IP	170	1/4	702733 1150	4,35
Torx Plus 20IP	170	1/4	702733 1200	4,35
Torx Plus 25IP	170	1/4	702733 1250	4,35

7109

Description	Length mm	Hexagonal support in	art.no.	€
Flat head 3.0 x 0.5 mm	170	1/4	702733 2030	4,35
Flat head 3.5 x 0.6 mm	170	1/4	702733 2035	4,35
Flat head 4.0 x 0.8 mm	170	1/4	702733 2040	4,35
Phillips PH 0	170	1/4	702733 3000	4,35
Phillips PH 1	170	1/4	702733 3010	4,35
Phillips PH 2	170	1/4	702733 3020	4,35
Pozidriv PZ 0	170	1/4	702733 4000	4,35
Pozidriv PZ 1	170	1/4	702733 4010	4,35
Pozidriv PZ 2	170	1/4	702733 4020	4,35
Hex wr. width 2.0	170	1/4	702733 5020	4,35
Hex wr. width 2.5	170	1/4	702733 5025	4,35
Hex wr. width 3.0	170	1/4	702733 5030	4,35
Hex wr. width 4.0	170	1/4	702733 5040	4,35

7109

Accessories

Description	art.no.	€
Adjustment key	**702734** 0001	3,50
Locking seal	702734 0002	3,80
Bit holder blade, 1/4" bit mount	702734 0003	6,95

7109

702734 0002

702734 0001

702734 0003

Torque screwdriver set, 0.6 - 3.0 Nm

Contents	Torque N-m	art.no.	€
2 handles; bit holder blade; bits in sizes PH1 and 2, PZ1 and 2; hex 2.5 and 3 mm; TORX 10, 15, 20, 25; adjustment key; certificate and user instructions; shock-proof plastic box with soft foam inlay	0.6 - 1.5 and 1.5 - 3.0	**702736** 0630	115,–

7109

wiha TorqueFix® torque screwdriver

- Fixed torque value
- Tested to EN ISO 6789, BS EN 26789, ASME B107. 14M
- Tolerance ± 6 % (traceable to national standards)
- Click signal when the set torque value is reached
- Ergonomic multi-component handle, extremely handy due to the lightweight and compact design
- Handle size optimally adjusted to the torque range
- **Compatible replaceable blades: Torque**
- Supplied in a plastic box with factory test certificate

Note:
- Torque recommendations refer to dry threaded connections. The torque values must be reduced for oily or greased threaded connections. The strength of the substrate material (containing the thread) must be at least equal to the strength of the screw.
- Screws, strength class 12.9

702630 0020

Torque N·m	Tolerance	Hexagonal support mm	Handle length mm	Handle width mm	art.no.	€
0.4	6 %	4	112	23	**702630** 0004	86,–
0.5	6 %	4	112	23	702630 0005	86,–
0.6	6 %	4	112	23	702630 0006	86,–
0.8	6 %	4	112	23	702630 0008	86,–
0.9	6 %	4	112	23	702630 0009	86,–
1.1	6 %	4	119	30	702630 0011	95,50
1.2	6 %	4	119	30	702630 0012	95,50
1.5	6 %	4	119	30	702630 0015	95,50

7110

Torque N·m	Tolerance	Hexagonal support mm	Handle length mm	Handle width mm	art.no.	€
2.0	6 %	4	119	30	702630 0020	95,50
2.5	6 %	4	119	30	702630 0025	95,50
3.0	6 %	4	126	36	702630 0030	100,–
3.8	6 %	4	126	36	702630 0038	100,–
5.0	6 %	4	132	41	702630 0050	109,50
5.5	6 %	4	132	41	702630 0055	109,50
6.0	6 %	4	132	41	702630 0060	109,50
7.2	6 %	4	132	41	702630 0072	109,50

7110

wiha TorqueVario®-S torque screwdriver

- With scale
- Infinitely variable torque settings with adjusting tool (included)
- Click signal when the set torque value is reached
- Ergonomic multi-component handle, extremely handy due to the lightweight and compact design
- Handle size optimally adjusted to the torque range
- Tested to EN ISO 6789, BS EN 26789, ASME B107. 14M
- Tolerance ± 6 % (traceable to national standards)
- **Compatible replaceable blades: Torque**
- Supplied in a plastic box with factory test certificate

Individual sizes

Torque N·m	Tolerance	Hexagonal support mm	Handle length mm	Handle width mm	Weight kg	art.no.	€
0.4 - 1.0	6 %	4	127	23	147	**702631** 0004	104,50
0.5 - 2.0	6 %	4	131	30	200	702631 0008	116,–
0.8 - 5.0	6 %	4	138	36	252	702631 0010	119,50
2.0 - 7.0	6 %	4	142	41	320	702631 0020	128,50

7110

Incl. adjustment tool

wiha iTorque torque screwdriver

- Digital scale, making torque easy to set
- Ergonomic plastic and metal composite handle made from high-quality and robust materials
- Handle size optimally adjusted to the torque range
- Clearly audible and tangible click signal when the set torque is reached
- Standards: EN ISO 6789, BS EN 26789, ASME B107.14M.
- Click Control - integrated counter records every use, calibration alert after every 5,000 uses (standard benchmark / resettable)
- Incl. torque bit universal holder, replaceable blade with holding fixture for C6.3 and E6.3 (1/4") bits
- Easy to switch between units - Nm in.lbs / Ncm in.oz
- **Compatible replaceable blades: Torque**

Torque N·m	Hexagonal support mm	Handle length mm	art.no.	€
0.4 - 1.5	4	134	**702737** 0004	185,50
0.8 - 3.0	4	134	702737 0008	185,50
1.0 - 5.0	4	134	702737 0010	190,90

7110

wiha Replaceable blades Torque

- Chrome vanadium steel, through-hardened with a matt chrome-plated finish
- Additional versions available on request
- Wiha ChromTop® Blade tip guarantees maximum dimensional stability
- **Compatible with Wiha** torque screwdrivers

Replaceable blades for hexagonal socket head screws, straight, colour code: red

Wr. width mm	max. torque N·m	Six-edged mm	Total length mm	Blade length mm	art.no.	€
1.3	0.4	4	175	42	**702645** 0013	4,98
1.5	0.9	4	175	42	702645 0015	4,98
2.0	1.8	4	175	42	702645 0020	4,98
2.5	3.8	4	175	42	702645 0025	4,98
3.0	5.5	4	175	42	702645 0030	4,98
4.0	8.0	4	175	42	702645 0040	4,98
					7110	

702645 0040

Replaceable blades for hexagonal socket head screws, ball head, colour code: red

Wr. width mm	max. torque N·m	Six-edged mm	Total length mm	Blade length mm	art.no.	€
1.5	0.4	4	175	42	**702646** 0015	5,09
2.0	0.9	4	175	42	702646 0020	5,09
2.5	2.0	4	175	42	702646 0025	5,09
3.0	3.8	4	175	42	702646 0030	5,09
4.0	8.0	4	175	42	702646 0040	5,09
					7110	

702646 0040

Replaceable blades for TORX screws, straight and MagicSpring®, colour code: dark green

TORX	max. torque N·m	Six-edged mm	Total length mm	Blade length mm	**Straight** art.no.	€	**MagicSpring** art.no.	€
T4	0.25	4	175	42	**702643** 0004	5,09		
T5	0.4	4	175	42	702643 0005	5,09		
T6	0.6	4	175	42	702643 0006	5,09	**702644** 0006	6,55
T7	0.9	4	175	42	702643 0007	5,09	702644 0007	6,55
T8	1.3	4	175	42	702643 0008	5,09	702644 0008	6,55
T9	2.5	4	175	42	702643 0009	5,09	702644 0009	6,55
T10	3.7	4	175	42	702643 0010	5,09	702644 0010	6,55
T15	5.5	4	175	42	702643 0015	5,09	702644 0015	6,55
T20	8.0	4	175	42	702643 0020	5,09	702644 0020	6,55
T25	8.0	4	175	42	702643 0025	5,09	702644 0025	6,55
					7110		7110	

702643 0020

702644 0020

Universal bit holder / adapter blade

Description	Six-edged mm	Total length mm	art.no.	€
Universal bit holder, C6.3 and E 6.3 (1/4")	4	162	**702650** 0014	14,15
Adapter blade for 1/4" sockets	4	155	702650 1014	7,95
			7110	

702650 0014

702650 1014

STAHLWILLE TORSIOMETER 760 torque screwdriver

- With display
- For holding E6.3 1/4 inch bits
- Measuring element: flat torsion spring
- Clockwise tightening (with drag indicator) and anti-clockwise tightening
- Comparison scale (in·lb) and slider
- Incl. certificate

Tolerance ± 6 %

Bits on page 70-26

Torque N·m	Scale division N·m	Length mm	art.no.	€
0.15 - 0.75	0.025	185	**702767** 0075	220,–
0.3 - 1.5	0.05	185	702767 0150	235,–
0.6 - 3.0	0.10	185	702767 0300	230,–
1.2 - 6.0	0.20	185	702767 0600	235,–
			7168	

wiha Torque wing-handle

- Ergonomic handle, extremely handy due to the compact design
- Especially for difficult-to-reach screws and tight spaces
- Click signal when the set torque is reached
- ± 6 %, traceable to national standards
- Opening torque approx. 30% higher than tightening torque
- Supplied in a practical plastic box with factory test certificate
- Other items customisable and configurable on request
- EN ISO 6789, BS EN 26789, ASME B107.14M

Tolerance ± 6 %

TorqueFix®-Key torque-wing handle

Torque N·m	Hexagonal support mm	Handle width mm	Handle length mm	art.no.	€
0.5	4	50	68	**702632** 0005	54,70
0.6	4	50	68	702632 0006	54,70
0.9	4	50	68	702632 0009	54,70
1.1	4	50	68	702632 0011	54,70
1.2	4	50	68	702632 0012	54,70
1.4	4	50	68	702632 0014	54,70
2.0	4	50	68	702632 0020	54,70
2.5	4	50	68	702632 0025	54,70
3.0	4	50	68	702632 0030	54,70
3.8	4	50	68	702632 0038	54,70
4.0	4	50	68	702632 0040	54,70
				7110	

Replaceable blades for hexagonal socket head screws, straight, colour code: red

Wr. width mm	Six-edged mm	Total length mm	Blade length mm	max. torque N·m	art.no.	€
1.5	4	75	20	0.9	**702664** 0015	4,02
2.0	4	75	20	1.8	702664 0020	4,02
2.5	4	75	20	3.8	702664 0025	4,02
3.0	4	75	20	5.5	702664 0030	4,02
4.0	4	75	20	8.0	702664 0040	4,02
					7110	

Replaceable blades for TORX screws, straight, colour code: dark green

TORX	Six-edged mm	Total length mm	Blade length mm	max. torque N·m	art.no.	€
T6	4.0	75	20	0.6	**702662** 0006	4,02
T7	4.0	75	20	0.9	702662 0007	4,02
T8	4.0	75	20	1.3	702662 0008	4,02
T9	4.0	75	20	2.5	702662 0009	4,02
T10	4.0	75	20	3.8	702662 0010	4,02
T15	4.0	75	20	5.5	702662 0015	4,02
T20	4.0	75	20	8.0	702662 0020	4,02
T25	4.0	75	20	8.0	702662 0025	4,02
					7110	

...dreams come true.

ATORN®
High quality for great performance

wiha Tplus torque Tplus

TorqueVario®-STplus T-handle torque tool

- **Numerical scale for variable adjustment**
- With slip clutch
- Infinitely variable torque settings with adjusting tool (included)
- Comfortable T-handle with soft zones for optimum torque transmission
- Click signal when the set torque is reached
- Supplied in a practical plastic box with factory test certificate
- **Compatible replaceable blades: Tplus**

Tolerance ± 6 %

Torque N·m	Tolerance	Six-edged mm	Handle length mm	Handle width mm	art.no.	€
5 - 14	6 %	6	56	120	**702656** 0004	192,50
					7110	

wiha Torque TR torque pistol-grip handle

TorqueVario®-S TR torque screwdriver

- Ergonomic pistol grip for high torque
- Axial force transmission with no breakdown torque
- Hard and soft zones adapted to fit the hand for max. application of force
- Fine-toothed ratchet with 72 teeth allows a 5° start angle: works precisely even when space is tight
- Low range of movement for fast operation, e.g. with 2-finger grip
- Torque can be set easily via the adjusting tool integrated in the handle
- Click signal when the set torque is reached
- Non-magnetic blade locking mechanism
- ± 6 %, traceable to national standards
- Opening torque approx. 30% higher than tightening torque
- Supplied in a practical plastic box with factory test certificate
- EN ISO 6789, BS EN 26789, ASME B107.14M
- **Compatible replaceable blades: Tplus**

Tolerance ± 6 %

Torque N·m	Tolerance	Hexagonal support mm	Handle length mm	Handle width mm	art.no.	€
2.0 - 8.0	6 %	6	110	125	**702633** 0003	169,50
					7110	

wiha Replaceable blades Tplus

- Made from high-quality chrome vanadium steel, through-hardened with a matt chrome-plated finish
- **Wiha ChromTop®** blade tip guarantees maximum dimensional stability
- Compatible with **Wiha** pistol-grip and T-handle torque tools

Replaceable blades for hexagonal socket head screws, straight, colour code: red

Wr. width mm	Six-edged mm	Total length mm	Blade length mm	max. torque N·m	art.no.	€
3.0	6	130	53	5.5	**702672** 0030	7,35
4.0	6	130	53	15.0	702672 0040	7,35
5.0	6	130	53	15.0	702672 0050	7,35
6.0	6	130	53	15.0	702672 0060	7,35
					7110	

Replaceable blades for TORX screws, straight, colour code: dark green

TORX	Six-edged mm	Total length mm	Blade length mm	max. torque N·m	art.no.	€
T15	6	130	53	5.5	**702670** 0015	7,45
T20	6	130	53	10.0	702670 0020	7,45
T25	6	130	53	15.0	702670 0025	7,45
T27	6	130	53	15.0	702670 0027	7,45
T30	6	130	53	15.0	702670 0030	7,45
T40	6	130	53	15.0	702670 0040	7,45
					7110	

Adapter

702673 2001

702673 4001

Description mm	Six-edged mm	Total length mm	art.no.	€
1/4" bit quick-release holder for T-handle	6	125	**702673** 2001	22,30
T-handle adapter blade for 1/4" sockets	6	120	702673 4001	12,75
T-handle adapter blade for 3/8" sockets	6	120	702673 4002	12,75
			7110	

ATORN® Torque wrenches

- Haptic and acoustic adjustment aid
- User-friendly thanks to an ergonomically shaped handle with a structured comfort-grip surface
- Clearly audible and tangible short-path release when the set torque is reached
- Quickly secured and released via locking ring
- Dual scale with N·m and lbf·ft.
- Viewing window protects the scale against damage
- High-quality permanent laser marking
- Shipped in protective tube packaging incl. a hanging fixture
- Made in Germany

702602 0001

702602 0002

702602 0003

702602 0004

702602 0005

702602 0006

Lever-reversible ratchet

- Accuracy ± 3 % of scale value, ± 4 % with 1 - 6 Nm torque wrench
- ½ inch ratchet with 32 teeth, 3/8 inch ratchet with 30 teeth, ¼ inch ratchet with 20 teeth
- DIN EN ISO 6789:2003 (D) square in accordance with DIN 3120, ISO 1174-1

Torque N·m	Drive	Scale division N·m	Length mm	art.no.	€	Calibration art.no.	€
1-6	1/4"	0.1	234	**702602** 0001	187,–	079310 0001	31,50
2.5-25	1/4"	0.25	274	702602 0002	181,–	079310 0001	31,50
10-60	3/8"	0.5	355	702602 0003	187,–	079310 0001	31,50
20-120	1/2"	1.0	456	702602 0004	174,–	079310 0001	31,50
40-200	1/2"	1.0	551	702602 0005	187,–	079310 0001	31,50
60-320	1/2"	2.0	621	702602 0006	210,–	079310 0001	31,50

7109

702603 0001

702603 0002

702603 0003

702603 0004

702603 0005

For snap-in tools

- Accuracy ± 3 % of scale value
- Including serial number and certificate
- DIN EN ISO 6789:2003 (D)

Snap-in tools from page 70-43

Torque N·m	Quadratic mm	Scale division N·m	Length mm	art.no.	€	Calibration art.no.	€
2.5-25	9x12	0.25	258	**702603** 0001	132,–	079310 0001	31,50
10-60	9x12	0.5	312	702603 0002	134,–	079310 0001	31,50
20-120	14x18	1.0	393	702603 0003	138,–	079310 0001	31,50
40-200	14x18	1.0	488	702603 0004	155,–	079310 0001	31,50
60-230	14x18	2.0	558	702603 0005	180,–	079310 0001	31,50

7109

STAHLWILLE® MANOSKOP® 755 user-adjusted torque wrench

- Releasing
- Holding fixture for interchangeable snap-in tools
- Double stop signal
- Exceptionally light and handy
- Handle and shank made from square tubular steel
- Continued application of force once the wrench has released, or the application of force in the opposite direction (up to the max. measurement limit for the torque wrench) will not affect the release mechanism, which protects it against damage.
- Interchangeable snap-in tools for anti-clockwise tightening
- **Adjusted using a torque wrench testing instrument**
- **Available with pre-set release value (10 % supplement)**

Tolerance ± 4 %

For snap-in tools

Torque N·m	Design	Quadratic mm	Length mm	Weight kg	art.no.	€	Calibration art.no.	€
4-40	N·m / ft·lb	9x12	201	0.522	**702757** 0040	122,–	079310 0001	31,50
20-100	N·m / ft·lb	9x12	318	0.635	702757 0100	133,–	079310 0001	31,50
30-200	N·m / ft·lb	14x18	457	1.060	702757 0200	122,–	079310 0001	31,50
60-300	N·m / ft·lb	14x18	609	1.210	702757 0300	137,–	079310 0001	31,50

7168

STAHLWILLE® MANOSKOP® 730/721 Quick torque wrench

- QuickRelease safety lock allows fast change of snap-in tools and holds these securely, preventing inadvertent loosening
- Ergonomically-shaped, non-slip adjustment element with thumb cavity; for fast, secure shifting of the read-out scale for setting the release torque
- Optimised ball handle for effortless working
- Resistant to oil, grease, fuel, brake fluid and Skydrol
- The new design with opposing V-shaped mounts and integrated magnifier enables fast and precise adjustment
- **No need to reset to „0" as a load is only applied to the measuring element during the tightening process – bending beam instead of spring**

For snap-in tools

Torque N·m	Scale division N·m	Design	Quadratic mm	Length mm	Weight kg	art.no.	€
6 - 50	2	N·m / ft·lb	9x12	315	0.805	**702731** 0050	220,–
20 - 100	2.5	N·m / ft·lb	9 x 12	370	0.965	702731 0100	235,–
25 - 130	2.5	N·m / ft·lb	14 x 18	410	1.1	702731 0130	245,–
40 - 200	5	N·m / ft·lb	14 x 18	455	1.25	702731 0200	265,–
80 - 400	10	N·m / ft·lb	14 x 18	590	1.88	702731 0400	390,–
130 - 650	20	N·m / ft·lb	14 x 18	875	3.28	702731 0650	579,–

7168

With integral ratchet

Torque N·m	Scale division N·m	Design	Drive	Length mm	Weight kg	art.no.	€
6 - 50	2	N·m / ft·lb	3/8"	352	0.9	**702754** 0051	272,50
30 - 150	5	N·m / ft·lb	1/2"	452	1.4	702754 0151	275,–
40 - 200	5	N·m / ft·lb	1/2"	482	1.5	702754 0201	295,–
60 - 300	10	N·m / ft·lb	1/2"	553	1.72	702754 0301	340,–

7168

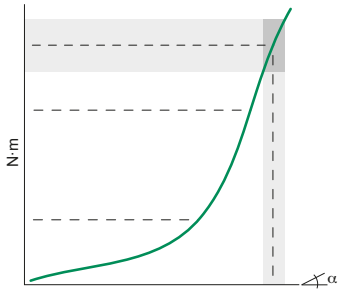
With integral QuickRelease ratchet

Torque N·m	Scale division N·m	Design	Drive	Length mm	Weight kg	art.no.	€
40 - 200	5	N·m / ft·lb	1/2"	483	1.25	**702754** 1201	295,–

7168

STAHLWILLE® SENSOTORK® 713 torque angle torque wrench

- With display, for clockwise and anti-clockwise tightening
- Flexible and easy to operate thanks to a large display with menu prompts
- Particularly large measurement range (5 % to 100 % of nominal value)
- Supplied with reversible ratchet, QuickRelease safety lock
- Measurement not dependent on the force application point
- Units of measurement: N·m, ft·lb, in·lb
- Optical, haptic and acoustic signal warning time can be adjusted
- Torque and torsion angle are simultaneously visible
- Convenient and extremely large-range torsion angle measurement without a reference arm
- Allows individual snap-in tool lengths to be set
- Maintenance-friendly thanks to easy adjustment and automatic notification of the next calibration date
- Recurring screw joints can be compiled into a menu-driven sequence
- Password protection to prevent accidental adjustment or unauthorised use
- Meets DKD-R 3-7, Class 2 - certificate included
- Torsion angle display accuracy ± 1°, display accuracy ± 1 %



With torsion angle function

Torque N·m	Quadratic mm	Drive	Length mm	Weight kg	art.no.	€
3-60	9x12	3/8"	378	0.856	**702760** 0060	1.219,–
10-200	14x18	1/2"	608	1.552	702760 0200	1.289,–
20-400	14x18	3/4"	838	2.332	702760 0400	1.419,–

7168

STAHLWILLE® MANOSKOP® 730 torque wrench

Extremely quick to set

- Releasing
- Tolerance ± 4 %
- Easy-to-read double scale for N·m / ft·lb and/or N·m / in·lb from sizes 6 - 50 Nm
- Extremely resistant to mechanical wear and protected against dirt inside the wrench
- **No need to reset to "0" as a load is only applied to the measuring element during the tightening process, bending beam instead of spring**
- Double stop signal
- **Rapid setting of the release torque – practically the fastest torque wrench adjustment**
- Low-wear drive
- Continued application of force once the wrench has released, or the application of force in the opposite direction e.g. with stuck screws will not affect the release mechanism, which protects it against damage.
- Quick external adjustment without dismantling the torque wrench
- Incl. certificate

730/2 torque wrench for snap-in tools

Torque N·m	Scale division N·m	Quadratic mm	Length mm	Weight kg	art.no.	€	Calibration art.no.	Calibration €
4-20	0.5	9x12	178.5	0.315	**702750** 0020	199,–	079310 0001	31,50
8-40	1.0	9x12	222	0.395	702750 0040	205,–	079310 0001	31,50

7168

STAHLWILLE® Torque wrenches MANOSKOP® 730N

QuickSelect rapid adjustment mechanism

- Releasing
- Tolerance ± 3 %
- Very easy-to-read dual scale with different colours for N·m and ft·lb
- Extremely resistant to mechanical wear and protected against dirt inside the wrench
- **No need for resetting to 0 as a load is only applied to the measuring element during the tightening process - bending beam instead of a spring**
- Perceptible double stop signal when the set value is reached
- QuickRelease safety lock ensures that snap-in tools are securely engaged and quick to change
- **QuickSelect rapid adjustment mechanism - simply PULL, SET and SECURE the adjusting knob**
- Scale ring with fine adjustment for the measurement range marked in black on the dual scale
- Low-wear drive
- 2-component handle made from extremely rugged plastic and a comfort-grip soft zone - resistant to oils, grease, fuel, brake fluid and Skydrol
- Continued application of force once the wrench has released, or the application of force in the opposite direction (e.g. with stuck screws) will not affect the release mechanism, which protects it against damage
- Quick external adjustment without dismantling the torque wrench
- Incl. certificate

Bending beam instead of spring

QuickRelease safety lock

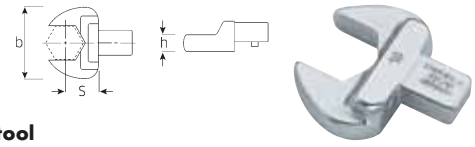
Scale ring with fine adjustment

For snap-in tools

Torque N·m	Scale division N·m	Design	Quadratic mm	Length mm	Weight kg	art.no.	€	Calibration art.no.	Calibration €
2-20	1 (0.2)	N·m / in·lb	9x12	275	0.737	**702747** 0020	230,–	079310 0001	31,50
10-50	5 (0.25)	N·m / ft·lb	9x12	330	0.831	702747 0050	240,–	079310 0001	31,50
20-100	10 (0.5)	N·m / ft·lb	9x12	386	0.988	702747 0100	260,–	079310 0001	31,50
25-130	10 (0.5)	N·m / ft·lb	14x18	421	1.128	702747 0130	275,–	079310 0001	31,50
40-200	10 (1)	N·m / ft·lb	14x18	467	1.264	702747 0200	300,–	079310 0001	31,50
80-400	20 (2)	N·m / ft·lb	14x18	607	1.655	702747 0400	445,–	079310 0001	31,50
130-650	50 (2.5)	N·m / ft·lb	14x18	890	3.231	702747 0650	679,–	079310 0002	42,–

7168

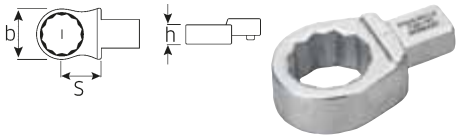
STAHLWILLE Snap-in tools, 9 x 12



Open-end snap-in tool

Wr. width mm	b mm	h mm	S mm	art.no.	€
7	22	5	17.5	**702780** 0007	32,50
8	22	5	17.5	702780 0008	29,30
9	26	5.5	17.5	702780 0009	31,70
10	26	5.5	17.5	702780 0010	27,40
11	26	5.5	17.5	702780 0011	29,–
12	30	7	17.5	702780 0012	30,50
13	30	7	17.5	702780 0013	27,40
14	35	8	17.5	702780 0014	27,40
15	35	8	17.5	702780 0015	29,30
16	38	8.5	17.5	702780 0016	27,40
17	38	8.5	17.5	702780 0017	27,40
18	42	9	20	702780 0018	28,30
19	42	9	20	702780 0019	27,40

7168

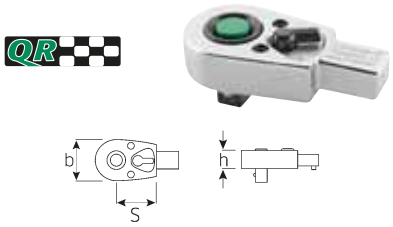


Snap-in ring tool

Wr. width mm	b mm	h mm	S mm	art.no.	€
7	13	8	17.5	**702786** 0007	30,20
8	14.2	8	17.5	702786 0008	29,40
10	17.2	9	17.5	702786 0010	29,50
11	18.5	9	17.5	702786 0011	30,20
12	20.5	11	17.5	702786 0012	30,20
13	21.5	11	17.5	702786 0013	29,50
14	22.5	11	17.5	702786 0014	30,20
15	24.5	12	17.5	702786 0015	29,40
16	26	12	17.5	702786 0016	29,50
17	27	13	17.5	702786 0017	29,50
18	28	13	17.5	702786 0018	29,50
19	30.5	13	17.5	702786 0019	29,50
21	33	15	17.5	702786 0021	30,90
22	34.5	15	17.5	702786 0022	29,50

7168

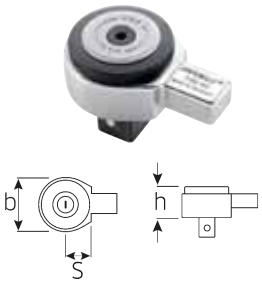
QuickRelease snap-in ratchet



Drive	b mm	h mm	S mm	art.no.	€
1/4″	22	13.8	17.5	**702768** 0001	79,–
3/8″	29	18	28	702768 0002	79,50
1/2″	29	18	28	702768 0003	84,50

7168

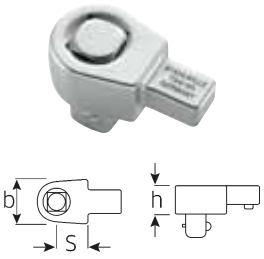
Fine-toothed snap-in ratchet, reversible, 60 teeth



Drive	b mm	h mm	S mm	art.no.	€
3/8″	33	24	17.5	**702772** 0001	67,–
1/2″	33	24	17.5	702772 0002	69,–

7168

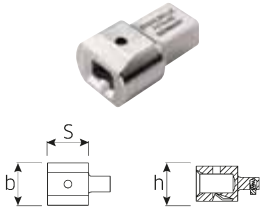
Square snap-in tool



Drive	b mm	h mm	S mm	art.no.	€
1/4″	20	14	17.5	**702775** 0001	28,–
3/8″	20	14	17.5	702775 0002	28,–
1/2″	20	14	17.5	702775 0003	28,60

7168

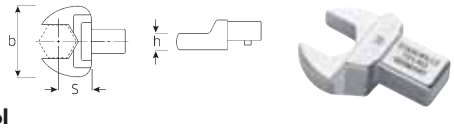
QuickRelease snap-in adapter



Description	b mm	h mm	S mm	art.no.	€
9 x 12 mm to 14 x 18 mm	31	26	30.5	**702801** 0001	46,40

7168

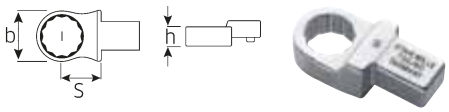
STAHLWILLE Snap-in tools, 14 x 18 mm



Open-end snap-in tool

Wr. width mm	b mm	h mm	S mm	art.no.	€
13	30	7	25	**702782** 0013	31,80
14	35	8	25	702782 0014	32,60
15	35	8	25	702782 0015	35,10
16	38	9	25	702782 0016	32,30
17	38	9	25	702782 0017	31,–
18	42	10	25	702782 0018	32,30
19	42	10	25	702782 0019	31,–
21	50	11	25	702782 0021	38,30
22	50	11	25	702782 0022	37,60
24	53	12	25	702782 0024	37,60
25	53	12	25	702782 0025	42,30
27	60	13	30	702782 0027	37,60
30	66	14	30	702782 0030	42,–
32	66	14	32.5	702782 0032	42,–
34	66	14	32.5	702782 0034	47,30
36	74	15	32.5	702782 0036	47,30
38	74	15	32.5	702782 0038	48,60
41	82	15	36.5	702782 0041	47,30

7168



Snap-in ring tool

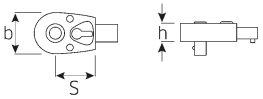
Wr. width mm	b mm	h mm	S mm	art.no.	€
13	22.5	11	25	**702788** 0013	31,90
14	23	11	25	702788 0014	31,90
15	24	11	25	702788 0015	32,60
16	25.5	12	25	702788 0016	31,90
17	27	12	25	702788 0017	31,90
18	29	13	25	702788 0018	31,90
19	30.5	13	25	702788 0019	31,90
21	33	15	25	702788 0021	38,–
22	34.5	15	25	702788 0022	38,–
24	37.5	15	25	702788 0024	38,–
27	42.5	17	25	702788 0027	38,–
28	45.5	19	25	702788 0028	45,90
30	46	19	25	702788 0030	42,90
32	47.5	19	25	702788 0032	42,90
34	52	19	28	702788 0034	47,30
36	54	19	28	702788 0036	47,30
41	60	20	30	702788 0041	47,30

7168

QuickRelease snap-in ratchet

Drive	b mm	h mm	S mm	art.no.	€
1/2"	41	22.3	38.5	**702768** 0004	87,50

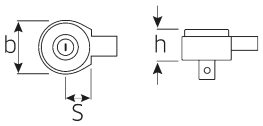
7168



Fine-toothed snap-in ratchet

Drive	b mm	h mm	S mm	art.no.	€
1/2"	43	26	25	**702772** 0003	71,–
3/4"	50	31.5	25	702772 0004	104,–

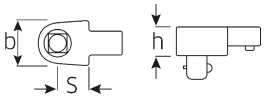
7168



Square snap-in tool

Drive	b mm	h mm	S mm	art.no.	€
1/2"	27	18	25	**702775** 0004	31,10
3/4"	40	25	25	702775 0005	51,–

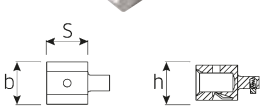
7168



QuickRelease snap-in adapter

Description	b mm	h mm	S mm	art.no.	€
Adapter, 14 x 18 mm to 9 x 12 mm	28	21	21.5	**702801** 0002	74,50

7168



Gripping tweezers

- **Made from stainless steel**

Individual

Design	Length mm	art.no.	€
Pointed tweezers	115	**711016** 0001	8,95
Reverse-action tweezers	120	711016 0002	8,95
Flat-tip tweezers	110	711016 0003	8,95
Pointed tweezers, bent	120	711016 0004	8,95
		7112	

711016 0001

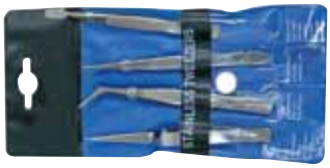
711016 0002

711016 0003

711016 0004

Set

Description	art.no.	€
Set with 4 pairs of tweezers in a plastic pouch	**711017** 0040	35,80
	7112	


711017 0040

ATORN® Knife

Description	art.no.	€
Stainless steel blade with serrated edge, non-slip, blade locking button	**711001** 0115	12,50
Stainless steel blade with 2 notches, non-slip, locking blade	711001 0116	13,50
	7129	

711001 0115

711001 0116

JOKARI® Cable knife

- For slitting and stripping

for cable Ø mm	art.no.	€
8 - 28	**711010** 0828	20,20
	7129	

JOKARI® Stripper

- For stripping NYM cables with Ø 8-15 mm, as well as 1.5 + 2.5 mm²
- For right-handed and left-handed users
- Stranded wire stripping length always 11 mm

L mm	Ø mm	art.no.	€
130	40	**710555** 0013	22,80
		7129	

ATORN® Utility knife

- Extremely robust and smooth
- Ergonomically shaped full metal casing with stainless steel blade guide

711032 0009

711032 0018

Description	art.no.	€
Utility knife, auto-lock mechanism, 9 mm blade	**711032** 0009	9,50
Utility knife, locking cog, 18 mm blade	711032 0018	14,95
	7129	

Utility knife

- Metal blade guide
- Locking button

711025 0009

711025 0018

Description	art.no.	€	10 spare blades art.no.	€
Utility knife, 9 mm, incl. 1 blade	**711025** 0009	5,–	**711026** 0009	3,97
Utility knife, 18 mm, incl. 3 blades	711025 0018	8,10	711026 0018	4,09
	7129		7129	

felo Utility knife

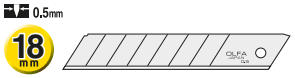
NEW · NUOVO · NY · NOUVEAU · NUEVO

Utility knife with 2-component handle

- X-design handle made of fibreglass-reinforced polypropylene with non-slip elastomer
- Acid and acetone-resistant
- Steel arbour for opening paint cans
- Very high cutting force
- Suitable for leather, rubber, rope and fibreglass

Description	art.no.	€
Utility knife, 18 mm, incl. 1 blade	**711033** 0002	13,40
	7112	

Spare blades



711034 0011

711034 0012

Type	Description	art.no.	€
LB-10	Single spare blade	**711034** 0011	6,95
LBB-10	Ultra-sharp spare blade	711034 0012	6,95
		7112	

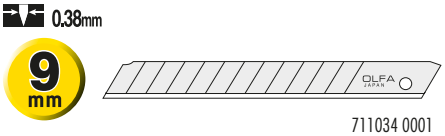
Utility knife 180, black

- All-purpose metal knife with holding clip
- Excellent grip thanks to slider with grooved structure
- Very sharp cutting edge
- Suitable for paper, leather, cardboard, film

Description	art.no.	€
Utility knife, 9 mm, incl. 1 blade	**711033** 0001	4,60
	7112	

Spare blades

711034 0002



711034 0001

Type	Description	art.no.	€
AB-10B	Single spare blade	**711034** 0001	4,85
ABB-10B	Ultra-sharp spare blade	711034 0002	4,85
		7112	

Cut-proof gloves

- **Good cutting protection, breathable**
- **Outstanding comfort**

Page 90-52

TURNUS All-purpose shears

- Straight cutting edge, stainless steel
- With 2-component handle
- Ideal for thin sheet metal, plastics, leather, paper etc.

L mm	art.no.	€
140	**711021** 0140	13,95
190	711021 0190	14,95
	7132	

Snips

Hand snips

- Berlin-type, made from die-forged special steel
- Induction-hardened cutting edges, suitable for stainless steel

Total length mm	art.no.	€
250	**712005** 0250	15,30
300	712005 0300	18,70
	7132	

Straight cutting snips

- Hardened die-forged cutting edges
- For straight cuts

712010 0001

712010 0002

Design	Total length mm	art.no.	€
Right-hand cutting	245	**712010** 0001	25,50
Left-hand cutting	245	712010 0002	25,50
		7132	

Circular cutting snips

- For curved cuts, short and long cuts
- For sheet metal up to 1.8 mm
- Forged steel cutting head
- Handle with PVC coating

Design	Total length mm	art.no.	€
Right-hand	230	**712015** 0001	37,50
Left-hand	230	712015 0002	37,50
		7132	

Bolt cutter

- Specially constructed for hard steel up to 162 kp/mm²
- Tensile strength 1,620 N/mm²

Total length mm	Bolt cutters art.no.	€	Spare heads art.no.	€
490	**712020** 0470	43,50	**712025** 0470	20,40
640	712020 0630	56,50	712025 0630	28,10
940	712020 0900	110,–	712025 0900	36,70
	7132		7132	

ATORN® Pliers

DIN ISO 5745 | DIN ISO 5749 | DIN ISO 5746 | DIN ISO 5748 | DIN ISO 8976

- Chrome vanadium steel
- Handle PVC-coated, joint polished or with 2-component (2K) covering, high-gloss polished, chrome-plated

Flat-nose pliers with short jaws

- DIN ISO 5745

Total length mm	PVC dipped handle art.no.	€	2K handle art.no.	€
140	**710498** 0140	9,50		
160	710498 0160	9,90	**710499** 0160	12,40
	7130		7130	

Flat-nose pliers with long jaws

- DIN ISO 5745

Total length mm	PVC dipped handle art.no.	€	2K handle art.no.	€
140	**710501** 0140	11,35		
160	710501 0160	11,95	**710505** 0160	14,65
	7130		7130	

Radio or telephone pliers (needle-nose pliers) with cutting edge

- DIN ISO 5745

Total length mm	PVC dipped handle art.no.	€	2K handle art.no.	€
140	**710520** 0140	11,35		
160	710520 0170	11,55	**710525** 0170	16,10
200	710520 0200	14,45	710525 0200	18,60
	7130		7130	

Radio or telephone pliers (needle-nose pliers) with long handles

- DIN ISO 5745

Total length mm	PVC dipped handle art.no.	€
280	**710526** 0280	18,20
	7130	

Radio or telephone pliers (needle-nose pliers) with cutting edge

- DIN ISO 5749
- 45° angled tip

Total length mm	PVC dipped handle art.no.	€	2K handle art.no.	€
200	**710530** 0200	17,10	**710535** 0200	21,10
	7130		7130	

Radio or telephone pliers (needle-nose pliers) with long handles

- DIN ISO 5745
- 45° angled tip

Total length mm	PVC dipped handle art.no.	€
280	**710536** 0280	20,20
	7130	

Diagonal cutting pliers

- DIN ISO 5749

Total length mm	Design	PVC dipped handle art.no.	€	2K handle art.no.	€
145	Hardened blades for hardened steel wire (piano wire)	**710145** 0145	11,75		
160	Special steel for hardened steel wire (piano wire)	710145 0161	11,75	**710150** 0161	16,70
		7130		7130	

Heavy-duty diagonal cutting pliers

- DIN ISO 5749
- Special steel for hardened steel wire (piano wire)

Total length mm	PVC dipped handle art.no.	€	2K handle art.no.	€
160	**710155** 0160	14,65	**710160** 0160	20,80
180	710155 0180	15,70	710160 0180	23,10
200	710155 0200	17,80	710160 0200	24,40
	7130		7130	

Continued on next page >>>

Combination pliers

- DIN ISO 5746

Total length mm	Design	PVC dipped handle art.no.	€	2K handle art.no.	€
160	With bevels	**710135** 0165	9,50	**710140** 0165	13,–
180	With bevels	710135 0180	9,90	710140 0180	14,25
200	With bevels	710135 0200	11,75	710140 0200	16,70
		7130		7130	

Heavy-duty end cutting pliers

- DINISO 5748
- Made from special steel, for hardened steel wire (piano wire)

Total length mm	PVC dipped handle art.no.	€	2K handle art.no.	€
160	**710185** 0155	19,–	**710190** 0155	21,70
200	710185 0200	21,10	710190 0200	26,40
	7130		7130	

Three-way pliers

- Flat-nose pliers
- Wire-stripping pliers
- Crimping pliers

Total length mm	2K handle art.no.	€
160	**710134** 0160	17,50
	7130	

Water pump pliers GRIPSTAR

- DIN/ISO 8976
- One-handed operation, with box joint, 10 fine adjustment settings
- Chrome vanadium

Total length mm	PVC dipped handle art.no.	€	2K handle art.no.	€
250	**710131** 0250	21,70	**710132** 0250	25,80
	7130		7130	

Water pump pliers, chrome vanadium

- DIN/ISO 8976
- With integrated groove joint and pinch guard
- Chrome vanadium

Total length mm	2K handle art.no.	€
250	**710130** 0245	19,95
	7130	

Pliers set

- 4 pcs. in a plastic case

Contents	art.no.	€
Combination pliers, 180 mm, 2-K handle (710140 0180); radio or telephone pliers, 160 mm, 2-K handle (710525 0170); diagonal cutting pliers, 160 mm, 2-K handle (710150 0161); GRIPSTAR water pump pliers, 250 mm, PVC dipped handle (710131 0250)	**710551** 0004	82,50
	7130	

... maximum material removal rate

ATORN®
High quality for great performance

wiha Water pump pliers

- Simple, automatic setting of the inserted, finely-graduated joint
- Quick adjustment of the opening width, particularly in ever-changing applications
- For fast, optimum gripping and holding of pipes, as well as square profiles such as hexagonal nuts during installation works
- **Professional model:** durable, chrome-plated pliers, resistant to rust

710723 0001

710723 0002

model	Total length mm	art.no.	€
Classic	250	**710723** 0001	28,95
Professional	250	710723 0002	36,50

7113

ATORN® Water pump pliers

DIN ISO 8976

- Chrome vanadium steel
- With slip box joint and safety pinch guard
- Self-clamping on the workpiece, saving effort and providing a non-slip grip

Total length mm	Standard art.no.	€
175	**710110** 0180	11,80
240	710110 0240	12,75
300	710110 0300	18,95

7130

KNIPEX Pliers

DIN ISO 5746 | DIN ISO 5745 | DIN ISO 5749 | DIN ISO 5743 | DIN ISO 8976

Combination pliers

- DIN ISO 5746
- Cutting edges for hard and soft wire, long cutting edges for thicker cables
- Oil-hardened special tool steel, polished head, cutting edges induction-hardened to approx. 60 HRc

Total length mm	2K handle art.no.	€
160	**710601** 0160	13,15
180	710601 0180	13,40
200	710601 0200	15,40

7131

Wire-stripping pliers

- Grub screw for adjusting to the desired wire or stranded wire ∅
- Special tool steel, oil-hardened with polished head

Total length mm	Design	2K handle art.no.	€
160	With opening spring; for stranded wires up to max. 5 mm in diameter or 10 mm²	**710602** 0160	17,30

7131

Electrician's pliers

- For gripping and bending wires
- Precision wire-stripping holes and cutting edges
- Oil-hardened special tool steel, polished head, cutting edges induction-hardened to approx. 60 HRc

Total length mm	Handle	Crimping of wire-end sleeves mm²	2K handle art.no.	€
160	2K handle	0.5-0.75/1.5/2.5	**710603** 0160	27,40

7131

Needle-nose pliers with cutting edge (stork beak pliers)

- DIN ISO 5745
- High-strength, resilient precision tips, toothed jaws
- Oil-hardened vanadium electric steel, polished head, cutting edges induction-hardened to approx. 61 HRc

710604 0200

Continued on next page >>>

710605 0200

Total length mm	Design	2K handle art.no.	€
200	Straight jaws	**710604** 0200	19,10
200	40° angled jaws	710605 0200	21,10

7131

Diagonal cutting pliers

- DIN ISO 5749
- For hard and soft wires
- Vanadium electrical steel, polished head, cutting edges induction-hardened to approx. 62 HRc

Total length mm	2K handle art.no.	€
140	**710606** 0140	16,20
160	710606 0160	16,60
180	710606 0180	17,80
	7131	

Compact bolt cutters CoBolt

- Particularly high cutting capacity with low force application
- Oil-hardened chrome vanadium high-performance steel, cutting edges induction-hardened to approx. 64 HRc

Total length mm	Plastic dipped handle art.no.	€	2K handle art.no.	€
200	**710610** 0200	29,–	**710611** 0200	31,–
	7131		7131	

Heavy-duty diagonal cutting pliers

- Forged joint axle to withstand the toughest strains
- High cutting capacity with low force application
- Oil-hardened chrome vanadium high-performance steel, cutting edges induction-hardened to approx. 64 HRc

Total length mm	2K handle art.no.	€
140	**710612** 0140	19,60
160	710612 0160	20,10
180	710612 0180	22,20
200	710612 0200	23,70
250	710612 0250	28,30
	7131	

Pliers wrench

- Pliers and a wrench combined in one tool
- Parallel smooth gripper jaws, box joint
- Quick adjustments at the push of a button, 10:1 force transmission

Total length mm	Wr. width mm	Plastic dipped handle art.no.	€	2K handle art.no.	€
150	27	**710620** 0150	38,90	**710621** 0150	41,90
180	35	710620 0180	39,90	710621 0180	42,30
250	46	710620 0250	45,70	710621 0250	49,–
300	60	710620 0300	55,–		
		7131		7131	

Cobra water pump pliers, patented

- DIN ISO 8976
- Box joint, quick to adjust at the push of a button, one-handed adjustment, pinch guard
- Oil-hardened chrome vanadium electrical steel, jaws with special hardened teeth, approx. 63 HRc

Total length mm	for pipe Ø in	for nut wr. width mm	Plastic dipped handle art.no.	€
125	1″	27	**710623** 0125	18,10
150	1 1/4″	30	710623 0150	18,60
180	1 1/2″	36	710623 0180	19,60
250	2″	46	710623 0250	20,90
300	2 3/4″	60	710623 0300	28,90
400	3 1/2″	95	710623 0400	50,50
560	4 1/2″	120	710623 0560	84,–
			7131	

Pliers set

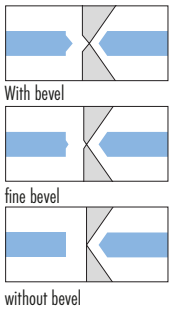
- Assembly package
- 3-pcs.

Contents	art.no.	€
Combination pliers, 180 mm, 2-K handle (710601 0180); needle-nose pliers, 200 mm, 2-K handle (710604 0200); diagonal cutting pliers, 160 mm, 2-K handle (710606 0160)	**710600** 2011	49,–
	7131	

ATORN® Electronic pliers

- Very robust and wear-resistant model
- Hardened blades with up to 65° HRC
- All models with ergonomic ESD-2K handle, minimises fatigue when working
- **Not** suitable for working under electrical voltage
- Materials used meet all of the requirements for ESD protection
- **Bevel:** for hard and soft wires, universal, robust, long-lasting
- **Fine bevel:** for a virtually flush cut and low protrusions, for soft steel wires, copper wires
- **Without bevel:** for a flush cut, reduces undesired pressure for sensitive components, for copper wires

Additional models available on request



Diagonal cutting pliers

Total length mm	Design	art.no.	€
120	Pointed head, fine bevel	**711516** 3122	35,–
125	Pointed head, bevel	711516 3221	33,–
125	Pointed head, fine bevel	711516 3222	33,–
125	Pointed head, without bevel	711516 3223	33,80
125	Oval head, bevel	711516 3201	31,80
125	Oval head with wire clamps, bevel	711516 3211	36,60
140	Oval head, bevel	711516 3301	35,80
		7130	

711516 3122

711516 3211

Oblique cutter

Total length mm	Design	art.no.	€
120	Straight head, fine bevel	**711517** 3512	39,20
		7130	

Tail cutter

Total length mm	Design	art.no.	€
130	Narrow jaws, fine bevel	**711518** 3522	40,80
		7130	

Needle-nose pliers, straight

Total length mm	Design	art.no.	€
130	Short jaws, without thrust	**711510** 4211	27,–
		7130	

Needle-nose pliers, bent

Total length mm	Design	art.no.	€
130	Curved, short jaws, without thrust	**711506** 4213	29,40
		7130	

Flat-nose pliers

Total length mm	Design	art.no.	€
130	Short jaws, without thrust	**711519** 4221	27,–
		7130	

Round-nose pliers

Total length mm	Design	art.no.	€
130	Short jaw, without thrust	**711521** 4231	27,80
		7130	

ATORN® VDE pliers

DIN ISO 5745 | DIN ISO 5749 | DIN ISO 5746

- **Specially tailored to the strict safety guidelines of IEC 900, DIN EN 60900 and VDE 0680/ Part 2**
- Chrome vanadium steel
- High-gloss polished, chrome-plated
- Directly sprayed 1,000 V insulating handles

VDE flat-nose pliers with long jaws

- DIN ISO 5745

Total length mm	Insulated handle art.no.	€
160	**711036** 0160	18,40

7130

VDE round-nose pliers with long jaws

- DIN ISO 5745

Total length mm	Insulated handle art.no.	€
160	**711038** 0160	18,40

7130

VDE radio or telephone pliers (needle-nose pliers)

- DIN ISO 5745
- With cutting edge

Total length mm	Insulated handle art.no.	€
160	**711050** 0170	17,50
200	711050 0200	21,10

7130

VDE radio or telephone pliers (needle-nose pliers)

- DIN ISO 5745
- With cutting edge
- 45° angled tip

Total length mm	Insulated handle art.no.	€
200	**711055** 0200	23,90

7130

VDE diagonal cutting pliers

- DIN ISO 5749

Total length mm	Insulated handle art.no.	€
140	**711045** 0140	18,40
160	711045 0160	19,–

7130

VDE heavy-duty diagonal cutting pliers, made from special steel

- DIN ISO 5749

Total length mm	Insulated handle art.no.	€
200	**711039** 0200	26,40

7130

VDE combination pliers

- DIN ISO 5746

Total length mm	Insulated handle art.no.	€
160	**711040** 0160	16,10
180	711040 0180	17,10
200	711040 0200	19,40

7130

VDE wire-stripping pliers

- With grub screw and opening spring, for cables and stranded wires up to Ø 5 mm

Total length mm	Insulated handle art.no.	€
160	**711060** 0160	19,20

7130

VDE pliers set in a plastic case

- 4 pcs.

Contents	art.no.	€
VDE combination pliers, 180 mm (711040 0180); VDE radio or telephone pliers, 200 mm (711050 0200); VDE diagonal cutting pliers, 160 mm (711045 0160); VDE wire-stripping pliers, 160 mm (711060 0160)	**711061** 0004	81,50

7130

KNIPEX VDE pliers

DIN ISO 5746 | DIN ISO 5745 | DIN ISO 5749

VDE-tested, 1000 V

VDE combination pliers

- DIN ISO 5746
- Cutting edges for hard and soft wire, long cutting edges for thicker cables
- Oil-hardened special tool steel, chrome-plated head, cutting edges induction-hardened to approx. 60 HRc

711100 0180

Total length mm	VDE 2K handle art.no.	€
160	**711100** 0160	18,20
180	711100 0180	19,70
200	711100 0200	22,–

7131

VDE wire-stripping pliers

- Grub screw for adjusting to the desired wire or stranded wire Ø,
- Special tool steel, oil-hardened with chrome-plated head

Total length mm	Design	VDE 2K handle art.no.	€
160	With opening spring; for stranded wires up to max. 5 mm in diameter or 10 mm²	**711101** 0160	22,80

7131

VDE needle-nose pliers with cutting edge (stork beak pliers)

- DIN ISO 5745
- High-strength, resilient precision tips, toothed jaws
- Vanadium electrical steel, oil-hardened, chrome-plated head, cutting edges induction-hardened to approx. 59 HRc

711012 0200

711103 0200

Total length mm	Design	VDE 2K handle art.no.	€
200	Straight jaws	**711012** 0200	24,80
200	40° angled jaws	711103 0200	27,90

7131

VDE diagonal cutting pliers

- DIN ISO 5749
- For hard and soft wires
- Vanadium electrical steel, chrome-plated head, cutting edges induction-hardened to approx. 62 HRc

Total length mm	VDE 2K handle art.no.	€
140	**711104** 0140	20,90
160	711104 0160	22,50
180	711104 0180	24,20

7131

VDE heavy-duty diagonal cutting pliers

- DIN ISO 5749
- Forged joint axle to withstand the toughest strains
- High cutting capacity with low force application,
- oil-hardened chrome vanadium high-performance steel, cutting edges induction-hardened to approx. 64 HRc

711105 0200

Total length mm	VDE 2K handle art.no.	€
160	**711105** 0160	27,50
180	711105 0180	29,70
200	711105 0200	31,50
250	711105 0250	40,30

7131

VDE pliers set

- Electro package
- 3-pcs.

Contents	art.no.	€
VDE combination pliers, 180 mm, 2-K handle (711100 0180); VDE needle-nose pliers, 200 mm, 2-K handle (711102 0200); VDE diagonal cutting pliers, 160 mm, 2-K handle (711104 0160)	**710600** 2012	67,–

7131

wiha Installation pliers TriCut Professional electric

- Manufactured in accordance with IEC 60900:2012
- **With three functions: Cutting, cable stripping, wire stripping**
- Low-wear inlaid joint with heavy-duty riveting
- Diagonal cutting pliers with durable cutting edges thanks to additional induction hardening to approx. 64 HRc
- Ergonomic and energy-saving cable and wire stripping with both cable and pliers in a lengthways alignment thanks to the special offset head
- High-quality tool steel, C70, specially hardened and tempered
- For working on conductive parts up to 1,000 V AC

Total length mm	art.no.	€
170	**711046** 0170	36,50
	7110	

ATORN® Pincers (end nippers)

DIN ISO 9243 A

- Special tool steel, oil-hardened
- Polished head
- Black phosphate-treated handle, or with PVC-coated handle and a striking surface on one side

Total length mm	Black art.no.	€	PVC art.no.	€
160	**710100** 0160	9,70		
180	710100 0180	9,50	**710101** 0180	11,15
200	710100 0210	9,90	710101 0210	11,95
250	710100 0250	13,20		
	7130		7130	

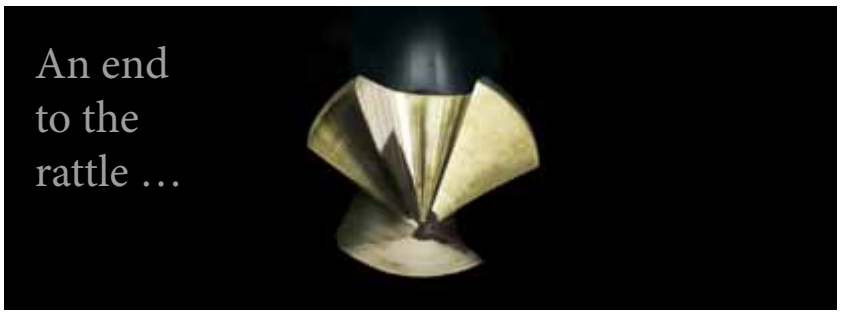
With lateral striking surface

Mechanic's nippers

DIN 9242

- **Tower pincers, rabbit pincers, mechanic's nippers**
- For attaching, twisting and cutting tie-wire when working with steel mesh
- Smooth operation and precise cutting
- For soft and hard wires

Total length mm	art.no.	€
220	**710105** 0220	10,45
250	710105 0250	11,65
280	710105 0280	13,05
	7130	



… caused by uneven divisions

ATORN®
High quality for great performance

ATORN® Corner pipe wrench

DIN 5234

- Chrome vanadium steel, forged and powder-coated
- Double T-profile wrench lever
- Induction-hardened jaws
- Teeth offset against the direction of rotation
- Reinforced clamp
- Adjusting nut locking mechanism

45° angled jaw

for pipe Ø in	Total length mm	Jaw aperture mm	art.no.	€
1"	320	0 - 42	**712001** 0010	28,90
1 1/2"	430	0 - 60	712001 0015	40,50
2"	570	0 - 70	712001 0020	58,50
			7130	

90° angled jaw

for pipe Ø in	Total length mm	Jaw aperture mm	art.no.	€
1"	310	0 - 42	**712002** 0010	25,50
1 1/2"	420	0 - 60	712002 0015	37,40
2"	560	0 - 70	712002 0020	55,–
			7130	

S-jaw head

for pipe Ø in	Total length mm	Jaw aperture mm	art.no.	€
1"	315	0 - 42	**712011** 0010	26,30
1 1/2"	420	0 - 60	712011 0015	35,40
2"	530	0 - 70	712011 0020	59,–
			7130	

ATORN® Locking pliers, adjustable

- Wide span thanks to the adjustable lower jaw
- For holding profiles, flat materials and pipes securely
- Toothed gripper jaws, sturdy body
- **Material:** Chrome vanadium steel gripper jaws

4-position quick adjustment

L mm	Clamp Ø mm	art.no.	€
250	80 / 100	**712500** 0250	43,70
		7133	

Clamping pliers

Long-nose clamping pliers

- With wire cutter
- For universal applications
- Extremely suitable for working in confined areas that are hard to access
- Micro adjusting screw for precise clamping to control jaw movement

Total length mm	Clamping jaw thickness mm	Clamping jaw width mm	art.no.	€
170	5 - 12	57 - 25	**712501** 0150	18,–
210	6 - 14	76 - 44	712501 0230	25,70
			7133	

Locking pliers with angled jaws

- With wire cutter for wire gauges up to 6.5 mm

Total length mm	Clamping jaw thickness mm	Clamping jaw width mm	art.no.	€
135	9	32	**712505** 0130	10,80
190	12	41	712505 0180	13,30
230	13	48	712505 0250	17,70
			7133	

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Locking pliers with straight jaws

- For universal applications

Total length mm	Clamping jaw thickness mm	Clamping jaw width mm	art.no.	€
225	17	38	**712510** 1250	17,70
			7133	

C-type clamping pliers

- For clamping work, high clamping force

Total length mm	Clamp Ø mm	Projection mm	art.no.	€
280	17	65	**712515** 0280	31,10
			7133	

C-type clamping pliers with movable jaws

- For clamping work on particularly sensitive surfaces
- High clamping force

Total length mm	Clamp Ø mm	Projection mm	art.no.	€
180	0-50	35	**712520** 0150	26,80
280	0-95	65	712520 0280	36,10
			7133	

Special locking pliers

- For all sheet metal work
- For gripping, bending, folding, moulding, riveting, soldering etc.

Total length mm	Clamp Ø mm	Clamping jaw depth mm	art.no.	€
210	80	44	**712525** 0200	31,70
			7133	

Welder's grip pliers

- Clamps ultra-thin parts
- Great freedom of movement due to the possibility of one-handed use
- Long-reach clamping jaws
- Extensive visibility and working space

Total length mm	Jaw aperture mm	art.no.	€
225	40	**712535** 0230	25,40
		7133	

...suggestions are heard.

ATORN®
High quality for great performance

ATORN® Circlip pliers

DIN 5254 B | DIN 5256 C | DIN 5256 D | DIN 5254 A

- Chrome vanadium steel, polished joint
- PVC-coated handle

External pliers, tips angled 90°, type B

- DIN 5254 B

Type	for external fixture Ø mm	Total length mm	PVC dipped handle art.no.	€
A01	3 - 10	139	**711555** 1001	11,15
A11	10 - 25	140	711555 1011	10,75
A21	19 - 60	180	711555 1021	11,55
A31	40 - 100	225	711555 1031	13,–
A41	85 - 140	310	711555 1041	22,70
			7130	

Internal pliers, straight tips, type C

- DIN 5256 C

Type	for interior securing Ø mm	Total length mm	PVC dipped handle art.no.	€
J0	8 - 13	139	**711560** 2000	9,10
J1	12 - 25	140	711560 2001	9,10
J2	19 - 60	180	711560 2002	9,50
J3	40 - 100	225	711560 2003	11,55
J4	85 - 140	310	711560 2004	19,40
			7130	

Internal pliers, tips angled 90°, type D

- DIN 5256 D

Type	for interior securing Ø mm	Total length mm	PVC dipped handle art.no.	€
J01	8 - 13	139	**711565** 3010	9,90
J11	12 - 25	140	711565 3011	9,90
J21	19 - 60	180	711565 3021	10,30
J31	40 - 100	225	711565 3031	12,20
J41	85 - 140	310	711565 3041	21,10
			7130	

External pliers, straight tips, type A

- DIN 5254 A

Type	for external fixture Ø mm	Total length mm	PVC dipped handle art.no.	€
A0	3 - 10	139	**711550** 0000	10,30
A1	10 - 25	140	711550 0001	9,50
A2	19 - 60	180	711550 0002	10,55
A3	40 - 100	225	711550 0003	12,40
A4	85 - 140	310	711550 0004	21,50
			7130	

Circlip pliers sets

- DIN 5254A/5256C
- For internal and external circlips

Description	Contents	art.no.	€
8-pcs. in box	J1, J2, J11, J21, A1, A2, A11, A21	**710490** 1008	81,50
8-pcs. in a roll-up case	J1, J2, J11, J21, A1, A2, A11, A21	710490 2008	90,–
		7130	

ATORN® Electronic pliers

DIN ISO 9655 | DIN ISO 9654

- Chrome vanadium steel
- Joint surfaces polished and phosphate-treated
- 2-component shell (2K)

Needle-nose electronics pliers, 30° angled tip

- DIN ISO 9655

Total length mm	2K handle art.no.	€
125	**711506** 0125	19,–
	7130	

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Needle-nose electronics pliers, straight

- DIN ISO 9655

Total length mm	2K handle art.no.	€
125	**711510** 2130	18,20
	7130	

Diagonal cutting electronics pliers, made from special steel

- DIN ISO 9654

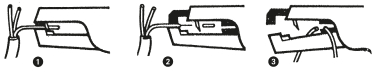
Without blade bevel

With blade bevel

Total length mm	Design	2K handle art.no.	€
112	For hardened steel wire (piano wire)	**711515** 3110	18,20
112	Without blade bevel, for copper wire, diameter 0.5 - 2.0 mm	711515 3111	19,20
112	With retaining spring; for hardened steel wire (piano wire)	711515 3112	21,50
112	With retaining spring, without blade bevel, for copper wire, diameter 0.5 - 2.0 mm	711515 3113	22,70
		7130	

JOKARI Automatic wire-stripping pliers

- External diagonal cutter for wires up to 2.5 mm²
- No need for adjustments to fit the wire gauge


1+2 wire stripping 3 cutting off

Working area mm²	art.no.	€
0.2 - 6.0	**710550** 0180	21,50
	7130	

ATORN® Wire-stripping and cutting tool

- For stripping and cutting fine-stranded and solid wires with PVC insulation
- Clamping jaws open automatically after the stripping process

Working area mm²	art.no.	€
0.08 - 6.0	**710553** 0190	52,50
	7130	

ATORN® Crimping tool

- For PVC and polyamide-insulated connectors
- For cable lugs, pin terminals, parallel and serial connectors, and plug connectors

Working area mm²	art.no.	€
0.5 - 6.0	**710552** 0235	84,–
	7130	

Cable end sleeve/lug set

- Insulated cable-end sleeves and connectors (plastic collars)

Contents	art.no.	€
600 ring terminals, pin terminals, butt connectors and blade receptacles from 0.5 to 6 mm²	**710554** 0001	73,90
2200 cable end sleeves from 0.5 to 16 mm²	710554 0002	93,50
	7130	

ATORN® Cable-end sleeve set

- Cable-end sleeve crimping pliers, 0.5 - 4 mm²with dipped handle covering

Contents	art.no.	€
0.5 / 0.75 / 1.5 / 2.5 mm² insulated cable end sleeves (100 of each) and 4 mm² cable end sleeves (50 units); voltage tester; incl. pliers	**710556** 0001	32,80
	7130	

Chisel

DIN 6453 | DIN 6451 | DIN 7254 B

- Striking head and shank hardened and tempered to 38 - 46 HRc, cutting edge 55 - 58 HRc
- Shank with baked enamel finish, blade and cutting edge blank ground
- **Material:** Chrome vanadium air-hardened steel

Flat chisel, DIN 6453

- Flat oval shank

Length mm	Shank width mm	Shank height mm	Cutting edge width mm	art.no.	€
125	14	9	15	**720101** 0125	3,13
150	17	11	18	720101 0150	4,04
175	20	12	21	720101 0175	4,80
200	23	13	24	720101 0200	6,15
250	23	13	25	720101 0250	6,95
300	23	13	26	720101 0300	7,70

7134

Cross-cut chisel, DIN 6451

- Flat oval shank

Length mm	Shank width mm	Shank height mm	Cutting edge width mm	art.no.	€
125	14	9	5	**720105** 0125	4,04
150	17	11	6	720105 0150	4,68
175	17	11	7	720105 0175	5,15
200	20	12	8	720105 0200	6,35
250	23	13	9	720105 0250	8,55

7134

Masonry chisel, DIN 7254 B

- Octagonal shank

Length mm	Shank width mm	Cutting edge width mm	art.no.	€
200	15	20	**720136** 2016	5,55
300	18	26	720136 3018	6,90
400	18	26	720136 4018	8,35
500	20	28	720136 5020	11,15

7134

Splitting chisel, bodywork chisel

- Flat oval shank

Length mm	Shank width mm	Shank height mm	Cutting edge width mm	art.no.	€
240	26	7	26	**720137** 2413	7,20

7134

Electrician's chisel

- Striking head hardened and tempered
- Shank with baked enamel finish, blade and cutting edge blank ground
- **Material:** Chrome vanadium air-hardened steel

Length mm	Shank width mm	Cutting edge width mm	art.no.	€
250	8	10	720139 2510	3,25
250	10	12	720139 2512	3,98

7134

Tool sets

- 6-piece sets
- Shank with baked enamel finish
- **Material:** Chrome vanadium air-hardened steel

Packaging	Contents	art.no.	€
6-pcs. plastic stand	1x flat chisel, 125 x 10 x 12 mm 1x flat chisel, 150 x 12 x 16 mm 1x cross-cut chisel, 125 x 10 mm 1x centre punch, 120 x 10 mm 1x drift, 120 x 10 x 2 mm 1x drift150 x 12 x 4 mm	**720135** 0006	18,20
6-pcs. metal cartridge	1x flat chisel, 125 x 10 x 12 mm 1x flat chisel, 150 x 12 x 16 mm 1x cross-cut chisel, 125 x 10 mm 1x centre punch, 120 x 10 mm 1 drift, 120 x 10 x 2 mm 1 drift, 150 x 12 x 4 mm	720135 1006	23,30

7134

720135 0006

720135 1006

Centre punch

DIN 7250

- Octagonal
- Impact-resistant head, shank with baked enamel finish
- **Material:** Chrome vanadium air-hardened steel

Length mm	Shank Ø mm	art.no.	€
100	8	**720110** 1008	1,42
120	10	720110 1209	1,54
120	12	720110 1210	1,77
150	12	720110 1211	1,90

7134

ATORN® Wad punches

DIN 7200 A

- Conical relief, head ground and polished, baked enamel finish
- **Material:** Die-forged special steel

Individual

Ø mm	art.no.	€
2	**720112** 0002	4,05
3	720112 0003	4,05
4	720112 0004	4,05
5	720112 0005	4,05
6	720112 0006	4,05
7	720112 0007	4,05
8	720112 0008	4,30
9	720112 0009	4,45
10	720112 0010	4,75
11	720112 0011	5,40
12	720112 0012	6,15

7134

Ø mm	art.no.	€
13	720112 0013	6,55
14	720112 0014	7,10
15	720112 0015	7,85
16	720112 0016	8,50
17	720112 0017	9,25
18	720112 0018	9,80
19	720112 0019	10,15
20	720112 0020	11,35
21	720112 0021	12,15
22	720112 0022	13,10
23	720112 0023	13,55

7134

Ø mm	art.no.	€
24	720112 0024	14,05
25	720112 0025	16,50
26	720112 0026	17,40
27	720112 0027	18,10
28	720112 0028	20,80
29	720112 0029	21,50
30	720112 0030	21,70
31	720112 0031	23,10
32	720112 0032	23,80
33	720112 0033	24,40
34	720112 0034	25,–

7134

Ø mm	art.no.	€
35	720112 0035	25,80
40	720112 0040	36,50
42	720112 0042	46,30
44	720112 0044	47,30
46	720112 0046	48,80
48	720112 0048	51,–
50	720112 0050	54,50
55	720112 0055	88,–
60	720112 0060	120,–
65	720112 0065	132,–
70	720112 0070	189,–

7134

Sets

Packaging	Contents	art.no.	€
9-pcs. roll-up case	3, 5, 7, 9, 11, 13, 15, 17, 19 mm (1 of each)	**720113** 0119	54,90
15-pcs. roll-up case	2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30 mm (1 of each)	720113 0109	149,–
19-pcs. roll-up case	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20 mm (1 of each)	720113 0115	119,–

7134

Drift

DIN 6458

- Octagonal
- Impact-resistant head, shank with baked enamel finish
- **Material:** Chrome vanadium air-hardened steel

Length mm	Shank Ø mm	Point Ø mm	art.no.	€
120	10	1	**720125** 0001	1,52
120	10	2	720125 0002	1,52
120	10	3	720125 0003	1,52
120	10	4	720125 0004	1,52
120	10	5	720125 0005	1,52
120	10	6	720125 0006	1,52
120	12	7	720125 0007	1,69
120	12	8	720125 0008	1,69
120	12	10	720125 0010	1,69

7134

720130 0006

720130 1006

Sets

- DIN 7255

Packaging	Contents	art.no.	€
6-pcs. plastic stand	1 drift in each size: 120 x 10 x 1, 2, 3, 4, 5 mm; 1 centre punch, 120 x 10 mm	**720130** 0006	12,–
6-pcs. metal cartridge	120 x 12 x 1 mm and 120 x 10 x 2, 3, 4, 5 mm drifts (1 of each); 1 centre punch, 120 x 10 mm	720130 1006	21,–

7134

Pin punch

DIN 6450C

- Octagonal
- Impact-resistant head, shank with baked enamel finish, driving surface blank ground
- **Material:** Chrome vanadium air-hardened steel

Length mm	Shank Ø mm	Point Ø mm	art.no.	€
150	10	2	**720115** 0002	2,15
150	10	2.5	720115 0025	2,15
150	10	3	720115 0003	2,05
150	10	3.5	720115 0035	2,15
150	10	4	720115 0004	2,05
150	10	4.5	720115 0045	2,15
150	10	5	720115 0005	2,–
150	10	6	720115 0006	2,–
150	12	7	720115 0007	2,25
150	12	8	720115 0008	2,25
150	12	10	720115 0010	2,25
150	14	12	720115 0012	2,70

7134

720120 0006

720120 1006

Sets

Shank Ø mm	Packaging	Contents	art.no.	€
10	6-pcs. plastic stand	3, 4, 5, 6, 7, 8 mm (1 of each)	**720120** 0006	15,30
10	6-pcs. metal cartridge	3, 4, 5, 6, 7, 8 mm (1 of each)	720120 1006	20,20

7134

ATORN® Soft face hammer

- Inserts: Cellulose acetate, blue, both sides
- Tough / oil and grease-resistant
- Base body made from high-quality die-cast zinc with impact-resistant handle
- Wooden handle made from seasoned ash
- Ergonomically shaped and painted

Soft face hammer

Head Ø mm	Head length mm	Length mm	Weight g	art.no.	€
25	86	270	240	**720567** 0025	11,40
30	95	280	370	720567 0030	16,20
40	107	325	630	720567 0040	20,20
50	115	340	950	720567 0050	28,40

7116

Inserts

Head Ø mm	art.no.	€
25	**720568** 0025	2,75
30	720568 0030	3,15
40	720568 0040	6,–
50	720568 0050	8,80

7116

ATORN® Soft face hammer, non-rebound

- Replaceable striking heads made from shatter-proof polyurethane
- Shaft made from precision steel tubing, powder-coated
- Ergonomically designed rubber handle
- Hammer body filled with cast iron balls for rebound-free work
- Full impact on metal while protecting joints and muscles by preventing rebound

Soft face hammer

Head Ø mm	Head length mm	Length mm	Weight g	art.no.	€
30	116	351	460	**720565** 0030	27,–
40	126	376	580	720565 0040	30,50
50	136	386	760	720565 0050	40,30

7116

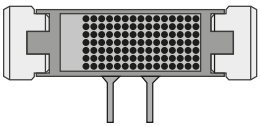
Inserts

Head Ø mm	art.no.	€
30	**720566** 0030	2,98
40	720566 0040	4,17
50	720566 0050	5,45

7116

HALDER SUPERCRAFT soft face hammer, non-rebound

- **Non-rebound, for extremely high impact force**
- Wrist-friendlier than conventional hammers
- Replaceable hammer heads made of special nylon, white, hard
- Very wear-resistant, no chipping, low-noise



With hickory handle

- Vibration-dampened, ergonomically-shaped and painted

Head Ø mm	Head length mm	Length mm	Weight g	art.no.	€
25	105	305	325	**720560** 0025	23,55
30	110	330	460	720560 0030	24,80
35	110	335	560	720560 0035	27,35
40	115	360	715	720560 0040	31,45
50	120	370	990	720560 0050	39,65
60	145	370	1705	720560 0060	68,15
70	150	370	2215	720560 0070	87,10
80	168	380	3210	720560 0080	148,25

7118

With 3-component handle

- Consisting of a fibreglass core with a polypropylene layer and non-slip elastomer layer
- Break-proof

Head Ø mm	Head length mm	Length mm	Weight g	art.no.	€
40	116	370	790	**720571** 0040	43,90
50	120	380	1040	720571 0050	54,20
60	145	390	1625	720571 0060	87,10

7118

Continued on next page >>>

Spare nylon inserts
- Very wear-resistant, no chipping, low-noise, for very high impact

Head Ø mm	art.no.	€
25	**720570** 0025	2,65
30	720570 0030	3,10
35	720570 0035	3,56
40	720570 0040	4,38
50	720570 0050	5,60
60	720570 0060	9,30
70	720570 0070	13,85
80	720570 0080	18,50

7118

HALDER Soft face hammer SECURAL

- **Non-rebound**
- **Rectangular striking surface**
- Formed sheet steel casing
- Ergonomic rubber handle
- Replaceable polyurethane inserts (soft)
- Universal applications
- High safety standard

Description	Weight g	art.no.	€
Head dimensions 30 x 40 mm	700	**720561** 0700	34,10

7118

Spare insert
- Low-noise, dampening, durable

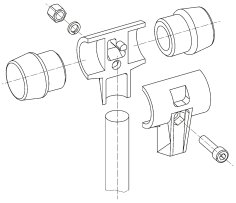
Description	art.no.	€
1 spare insert, 30 x 40 mm	**720562** 0700	3,56

7118

HALDER Soft face hammer SIMPLEX

- Split cast steel housing with high-quality wooden handle
- All individual parts are replaceable

With nylon inserts, white, hard
- Very wear-resistant, no chipping, oil and grease-resistant
- Assembly and repair work (automotive sector), joining workpieces, panel finishing, Panel-beating work, casing assembly, mould-making, assembly of sharp-edged workpieces



Head Ø mm	Head length mm	Length mm	Weight g	art.no.	€
30	90	300	335	**720540** 0030	17,95
40	110	330	610	720540 0040	24,80
50	135	350	1145	720540 0050	38,65
60	145	405	1510	720540 0060	50,30
80	175	490	3090	720540 0080	84,90

7118

With black composite rubber (medium-hard) and red plastic (hard) inserts
- Dampening, wear-resistant, oil and grease-resistant
- Assembly and repair work (automotive sector), joining workpieces, repair and maintenance work, body construction, panel-beating

Head Ø mm	Head length mm	Length mm	Weight g	art.no.	€
30	90	300	340	**720544** 0030	14,55
40	110	330	630	720544 0040	19,65
50	135	350	1150	720544 0050	27,60
60	145	405	1550	720544 0060	35,85

7118

With black composite rubber (medium-hard) and black superplastic (medium-hard) inserts
- Dampening, low-wear, very durable, wear-proof
- Joining workpieces, scaffolding work, servicing, repairs, maintenance

Head Ø mm	Head length mm	Length mm	Weight g	art.no.	€
30	90	300	335	**720572** 0030	15,75
40	110	330	635	720572 0040	21,10
50	135	350	1105	720572 0050	30,–
60	145	405	1510	720572 0060	38,65
80	175	490	2770	720572 0080	70,40

7118

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Spare inserts, individual

Head Ø mm	White nylon, hard art.no.	€	Silver soft metal, hard art.no.	€	Black rubber, medium hard art.no.	€	Red plastic, hard art.no.	€	Superplastic, white, medium-hard art.no.	€
30	**720550** 0030	4,25	**720552** 0030	5,50	**720554** 0030	2,55	**720555** 0030	2,55	**720556** 0030	3,75
40	720550 0040	6,60	720552 0040	7,70	720554 0040	3,35	720555 0040	4,70	720556 0040	6,15
50	720550 0050	11,35	720552 0050	13,05	720554 0050	4,40	720555 0050	7,25	720556 0050	9,65
60	720550 0060	15,50	720552 0060	17,35	720554 0060	6,35	720555 0060	10,20	720556 0060	13,–
80	720550 0080	25,05	720552 0080	30,–	720554 0080	11,15			720556 0080	24,45
	7118		7118		7118		7118		7118	

Spare cast steel housing

- Complete with screw, nut and spring lock washer

Head Ø mm	art.no.	€
30	**720546** 0030	5,90
40	720546 0040	7,90
50	720546 0050	11,40
60	720546 0060	14,50
80	720546 0080	28,80
	7118	

Spare wooden handle

- Vibration-dampened, ergonomically-shaped

for head Ø mm	Length mm	art.no.	€
30	260	**720547** 0030	3,55
40	275	720547 0040	3,70
50	310	720547 0050	4,55
60	335	720547 0060	4,80
80	395	720547 0080	6,–
		7118	

HALDER Multi-function hammer FERROPLEX 2-in-1

- **Engineering hammer and soft face hammer combined**
- Hammer head made from high-quality hardened and tempered steel
- Replaceable nylon insert
- Hammer face carefully hardened and tempered
- Tubular steel shaft made from seamlessly drawn precision steel tubing, securely and permanently attached to the hammer head with a press fitting
- Comfortable rubber handle with damping effect
- Red marking ring clearly identifies the different striking surfaces
- Universally suitable for service and assembly work

Multi-function hammer

Head Ø mm	Head length mm	Length mm	Weight g		art.no.	€
30	104	290	600	A1	**720575** 0030	25,95
35	104	295	800	A2	720575 0035	26,45
					7118	

Spare parts

	art.no.	€
A1	720570 0030	3,10
A2	720570 0035	3,56
	7118	

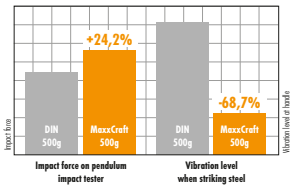
ATORN® 3K engineering hammer

- With unbreakable 3-component handle (aluminium core, polyamide and rubber components)
- Forged protective shaft collar and additional protective shaft sleeve
- Vibration-free and joint-friendly hammering
- Ergonomic and non-slip handling

Weight g	art.no.	€
300	**720506** 0300	18,–
500	720506 0500	20,60
1000	720506 1000	29,10
1500	720506 1500	32,40
2000	720506 2000	41,10
	7116	

HALDER Engineering hammer MaxxCraft

- **Fatigue-free and wrist-friendly working thanks to reduced vibration on impact**
- **Approx. 68 % lower vibration level and approx. 24 % higher strength than with normal engineering hammers**
- Hammer head die-forged, prescribed edge break
- Specially connected hammer head and handle sleeve
- Non-detachable, vibration-resistant unit
- Ergonomically shaped hickory handle



Weight g	Length mm	art.no.	€
300	300	**720563** 0300	19,20
500	320	720563 0500	23,10
800	350	720563 0800	28,95
1000	360	720563 1000	32,60
		7118	

Spare hickory handles

suitable for g	Length mm	art.no.	€
300	265	**720564** 0300	4,63
500	280	720564 0500	5,09
800	305	720564 0800	5,65
1000	310	720564 1000	6,72
		7118	

Engineering hammers

- **DIN 1041**
- Forged hammer head
- Chrome vanadium steel carefully hardened and tempered, black powder-coated
- Face and peen polished, prescribed edge break
- **Hickory handle**
- VPA/GS-tested

Weight g	Stem length mm	**Hickory handle** art.no.	€
100	260	**720501** 0100	5,60
200	280	720501 0200	6,70
300	300	720501 0300	7,70
400	310	720501 0400	8,70
500	320	720501 0500	9,60
800	350	720501 0800	12,75
1000	360	720501 1000	13,95
1500	380	720501 1500	16,70
2000	400	720501 2000	18,80
		7116	

Club hammer

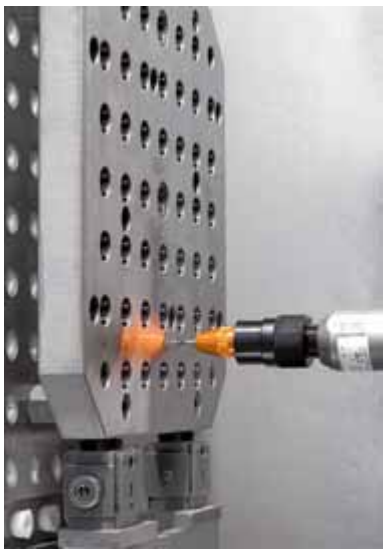
- **DIN 6475**
- Forged hammer head
- Chrome vanadium steel carefully hardened and tempered, black powder-coated
- Faces polished, prescribed edge break
- **Hickory handle**
- VPA/GS-tested

Weight g	Stem length mm	art.no.	€
1000	260	**720530** 1000	8,60
1250	260	720530 1250	9,90
1500	280	720530 1500	10,85
2000	300	720530 2000	13,–
		7116	

CNC marking tool MarkingStar

CNC marking tool

- Process-integrated marking and labelling
- Suitable for marking a wide variety of materials
- Surface is compacted and reinforced, not weakened or damaged
- High level of wear-resistance for a long service life
- Also suitable for thin-walled workpieces
- Burr-free marking line
- High-quality lettering
- Compensates for workpiece unevenness
- Also suitable for marking round surfaces (up to 15°)
- Depending on version, can be used to mark surfaces with a hardness of up to 50 HRc
- Generates no noise
- **Save money – over 75 % less time spent on marking**
- **Note:** The greater the eccentricity and the higher the spindle speed (or the lower the feed rate), the deeper the marking. The rule of thumb for clean lettering is: **Feed (mm/min) x 10 = spindle speed (rpm)**
- Held by Weldon holding fixture or 12 mm collet for the **Slimline** and **Small** versions
- Held by Weldon holding fixture or 20 mm collet for the **Medium**, **Large** and **Extra Large** versions
- Change needles in a flash: The marking needle is pulled out and changed using pliers. This is also an advantage if the needle slips or breaks off



Design	appropriate for	Description	art.no.	€
Slimline	Various materials such as aluminium, titanium, steel, bronze, copper, brass, plastics, etc.	Compensates for workpiece unevenness up to 9 mm	**730010** 0100	410,–
Small	Various materials such as aluminium, titanium, steel, bronze, copper, brass, plastics, etc.	Compensates for workpiece unevenness up to 3 mm	730010 0200	360,–
Medium	Various materials such as aluminium, titanium, steel, bronze, copper, brass, plastics, etc.	Compensates for workpiece unevenness up to 6 mm	730010 0300	519,–
Large	Various materials such as aluminium, titanium, steel, bronze, copper, brass, plastics, etc.	Compensates for workpiece unevenness up to 6 mm	730010 0400	719,–
Extra-large	Uneven and rough surfaces with large lettering and thick lines at a hardness of up to 50 HRC	Compensates for workpiece unevenness up to 7 mm	730010 0500	819,–

7172

730010 0200

730010 0500

Marking needles

- Rolling: Marking by means of material compaction and displacement. This means that the marking is created by the rounded point, which is also referred to as a "ball". The optimum radius of these "balls" varies depending on the material to be marked, the width and depth of the lines, and the size of the lettering
- Swaging: Marking by means of material compaction, displacement and "swaging" as the marking needle rotates. This involves the use of an eccentrically ground needle, which is turned by a spindle to produce a significantly clearer marking than with conventional rolling

appropriate for	Design	Description	r mm	Eccentricity mm	art.no.	€
Slimline	Rolling needle	Very thin lines	0.3	0.0	**730011** 0101	310,–
Slimline	Rolling needle	Thin lines	0.5	0.0	730011 0102	310,–
Small	Rolling needle	Very thin lines	0.3	0.0	730011 0201	310,–
Small	Rolling needle	Thin lines	0.5	0.0	730011 0202	310,–
Medium	Rolling needle	Thin lines	0.5	0.0	730011 0301	310,–
Medium	Rolling needle	Thick lines	1.0	0.0	730011 0302	310,–
Large	Rolling needle	Thin lines	0.5	0.0	730011 0401	310,–
Large	Rolling needle	Thick lines	1.0	0.0	730011 0402	310,–
Large	Swaging needle	Thick and deep lines	1.0	0.1	730011 0403	310,–
Large	Swaging needle	Very thick and deep lines	1.0	0.2	730011 0404	310,–
Large	Swaging needle	Extra-thick and deep lines	1.0	0.3	730011 0405	310,–
Extra-large	Rolling needle	Thin lines	0.5	0.0	730011 0501	310,–
Extra-large	Rolling needle	Thick lines	1.0	0.0	730011 0502	310,–
Extra-large	Swaging needle	Thick and deep lines	1.0	0.1	730011 0503	310,–
Extra-large	Swaging needle	Very thick and deep lines	1.0	0.2	730011 0504	310,–
Extra-large	Swaging needle	Extra-thick and deep lines	1.0	0.3	730011 0505	310,–

7172

PRYOR Interchangeable steel type

- Special steel with precision design
- Suitable for marking steel up to 1,300 N/mm² in strength
- Set consists of 1 hand-held holder and 100 individual steel type pieces
- Several pieces of steel type can be inserted side by side in the holder.
- The precise design of the holder and the steel type produces clean, clear lettering with uniform spacing.
- For labelling name or rating plates as well as tools, machine parts etc.
- **Normal type:** the punched marking is directly legible

A	A	A	B	B	C	C	D	D	E	E	E	E	F	F	G	G	H	H	I
I	I	J	J	K	K	L	L	L	M	M	N	N	N	O	O	O	P	P	Q
R	R	R	S	S	S	T	T	U	U	U	V	W	W	X	X	Y	Z	&	/
/	–	–	.	.	,	,	1	1	1	1	2	2	2	2	3	3	3	4	4
4	4	5	5	5	6	6	6	7	7	7	8	8	8	9	9	9	0	0	0

Set composition (complete sets)

Complete sets with hand-held holders

Typeface height mm	max. support capacity of holder	art.no.	€
1.5	12	**731001** 0015	365,–
2.5	12	731001 0025	375,–
3.0	9	731001 0030	375,–
5.0	8	731001 0050	421,–
6.0	6	731001 0060	769,–
		7140	

Hand-held holder, individual

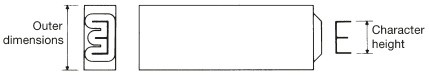
Type	for font height mm	art.no.	€
H3.2-20	1.0 / 1.5	**731010** 1015	91,–
H6.35-29	2.5 / 3.0	731010 2530	101,–
H8.0-39	5.0	731010 0050	110,–
H9.6-40	6.0	731010 0060	260,–
		7140	

Steel type sets

- Prices per set

Typeface height mm	Figures 0 - 9 art.no.	€	Letters A - Z art.no.	€
1.5	**731030** 0200	57,50	**731040** 0200	150,–
2.5	731030 0300	57,50	731040 0300	150,–
3.0	731030 0400	57,50	731040 0400	150,–
5.0	731030 0500	67,50	731040 0500	174,–
6.0	731030 0600	99,50	731040 0600	260,–
	7140		7140	

Font size measurement



1.0mm	234ABC
1.5mm	234ABC
2.0mm	234ABC
2.5mm	234ABC
3.0mm	234ABC
4.0mm	234ABC
5.0mm	234AB
6.0mm	234A
10.0mm	234

Typeface and font size

10 identical steel type pieces

- Unit prices when purchased in PU

Engraving	1.5 mm art.no.	€	2.5 mm art.no.	€	3.0 mm art.no.	€	5.0 mm art.no.	€	6.0 mm art.no.	€
0	10 **731050** 0200	8,10	10 **731050** 0300	8,10	10 **731050** 0400	8,10	10 **731050** 0500	9,10	10 **731050** 0600	13,20
1	10 731050 0201	8,10	10 731050 0301	8,10	10 731050 0401	8,10	10 731050 0501	9,10	10 731050 0601	13,20
2	10 731050 0202	8,10	10 731050 0302	8,10	10 731050 0402	8,10	10 731050 0502	9,10	10 731050 0602	13,20
3	10 731050 0203	8,10	10 731050 0303	8,10	10 731050 0403	8,10	10 731050 0503	9,10	10 731050 0603	13,20
4	10 731050 0204	8,10	10 731050 0304	8,10	10 731050 0404	8,10	10 731050 0504	9,10	10 731050 0604	13,20
5	10 731050 0205	8,10	10 731050 0305	8,10	10 731050 0405	8,10	10 731050 0505	9,10	10 731050 0605	13,20
6	10 731050 0206	8,10	10 731050 0306	8,10	10 731050 0406	8,10	10 731050 0506	9,10	10 731050 0606	13,20
7	10 731050 0207	8,10	10 731050 0307	8,10	10 731050 0407	8,10	10 731050 0507	9,10	10 731050 0607	13,20
8	10 731050 0208	8,10	10 731050 0308	8,10	10 731050 0408	8,10	10 731050 0508	9,10	10 731050 0608	13,20
9	10 731050 0209	8,10	10 731050 0309	8,10	10 731050 0409	8,10	10 731050 0509	9,10	10 731050 0609	13,20
A	10 731050 0220	8,10	10 731050 0320	8,10	10 731050 0420	8,10	10 731050 0520	9,10	10 731050 0620	13,20
B	10 731050 0221	8,10	10 731050 0321	8,10	10 731050 0421	8,10	10 731050 0521	9,10	10 731050 0621	13,20
C	10 731050 0222	8,10	10 731050 0322	8,10	10 731050 0422	8,10	10 731050 0522	9,10	10 731050 0622	13,20
D	10 731050 0223	8,10	10 731050 0323	8,10	10 731050 0423	8,10	10 731050 0523	9,10	10 731050 0623	13,20
E	10 731050 0224	8,10	10 731050 0324	8,10	10 731050 0424	8,10	10 731050 0524	9,10	10 731050 0624	13,20
F	10 731050 0225	8,10	10 731050 0325	8,10	10 731050 0425	8,10	10 731050 0525	9,10	10 731050 0625	13,20
G	10 731050 0226	8,10	10 731050 0326	8,10	10 731050 0426	8,10	10 731050 0526	9,10	10 731050 0626	13,20
H	10 731050 0227	8,10	10 731050 0327	8,10	10 731050 0427	8,10	10 731050 0527	9,10	10 731050 0627	13,20
I	10 731050 0228	8,10	10 731050 0328	8,10	10 731050 0428	8,10	10 731050 0528	9,10	10 731050 0628	13,20
J	10 731050 0229	8,10	10 731050 0329	8,10	10 731050 0429	8,10	10 731050 0529	9,10	10 731050 0629	13,20
K	10 731050 0230	8,10	10 731050 0330	8,10	10 731050 0430	8,10	10 731050 0530	9,10	10 731050 0630	13,20
L	10 731050 0231	8,10	10 731050 0331	8,10	10 731050 0431	8,10	10 731050 0531	9,10	10 731050 0631	13,20
	7140		7140		7140		7140		7140	

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Engraving		1.5 mm art.no.	€		2.5 mm art.no.	€		3.0 mm art.no.	€		5.0 mm art.no.	€		6.0 mm art.no.	€
M	10	731050 0232	8,10	10	731050 0332	8,10	10	731050 0432	8,10	10	731050 0532	9,10	10	731050 0632	13,20
N	10	731050 0233	8,10	10	731050 0333	8,10	10	731050 0433	8,10	10	731050 0533	9,10	10	731050 0633	13,20
O	10	731050 0234	8,10	10	731050 0334	8,10	10	731050 0434	8,10	10	731050 0534	9,10	10	731050 0634	13,20
P	10	731050 0235	8,10	10	731050 0335	8,10	10	731050 0435	8,10	10	731050 0535	9,10	10	731050 0635	13,20
Q	10	731050 0236	8,10	10	731050 0336	8,10	10	731050 0436	8,10	10	731050 0536	9,10	10	731050 0636	13,20
R	10	731050 0237	8,10	10	731050 0337	8,10	10	731050 0437	8,10	10	731050 0537	9,10	10	731050 0637	13,20
S	10	731050 0238	8,10	10	731050 0338	8,10	10	731050 0438	8,10	10	731050 0538	9,10	10	731050 0638	13,20
T	10	731050 0239	8,10	10	731050 0339	8,10	10	731050 0439	8,10	10	731050 0539	9,10	10	731050 0639	13,20
U	10	731050 0240	8,10	10	731050 0340	8,10	10	731050 0440	8,10	10	731050 0540	9,10	10	731050 0640	13,20
V	10	731050 0241	8,10	10	731050 0341	8,10	10	731050 0441	8,10	10	731050 0541	9,10	10	731050 0641	13,20
W	10	731050 0242	8,10	10	731050 0342	8,10	10	731050 0442	8,10	10	731050 0542	9,10	10	731050 0642	13,20
X	10	731050 0243	8,10	10	731050 0343	8,10	10	731050 0443	8,10	10	731050 0543	9,10	10	731050 0643	13,20
Y	10	731050 0244	8,10	10	731050 0344	8,10	10	731050 0444	8,10	10	731050 0544	9,10	10	731050 0644	13,20
Z	10	731050 0245	8,10	10	731050 0345	8,10	10	731050 0445	8,10	10	731050 0545	9,10	10	731050 0645	13,20
/	10	731050 0247	8,10	10	731050 0347	8,10	10	731050 0447	8,10	10	731050 0547	9,10	10	731050 0647	13,20
-	10	731050 0248	8,10	10	731050 0348	8,10	10	731050 0448	8,10	10	731050 0548	9,10	10	731050 0648	13,20
.	10	731050 0249	8,10	10	731050 0349	8,10	10	731050 0449	8,10	10	731050 0549	9,10	10	731050 0649	13,20
,	10	731050 0250	8,10	10	731050 0350	8,10	10	731050 0450	8,10	10	731050 0510	9,10	10	731050 0650	13,20
‘	10	731050 0252	8,10	10	731050 0352	8,10	10	731050 0452	8,10	10	731050 0552	9,10	10	731050 0652	13,20
&	10	731050 0246	8,10	10	731050 0346	8,10	10	731050 0446	8,10	10	731050 0546	9,10	10	731050 0646	13,20
“Space”	10	731060 0200	3,45	10	731060 0300	3,45	10	731060 0400	3,45	10	731060 0500	3,45	10	731060 0600	4,05
		7140			7140			7140			7140			7140	

PRYOR Precision hand punch

- Special steel numeral and letter stamps
- Forged blanks with perfectly centred precision engraving
- Stamp hardness 59 - 61 HRc
- Can be used with materials up to 1300 N/mm² in strength
- **Normal type:** the punched marking is directly legible
- **Mirrored type:** the punched marking appears on the workpiece as a mirror image
- Numeral sets = 10 pieces, 0-9
  Letter sets = 27 pieces, A-Z and &
- Plastic box
- Individual punch stamps available on request!

Sets in normal type

Typeface height mm	Shank quadratic x shank length mm	Figures 0 - 9 art.no.	€	Letters A - Z, & art.no.	€
1.0	6.3 x 63	**730101** 0010	16,65	**730110** 0010	49,30
1.5	6.3 x 63	730101 0015	23,40	730110 0015	56,–
2.0	6.3 x 63	730101 0020	14,10	730110 0020	44,30
2.5	6.3 x 63	730101 0025	14,10	730110 0025	44,30
3.0	6.3 x 63	730101 0030	14,35	730110 0030	45,80
4.0	9.5 x 70	730101 0040	15,30	730110 0040	48,80
5.0	9.5 x 70	730101 0050	16,65	730110 0050	52,80
6.0	9.5 x 70	730101 0060	20,80	730110 0060	58,40
8.0	12.7 x 90	730101 0080	33,40	730110 0080	84,60
10.0	14.3 x 90	730101 0100	43,90	730110 0100	114,–
		7140		7140	

Mirrored type sets

Typeface height mm	Shank quadratic x shank length mm	Figures 0 - 9 art.no.	€	Letters A - Z, & art.no.	€
2.0	6.3 x 63	**730120** 0020	23,70	**730130** 0020	66,40
3.0	6.3 x 63	730120 0030	24,60	730130 0030	68,–
4.0	9.5 x 70	730120 0040	26,20	730130 0040	73,60
5.0	9.5 x 70	730120 0050	28,80	730130 0050	78,40
6.0	9.5 x 70	730120 0060	31,60	730130 0060	87,80
		7140		7140	

1.0mm	234ABC
1.5mm	234ABC
2.0mm	234ABC
2.5mm	234ABC
3.0mm	234ABC
4.0mm	234ABC
5.0mm	234AB
6.0mm	234A
10.0mm	234

Typeface and font size

Hand-protecting holder

- Ergonomic, allows a comfortable and more secure grip
- More precise work without the risk of finger injury
- Numeral / letter stamp can be attached using the nylon fabric band

Description	art.no.	€
GRIP0004 hand-protecting holder	**730100** 1004	29,90
	7140	

Mini engraving device

- Spindle speed 12,000 rpm
- Tool shank 2.35 mm
- Diamond tip 1.0 mm
- For easily engraving various surfaces, e.g. metal, glass, ceramic
- Supplied in a case with engraving tip, 2x AAA batteries, offset screwdriver
- Price per pack

Description	Length mm	Ø mm	Packaging	art.no.	€
Mini-engraving device	150	14.00	1	**730003** 0150	39,95
Spare engraving tip	25	2.35	2	730003 0025	8,50

7135

Electric engraver ARKOGRAF

- Labelling steel and other metals
- Not suitable for anodised parts
- Voltage 230 V, 50/60 Hz
- The electric engraver uses an oscillating electrode, working on the electric arc short circuit principle
- Contents: Special transformer for 4, 5.5 and 8 V secondary voltage, with on/off switch, inspection lamp, approx. 1 m connection cable with Schuko plug, stylus and 3 electrodes in each size (1.2 x 25 mm and 1.5 x 25 mm) for steel and other metals, base plate and wooden box

Electric engraver

Description	art.no.	€
ARKOGRAF electric engraver for steel and metals	**733061** 0001	230,–

7135

Accessories

Description	art.no.	€
Spare stylus	**733061** 0101	69,–
Electrodes, 1.2 x 25 mm (10 units)	733061 0201	21,70
Electrodes, 1.5x25 mm (10 units)	733061 0202	23,20

7135

SARA® Metal lettering device

- **Permanent lettering on conductive metallic objects**
- With time control and temperature limiter
- For professional black engraving with article designations, symbols and trademarks
- Supplied as a set in a plastic case: Engraving stamp, set of wax templates for self-created labels, contact plate, electrolyte container, engraving device with timer, cable for engraving stamp, bottle of electrolyte for general purposes, bottle of neutralyte, contact plate cable with alligator clip
- **Not suitable for marking digital measuring instruments!**
- Detailed operating instructions are available in the download area on our website: www.sartorius-werkzeuge.de

Description	Output kW	Input	Outlet	art.no.	€
Metal lettering device with timer	30	220 V~ 50/60 Hz	12 V~/AC	**730002** 0001	460,–

7135

Accessories

Description	art.no.	€
Electrolyte for general purposes, 500 ml	**730002** 0002	41,50
Electrolyte for stainless steel materials, 500 ml	730002 0003	41,50
Electrolyte for brass, copper and bronze, 500 ml	730002 0004	41,50
Electrolyte for aluminium, 500 ml	730002 0005	41,50
Electrolyte for galvanic surfaces, 500 ml	730002 0006	41,50
Electrolyte for chrome vanadium steels, 500 ml	730002 0007	41,50
Electrolyte for carbide metals, 500 ml	730002 0008	41,50
Neutralyte, 500 ml	730002 0009	24,20
Set of wax templates for self-labelling	730002 0010	36,50

7135

LYRA Marking chalk

- Yellow
- Hexagonal, sharpened, Ø 11 x 110 mm
- For labelling and marking virtually all materials such as metal, wood, paper, leather, plastic etc.
- Not suitable for extremely smooth surfaces (e.g. glass)
- Permanent, but can be removed using commercially available cleaners

Description	Packaging	Price per PU art.no.	€
Marking chalk, yellow	12 units in box	**742102** 0001	5,60

7135

LYRA Marker pens

- Rounded tip for stroke widths up to 4 mm, length approx. 140 mm
- For marking virtually all materials such as metal, wood, paper, leather, plastic etc.
- Waterproof and smudge-proof

Description	Colour	Packaging	Price per PU art.no.	€
Marker pen	Red	10 units in box	**742107** 0001	13,25
Marker pen	blue	10 units in box	742107 0004	13,25
Marker pen	Black	10 units in box	742107 0006	13,25

7135

LYRA Deep hole marker

- Slim stainless steel telescopic tip, stroke width 1.5 mm, length approx. 150 mm
- Permanent waterproof ink (can be removed with alcohol or spirits)
- For marking all dry surfaces, including in hard-to-reach areas
- Long cap-off storage time (approx. 1 day)
- Quiver cap with holding clip

Description	Colour	Unit prices art.no.	€
Deep hole markers	Red	**742109** 0003	6,75
Deep hole markers	Black	742109 0006	6,75

7135

LYRA Universal tube marker

- Steel ball valve (ballpoint-pen principle)
- Thick paint, free of halogens, Pb, Cd, Zn, S, Hg#
- Writing width 3 mm
- Temperature-resistant up to +1,000 °C (yellow excluded)
- For labelling and marking all surfaces (including wet, oxidised, rusty, oily, hot, etc.)
- Indelible after a short drying time

Description	Colour	Unit prices art.no.	€
Universal tube marker, 50 ml	White	**742111** 0001	4,79
Universal tube marker, 50 ml	Yellow	742111 0002	4,79
Universal tube marker, 50 ml	Red	742111 0003	4,79
Universal tube marker, 50 ml	Green	742111 0005	4,79
Universal tube marker, 50 ml	Black	742111 0006	4,79
Universal tube marker, 50 ml	blue	742111 0007	4,79

7135

LYRA Soapstone chalk

- Particularly for heat-resistant labelling on metal (e.g. during welding work)

Description	Packaging	Price per PU art.no.	€
Soapstone crayon, white - 10 x 10 x 100 mm	10 units in box	**742112** 0010	4,38

7135

ATORN® Screw clamps

Torque screw clamp

- Bright-drawn profile rail with grooves on both sides
- Sliding and fixed brackets made from high-quality malleable cast iron
- Movable pressure plate with plastic protective cap

Clamp Ø mm	Projection mm	art.no.	€
120	65	**740101** 0120	10,70
160	80	740101 0160	12,60
200	100	740101 0200	17,40
250	120	740101 0250	21,30
300	120	740101 0300	26,40
400	120	740101 0400	32,30
500	120	740101 0500	32,95
600	120	740101 0600	34,80
800	120	740101 0800	39,10
1000	120	740101 1000	43,80
1500	120	740101 1500	52,50
2000	120	740101 2000	64,30

7120

All-steel clamp

- Fixed clamp made from hardened and tempered profile steel
- Sliding clamp made from hardened, tempered and galvanised die-forged steel
- Movable pressure plate

Clamp Ø mm	Projection mm	art.no.	€
120	60	**740110** 0120	12,90
160	80	740110 0160	15,60
200	100	740110 0200	20,75
250	120	740110 0250	25,20
300	140	740110 0300	31,70
400	120	740110 0400	36,50
500	120	740110 0500	39,70
600	120	740110 0600	41,80

7120

TURNUS Screw clamps

Torque screw clamp

- Structured profile rails
- Sliding and fixed brackets made from high-quality malleable cast iron
- Movable pressure plate with plastic protective cap

Clamp Ø mm	Projection mm	art.no.	€
120	65	**740103** 0120	17,50
160	80	740103 0160	20,70
200	100	740103 0200	28,90
250	120	740103 0250	34,70
300	140	740103 0300	43,50
400	175	740103 0400	53,–
500	120	740103 0500	53,50
600	120	740103 0600	57,–
800	120	740103 0800	64,50
1000	120	740103 1000	71,50

7122

TURNUS All-steel lever clamp

- Fixed clamp made from bright-drawn profile steel, hardened, tempered and high-gloss galvanised
- Sliding clamp die-forged, hardened and tempered

Clamp Ø mm	Projection mm	Rail mm	art.no.	€
160	80	16 x 7.5	**740116** 0160	48,70
200	100	19.5 x 9.5	740116 0200	55,50
250	120	22 x 10.5	740116 0250	64,50
300	140	25 x 12	740116 0300	76,–
			7122	

Universal puller

- **Heavy-duty version**
- With sliding, continuously parallel extractor hooks
- All-purpose use for removing bearings, discs, toothed wheels etc.
- Reversible extractor hooks for external and internal pulling work and infinitely adjustable spans
- Extensions and individual extractor hooks available on request

Model 20-10

Two-armed

model	Clamp Ø mm	Clamp depth mm	art.no.	€
20-1	90	100	**741002** 2009	66,60
20-10	120	100	741002 2012	72,–
20-2	160	150	741002 2016	124,80
20-20	200	150	741002 2020	136,50
20-3	250	200	741002 2025	228,–
			7121	

Model 30-10

Three-armed

model	Clamp Ø mm	Clamp depth mm	art.no.	€
30-1	90	100	**741006** 3009	95,70
30-10	120	100	741006 3012	102,30
30-2	160	150	741006 3016	178,20
30-20	200	150	741006 3020	200,70
30-3	250	200	741006 3025	376,50
			7121	

Safety in the workplace

Please protect your eyes, ears and respiratory system!

Pullers

- **With levered, self-centring extractor hooks**
- Extremely handy design
- Patented joint span adjustment
- The greater the pulling pressure, the stronger the grip

Model 43-2

Model 44-2

Two-armed

model	Clamp Ø mm	Clamp depth mm	art.no.	€
43-1	60	50	**741010** 4301	34,20
43-2	70	70	741010 4302	35,10
43-3	80	80	741010 4303	36,–
44-1	100	100	741010 4401	40,50
44-2	120	120	741010 4402	63,90
44-3	160	160	741010 4403	98,70
44-4	250	185	741010 4404	136,80
44-5	300	250	741010 4405	180,–
44-6	375	275	741010 4406	288,90

7121

Model 43-11

Model 45-2

Three-armed

model	Clamp Ø mm	Clamp depth mm	art.no.	€
43-11	60	50	**741011** 4311	43,20
43-12	70	70	741011 4312	43,80
43-13	80	80	741011 4313	46,80
45-1	100	100	741011 4501	61,80
45-2	120	120	741011 4502	92,40
45-3	160	160	741011 4503	138,–
45-4	250	185	741011 4504	195,–
45-5	300	250	741011 4505	242,70
45-6	375	275	741011 4506	422,40
45-7	600	350	741011 4507	583,50

7121

Universal ball-bearing extractor

- **Internal puller**
- For extracting ball bearings, ball-bearing outer races and bushes
- Even bearings lying very close to the rear wall are
- reliably gripped and quickly removed thanks to the excellent clamping force

Model 21-3

Internal puller

model	for bore hole Ø mm	suitable for model	art.no.	€
21-0	5-8	22-1	**741012** 0001	48,60
21-00	6-10	22-1	741012 0002	48,60
21-01	8-12	22-1	741012 0003	48,60
21-02	10-14	22-1	741012 0004	48,60
21-1	12-16	22-1	741012 0005	48,60
21-2	14-19	22-1, 22-2	741012 0006	48,60
21-3	18-23	22-1, 22-2	741012 0007	48,60
21-4	20-30	22-1, 22-2	741012 0008	53,40
21-5	28-40	22-1, 22-2	741012 0009	60,–
21-6	36-46	22-2, 22-3	741012 0010	66,90
21-7	45-58	22-2, 22-3	741012 0011	90,–
21-8	56-70	22-2, 22-3	741012 0012	113,70
21-89	56-110	22-4	741012 0014	260,70
21-9	70-100	22-3	741012 0013	180,30
21-90	100-200	22-5	741012 0015	341,10

7121

Continued on next page >>>

Counter stay, two-armed

model	suitable for model	art.no.	€
22-1	21-0 to 21-5	**741013** 2201	54,–
22-2	21-3 to 21-8	741013 2202	75,–
22-3	21-6 to 21-9	741013 2203	148,50
22-4	21-89	741013 2204	178,20
22-5	21-90	741013 2205	200,70

7121

Model 22-2

Set

- Practical set in a plastic box

model	Contents	art.no.	€
25-A	Internal puller: 21-1 to 21-6 / counter stays: 22-1, 22-2	**741014** 2501	496,20
25-B	Internal puller: 21-1 to 21-8 / counter stays: 22-1, 22-2	741014 2502	706,50
25-C	Internal puller: 21-1 to 21-7, 21-89 / counter stays: 22-1, 22-2, 22-4	741014 2503	1.033,50

7121

Screw extractor

American version (wide grooves)

Type	for screws	Twist drill Ø mm	art.no.	€
49-01	3 - 6	1.8	**742041** 0306	7,50
49-02	6 - 8	3.0	742041 0608	9,30
49-03	8 - 11	4.0	742041 0811	9,30
49-04	11 - 14	6.0	742041 1114	11,10
49-05	15 - 18	8.0	742041 1418	11,70
49-06	18 - 24	12.0	742041 1824	14,10

7122

Set

model	Description	art.no.	€
49-0-S	Set of 6 extractors	**742041** 0324	64,80

7122

CV steel, 6 pcs., finely grooved

- In a plastic box, for extracting screws, range: M4 - M24

Description	art.no.	€
M4 / M5-M7 / M8-M11 / M12 / M16-M20 / M24	**742040** 0324	16,50

7122

Screw extractor set, 25 pcs.

- Screw extractor, HSS twist drill bit, drill bit guide bushes

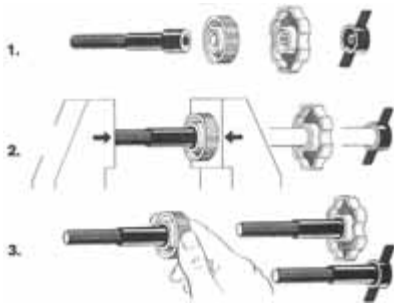
Type	for screws	art.no.	€
49-U-B	M5 - M16	**742044** 0516	117,90

7122

Knurled screw heads

DIN 912

- Compatible with hexagonal socket head screws in accordance with DIN 912
- Press-on application to attach the special screw heads to the hexagonal socket head screws.
- Thread dimension engraved on the inside of the screw head



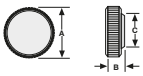
Boxed sets

Contents	art.no.	€
Knurled screw heads, 25 of each: M3, M4, M5, M6 (19), M6 (26), M8 in colours: red, black and grey	**760101** 1001	290,–
Star grip screw heads, 25 of each: M6, M8, M10 in colours: black and grey	760101 2001	225,–

7152

Knurled screw heads

Price per pack of 100

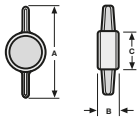


for thread	Colour	A mm	B mm	C mm	art.no.	€
M 3	Red	9.5	4.5	8.3	**760110** 1003	43,40
M 3	Black	9.5	4.5	8.3	760110 1103	43,40
M 3	Grey	9.5	4.5	8.3	760110 1203	43,40
M 4	Red	13	5.5	9.8	760110 1004	44,90
M 4	Black	13	5.5	9.8	760110 1104	44,90
M 4	Grey	13	5.5	9.8	760110 1204	44,90
M 5	Red	16	6.5	11.5	760110 1005	50,–
M 5	Black	16	6.5	11.5	760110 1105	50,–
M 5	Grey	16	6.5	11.5	760110 1205	50,–
M 6	Red	19	7.5	13	760110 1006	53,50
M 6	Black	19	7.5	13	760110 1106	53,50
M 6	Grey	19	7.5	13	760110 1206	53,50
M 6	Red	26	7.8	13	760110 1016	77,–
M 6	Black	26	7.8	13	760110 1116	77,–
M 8	Red	26	9.8	16	760110 1008	78,–
M 8	Black	26	9.8	16	760110 1108	78,–
M 8	Grey	26	9.8	16	760110 1208	78,–

7152

Wing screw heads

Price per pack of 100

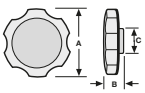


for thread	Colour	A mm	B mm	C mm	art.no.	€
M 5	Black	26	6.6	12	**760120** 3105	52,–
M 6	Black	30	7.8	13.5	760120 3106	56,–
M 8	Black	38	10	16.5	760120 3108	67,–
M 10	Black	45	12.5	20	760120 3110	72,–

7152

Star grip screw heads

Price per pack of 100



for thread	Colour	A mm	B mm	C mm	art.no.	€
M 6	Black	38	9.7	13	**760130** 2106	123,–
M 8	Black	38	10	16	760130 2108	124,–
M 10	Black	38	12.5	19.5	760130 2110	127,–

7152

WD-40 multifunctional spray

- **Rust dissolver**
- **Lubricant**
- **Contact spray**
- **Corrosion protection**
- **Cleaner**
- **Silicone and resin-free**

It penetrates layers of rust, loosens jammed mechanisms and seized-up vehicle or machine parts. It removes stubborn dirt, repels moisture from electrical contacts and prevents current leakage. WD-40 leaves behind a thin protective film that prevents the accumulation of moisture and formation of rust on metal parts.

742045 0001

742045 5000

1. pinpoint-accurate

2. flat

- **Also available with a practical "SmartStraw" twin spray system or with a spray head for use on large surfaces**

Description	art.no.	€
Smart Straw spray can, 300 ml	**742045** 0300	6,70
Spray can, 400 ml	742045 0400	7,20
Smart Straw spray can, 500 ml	742045 0500	9,75
Smart Straw spray can set of 24 cans, 500 ml	742045 0524	225,–
Atomiser, holds 500 ml, empty	742045 0001	6,95
5 litre canister	742045 5000	41,90
	7138	

742045 0300

742045 0400

742045 0500

Marking fluid

Marking fluid

- For marking metal surfaces
- Easy to remove
- Quick-drying and good adhesion
- Non-reflective

Contents ml	Colour	Design	art.no.	€
400	blue	Spray	**742120** 1400	17,70
500	blue	Bottle	742121 1500	19,20
500	Red	Bottle	742121 2500	19,20
			7135	

742120 1400

742121 1500

742121 2500

Solvent

- For general cleaning, particularly the removal of marking ink

Contents ml	Design	art.no.	€
300	Spray	**742122** 0300	13,95
		7135	

Engineer's blue

Engineer's blue

- For surface testing
- The evenness of the colour layer indicates the quality of the finish

Contents g	Colour	Design	art.no.	€
60	blue	Tube	**742123** 0060	9,95
225	blue	Can	742123 0225	17,70
			7135	

742123 0225

742123 0060

High-performance cleaner

- Suitable for removing engineer's blue

Contents ml	Design	art.no.	€
1000	Bottle	**742124** 1000	12,45
		7135	

ARIANA High-performance cutting fluid concentrate

- Water-miscible, **chlorine-free**
- Universal applications, with high additivation
- High level of corrosion protection even at residual concentration
- Particularly suitable for NC and CNC centres
- Application concentration 3 - 7 %
- pH value at 5 % concentration approx. 9.4
- Refractive index 1.1 (scale value = concentration)
- Also available in 60 litre and 185 litre containers on request

Description	Contents l	art.no.	€
Canister	10	**742036** 1000	99,50
Canister	25	742036 2000	230,–
Tight-head drum	60	742036 6000	589,–
Tight-head drum	185	742036 1850	1.849,–

7138

ARIANA High-performance cutting oil

- **Chlorine and silicone-free**, a non-water-soluble heavy-duty cutting oil
- Universal cutting oil for all materials
- Massive increase in tool endurance
- Ideal for high-alloy steel grades, optimum workpiece surfaces
- Also for turning, milling, reaming, thread cutting, broaching, sawing, etc.
- Gentle on the skin and environmentally friendly, low volatility
- Applied with a squeeze bottle, sprayer or lubricating device
- Can also be used for minimum-volume lubrication

742037 0300

742037 0500

742037 5000

Description	Contents l	art.no.	€
Atomiser	0.3	**742037** 0300	9,80
Wash bottle	0.5	742037 0500	17,30
Canister	5.0	742037 5000	101,–

7138

ARIANA Thread cutting agent

- Water/soap-based paste
- Ideally suited to thread cutting, thread drilling, centring, broaching and milling
- Latest generation multi-purpose lubricant, applied directly from the squeeze bottle onto the metal surface to be treated, significantly increases tool life
- Semi-paste grease
- Ideal for all metals, including stainless steel
- **Free from petroleum, chlorine and sulphur**
- Light blue, odour-free, flash point > 225 °C, melting point 32 °C

742043 0250 742043 0500 742043 1000 742043 5000

Contents ml	art.no.	€
250	**742043** 0250	10,70
500	742043 0500	19,30
1000	742043 1000	28,90
5000	742043 5000	120,–

7138

ARIANA Filling level display

- For commercially available 60 and 210 l containers
- For non-corrosive fluids such as cutting fluid concentrates, emulsions, oils, antifreeze, heating oil etc. as well as liquid media
- Permanent volume display
- Fitted on 3/4 inch opening, leaving 2" bung opening free

Description	art.no.	€
Filling level display	**742039** 0001	59,90

7138

WEICON NORMFEST Adhesives

Epoxy minute adhesive

- Transparent adhesive, hardens to a residual level of elasticity
- Ideal for design and assembly applications
- Viscous, self-levelling, extremely short pot life (3 - 4 minutes)
- Rapid hardening, almost clear, slightly yellowish
- Twin spray

Contents ml	art.no.	€
24	**742051** 0024	10,45

7138

"Fast-Metal" minute adhesive with metallic content

- High viscosity (pasty), gap filling, extremely short pot time (3-4 minutes) rapid hardening
- Ideal for repairs that involve bridging larger tolerances
- Machinable (grinding, filing, drilling etc.)
- Colour: grey
- Twin sprays

Contents ml	art.no.	€
24	**742052** 0024	12,50

7138

VA 1401 super-fast contact cyanoacrylate adhesive

- Medium viscosity, 100 - 150 mPa.s
- Rapid hardening
- Universal type for bonding metal, plastic and rubber
- Can also be used on fabric, paper and cardboard as well as foam rubber and large-pored elastomers
- Pen system
- Additional versions available on request

Contents g	art.no.	€
30	**742053** 0030	19,30

7138

SUPER-GLUE powerful spray adhesive

- Glues: foam, jute, felt, polystyrene foam, paper, cardboard, plastic films
- Temperature resistance (long-term): -25°C to +70°C

Contents ml	art.no.	€
400	**742135** 0001	11,99

7139

Rapido instant adhesive

- For extreme loads
- Suitable for different materials exposed to strong vibrations
- Cyanoacrylate base

Contents g	art.no.	€
20	**742135** 0004	18,55

7139

FIXIT instant adhesive gel

- Does not melt
- Can also be used on horizontal and vertical sites
- Does not form threads
- Bonds metals, wood and plastics
- Cyanoacrylate base

Contents g	art.no.	€
20	**742135** 0002	18,99

7139

Continued on next page >>>

Cyanoacrylate adhesive

- Suitable for bonding rubber coatings, plastics and metals
- Ideal for bonding plastic such as door clips
- Cyanoacrylate base

NORMFEST

Colour	Contents g	art.no.	€
White	20	**742135** 0005	15,99
Black	20	742135 0006	19,99
White	30	742135 0007	24,99
		7139	

742135 0007

742135 0006

742135 0005

FIXIT ACTIV hardening accelerator

- Suitable for all cyanoacrylate adhesives as a hardening accelerator
- For leather, wood, cork, ceramic and all porous materials and plastic connections

NORMFEST

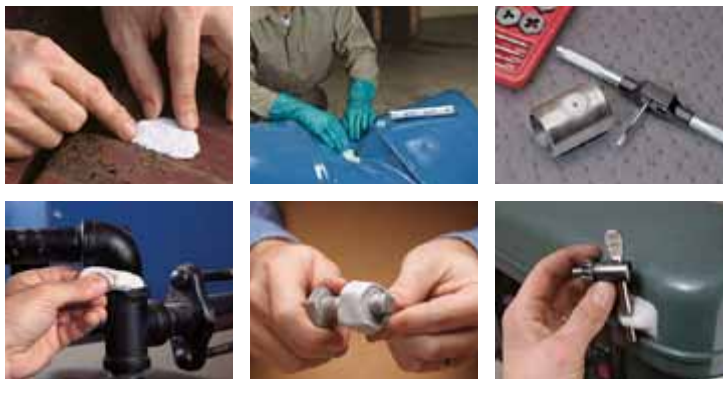
Contents ml	art.no.	€
200	**742135** 0003	19,99
	7139	

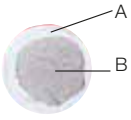
PIG® Repair putty

- **Bonds like a two-part epoxy resin putty, without oiliness**
- PIG® Repair Putty cements everything – iron, glass, brickwork and most plastics
- Part A and part B of the prepared epoxy system are in the same tube – simply knead the putty and apply
- Solid in 20 minutes, harder than cement after one hour
- Solvent-free, contains no VOC
- Can be stored unopened for at least two years (at 20 - 25 °C, protect against direct sunlight)
- **Unit prices (graduated)**

Can be used everywhere for quick, effortless repairs:

- Sealing leaks in steel drums
- Repairing holes and cracks in pipes
- Mending leaks on steel and fibreglass tanks
- Restoring or re-cutting threads
- Sealing cracks in casings
- Filling and smoothing holes and hollows in floors
- Repairing steam conduits and radiators
- Sealing leaky connections
- Filling nail holes in walls
- Repairing faulty toilets
- Closing multiple cavities during injection moulding
- Reinforcing cast steel moulds
- Sealing holes in castings during production
- Making temporary repairs to heating ducts
- Repairing transformers, porcelain bushings and reclosers
- Patching aluminium containers during the production process
- Creating models, holding devices and prototypes
- Carrying out preliminary tube repairs to large vacuum cleaning systems, and much more.





Length mm	art.no.		€		€
180	**742070** 0001	1	12,40	12	8,30
	9204				

Grippy Mat absorbent mat

- Adhesive underside
- Stitched surface

Page 90-25

WEICON NORMFEST Sealants

Black Seal special silicone, black

- Special type, especially suitable for use in mechanical, motor and automotive engineering
- Particularly resistant to grease, oil and similar fluids
- Provides extremely high leak protection for motors and water pumps, gearboxes and axles, oil sumps etc.
- Temperature-resistant from -60 °C to +280 °C (short-term to +300 °C)

Contents ml	art.no.	€
85	**742054** 0001	10,25

7138

Flex+bond

- Diverse applications and extremely high adhesive strength (adhesion)
- Bonds virtually all metals, wood, plastics, glass, ceramics etc.
- Single-component, permanently elastic, can be painted over "wet-on-wet", can be sanded after hardening
- Temperature-resistant from -40 °C to +90 °C, short-term (2-3 hours) up to +130 °C
- Weather-proof, UV-stable, resistant to seawater
- Free from silicone, halogen and PVC
- **ISEGA-certified**

Colour	Contents ml	art.no.	€
White	85	**742055** 0001	10,90
Transparent	85	742055 0002	10,90

7138

742055 0001

742055 0002

WEICONLOCK screw lock

- Type AN 302-43, universal type, screw lock, higher viscosity, medium strength, standard removal
- WEICONLOCK AN 302-70, screw and stud bolt lock, medium viscosity, high-strength, difficult to remove
- Pen system
- **DVGW and KTW-certified**

Type	Contents ml	art.no.	€
AN 302-43, medium-strength	50	**742056** 0001	27,30
AN 302-70, high-strength	50	742056 0002	27,30

7138

742056 0001

742056 0002

KRYPTON body construction sealant

- UV-resistant
- Elastic
- Can be painted over wet on wet
- Can be sanded
- Silicone and isocyanate-free
- Good adhesion on many metals (zinc, aluminium, steel), paints, primers, wood materials, Duround thermoplastics (apart from PE, PP, PTFE) and mineral substrates
- Resistant to lime water, public sewage and to weak acids and alkalis
- Temperature-resistant: -40 °C to +90 °C, to +120 °C for a short time
- Solution-free single-component adhesive and sealant
- Suitable for body, container and vehicle construction

Colour	Contents ml	art.no.		€		€		€
Black	290	**742134** 0001	1	8,95	6	8,10	12	6,90
White	290	742134 0002	1	8,95	6	8,10	12	6,90
Grey	290	742134 0003	1	8,95	6	8,10	12	6,90
Transparent	290	742134 0004	1	8,95	6	8,10	12	6,90

7139

WEICON Cleaning products

- **Aluminium spray, stainless steel care spray and rust-shock spray available on request**

Zinc spray, „special bright"

- Quick-drying, long-lasting corrosion protection for all metals
- Provides lasting cathodic corrosion protection for all metallic surfaces, e.g. hot-galvanised parts that require reworking
- Used as a high-quality anti-corrosion primer, e.g. for painting vehicle bodies, for coating weld and drilling locations, as a conductive intermediate layer during spot welding
- For repairing damaged galvanised surfaces, colour shade matches hot-galvanising

Contents ml	art.no.	€
400	**742057** 0400	14,30

7138

Continued on next page >>>

"Multi-Foam" foam cleaner

- For universal applications
- Cleans all glass, metal and plastic parts or painted surfaces without leaving residue
- Thoroughly eliminates insects, smears and dirt films
- Environmentally friendly, biodegradable
- Phosphate and formaldehyde-free, no corrosive or caustic additives

Contents ml	art.no.	€
400	**742062** 0400	6,80
	7138	

Sealant and adhesive remover

- Dissolves and removes sealant and hardened adhesive residue as well as paints and dyes
- Dissolves all types of sealant residue on cylinder heads, oil sumps, water pumps and exhaust manifolds, valve covers and gearbox flanges
- Removes carbon deposits, dye and paint, oil, resin, grease and tar
- Removes all types of adhesive, even hardened cyanoacrylate and anaerobic adhesives
- Can be used on metal, wood, glass, ceramic, polyethylene and polypropylene
- Not for use on delicate plastics such as PVC, synthetics, linoleum etc.

Contents ml	art.no.	€
400	**742063** 0400	10,40
	7138	

Spray cleaner

- Degreases and cleans all metals, glass, ceramic and many types of plastic
- Removes even gummy lubricants when cleaning machine parts
- Used as a pre-treatment for priming and painting
- Evaporates quickly and leaves no residue
- Does not leave a residual layer, unlike thinners
- Can soften thermoplastics such as PVC, Plexiglas, polystyrene and simple paint coatings
- Compatible with all Weicon adhesives and sealants

Contents ml	art.no.	€
500	**742064** 0500	8,20
	7138	

PTFE spray

- Grease-free dry lubricant with PTFE-based non-stick effect (polytetrafluoroethylene)
- Adheres to all metal, plastic and wooden surfaces
- Resistant to dirt and dust, water-repellent and resistant to oil, grease and numerous chemicals
- Temperature-resistant from -180 °C to +250 °C
- Used wherever oil or grease lubrication is not permissible or desirable

Contents ml	art.no.	€
400	**742065** 0400	15,40
	7138	

Universal grease spray with MoS2

- Strongly adhesive and high-pressure-resistant long-term grease with MoS2
- Suitable for roller and plain bearings, joints, levers, bearing guides, spindles, camshafts and spline shafts, springs (e.g. leaf springs), open gears (e.g. ring gears), worm gears at all rubbing velocities permissible for grease lubrication
- Temperature range: -20 °C to +120 °C

Contents ml	art.no.	€
400	**742066** 0400	11,50
	7138	

Welding protection spray

- Silicone-free, for cleaning and preserving the cleanliness of welding nozzles
- Simultaneously protects the workpiece to be welded against splashes without impairing the weld seam
- Prevents weld spatter from sticking to gas nozzles and workpiece surfaces
- No need for subsequent workpiece cleaning with spatulas, brushes or chisels
- Treatments such as burnishing, galvanising, anodising or painting can be performed on workpieces afterwards without special cleaning. Some cleaning may be necessary in the event of heavy spraying

Contents ml	art.no.	€
400	**742067** 0400	6,80
	7138	

Stainless steel spray

- Corrosion-proof and weather-resistant surface coating
- Can be used anywhere a hard-wearing and effective protective coating is required thanks to the high degree of chemical stability
- Alloy components include chrome, nickel and manganese
- Touch-dry in approx. 10 minutes; fully adhered and wear-resistant after 4 - 6 hours, as well as temperature resistant to +300 °C for short periods

Contents ml	art.no.	€
400	**742059** 0400	18,10
	7138	

NORMFEST® Cleaning agent

MULTI CLEANER-1 brake cleaners

- Acetone-free quality cleaner
- Effectively removes oil, dirt, brake fluid and lining dust from disc brakes, brake pads and linings and many other vehicle parts
- Rinses out contaminants and deposits
- Removes oil, grease, dust, resin residue/brake fluid/lining dust from disc brakes
- Thanks to maintenance lubrication, the service life of the components is increased

Contents ml	art.no.	€
500	**742130** 0001	1,60

7139

BREMTEC brake cleaner

- Contains acetone
- Non-greasy effect
- Basis: benzene, alcohols
- Ideal for the quick removal of oil, dirt and lining dust on disc brakes, brake pads and linings and in the intake and throttle valve area

Contents	art.no.		€		€		€		€		€
600 ml	**742130** 0003	1	2,65	6	2,55	12	2,45	24	2,35	48	2,09
30 l	742130 0002	1	45,99								

7139

742130 0003

742130 0002

OXIM ULTRA rust dissolver

- Very high lubrication
- Moisturising
- Water-repellent
- Prevents further rusting
- Temperature-resistance from -20 °C to +250 °C

Contents ml	art.no.		€		€		€		€
400	**742131** 0001	1	3,85	6	3,70	12	3,55	24	2,90

7139

SUPER CRACK ULTRA rust dissolver

- With rust-dissolving properties
- Excellent creeping capacity
- Highly effective corrosion protection
- Long-term water-repellent
- Ensures extremely long-lasting lubrication effect
- Ices up, cools to -40 °C
- High-performance release agent with silver aluminium particles

Contents ml	art.no.		€		€		€
400	**742131** 0002	1	9,99	6	9,20	12	8,40

7139

TERPANOL cleaning agent

- Contains orange terpene
- Made from 100% renewable raw materials
- Perfectly removes adhesive residue, oils, grease, wax, water-resistant Edding marks, graffiti
- Stronger dissolving effect on the dirt concerned
- Dissolves within a short space of time (approx. 20 sec.)

Contents ml	art.no.		€		€		€
400	**742132** 0001	1	10,99	6	9,95	12	9,49

7139

TOPAS cleaning agent

- Also suitable for polycarbonate glass
- Does not affect surfaces
- Foam formation only once the surface is wetted with the material

Contents ml	art.no.		€		€		€		€
400	**742132** 0002	1	4,99	6	4,79	12	4,59	24	4,39

7139

Continued on next page >>>

BIO-STAR cleaning agent

- Highly attractive concentrate for cold and high-pressure cleaning
- Suitable for cleaning very dirty hall floors, walls and floor tiles
- Removes lubricating oil, grease, rust, pigments, resin and tar
- High-pressure cleaner mix ratio: 1:3 to 1:5
- Manual cleaning mix ratio: 1:1 to 1:5
- pH value: 11.2 (alkaline)
- AOX-free

Contents l	art.no.	€
30	**742132** 0003	99,99
	7139	

NORMFEST® Lubricant

HIGH PRESS lubricant

- Highly water-repellent
- Extremely pressure-resistant
- Free of sticky polymer thickeners and therefore does not attract dirt
- Silicon-free
- Outstanding adhesive properties
- Excellent creeping capacity
- Temperature-resistance from -20 °C to +150 °C
- Colour: beige/transparent

Colour	Contents ml	art.no.		€		€		€
Beige/transparent	400	**742133** 0001	1	9,25	6	8,79	12	7,95
		7139						

HIGH PRESS lubricant

- Ideal for use in all technical areas
- High penetrability
- Outstanding adhesive properties
- Water-repellent and protects against corrosion
- Excellent running properties in high temperatures and at high speeds
- Temperature-resistant from -20 °C to +200 °C

Colour	Contents ml	art.no.		€		€		€
Black	400	**742133** 0002	1	9,25	6	8,39	12	7,95
		7139						

SIPREM lubricant

- High-quality silicone with a minimum content of 18%
- Extremely water-repellent
- Does not leave marks
- Very high lubricating power

Contents ml	art.no.		€		€		€
400	**742133** 0003	1	8,55	6	7,35	12	6,85
	7139						

TEFLUX lubricant

- Extremely creepable
- Water-repellent and protects against corrosion
- High pressure-resistance
- Lubricates and oils all types of moving machine parts such as gears, hinges, etc.
- Excellent dry-running properties thanks to PTFE and ceramic additives
- Silicon-free
- Colour: beige
- Odour: vanilla

Contents ml	art.no.		€		€		€
400	**742133** 0004	1	9,99	6	8,99	12	8,39
	7139						

Oil cans and industrial oilers

Plastic, resilient
- Made from polyethylene
- Removable brass spray pipe, sealed with a screw cap at the tip

Filling quantity max. ml	art.no.	€
250	**742001** 0250	3,23
500	742001 0500	3,54
	7125	

742001 0500

Metal spray oiler
- Brass pump
- Rigid and flexible metal spray pipes

Filling quantity max. ml	art.no.	€
200	**742005** 0200	16,80
300	742005 0300	18,10
500	742005 0500	19,60
	7125	

Industrial atomiser

- Plastic, PE
- white transparen
- spray head with closable nozzle
- suitable for rust dissolver, thin oils, mould oils, release agents, impregnation fluids
- not suitable for acetone, glycol, ammonia, brake cleaners and acids

742008 0750

742008 2000

Description	Contents l	art.no.	€
Pump atomiser with brass nozzle	0.75	**742008** 0750	7,85
Spray pipe with brass nozzle, manual pressure build-up, with 2.5 bar safety pressure relief valve	2	742008 2000	32,30
		7125	

Combination funnel

- Steel sheet, galvanised
- Screw-off plastic outlet and removable brass sieve
- Flexible metal hose (280 mm, 90° turning capability)

Ø mm	Contents l	art.no.	€
160	1.3	**742009** 0160	23,20
200	3.2	742009 0200	28,70
		7125	

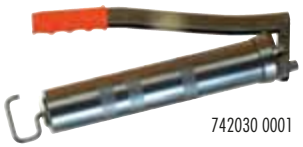
Funnel set, 6 pcs.

- Plastic, PE, food-resistant
- 50 to 150 mm with touch-proof supporting strap
- 160 mm with removable stainless steel sieve and robust handle

Ø mm	art.no.	€
50, 75, 100, 120, 150, 160	**742010** 0006	14,75
	7125	

Hand lever-operated grease gun

- Made of steel
- Safety handle
- Connection thread M10x1
- With TÜV/GS certification in accordance with DIN 1283



742030 0001

742030 1000

Description	art.no.	€
Hand-lever operated pressure grease gun without grease cartridge	**742030** 0001	16,10
Case set incl. lever press, reinforced rubber hose, angled nozzle pipe, 2x straight nozzle pipe, universal mouthpiece, tip mouthpiece	742030 1000	146,–

7125

Accessories

Description	art.no.	€
Nozzle pipe, 150 mm, straight	**742035** 0150	1,95
High-pressure reinforced hose 10x300 mm (burst pressure 1000 bar)	742035 0300	7,90
Hydraulic mouthpiece	742035 1000	3,21
Grease cartridge, 400 g	742035 2400	5,40

7125

742035 0150

742035 0300

742035 1000

742035 2400

Measuring jug

- Steel sheet, galvanised
- Marked "Only for Mineral Oils"
- Metal outlet
- Non-slip handle

Contents l	art.no.	€
1	**742006** 0001	12,25
2	742006 0002	17,90

7125

Storage can

- Steel sheet, galvanised

Contents l	art.no.	€
5	**742012** 0005	45,40
10	742012 0006	50,–

7125

Multi-purpose pump

- Handy pump for diesel, heating oil, hydraulic oil and motor oil
- For 200 l barrels
- 1 m plastic hose with outlet nozzle
- Intake pipe
- Flow rate 0.4 l/stroke

Description	art.no.	€
Multi-purpose pump (lever-operated cylinder pump), 0.4 l/stroke	**742004** 0001	104,–

7125

Paper tissue rolls and cleaning cloths

- Unit prices when purchased in PU

Even more handy and absorbent

Paper tissue rolls Multiclean®

- Suitable for industry and trade use (e.g. machine maintenance)

Description	Dimensions	Length m	Contents	D mm		art.no.	€
2-ply	36 x 36 cm	360	Approx. 1000 sheets per roll	290	2	**720596** 0004	25,50
3-ply	38 x 22 cm	380	Approx. 1000 sheets per roll	370	1	720596 0003	26,90
3-ply	36 x 36 cm	360	Approx. 1000 sheets per roll	375	1	720596 0005	35,95

7138

Paper tissue rolls Multiclean® plus

- Very good grip, high-volume and even more absorbent

Description	Dimensions	Length m	Contents	D mm		art.no.	€
3-ply	36 x 36 cm	180	Approx. 500 sheets per roll	275	2	**720592** 0004	22,75

7138

Floor stand with refuse sack holder (supplied without paper tissue roll)

- Suitable for paper tissue rolls up to 42 cm wide

Description	art.no.	€
Without paper tissue roll and refuse bag	**720593** 0002	79,50
With 36 x 36 cm paper tissue roll (360 m, 3-ply) and 120 l refuse bag	720593 0010	112,50

7138

Wall-mounted holder with refuse sack holder (supplied without paper tissue roll)

- Suitable for paper tissue rolls up to 42 cm wide

Description	art.no.	€
Without paper tissue roll and refuse bag	**720594** 0002	52,50

7138

Refuse sack

Volumes l	Contents	Colour	art.no.	€
120	1 roll of 15 bags	blue	**720598** 0001	6,15

7138

Cleaning cloths WiperBowl® Polytex®

- High cloth quality for individual use; double-sided, soft and abrasive
- Lifts dirt deposits including heavy grease, lubricant, adhesive, oil, tar and carbon.
- Suitable for almost all materials and surfaces in industrial and trade fields, for vehicle care as well as cleaning machine controls, computer keyboards, telephone receivers and even sensitive surfaces
- Particularly skin-friendly thanks to gentle cleaning substances with a pleasant, fresh orange scent
- Perforated sheets make cloths easy to remove

Description	Contents	Dimensions	art.no.	€
Cleaning cloths in dispenser bucket	72 sheets	25 x 25 cm	**720597** 0001	19,60

7138

Tool cases and bags

Tool case BASE

- Strong all-purpose case!
- Made from high-impact ABS with a new, modern design
- A robust aluminium frame with abutting edge protection prevents damage to tools and the case
- 2 lockable flip catches and a combination lock for security
- 4 additional feet help the case to stand and prevent scratching of the shell
- A sturdy, comfortable handle makes the case easy to carry
- Adjustable bottom tray arrangement thanks to aluminium dividers
- A4 document compartment
- Hinge covering and safety lid holder
- Supplied without tools

BASE POCKETS model:

- Removable tool board in the lid with 22 tool pockets on the front and back
- Cover panel for floor tray with 15 tool pockets

BASE MODULE model:

- Removable tool board in the lid with 3 modular tool holders on each side, front and back
- Cover panel for floor tray with 3 modular tool holders

743011 0002

743011 0001

model	Interior dimensions mm	Supported load max. kg	Volumes l	Weight kg	art.no.	€
BASE POCKETS	460 x 355 x 170	25	28	4.6	**743011** 0001	139,–
BASE MODULE	460 x 355 x 170	25	28	4.6	743011 0002	167,–

7126

Tool case GO

- Easy to handle, with a vast carrying capacity and modern design. Always to hand!
- Mobile tool case made from ABS with user-friendly telescopic handle and 2 inline wheels
- A robust aluminium frame with abutting edge protection prevents damage to tools and the case
- 2 lockable flip catches and a combination lock for security
- 4 additional feet help the case to stand and prevent scratching to the shell
- A sturdy, comfortable handle makes the case easy to carry
- Adjustable bottom tray arrangement thanks to new aluminium dividers
- A4 document compartment
- Hinge covering and safety lid holder
- **Model GO POCKETS**:
- Removable tool board in the lid with 22 tool pockets on the front and back
- Cover panel for bottom tray with 15 tool pockets
- **GO MODUL model:**
- Removable tool board in the lid with 3 modular tool holders on each side, front and back
- Cover panel for bottom tray with 3 modular tool holders

743012 0002

743012 0001

model	Interior dimensions mm	Supported load max. kg	Volumes l	Weight kg	art.no.	€
GO POCKETS	485 x 375 x 200	30	36	6.6	**743012** 0001	235,–
GO MODULE	485 x 375 x 200	30	36	6.6	743012 0002	245,–

7126

Gamma tool bag

- High-quality pilot's case, with central divider
- Synthetic leather, black
- Sides made from ABS, black
- Front can be folded up
- 11 tool holding straps on the rear panel
- 10 tool pockets in the front
- Removable central divider with a total of 24 tool holding straps
- 2 combination locks
- Supplied without tools

model	Interior dimensions mm	Weight kg	art.no.	€
Gamma	430 x 320 x 190	2.8	**743015** 0001	89,–

7126

ATORN® Tool box

- **Sheet steel**
- Robust workshop version
- Painted blue (powder coating)
- Sheet thickness 0.6 - 0.7 mm

Design	Dimensions L x W x H mm	Weight kg	art.no.	€
3-pcs.	430 x 200 x 150	3.4	**743030** 0429	22,50
5-pcs.	430 x 200 x 200	4.4	743030 0430	26,60
5-pcs.	530 x 200 x 200	5.0	743030 0530	30,80
5-pcs.	600 x 200 x 200	5.6	743030 0600	35,90

7126

Padlocks

TITALIUM version

- Solid lock body made from TITALIUM™ special aluminium
- Approx. 30 % less weight than brass with the same level of safety
- Special steel shackle with NANO-Protect™ coating for extremely high corrosion protection
- Double locking shackle, incl. two cylinder keys

Width mm	A mm	B mm	C mm	art.no.	€
30	5	17	16	**743046** 0030	6,90
40	6.5	23	22	743046 0040	9,20
50	8	29	29	743046 0050	13,10

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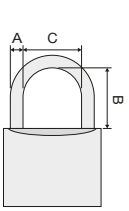

Combination lock

- Brass lock body
- Steel shackle
- 20 and 30 mm: individually resettable 3-digit code
- 40 mm: individually resettable 4-digit code
- Spring-loaded shackle to facilitate combination setting
- Suitable for locking bags, cases, (strong)boxes, cabinets, lockers, toolboxes, basement windows, switchgears, etc.

Width mm	A mm	B mm	C mm	art.no.	€
20	3.5	21.5	9	**743047** 0020	11,95
30	5	25	14	743047 0030	13,85
40	6	26	21.5	743047 0040	21,–

7126

743047 0040

Drawer shelving unit

Modulares Regal System

The MRS modular shelving system enables you to create a flexible room design at any time. Drawers, shelves, vertical pull-out sections, CNC storage systems and closed hinged door cabinets can all be perfectly integrated into a single product. The system is available in three different heights.

The product is unique in its individuality. Design your own drawer shelving unit the way you want it. Our extensive range of equipment and accessories offers you a variety of constructive options, allowing you to make your room planning ideas a reality in an economical way. The drawer shelving unit can then be expanded and built upon using additional modules. The system combines the advantages of a drawer cabinet with those of a shelving unit, thus creating a product that can be perfectly tailored to your business by allowing for the optimum utilisation of space. Make use of the MRS as wall shelving, or even as a room divider.

Please contact us for additional information!

NOGA Deburring tools

Deburring tools, model S blades

model	Description	suitable blades	art.no.	€	
E01000	Aluminium hexagonal handle with non-replaceable S 10 blade	-	**750101** 0008	5,20	
EO 2000	Plastic hexagonal handle with 1x S 10 blade; blade mount 3.2 mm diameter	All S model blades (3.2 mm)	750101 0009	3,69	
RB 1000	Aluminium hexagonal handle with 1x S 10 blade; blade mount 3.2 mm diameter	All S model blades (3.2 mm)	750101 0012	8,70	
NG 1003	Plastic NG-1 handle; S 10, S 20, S 35 blades (1 of each)	All S model blades (3.2 mm)	750110 1003	12,70	
NG 1005	Plastic NG-1 handle with S10, S20, S35, S101, S202 blades (1 of each)	All S model blades (3.2 mm)	750110 1005	15,70	
NG 3003	Plastic NG-3 handle with telescopic shank; 1x S holder with telescopic shank with S100, S20, S30 blades (1 of each)	All S model blades (3.2 mm)	750110 3003	16,60	
			7143		

Deburring tools, model N blades

model	Description	suitable blades	art.no.	€	
TB 1000	Aluminium hexagonal handle with 1x N1 blade; blade mount 2.6 mm diameter	All blades, model N (2.6 mm)	**750101** 1020	6,85	
NG 2002	Plastic NG-2 handle with N1 and N2 blades (1 of each)	All blades, model N (2.6 mm)	750101 2002	10,70	
NG 2004	Plastic NG-2 handle with N1, N2, N3, N6 blades (1 of each)	All blades, model N (2.6 mm)	750101 2004	14,20	
NG 3002	Plastic NG-3 handle; 1x N blade holder with N1 and N2 blades (1 of each)	All blades, model N (2.6 mm)	750101 3002	14,50	
			7143		

Deburring tools, model N and S blades

model	Description	suitable blades	art.no.	€	
LB 1000	Uni plastic grip, extendible twin-blade holder SN 20-110 mm (N) or 20-94 mm (S), mount 2.6 mm and 3.2 mm, blades N1, N2 (1 of each)	All blades, model N (2.6 mm) and model S (3.2 mm)	**750101** 1010	14,70	
			7143		

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Rear-side deburring tools and countersinks

model	Description	suitable blades	art.no.	€
RC 1000	Reverse deburring tool, aluminium handle with R1 blade, range 3 - 5.5 mm, can be used for forwards and reverse work	R1	**750120** 1000	36,80
RC 2000	Rear-side deburring tool, aluminium handle with R2 blade; range 5 - 10 mm, can be used for front and rear-side work	R2	750120 2000	38,40
RC 2200	Rear-side deburring tool, aluminium handle with R3 blade; range 10 - 22 mm, can be used for front and rear-side work	R3	750120 2200	43,95
NG 3100	Plastic NG-3 handle; 1x C blade holder; 1x C20 countersink	All model C countersinks	750101 3100	32,40

7143

Deburring tools, scraper blades

model	Description	suitable blades	art.no.	€
SC1000	Uni handle with T 120 blade; extendible blade can be locked in any position	T 120	**750105** 1005	19,30
NG3700	NG-3 handle; D holder with D50 blade	All D blades	750105 3700	19,60
NG3710	NG-3 handle; D holder with D 66 blade; for deburring the rear side of crosswise drill holes with diameters from 4 mm	All D blades	750105 3710	17,50
SC800	Aluminium hexagonal SC handle with T 80 blade	T 80	750105 0001	15,90

7143

Deburring tools, ceramic blades

model	Description	suitable blades	art.no.	€
CR2000	CERA-Cut CR2100 handle with CR2200 blade, convex ceramic blade with very long life, ideal for plastics and other soft materials	CR2200, CR2500	**750105** 2000	30,50
CR2300	CERA-Cut CR2100 handle with CR2500 blade, concave ceramic blade with very long life, ideal for plastics and other soft materials	CR2200, CR2500	750105 2300	35,50
CR1100	Soft-grip handle; non-replaceable ceramic blade with extremely long life; ideal for plastics and other soft materials		750105 1100	39,90

7143

Special deburring tools

model	Description	suitable blades	art.no.	€
NG3200	NG-3 handle; L holder with L3 blade for range 1-8 mm	L3, L4, L5, L6, L7	**750107** 3200	17,60
DB 1000	Plastic handle with hand protection; 2x N 80 blades	N 80, N 80 M42	750115 1001	19,50

7143

NOGA Scraper set YT2000

- Set consists of one D75 scraper, one T80 scraper and the new YT1000 handle
- Quick-release tool replacement
- Flexible clamping handle, fits any hand

model	Contents	art.no.	€
YT200	Handle YT 1000 and blades 1x D75, 1x T80	**750505** 4000	18,90
		7145	

NOGA Handle YT1000

- **For needle-point files, diamond files and scraper blades**
- Quick-release tool replacement
- Flexible clamping handle, fits any hand
- Supplied without blades

model	Clamp Ø mm	Length mm	art.no.	€
YT 1000	2.2 to 4.5	90	**750501** 4000	5,75
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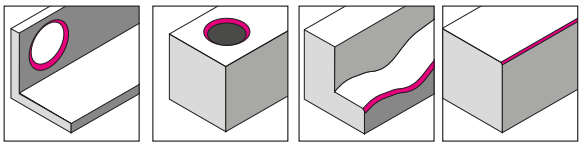
NOGA Deburring blades

- 2.6 mm and 3.2 mm rotary blades
- Extensive range for quick and easy deburring
- **extra blades for left-handed users on request**



N-blades, universal

model	appropriate for	Angle °	Material	Hardness	Holding fixture Ø mm	Design		art.no.	€
N1	Steel, aluminium, plastics	40	HSS M2	63Rc	2.6	Right-hand cutting edge	10	**751001** 0001	1,50
N1 TiN	Abrasive plastics	40	HSS M2 TiN	63Rc	2.6	Right-hand cutting edge	10	751001 1001	2,89
N1 (left-hand)	Steel, aluminium, plastics	40	HSS M2	63Rc	2.6	Left-hand cutting edge	10	751001 0010	2,60
N1C	Hardened steel, special plastic	50	Solid carbide	1400-1700HV	2.6	Right-hand cutting edge	1	751001 3001	6,85
N1D	Glass, ceramics	-	Diamond	1400-1700HV	2.6	Right-hand cutting edge	1	751001 2001	13,45
N10	Plastic, harder materials	45	HSS M35	65Rc	2.6	Right-hand cutting edge	10	751001 0070	2,37
N2	Brass, cast iron	80	HSS M2	63Rc	2.6	Left-hand cutting edge	10	751001 0020	1,50
N2 TiN	Stainless steel	80	HSS M2 TiN	63Rc	2.6	Left-hand cutting edge	10	751001 1020	2,89
N2C	Hardened steel, special plastic	80	Solid carbide	1400-1700HV	2.6	Right-hand/left-hand cutting edge	1	751001 3020	6,85
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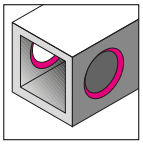

N-blades, reverse deburring tool

model	appropriate for	Angle °	Material	Hardness	Holding fixture Ø mm	Design		art.no.	€
N3	Internal and external deburring, steel, aluminium	50	HSS M2	63Rc	2.6	Right-hand cutting edge	10	**751001** 0030	1,86
N6	Rear side of workpieces, steel, aluminium	40	HSS M2	63Rc	2.6	Right-hand cutting edge	10	751001 0060	5,45
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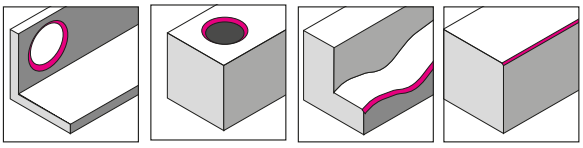

S-blades, universal

model	appropriate for	Holding fixture Ø mm	Angle °	Material	Hardness	Design		art.no.	€
S10	Steel, aluminium, plastics	3.2	40	HSS M2	63Rc	Right-hand cutting edge	10	**751005** 0001	1,75
S10 TiN	Abrasive plastics	3.2	40	HSS M2 TiN	63Rc	Right-hand cutting edge	10	751005 1001	3,35
S10 (left-hand)	Steel, aluminium, plastics	3.2	40	HSS M2	63Rc	Left-hand cutting edge	10	751005 0010	2,99
S10C	Hardened steel, special plastic	3.2	50	Solid carbide	1400-1700HV	Right-hand cutting edge	1	751005 0005	6,80
S10D	Glass, ceramics	3.2	-	Diamond	1400-1700HV	Right-hand cutting edge	1	751005 2001	16,40
S100	Plastic, harder materials	3.2	78	HSS M35	65Rc	Right-hand cutting edge	10	751005 0100	1,75
S100 TiN	Plastic, harder materials	3.2	78	HSS M35 TiN	65Rc	Right-hand cutting edge	10	751005 1100	4,18
S20	Brass, grey cast iron	3.2	60	HSS M2	63Rc	Left-hand cutting edge	10	751005 0020	1,75
S20 TiN	Stainless steel	3.2	60	HSS M2 TiN	63Rc	Left-hand cutting edge	10	751005 1020	4,18
S20C	Hardened steel, special plastic	3.2	80	Solid carbide	1400-1700HV	Right-hand/left-hand cutting edge	1	751005 0025	6,80
S35	Straight edges, all materials	3.2	55	HSS M2	63Rc	Right-hand/left-hand cutting edge	10	751005 0035	1,75
S101	Fine edges, all materials	3.2	40	HSS M2	63Rc	Right-hand cutting edge	10	751005 0101	1,75
S101 TiN	Fine edges, all materials	3.2	40	HSS M2 TiN	63Rc	Right-hand cutting edge	10	751005 1010	3,35
S101 (left-hand)	Fine edges, all materials	3.2	40	HSS M2	63Rc	Left-hand cutting edge	10	751005 0110	2,99
S150	Bores < Ø1.5 mm	3.2	45	HSS M2	63Rc	Right-hand cutting edge	10	751005 0150	1,75
S150 TiN	Bores < Ø1.5 mm	3.2	45	HSS M2 TiN	63Rc	Right-hand cutting edge	10	751005 1050	4,18
S202	Brass, grey cast iron	3.2	55	HSS M2	63Rc	Left-hand cutting edge	10	751005 0202	1,75
S202 TiN	Brass, grey cast iron	3.2	55	HSS M2 TiN	63Rc	Left-hand cutting edge	10	751005 1202	4,18

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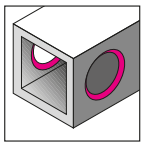

S-blades, reverse deburring tool

model	appropriate for	Angle °	Material	Hardness	Holding fixture Ø mm	Design		art.no.	€
S30	Internal and external deburring, steel, aluminium	40	HSS M2	63Rc	3.2	Right-hand cutting edge	10	**751005** 0030	1,75
S60	Rear side of workpieces, steel, aluminium	40	HSS M2	63Rc	3.2	Right-hand cutting edge	10	751005 0060	6,–

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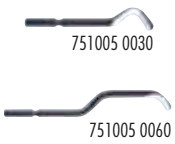

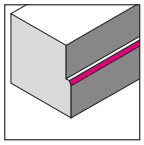

S-blades, step deburring tool

model	appropriate for	Angle °	Material	Hardness	Holding fixture Ø mm	Design		art.no.	€
S80	Shallow steps	35	HSS M2	63Rc	3.2	Right-hand cutting edge	10	**751005** 0080	2,75
S80 TiN	Shallow steps	35	HSS M2 TiN	63Rc	3.2	Right-hand cutting edge	10	751005 1080	4,95

7144

Blade set

appropriate for	Description	model	art.no.	€
For steel, aluminium, plastics, brass and cast iron	S10, S20, S30, S35, S60, S70, S100C, S101, S150, S202 blades (1 of each)	BS9999	**750505** 9999	25,95

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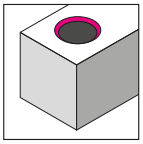
NOGA Countersinking bits

- **HSS**
- 90° countersink angle



Deburring heads

model	Holding fixture Ø mm	Diameter range mm	Material	Hardness	art.no.	€
C12	M7	1 - 12	HSS M2	63Rc	**751020** 0012	18,–
C20	M7	1 - 20	HSS M2	63Rc	751020 0020	25,70
C30	M7	1 - 30	HSS M2	63Rc	751020 0030	36,20
RD3.2	3.2	0 - 3	HSS M2	63Rc	751020 0032	12,75
RD6.3	3.2	1 - 6.3	HSS M2	63Rc	751020 1063	15,90
RD8.3	3.2	1 - 8.3	HSS M2	63Rc	751020 1083	16,10
RD10.4	3.2	1 - 10.4	HSS M2	63Rc	751020 1105	16,20
RD16.5	3.2	1 - 16.5	HSS M2	63Rc	751020 1650	21,30

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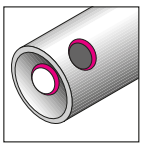

Blades for internal and external hole machining

model	Holding fixture Ø mm	Diameter range mm	Material	Hardness	art.no.	€
R1	-	3 - 5.5	HSS M2	63Rc	**751025** 0001	12,20
R2	-	5 - 10	HSS M2	63Rc	751025 0002	12,50
R3	-	10 - 22	HSS M2	63Rc	751025 0003	20,40

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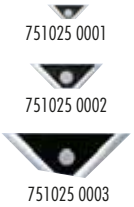

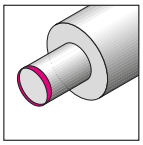

Exterior deburring

model	Holding fixture Ø mm	Diameter range mm	Material	Hardness	art.no.	€
RDE18	3.2	4 - 18	HSS M2	63Rc	**751020** 0100	15,10

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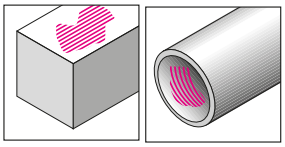
NOGA Scraper blades

- Wide range of applications
- Quick and easy to use



Scraper blades for surfaces

model	Holding fixture Ø mm	Ø mm	Length mm	Angle °	Material	Hardness	art.no.	€
D50	3.2	2.5	50	60	HSS M2	63Rc	**751015** 0050	8,15
D55	3.2	2.5	50	60	Solid carbide	1400-1700HV	751015 0055	21,20
D75	3.2	2.5	75	60	HSS M2	63Rc	751015 0075	9,20
T80	-	4.2	80	60	115 Cr V3	63Rc	751015 0080	8,95
T120	-	7.4	120	60	115 Cr V3	63Rc	751015 0120	17,25

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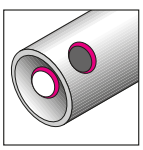

Scraper blades for reverse deburring

model	Holding fixture Ø mm	Ø mm	Length mm	Angle °	Material	Hardness	art.no.	€
D66	3.2	2.7	50	50	HSS M2	63Rc	**751015** 0066	6,35
D77	3.2	2.7	75	50	HSS M2	63Rc	751015 0077	9,20

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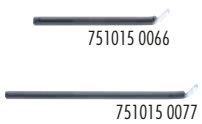

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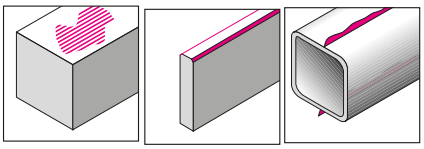
Scraper blades for surfaces, flanks, weld seams



model	Holding fixture Ø mm	Ø mm	Length mm	Angle °	Material	Hardness		art.no.	€
CR2200	-	-	-	90	Ceramics	1400-1700HV	1	**751015** 2200	22,30
CR2500	-	-	-	90	Ceramics	1400-1700HV	1	751015 2500	25,50
S70	3.2	3.2	57	45	HSS M2	63Rc	5	751005 0070	5,95

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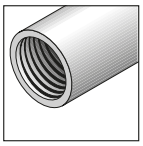
751005 0070

751015 2200

751015 2500

NOGA Thread deburring blades

- **HSS**
- 3.2 mm rotary blade
- For cleaning internal threads



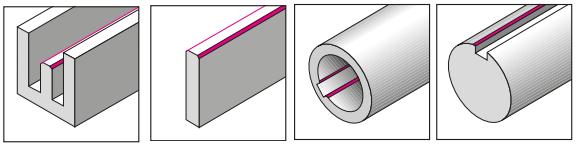
model	Holding fixture Ø mm	Working area mm	Angle °	Material	Hardness		art.no.	€
TC	3.2	1 - 9	90	HSS M2	58Rc	10	**751005** 0300	5,70

7144

751005 0300

NOGA Double-edge cutting blades

- **HSS**
- Deburring on both sides in one stroke



Double-edge cutting blades for flanks

model	Working area mm	Angle °	Material	Hardness	suitable for holder		art.no.	€
L3	1 - 8	50	HSS M2	65Rc	L holder	5	**751015** 0003	4,25
L4	0 - 0.25	50	HSS M2	65Rc	L holder	1	751015 0004	4,25
N80 (for use in pairs)	0 - 12	55	HSS M2	65Rc	(N holder)	5	751010 0080	4,25
N80 M42 (for use in pairs)	0 - 12	55	HSS M42	67Rc	(N holder)	5	751010 0180	6,95

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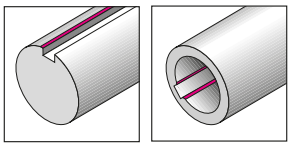
751015 0003

751010 0080

751015 0004

751010 0180



Double-edge cutting blades for grooving

model	Working area mm	Angle °	Material	Hardness	suitable for holder		art.no.	€
N70K	1.2 - 8	55	HSS M2	65Rc	K holder	5	**751010** 0070	6,95
N80K	2.4 - 11	55	HSS M2	65Rc	K holder	5	751010 0085	5,30
N80KM42	2.4 - 11	55	HSS M42	67Rc	K holder	5	751010 0185	6,95
N90K	3 - 15	55	HSS M2	65Rc	K holder	5	751010 0090	7,75

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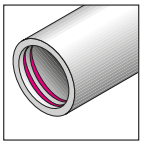
751010 0070

751010 0185

751010 0085

751010 0090



Double-edge cutting blades for thread flanks

model	Working area mm	Angle °	Material	Hardness	suitable for holder		art.no.	€
OR	1 - 3	40	HSS M2	65Rc	SN holder, S holder, NG-1 handle	5	**751005** 0310	7,35

7144

751005 0310

NOGA Blade holder

model	Description	Length mm	suitable blades	art.no.	€
EL02003	S holder, extendible from 30 to 115 mm, suitable for NG-3 handle	131	All model S blades (Ø 3.2 mm)	**750501** 2002	8,90
EL01033	N holder, extendible from 25 to 115 mm, suitable for NG-3 handle	131	All model N blades (Ø 2.6 mm)	750501 2003	8,90
CH3000	Holder C, with male thread M7 for holding countersink, suitable for handle NG-3	131	Countersink C12, C20, C30	750501 2004	7,15
EL06023	T holder, suitable for NG-3 handle	131	Scrapers T 50, T 70	750501 2005	7,15
EL05003	D holder, with clamping screw M3 and clamping key, suitable for handle NG-3	131	Scraping tools D 50, D 66	750501 2006	6,10
EL04003	K holder with M3 clamping screw, suitable for NG-3 handle	135	All model K blades	750501 2007	7,50
EL07013	L holder with square 3 mm mount and 4 mm clamping screw, suitable for handle NG-3	131	All model L blades	750501 2008	7,50
SN1000	SN holder with double-ended extendible blade mount, 2.6 and 3.2 mm; suitable for UNI handle	145 x Ø 7	All model S and model N blades	750501 2001	9,95

7143

S blades Ø 3.2 mm, N blades Ø 2.6 mm

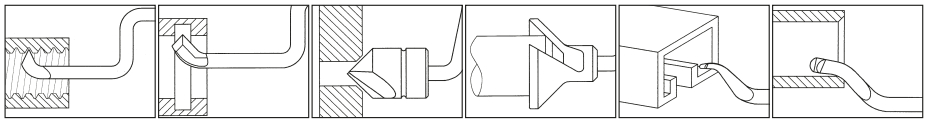
NOGA Handles

model	Description	Dimensions	suitable blades	art.no.	€
NG 1000	NG-1 handle with spare compartment in cap	-	All model S blades (Ø 3.2 mm)	**750501** 3010	7,90
NG 2000	NG-2 handle with spare compartment in cap	-	All model N blades (Ø 2.6 mm)	750501 3020	7,90
NG 3000	NG-3 handle with spare compartment in cap	-	All holders (not SN 1000)	750501 3030	7,90
UH1000	UNI handle, universal plastic handle	130 x 26	SN holder and T120 blades	750501 1010	7,50
RB1600	RG handle, hexagonal, aluminium	130 x 12	S blades, Ø 3.2 mm	750501 1600	8,95
SC1300	SC handle	120 x 12	Scraping tools D50, D55, D66, D75, D77, T80	750501 1300	11,80

7143

NOGA 007 universal deburring tool set

- Set for deburring and countersinking work
- Thread cleaning and deburring for female threads from Ø 9 mm
- Deburring O-ring recesses from Ø 3 mm
- Countersinking up to Ø 16.5 mm
- External deburring from Ø 4 mm to Ø 18 mm
- Deburring small profiles and bores from Ø 1.5 mm
- Deburring particularly hard materials



model	Description	art.no.	€
SP1007	RB handle, aluminium; 1 of each blade: OR, RD 16, 5, RDE18, TC, S100, S150	**750505** 0007	49,95

7145

NOGA Deburring tool set in a hand-held fold-out holder

- 4 in 1 system
- Ideally suitable for steel, aluminium and plastics

Description	art.no.	€
1 S10 deburring tool, 1 D50 scraper, 1 N2 deburring tool, 1 90° countersink for 1 - 10.4 mm	**750510** 1000	62,80
	7143	

NOGA Mini hand-held deburring tool set

- Ideal for tool and mould makers
- For very fine work
- Blades are **not** replaceable

Set

model	Contents	art.no.	€
FT3000	1 mini deburring tool, 1 mini scraper, 1 mini countersink	**750506** 3000	31,90
		7144	

Spare blades

Description	art.no.	€
Mini deburring tool	**750506** 1000	6,95
Mini scraper	750506 1100	13,90
Mini countersink	750506 1200	11,25
	7144	

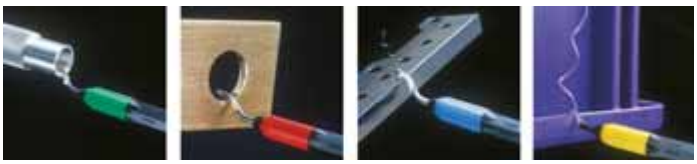
750506 1000

750506 1100

750506 1200

NOGA Universal hand-held deburring tool set

- **4 pcs.**
- Hand-held deburring tools, colour-coded and fitted with different blades
- For machining **steel, brass, aluminium, plastic**



model	Description	art.no.	€
EO 2100	4x EO handles, black, colour-coded; blades S10, S20, S100, S150 (1 of each)	**750505** 0004	17,50
		7145	

70

Cut-proof gloves

- **Good cutting protection, breathable**
- **Outstanding comfort**

Page 90-52

NOGA Hand-held deburring tool sets

In a blister pack

model	Description	appropriate for	art.no.	€
NG8000	NG-2 handle 10x N1 blades	For steel, aluminium and plastics	**750505** 8000	19,40
NG8050	NG-2 handle 20x N1 blades	For steel, aluminium and plastics	750505 8050	30,50
NG8100	NG-2 handle 20x N10 blades	For plastics and hard materials	750505 8100	27,50
NG8150	NG-1 handle 10x S10 blades	For steel, aluminium and plastics	750505 8150	18,30
NG8200	NG-1 handle 20x S10 blades	For steel, aluminium and plastics	750505 8200	28,75
NG8250	NG-1 handle 20x S100 blades	For plastics and hard materials	750505 8250	39,–
NG8300	NG-3 handle 1x N holder 5x N1 blades; 5x N2 blades	For steel, aluminium, plastics, brass and cast iron	750505 8300	22,40
NG8350	NG-3 handle 1x S holder 5x S10 blades; 5x S20 blades	For steel, aluminium, plastics, brass and cast iron	750505 8350	23,95

7145

Hand-held deburring tool sets

model	Dimensions	Description	Contents	art.no.	€
NG9200	251 x 120 x 40	Bronze deburring tool set, 13-pcs.	1x NG-3 handle 1x N holder; 1x S holder 1x C holder; 1x C20 countersink insert 1x D holder; 1x D50 scraper blade 1 of each blade: N1, N2, S10, S20, S30, S150	**751510** 9200	69,95
NG9300	251 x 120 x 40	Silver deburring tool range, 11-pcs.	1x NG-3 handle 1x S holder; 1x RC 2000 rear-side deburring tool 1x plastic hexagonal handle, mount diameter 3.2 mm 1 of each RotoDrive: RD 3.2 mm, 10.4 mm, 16.5 mm 1x external RotoDrive, 18.0 mm 1 of each blade: S10, S20, S30	751510 9300	99,95
NG9400	270 x 230 x 50	Gold deburring tool set, 20-pcs.	1x NG-3 handle 1x aluminium hexagonal SC 1300 handle 1x plastic hexagonal handle, mount diameter 3.2 mm 1x S holder; 1x N holder; 1x C holder 1x C20 countersink insert; 1x D holder 1x D50 scraper blade; 1x K holder; 1x N80K blade 1 of each blade: N1, N2, S10, S20, S30, S150, D66, RD10.4 1x hexagonal offset screwdriver, 1.5 mm	751510 9400	111,–
NG9500	270 x 230 x 50	Platinum deburring tool set, 25-pcs.	1x DB 1000 hand-held deburring tool 1x NG-1 handle; 1x NG-3 handle 1x aluminium hexagonal TB 1000 handle 1x S holder; 1x N holder; 1x K holder; 1x N80K blade 1x D holder; 1x D66 scraper blade; 1x C holder; 1x C20 countersink insert; 1x T holder; 1x T70 scraper blade 1x RD 10.4 mm RotoDrive; 1x external RotoDrive, 18.0 mm 1 of each blade: N1, N2, S10, S20, S30, S150 1 hexagonal offset screwdriver, 1.5 mm	751510 9500	175,–
SP7700	270 x 230 x 50	TOP7 deburring tool set, 7-pcs.	1 NG3100 1 NG3700 1 NG3200 1 SC8000 1 NG3300 1 NG3710 1 NG3003	751510 7700	129,90

7145

Scraper

DIN 8350 A | DIN 8350 C | DIN 8350 B

Flat scraper, chrome vanadium steel, wooden handle

DIN 8350 A

Blade length mm	Blade width mm	art.no.	€
100	16	**742071** 0100	5,40
150	18	742071 0150	5,80
200	20	742071 0200	6,75
		7134	

Flat scraper with carbide indexable insert (K20), plastic handle

- Carbide indexable insert, four-edged, ground and lapped
- Can also be used with electric hand scrapers

Blade length mm	Insert dimension mm	Scraper, complete art.no.	€	HM indexable insert art.no.	€
290	25 x 20 x 2	**742072** 0290	48,60	**742073** 0290	28,40
340	25 x 25 x 2	742072 0340	58,50	742073 0340	29,40
340	25 x 30 x 2	742072 1340	61,50	742073 1340	34,90
		7134		7134	

Flat scraper, carbide-tipped, wooden handle

Blade length mm	Blade width mm	art.no.	€
200	15	**742074** 0200	41,70
220	20	742074 0220	44,50
250	25	742074 0250	46,70
		7134	

Triangular hollow scraper, chrome vanadium steel, wooden handle

- DIN 8350 C

Blade length mm	Blade width mm	art.no.	€
100	12	**742079** 0100	5,30
125	12	742079 0125	5,60
150	14	742079 0150	5,75
200	16	742079 0200	6,05
		7134	

Triangular solid scraper, chrome vanadium steel, wooden handle

- DIN 8350 B

Blade length mm	Blade width mm	art.no.	€
150	10	**742084** 0150	6,15
200	14	742084 0200	7,10
		7134	

… with safety

ATORN®
High quality for great performance

VARTA Batteries

- High-quality branded long-life alkaline batteries
- Price per pack

Batteries

Designation	Tension V	Type	Contents	art.no.	€
LR03, Micro, AAA	1.5	Alkaline / high-energy	PU=4 units	**548079** 4003	6,49
LR6, Mignon, AA	1.5	Alkaline / high-energy	PU=4 units	548079 4006	6,49
LR14, Baby	1.5	Alkaline / high-energy	PU=2 units	548079 4014	6,49
LR20, Mono, D	1.5	Alkaline / high-energy	PU=2 units	548079 4020	6,49
6LR61, 9 V block	9.0	Alkaline / high-energy	PU= 1 unit	548079 4022	6,49
				5125	

Longlife / Power rechargeable batteries

Designation	Tension V	Type	Contents	art.no.	€
LR3, Micro battery, AAA	1.2	Longlife battery	PU=2 units	**548079** 7001	7,49
LR6, Mignon battery, AA	1.2	Longlife battery	PU=2 units	548079 7002	7,49
LR14, Baby battery, C	1.2	Power battery	PU=2 units	548079 7103	14,99
LR20, Mono battery, D	1.2	Power battery	PU=2 units	548079 7104	14,99
6LR61, 9 V block battery, E	8.4	Power battery	PU= 1 unit	548079 7105	12,99
				5125	

Universal charger

Description	art.no.	€
Universal charger for AAA, AA, C, D and E	**548080** 1000	24,80
	5125	

Button batteries / special batteries

Designation	Tension V	Type	Contents	art.no.	€
Button battery 13ZL	1.4	Zinc-air	PU=6 units	**548079** 4606	8,49
Button battery 10GA	1.5	Alkaline / high-energy	PU= 1 unit	548079 4706	3,39
CR2032 button battery	3.0	Lithium	PU= 1 unit	548079 6032	4,99
CR2450 button battery	3.0	Lithium	PU= 1 unit	548079 6450	4,99
SR44 (357) button battery	1.55	Silver oxide	PU= 1 unit	500534 0001	4,20
23A	12	Alkaline / electronic	PU= 1 unit	548079 4223	4,99
LR1, Lady	1.5	Alkaline / electronic	PU= 1 unit	548079 4001	2,12
CR123A	3.0	Lithium	PU= 1 unit	548079 6205	7,40
				5125	

Battery tester

"Mr. Check" battery tester

- Charge status is displayed by LED lights
- Checks all common battery types
- Suitable for: AAAA, AAA, AA, C, D, 9 V, 1.5 V & 3 V button cells

Design	art.no.	€
Digital	**770000** 0334	6,99
	7157	

ATORN® Universal LED lamps

"Spy" LED lamp

- Powerful light with 6 SMD (surface-mounted device) LED, 110 lumen
- Stable ABS plastic housing, shockproof
- Soft-Touch surface
- **Strong magnetic base**
- Practical clip for trouble-free operation
- Light-on time approx. 12 hours
- Range approx. 15 m
- **Splash-proof (IPX4)**
- Supplied with 3x AAA batteries

Colour	Length mm	Weight g	art.no.	€
Red	160	31	**774005** 0020	10,95
Black	160	31	774005 0021	10,95

7157

"Penlight" LED lamp

- Robust aluminium
- White, high-performance LED, focusing lens
- Rubber-coated pressure switch with permanent on and taser function
- Positive-fit spring steel push-on clip
- Supplied with: 1x AAA battery

Length mm	art.no.	€
100	**774003** 0004	6,60

7151

MAG-LITE® Torches

- Extremely high luminosity
- Extremely robust
- Sophisticated design
- The genuine article from the USA
- Made from high-strength aluminium, black
- Splash-proof thanks to O-rings, max. corrosion protection

770103 0001

770103 0002

model	Light source	Length mm	Description	art.no.	€
Mini Mag AAA	White/halogen	129	In a gift case; includes 2 Micro batteries (AAA)	**770103** 0001	36,80
Mini Mag AA	White/halogen	146	In a gift case; includes 2 Mignon batteries (AA)	770103 0002	40,20
Maglite 2D	White/krypton	254	Takes 2 size D batteries (sold separately); 1 spare light bulb included	770103 0003	73,50
Maglite 3D	White/krypton	313	Takes 3 size D batteries (sold separately); 1 spare light bulb included	770103 0004	72,50

7150

MAG-LITE® LED torches

- LED - 3 Watt
- LED service life = 10,000 hrs.
- Colour: black

770103 0007

770103 0006

770103 0006

770103 0007

Designation	Light source	Length mm	Description	art.no.	€
Mini-Maglite LED	LED	170	With belt holder, including 2 batteries (AA)	**770103** 0007	84,50
Maglite 2D LED	LED	250	Takes 2 size D batteries (sold separately)	770103 0006	121,–

7150

LED torch

- Rubber torch with non-slip handle
- Splash-proof and shock-proof
- **Supplied without batteries** (weight excludes batteries)

Light source	Description	Length mm	Weight g	art.no.	€
1 W	90 m lighting range, 3-4 hours light-on time, excl. 2x Mignon batteries (AA)	179	152	**770111** 0001	12,75
3 W	120 m lighting range, 7 hours light-on time, excl. 2 Mono batteries (D)	218	252	770111 0003	17,95

7150

ATORN® LED work light

- Latest LED technology
- With torch function / spot lighting (4 x 5 mm LEDs in the lamp head)
- Extra strong magnet in the lamp base and on the rear
- Li-Ion technology (the battery reaches 80% capacity after just 1 h charging)
- Practical fold-out base

Length mm	Light output W	art.no.	€
120	2	**774003** 0003	47,70
		7151	

ATORN® Battery LED work light

- Latest LED technology
- With torch function / spot lighting (3 x 5 mm LEDs in the lamp head)
- Extra strong magnet in the lamp base
- QS-checked snap mechanism
- Li-Ion technology (the battery reaches 80% capacity after just 1 h charging)
- With foldable, break-resistant hook
- Can be rotated through 360°
- Rubber-coated pressure switch
- Supplied with charging station

Length mm	Light output W	art.no.	€
170	2	**774003** 0002	53,50
		7151	

HEDI Compact hand-held battery LED lamp

- Practical, shock-proof battery-powered portable lamp, rubber casing
- For flexible workshop and warehouse use, for installation work or repairs
- Small size, ideal for trouser and jacket pockets
- 28 white LEDs for bright and focussed light
- Magnetic clamp and one folding, rotating plastic hook for hanging
- Replaceable battery (4.0 hours without re-charging)
- Shock-resistant housing
- On/off switch
- Supplied with battery, 250 V charger, in-car charger

Length mm	Width mm	Depth mm	Weight kg	art.no.	€
250	50	50	0.305	**774002** 0001	44,90
				7157	

... from Ø 0.2 mm

ATORN®
High quality for great performance

HEDI Machine workbench lamps

LED

- Broad-beam machine lamp with 3x 1 Watt LED bulbs
- Low energy consumption, low housing temperature (max. 26 °C)
- Max. bulb temperature 47 °C
- No UV rays; objects in the light beam will not heat up
- Protection class II, protection rating IP20
- Supplied with 3 m connection lead, 230 V Euro plug, table clamp and magnetic clamp

Total height mm	Width mm	Depth mm	Light source	art.no.	€
680	90	170	LED 3x 1 W	**771012** 0001	142,–
				7157	

Accessories

Description	suitable for	art.no.	€
Magnet, Ø 80 mm	LED	**771011** 0003	20,90
		7157	

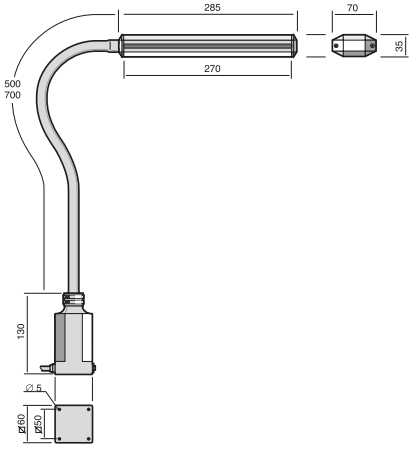
HEDI LED pro LED machine lamp

- Optimum daylight-quality illumination
- **9x 1 W LED lamps**, low energy consumption
- Objects in the light beam will not heat up
- **Splash-proof IP64**
- Supplied with magnetic clamp and table clamp

Arm length mm	Connection V	art.no.	€
400	230	**771013** 0001	275,–
400	24	771013 0002	295,–
		7157	

sunnex Workplace lamps CL Flex

- **11 Watt**
- Compact fluorescent tube
- Exceptionally long service life
- Low-dazzle
- Lamp head made from extrusion-moulded aluminium
- Choice of two lengths
- 11 W light output is approx. equivalent to a 75 W bulb
- Use: general industrial applications, measurement stands

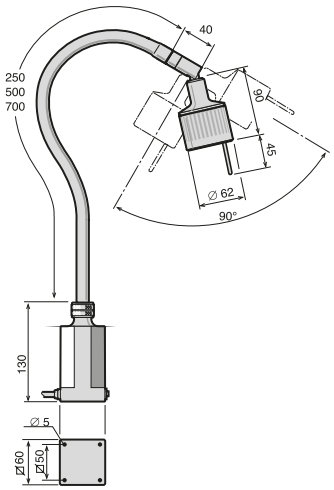


model	Arm length mm	Connection	Light source	art.no.	€
14820	500	230 V	11 W	**772025** 4820	149,–
				7149	

sunnex Halogen machine and industrial light HS

IP20

- **20 Watt**
- Classic and exceptionally high-quality flexible arm
- Lamp head made from shock-proof hard plastic
- Convenient spotlight package
- Available either with a built-in transformer or as a low-voltage variant for connecting directly to the machine
- For use as a spotlight e.g. for production machines, machine tools, assembly work, high-precision mechanical work etc.
- Connection: 230 V Euro plug or 24 V direct connection



model	Arm length mm	Connection	Design	Light source	art.no.	€
14100	500	230 V	Non-articulated	12 V / 20 W	**772001** 4100	148,–
14110	500	230 V	Articulated	12 V / 20 W	772001 4110	157,–
14400	500	24 V	Non-articulated	24 V / 20 W	772001 4400	94,–
14410	500	24 V	Articulated	24 V / 20 W	772001 4410	104,–

7149

sunnex LED machine light LS

IP20

NEW · NUOVO · NY · NOUVEAU · NUEVO

- **3 W power LED light** (corresponds to a 20 W halogen light)
- **Colour temperature of 5500° Kelvin (daylight)**
- Flexible gooseneck arm for precise adjustment
- Also suitable for a 230 V connection via an optional plug-in adaptor
- 165 lumen, 6,100 lux at a distance of 50 cm, LED radiation angle 15°
- Colour rendering index min. 80 Ra
- Special designs are available on request

LED service life > 25,000 h

772026 0101

772026 0501

model	Design	Arm length mm	Connection	Light source	art.no.	€
30330	Spot with joint	40	12-24 V AC/DC	3 W	**772026** 0101	152,–
30305	Without joint	500	12-24 V AC/DC	3 W	772026 0501	177,–
30320	With joint	500	12-24 V AC/DC	3 W	772026 0502	192,–
30310	Without joint	700	12-24 V AC/DC	3 W	772026 0701	181,–
30325	With joint	700	12-24 V AC/DC	3 W	772026 0702	210,–

7149

sunnex PLUTO LED machine light

NEW · NUOVO · NY · NOUVEAU · NUEVO

- The ideal light for all precision tasks thanks to its compact size and particular flexibility
- High-quality light beam, exceptional colour impression and practically zero thermal radiation
- **Colour temperature 4000° Kelvin**
- Aluminium lamp head
- Flexible gooseneck
- Three-way interchangeable optics, 10°/25°/40° for multiple applications
- 70 lumen, 1000 lux
- Colour rendering index min. 92 Ra

model	Design	Arm length mm	Connection	Light source	art.no.	€
22702	With joint	500	12-24 V AC/DC	1.2 W	**772024** 2270	160,–

7149

sunnex TELLUS LED machine light

- Very flexible for special and industrial applications
- A range of designs for optimum lighting results
- Robust aluminium lamp head with flexible gooseneck
- LED technology for low power consumption and high service life
- Practically zero thermal radiation from light beam
- **Colour temperature 4000° Kelvin**
- 230 lumen, 8800 lux
- Colour rendering index min. 92 Ra

NEW · NUOVO · NY · NOUVEAU · NUEVO

LED service life > 30,000 h

model	Design	Arm length mm	Connection	Light source	art.no.	€
34160	Spot with joint	40	12-24 V AC/DC	3.3 W	**772029** 3416	191,–
34110	With joint	500	12-24 V AC/DC	3.3 W	772029 3411	240,–
34200	Without joint	500	12-24 V AC/DC	3.3 W	772029 3420	270,–
34300	Dimmer function, without joint	500	12-24 V AC/DC	3.3 W	772029 3430	335,–
34220	Without joint	700	12-24 V AC/DC	3.3 W	772029 3422	275,–

7149

sunnex LED machine light SOLUS 6

IP20 IP65

- **5.5 W power LED, colour temperature of 4000° Kelvin**
- Also suitable for a 230 V connection via an optional plug-in adaptor
- **300 lumen, 30,600 lux** at a distance of 50 cm, LED radiation angle 10°
- Aluminium lamp head which perfectly conducts heat away
- Also available with an LED radiation angle of 25° or 40° on request

NEW · NUOVO · NY · NOUVEAU · NUEVO

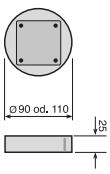
LED service life > 30,000 h

model	Design	Arm length mm	Connection	Light source	Protection type	art.no.	€
33610	With joint	500	12-24 V AC/DC	5.5 W	IP 20	**772027** 0501	290,–
33605	Without joint	500	12-24 V AC/DC	5.5 W	IP 65	772027 0502	310,–
33630	With joint	700	12-24 V AC/DC	5.5 W	IP 20	772027 0701	300,–
33625	Without joint	700	12-24 V AC/DC	5.5 W	IP 65	772027 0702	325,–

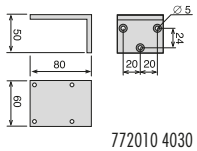
7149

sunnex Accessories and spare parts

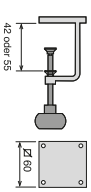
- **For the sunnex lighting range**



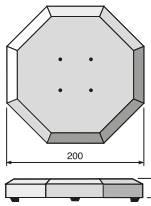
772010 4000



772010 4030



772010 4020



772010 4015

model	Description	suitable for model	art.no.	€
14000	Magnetic foot, Ø 90 mm	HS, LS, Pluto, Tellus	**772010** 4000	32,30
12010	Magnetic foot, Ø 110 mm	HF, CL, Solus 6	772010 2010	44,40
14030	Wall bracket, L-shaped, 50 x 80 mm	HS CL	772010 4030	20,20
14020	Screw clamp, 42 mm	HS CL	772010 4020	25,60
14015	Table base, octagonal, Ø 200 mm	HS CL	772010 4015	35,–
15882	Fluorescent tubes 11 W	CL	772010 5882	11,05
33901	Trafo 230 V / 12 - 24 V	LS/Solus 6/Solus 9	772010 2040	25,40

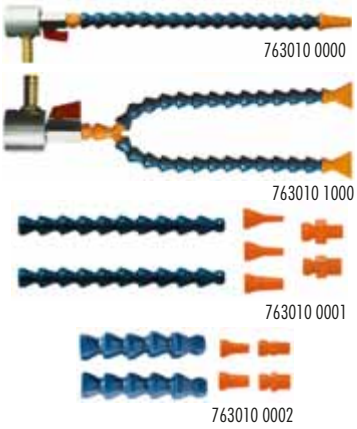
7149

KÜMI coolant supply system

- Adjustable coolant hose, comprising individual plastic elements
- For use on all machine tools
- Replacement for conventional systems, plastic elements can be flexibly adjusted which allows coolant to reach any desired position
- Non-conducting and resistant to most chemicals and solvents
- Also suitable for blowing out workpieces, clamping equipment and machine tables
- Complete systems with magnetic anchoring bases and individual elements allow for a large number of possible combinations
- Operating pressure max. 6 bar
- **Operating pressure up to max. 60 bar is possible by attaching band clamps 7630104001 or 7630204001**
- Compatible with the following systems: FLEXOLINE, OSSMANN, LOC-LINE, HYDRA, SNAPLOC, LUBE-COOL, VARIO, MAXIFLEXI
- Systems benefit from closer-fitting modules. This improves their ability to withstand higher pressures and ensures that the fluid stream remains directionally stable.

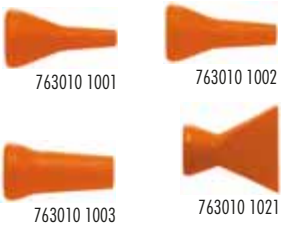
1/4" sets

Contents	art.no.	€
Articulated hose (16 modules); round nozzle, ID 6.4 mm threaded connector, 1/4"; metal ball valve, IT-ET 1/4" magnetic foot, round, 2 IT 90° threaded nozzle, 1/4" for 13 mm fabric hose	**763010** 0000	89,50
Articulated hose (2 x 13 modules); 2 flat nozzles, 24 mm; Y-distributor threaded connector, 1/4"; metal ball valve, IT-ET 1/4" magnetic foot, round, 2 IT 90° threaded nozzle, 1/4", for 13 mm fabric hose	763010 1000	114,–
Articulated hose set, 1/4"; articulated hose (2 x 10 modules) 3 round nozzles, ID 1.6 / 3.2 / 6.4 mm 2 threaded connectors, 1/4" + 1/8" NPT	763010 0001	11,10
Articulated hose (2 x 10 modules) approx. 31 cm long	763010 0002	9,35
	7147	



1/4" nozzles

Contents	art.no.	€
4 round nozzles, ID = 1.6 mm	**763010** 1001	7,95
4 round nozzles, ID = 3.2 mm	763010 1002	7,95
4 round nozzles, ID = 6.4 mm	763010 1003	7,95
2 flat nozzles, 24 mm wide	763010 1021	7,95
2 flat nozzles, 30 mm wide	763010 1022	13,45
	7147	



1/4" other accessories

Contents	art.no.	€
4 threaded connectors, 1/8" NPT	**763010** 1011	7,95
4 threaded connectors, 1/4" NPT	763010 1012	7,95
2 Y-distributors	763010 1031	7,95
2 elbow connectors, 90°	763010 1051	7,95
2 T-distributors	763010 1061	11,70
2 shut-off valves, for articulated hose	763010 1071	14,90
2 shut-off valves for articulated hose 1/4"	763010 1081	14,90
2 shut-off valves, male thread 1/4" NPT	763010 1091	14,90
1 triple holder for T-distributor 1/4"	763010 2003	11,70
1 magnetic foot with ball valve (female thread 1/4") and threaded nozzle for 13 mm fabric hose	763010 2004	33,30
1 monoblock distributor 4 outlets 1/4" and IT 3/8"	763010 2005	44,70
2 band clamps, 1/4" for retroactive fixing up to 60 bar	763010 4001	5,15
	7147	

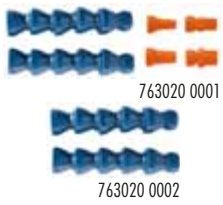
1/4" assembly pliers

Contents	art.no.	€
1 pair of assembly pliers for attaching and releasing joint components 1/4"	**763010** 3014	26,95
	7147	

Continued on next page >>>

1/2" sets

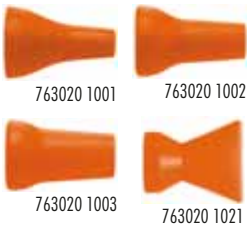
Contents	art.no.	€
Articulated hose (2 x 5 modules); 2 round nozzles, ID 9.5 / 12.7 mm; 2 threaded connectors, 3/8"+1/2"NPT	**763020** 0001	17,10
Articulated hose (2 x 5 modules), approx. 29 cm long	763020 0002	12,75
	7147	


763020 0001

763020 0002

1/2" nozzles

Contents	art.no.	€
4 round nozzles, ID = 6.4 mm	**763020** 1001	10,15
4 round nozzles, ID = 9.5 mm	763020 1002	10,15
4 round nozzles, ID = 12.7 mm	763020 1003	10,15
2 flat nozzles, 32 mm wide	763020 1021	10,15
2 flat nozzles, 50 mm wide	763020 1022	16,90
	7147	


763020 1001 763020 1002 763020 1003 763020 1021

1/2" other accessories

Contents	art.no.	€
4 threaded connectors, 1/2" NPT	**763020** 1011	10,15
4 threaded connectors, 3/8" NPT	763020 1012	10,15
2 Y-distributors	763020 1031	10,15
2 reducers, 1/2" to 1/4"	763020 1041	10,15
2 Y-reducers, 1/2" to 2x 1/4"	763020 1042	10,15
2 elbow connectors, 90°	763020 1051	10,15
2 T-distributors	763020 1061	10,15
2 shut-off valves, female thread 1/2"	763020 1071	23,90
2 shut-off valves for articulated hose 1/2"	763020 1081	23,90
2 shut-off valves, male thread 1/2" NPT	763020 1091	23,90
1 triple holder for T-distributor 1/2"	763020 2003	10,15
1 monoblock distributor 4 outlets 1/2" and IT 3/8"	763020 2005	59,–
2 band clamps, 1/2" for retroactive fixing up to 60 bar	763020 4001	5,95
	7147	

763020 1011 763020 1031 763020 1041 763020 1042 763020 1051 763020 1061 763020 1071 763020 1081 763020 1091 763020 2003 763020 2005 763020 4001

1/2" assembly pliers

Contents	art.no.	€
1 pair of assembly pliers for attaching and releasing joint components 1/2"	**763020** 3012	26,95
	7147	

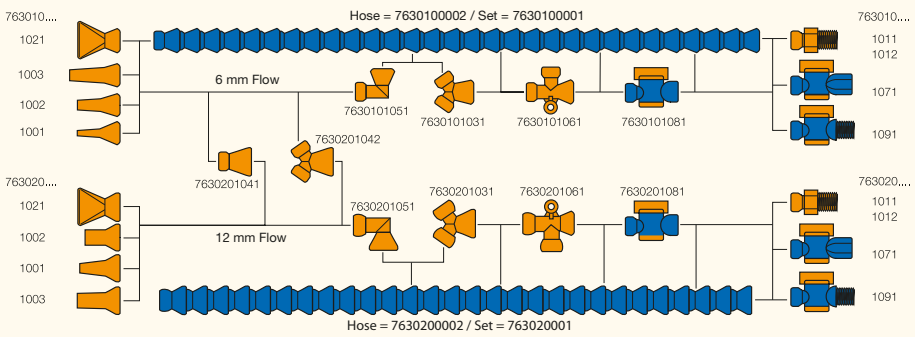
Sets

- 18-pcs.
- 1/4" or 1/2"
- Case with foam inlay

Contents	art.no.	€
6 hose modules; 1 pair of assembly pliers; 1 Y-distributor; 1 shut-off valve; 3 flat nozzles: 16-hole / 32 mm / 27 mm, 3 round nozzles: Ø 1.6 / 3.2 / 6.4 mm; 2 threaded connectors, 1/4" and 1/8"; 1 non-return valve, 1/4"	**763025** 1814	120,50
6 hose modules; 1 pair of assembly pliers; 1 Y-distributor; 1 shut-off valve; 3 flat nozzles: 8-hole / 50 mm / 35 mm, 3 round nozzles: Ø 6.4 / 9.5 / 12.7 mm; 2 threaded connectors, 3/8" and 1/2"; 1 non-return valve, 1/2"	763025 1812	131,–
	7147	

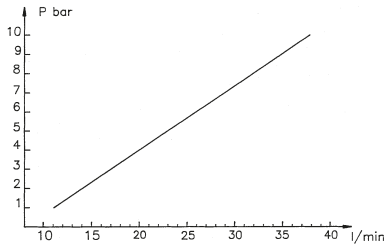
763025 1812

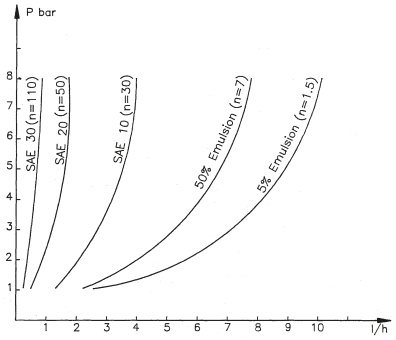
763025 1814



NOGA Coolant spray system MINI-COOL

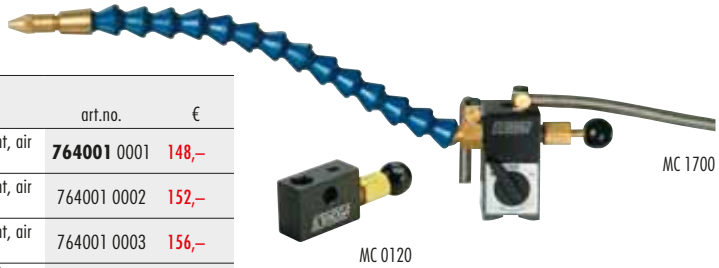
- For optimum and economical coolant distribution
- Pinpoint-accurate coolant supply for greater endurance
- Strong magnetic base
- Separate on/off switch
- Non-rusting nozzles and connection siphons
- Articulated arm = KÜMI hose





model	Description	art.no.	€
MC 1700	Complete system (264 mm) with magnetic foot, on/off switch for air and coolant, air supply hose (1 m), coolant supply hoses (1 m)	**764001** 0001	148,–
MC 1800	Complete system (334 mm) with magnetic foot, on/off switch for air and coolant, air supply hose (1 m), coolant supply hoses (1 m)	764001 0002	152,–
MC 2000	Complete system (479 mm) with magnetic foot, on/off switch for air and coolant, air supply hose (1 m), coolant supply hoses (1 m)	764001 0003	156,–
MC 3200	Complete system (2x479 mm) with magnetic foot, on/off switch for air and coolant, air supply hose (1 m), coolant supply hoses (1 m)	764001 0006	260,–
MC 0120	Adjustment nozzle	764001 0010	34,90
MC 0360	Siphon hose, 1 m	764001 0011	18,90
MC 0311	Siphon hose, 2 m	764001 0012	25,60
MC 0380	Air hose, 1 m	764001 0013	18,90
MC 0302	Air hose, 2 m	764001 0014	25,60
MC 0232	Banjo screw including ring gasket	764001 9902	10,45
MC 0001	Nozzle	764001 0017	5,95
MC 0101	Articulated hose, 14 elements with nozzle and connection	764001 0018	33,90
MC 0102	Articulated hose, 19 elements with nozzle and connection	764001 0019	33,90
MC 0103	Articulated hose, 29 elements with nozzle and connection	764001 0020	40,70

7146


MC 1700

MC 0120

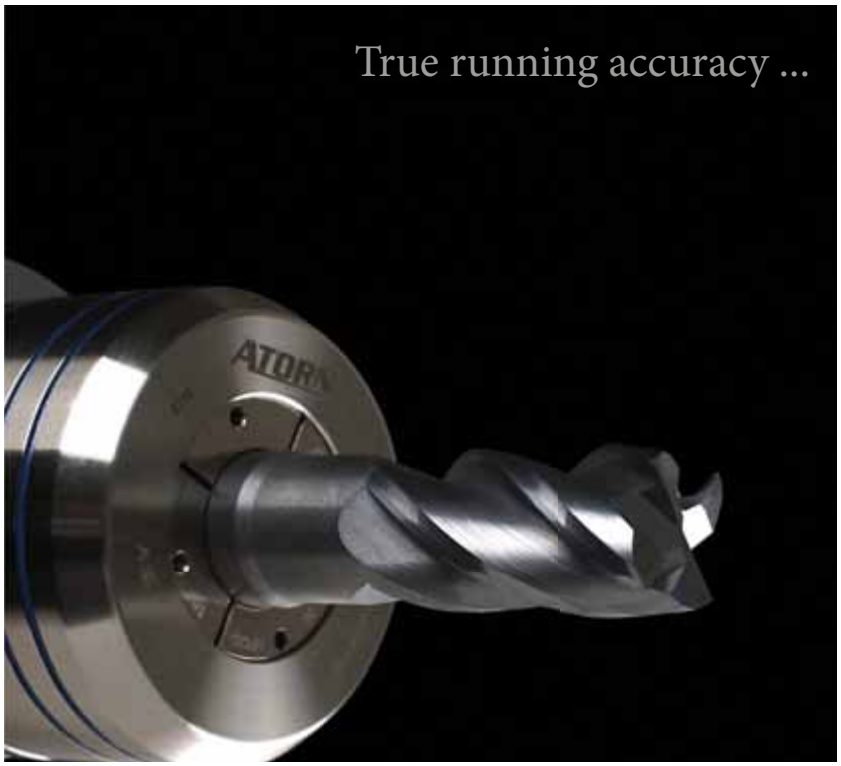
MC 0360

MC 0380

MC 0232

MC 0001

MC 0101



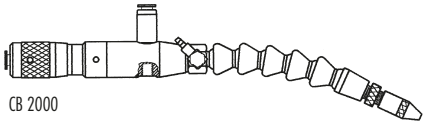
ATORN®
High quality for great performance

NOGA COBRA 2000 coolant spray system

- For optimum and economical drop or spray delivery of coolants and emulsions
- Drop or spray supply can be either manual or automatic
- Straightforward connection to compressed air supply (3 - 9 bar)

Set

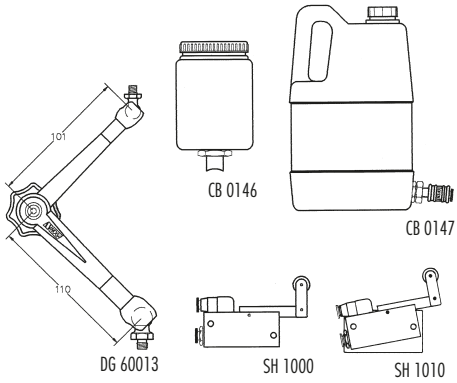
model	Description	art.no.	€
CB 2100	Standard set: CB 2000 base unit; DG 61003 articulated arm with SH 1000 magnetic foot; CB 0146 plastic container, 0.35 litres	**765001** 0002	589,–
		7146	

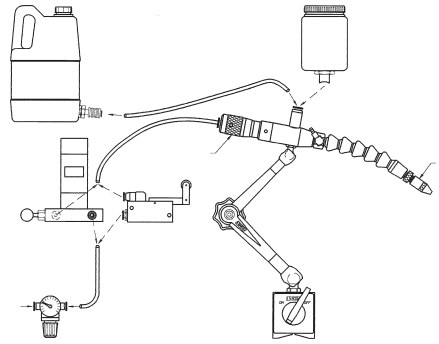


CB 2000

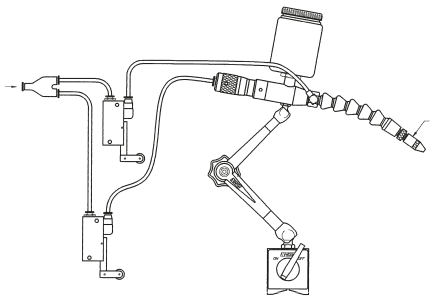
Accessories

model	Description	art.no.	€
CB 2000	Spray unit	**765001** 0001	189,–
CB 0146	Plastic container, 0.35 litres	765003 0001	34,20
CB 0147	Plastic container, 3.5 litres	765003 0002	57,–
SH 1000	Pump, mechanical	765003 0003	112,–
SH 1010	mechanical valve	765003 0004	199,–
DG 60013	Articulated arm	765003 0010	104,–
		7146	

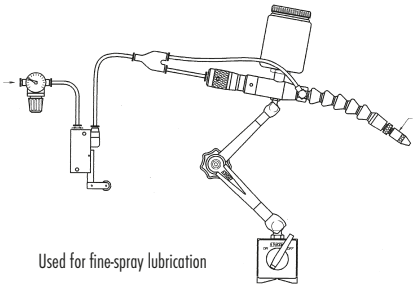




Use with mechanical pump or automatic pulse generator for drop lubrication



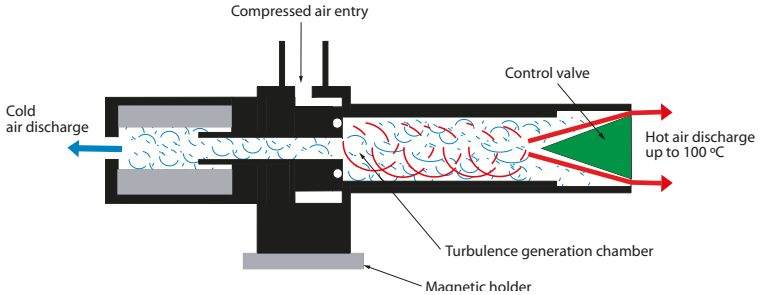
Used for constant drop or fine-spray lubrication



Used for fine-spray lubrication

SARA Pneumatic cold air nozzle

- Localised cooling for machine tools
- Dual function: both hot and cold air
- Ideal for use when no lubricating or coolant fluids are desired
- Simple compressed air connection (3 - 8 bar)
- **Operates based on the principle of a vortex tube in which two counter-rotating air flows are created**
- Cold air outlet in the blue component (down to -48 °C)
- Hot air outlet in the red component (up to 100 °C)
- Air consumption at 7 - 8 bar approx. 270 l/min
- Supplied with magnetic base, spherical valve, connection for 3/8 inch quick-action pneumatic coupling, silencer, 1/2 inch articulated hose with round nozzle



Hose connector Ø in	Compressed air connection in	art.no.	€
1/2"	3/8"	**763030** 0001	399,–
		7123	

LANG Blow-out fan CLEAN-TEC

- Flushing out bores
- Blowing out chips
- For all machining centres
- Streamlines the cleaning process
- Keeps production times consistent
- Saves on compressed air and shortens blow-out time
- Keeps chips from showering over the operator's hand and arm
- Cleans surfaces prior to touching with measuring probes
- Can be clamped in Ø 20 mm cylindrical tool holders
- Automatic substitution from the tool magazine
- Fibreglass shank with steel core

Caution: Clean-Tec may only be used in sealed cabins. Maintain minimum distance from the workpiece when changing and when the spindle stops!

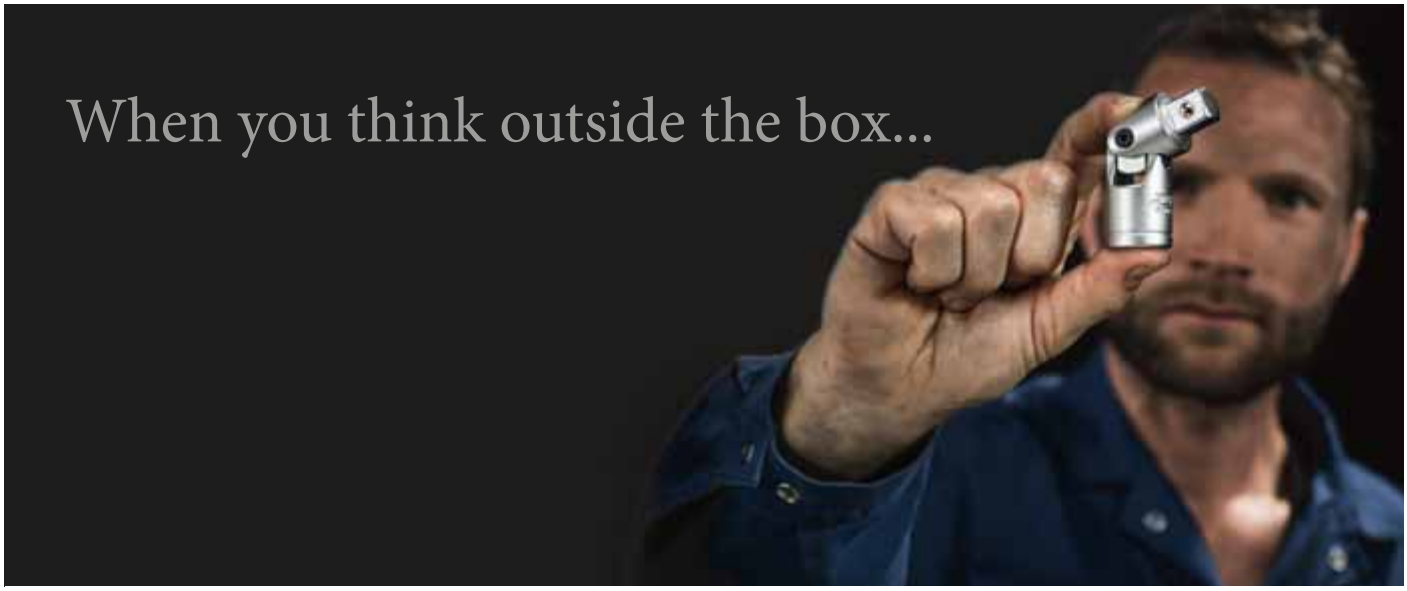
Fan

Description	max. speed r/min	art.no.	€
Clean-Tec, Ø 160 mm	6000 - 12,000	**742090** 0160	175,–
Clean-Tec, Ø 260 mm	5000 - 8000	742090 0260	181,–
Clean-Tec, Ø 330 mm	3000 - 8000	742090 0330	188,–
		7136	

Spare part kits

- Blades, springs and alignment pins - 4 of each

Description	art.no.	€
Spare parts kit, Ø 160 mm	**742091** 0160	54,50
Spare parts kit, Ø 260 mm	742091 0260	58,50
Spare parts kit, Ø 330 mm	742091 0330	62,–
	7136	



...new things are created.

ATORN®
High quality for great performance

SARA® Chip hooks

Chip hooks
- The affordable alternative
- Robust chip protection shield
- Optional chip scraper

Description	Contents	art.no.	€
Chip hook 325 mm	1 unit	**742096** 0325	17,25
Chip hook 525 mm	1 unit	742096 0525	19,30
Chip scraper width 120 mm, height 65 mm	2 units	742096 0600	13,50

7123

Chip hooks

2-component chip hook
- **Ergonomic 2-component handle**
- Robust chip protection shield
- Optional chip scraper
- Price per pack

Description	Contents	art.no.	€
Chip hook 300 mm (without chip scraper)	1 unit	**961002** 0300	21,20
Chip hook 500 mm (without chip scraper)	1 unit	961002 0500	23,20
Chip scraper width 120 mm, height 65 mm	2 units	961002 0600	12,55

7123

SARA® Chip collector

Magnetic chip collector
- For the removal of magnetic chips and small parts
- Integrated permanent magnet
- Remove chips by pulling the handle out of the permanent magnet
- Shield at handle end to prevent injuries
- Automatic material separation
- Low weight: 554 g
- Magnet traction: 19.3 kg

D mm	Length mm	art.no.	€
25	360 - 675	**742095** 0001	39,90

7123

... maximum material removal rate

ATORN®
High quality for great performance

sunnex Machine shoes OSM

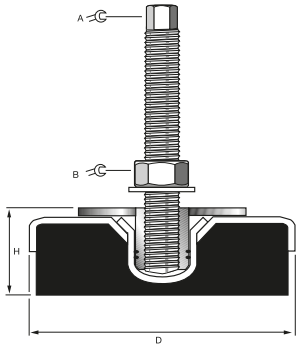
Compensation/vibration damping

- For loads of up to 5,500 kg per machine shoe
- Outstanding compensation properties
- Efficient vibration damping
- Reduction in disturbing direct noise
- Pressure plate with fine-pitch thread, adjusted using integrated compensation screws
- Steel casing, rubber damping element, resistant to most types of grease, acid, oil and coolant
- Particularly suitable for machine tools, presses, stamping and embossing machines, injection moulding machines

775010 0080

775010 0120

775010 0160



model	Load area daN	Injection moulding mach. <100 cycles/hr. daN	Presses, up to 125 strikes/min. daN	Presses, 125-160 strikes/min. daN	Presses, 160-200 strikes/min. daN	A wr. width mm	B wr. Width mm	D mm	H mm	Adjustment screw mm	**Galvanised** art.no.	€
OSM 1	50 - 500	50 - 200	70 - 200	60 - 140	50 - 120	9	19	80	38 - 50	M12 x 1.25 x 120	**775010** 0080	28,10
OSM 2	400 - 1000	200 - 400	200 - 400	120 - 350	100 - 250	12	24	120	46 - 59	M16 x 1.5 x 120	775010 0120	48,30
OSM 3	800 - 2000	400 - 1000	400 - 1400	350 - 1100	250 - 725	15	30	160	53 - 68	M20 x 1.5 x 170	775010 0160	64,50
OSM 4	1500 - 4000	1500 - 2500	1700 - 2800	1000 - 2100	800 - 1400	15	30	160	54 - 69	M20 x 1.5 x 170	775010 1030	108,–
OSM 5	3000 - 5500	2000 - 3800	3000 - 4000	2000 - 3500	1400 - 2400	15	30	200	56 - 71	M20 x 1.5 x 170	775010 1040	161,–

7153

Accessories and spare parts

Designation	suitable for model	art.no.	€
Standard screw, M12 x 1.25 x 120	OSM 1	**775020** 0001	8,45
Standard screw, M16 x 1.5 x 120	OSM 2	775020 0002	4,70
Standard screw, M20 x 1.5 x 170	OSM 3, 4, 5	775020 0003	10,90
Extended screw, M12 x 1.25 x 210	OSM 1	775020 1001	11,15
Extended screw, M16 x 1.5 x 210	OSM 2	775020 1002	13,70
Extended screw, M20 x 1.5 x 210	OSM 3, 4, 5	775020 1003	17,60
Washer	OSM 1	775020 2001	0,94
Washer	OSM 2	775020 2002	0,86
Washer	OSM 3, 4, 5	775020 2003	0,77
Nut M12 x 1.25	OSM 1	775020 3001	1,60
Nut M16 x 1.5	OSM 2	775020 3002	1,45
Nut M20 x 1.5	OSM 3, 4, 5	775020 3003	2,42

7153

Machine shoes

sunnex

Suitable for setting up tool, printing, plastic, textile and many other machines in all industries.
90% of all set-up problems with machines and related power units can be resolved with SUNNEX machine shoes.
Eliminates up to 85% of vibrations, impacts and noise.

Advantages:

- Low cost
- No need to create foundations
- Production can commence immediately after delivery and fitting
- Retrofitting your machine fleet can be done quickly

Selection of machine shoes:

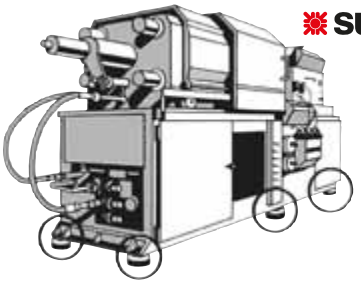
In order to select the correct SUNNEX machine shoe sizes, certain Information is needed:

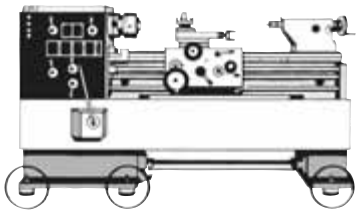
- Machine weight
- Number of supported surfaces for the machine shoes
- Supported load per machine shoe

Calculation:

$$\frac{\text{Machine weight}}{\text{Number of supported surfaces}} = \text{Size of the machine shoes}$$

(within the threshold range, the smaller of the possible sizes must be used!)

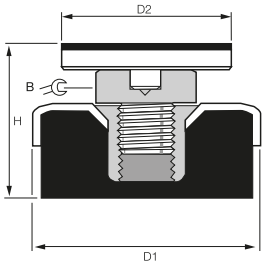




sunnex Machine shoes FSM

Compensation/vibration damping

- For loads of up to 1,000 kg per machine shoe
- For applications where screw holes are not available or are difficult to access
- Efficient vibration damping
- Reduction in disturbing direct noise
- Specially for free-standing applications
- Coated pressure plate, compensation screw in steel housing, damping element made from rubber, resistant to most types of grease, acid, oil and coolant
- Particularly suitable for machine tools, workshop machinery, stamping and embossing machines



model	Load area kg	D1 mm	D2 mm	H mm	B wr. Width mm	art.no.	€
FSM 11	50 - 500	80	60	55 - 65	30	**775030** 0011	47,80
FSM 12	400 - 1000	120	80	68 - 77	36	775030 0012	89,–
						7154	

sunnex Machine shoes AM

- **Compensation/vibration damping**
- For loads of up to 2,000 kg per machine shoe
- Stainless steel version also available for particularly demanding applications
- Articulated screw for inclined contact surfaces
- For damping light and medium-heavy machines
- Stainless steel version particularly suitable for humid, wet or corrosive environments with particularly high hygiene requirements
- Galvanised version for less challenging environments
- Integrated compensation screw
- Pitch adjustable by seven degrees
- Particularly suitable for the foodstuffs industry, process engineering, conveyor tracks, smaller workshop machines

model	Load area kg	D mm	L mm	H mm	Adjustment screw mm	B mm	Stainless steel art.no.	Stainless steel €	Galvanised art.no.	Galvanised €
AM 21	50 - 150	68	100	125	M10 x 1.5	17	**775040** 0001	40,60	**775050** 0001	23,40
AM 21	50 - 150	68	120	146	M12 x 1.75	19	775040 1001	41,20	775050 1001	25,60
AM 21	50 - 150	68	120	148	M16 x 2.0	24	775040 2001	52,50	775050 2001	27,70
AM 21	50 - 150	68	120	151	M20 x 2.5	30	775040 3001	68,–	775050 3001	32,30
AM 22	100 - 250	68	100	125	M10 x 1.5	17	775040 0002	43,–	775050 0002	25,60
AM 22	100 - 250	68	120	146	M12 x 1.75	19	775040 1002	43,70	775050 1002	24,40
AM 22	100 - 250	68	120	148	M16 x 2.0	24	775040 2002	54,–	775050 2002	30,60
AM 22	100 - 250	68	120	151	M20 x 2.5	30	775040 3002	70,50	775050 3002	34,–
AM 31	50 - 500	98	120	158	M12 x 1.75	19	775040 4001	57,50	775050 4001	39,–
AM 31	50 - 500	98	120	158	M16 x 2.0	24	775040 5001	65,–	775050 5001	41,10
AM 31	50 - 500	98	120	158	M20 x 2.5	30	775040 6001	77,50	775050 6001	44,80
AM 31	50 - 500	98	150	191	M24 x 3.0	36	775040 7001	109,–	775050 7001	58,–
AM 32	450 - 1000	98	120	158	M12 x 1.75	19	775040 4002	60,–	775050 4002	41,20
AM 32	450 - 1000	98	120	158	M16 x 2.0	24	775040 5002	67,50	775050 5002	43,70
AM 32	450 - 1000	98	120	158	M20 x 2.5	30	775040 6002	80,–	775050 6002	46,80
AM 32	450 - 1000	98	150	191	M24 x 3.0	36	775040 7002	109,–	775050 7002	60,–
AM 41	900 - 1500	140	120	169	M12 x 1.75	19	775040 0003	88,50	775050 0003	55,–
AM 41	900 - 1500	140	120	169	M16 x 2.0	24	775040 1003	95,50	775050 1003	57,50
AM 41	900 - 1500	140	120	169	M20 x 2.5	30	775040 2003	108,–	775050 2003	60,50
AM 41	900 - 1500	140	150	202	M24 x 3.0	36			775050 3003	72,50
AM 42	1400 - 2000	140	120	169	M12 x 1.75	19	775040 0004	91,50	775050 0004	57,50
AM 42	1400 - 2000	140	120	169	M16 x 2.0	24	775040 1004	98,50	775050 1004	59,50
AM 42	1400 - 2000	140	120	169	M20 x 2.5	30	775040 2004	111,–	775050 2004	63,–
AM 42	1400 - 2000	140	150	202	M24 x 3.0	36	775040 3004	136,–	775050 3004	75,–
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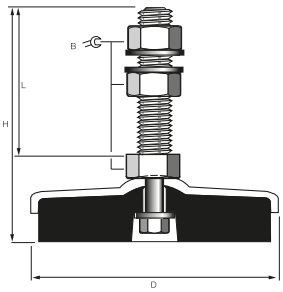
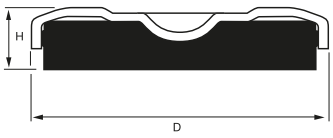


sunnex Machine shoes CM

- **Vibration damping**
- For loads of up to 4,000 kg per machine shoe
- For machines with integrated adjustment screws
- Very low height
- Stainless steel version also available on request
- Pressure plate made from galvanised sheet steel, base element made from high-strength rubber
- Very low height
- Extremely cost-effective
- Particularly suitable for workshop machinery, scales, slim machines and equipment

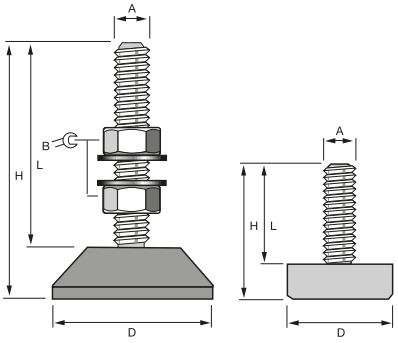


model	Load area kg	D mm	H mm	art.no.	€
CM 80	50 - 500	80	20	**775060** 0080	14,05
CM 120	400 - 1000	120	24	775060 0120	30,90
CM 160	800 - 2000	160	29	775060 0160	46,80
CM 200	1500 - 4000	200	30	775060 0200	78,50

7154

sunnex Machine shoes LLM

- **Compensation**
- For loads of up to 75 kg per machine shoe
- Galvanised and stainless compensation screws with vulcanised rubber bases
- Specially for lighter equipment such as woodworking machines, compressors, smaller industrial machines and office/domestic appliances
- Compensation screws with various types of vulcanised rubber bases
- Can be fitted in internal and external bores in the frame or casing
- Particularly suitable for small workshop machines, compressors and office/domestic appliances

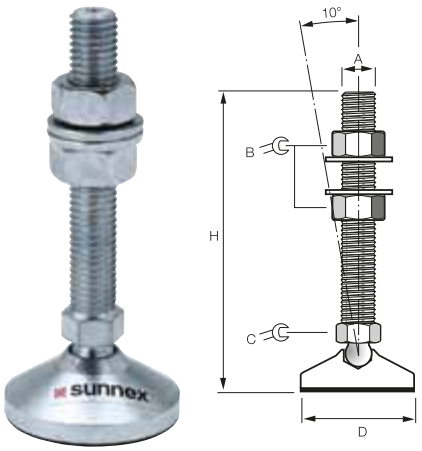


model	Load area kg	D mm	A mm	B mm	H mm	L mm	art.no.	€
LLM 19	75	46	M 10	17	53	38	**775070** 0046	8,85
LLM 259	30	30	M 6	-	38	28	775070 0030	4,26

7154

sunnex Machine shoes LL

- **Compensation**
- For loads of up to 2,000 kg per machine shoe
- Articulated screw allows inclines of up to 10° with respect to the contact surface
- Anti-slip feet to ensure a stable setup
- Galvanised steel version
- Provides stable compensation specifically for lighter equipment such as small workshop machines, instrument cabinets and office/domestic appliances
- Galvanised adjustment screw with articulated base
- Allows inclines of up to 10° with respect to the contact surface
- Thin friction mat made from specially treated nitrile rubber, coated
- Particularly suitable for small workshop machines, instrument cabinets and office/domestic appliances



model	Load area kg	D mm	H mm	h mm	B mm	C mm	A mm	art.no.	€
LL 10	1000	32	105	75	19	14	M 12	**775075** 0010	21,90
LL 12	1200	45	105	75	19	14	M 12	775075 0012	23,10
LL 20	2000	60	110	80	22	16	M 14	775075 0020	24,–

7154

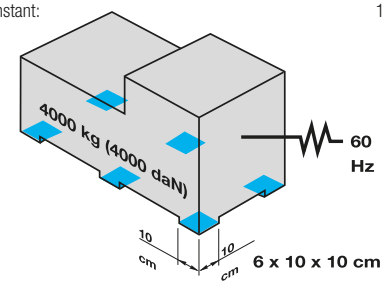
sunnex Damping mat SP

- Five different damping classes
- Efficient impact/vibration damping
- Reduces the transmission of machine noise
- Reduces the tendency of machines to "wander"
- For a wide range of industrial applications
- Five different versions with varying hardness, natural frequencies and load bearing capacities
- Specially developed nitrile rubber, resistant to most types of grease, acid, oil and coolant
- Can be cut to size

Calculation

Example:

Machine weight:	4,000 kg
Interference frequency:	60 Hz
Circulation:	10 x 10 cm / SP unit
Number of surfaces:	6
Constant:	1.5

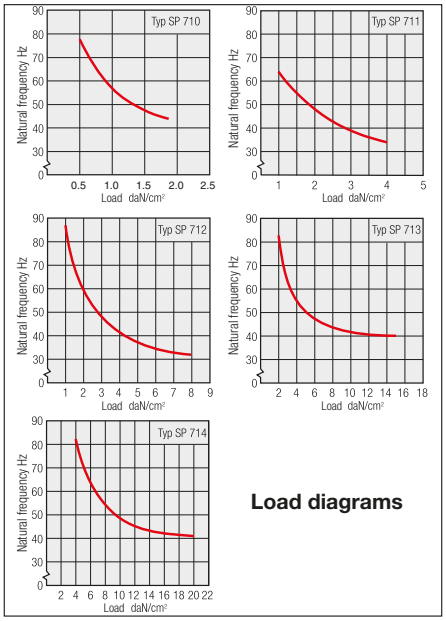


Surface load / plate:

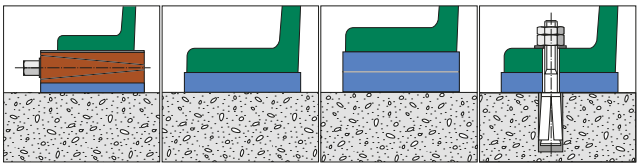
$$\frac{\text{Weight}}{\text{Total surface}} = \frac{4000}{6x10x10} = 6.67\ \text{daN/cm}^2$$

Max. natural frequency of the MP unit:

$$\frac{\text{Interference frequency}}{1.5} = \frac{60}{1.5} = 40\ \text{Hz}$$

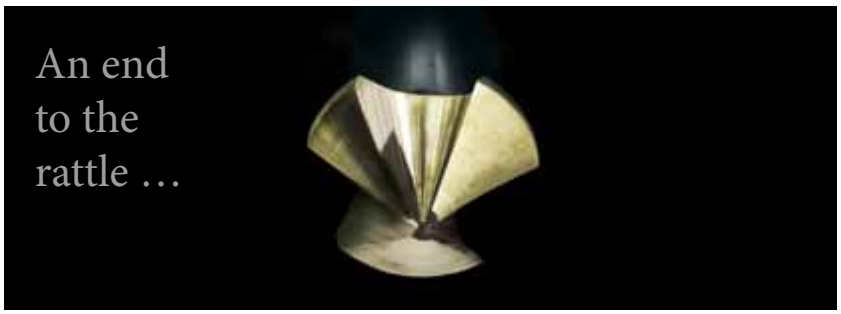


Load diagrams



model	Load area daN/cm²	Colour	Dimensions L x W x H mm	art.no.	€
SP 710	0.5 - 1.75	Black	450 x 450 x 8	**775501** 0710	79,–
SP 711	1.0 - 4.0	Black	450 x 450 x 8	775501 0711	79,–
SP 712	1.0 - 8.0	Black	450 x 450 x 8	775501 0712	82,–
SP 713	2.0 - 15.0	Black	450 x 450 x 13	775501 0713	112,–
SP 714	8.0 - 20.0	Green	450 x 450 x 13	775501 0714	110,–

7154



… caused by uneven divisions

ATORN®
High quality for great performance

ATORN® Small metal saws

- With all-purpose saw blade (PUK) and reinforced plastic handle
- Suitable for metal, plastic, wood

Sheet length mm	art.no.	€
150	**725111** 0150	9,50
	7162	

ATORN® Metal saw bow

With wooden handle
- For 300 mm handsaw blades
- Solid, strong frame
- Cross-recessed square holding fixtures

Length mm	art.no.	€
530	**725120** 0300	12,20
	7162	

Aluminium saw bow
- Solid cast aluminium
- Ergonomic shape
- Comfortable use with soft rubber grip and front handle
- Quick-clamping in handle
- Blade held by non-detachable pin
- **Supplied** without saw blade

Sheet length mm	Weight kg	art.no.	€
300	0.65	**725126** 0300	23,30
		7162	

ATORN® Handsaw blades

- **HSS:** single-sided, non-bending, flexibly part-hardened blade made from medium-high-alloy high-speed steel.
- **HSS bi-metal:** single-sided, teeth made from hardened HSS; back made from spring steel, extremely flexible
- Unit prices when purchased in PU

725150 3024

HSS

Length mm	Total height mm	Width mm	Tooth per inch		art.no.	€
300	13	0.65	24	10	**725130** 3024	1,35
					7163	

HSS bi-metal

Length mm	Total height mm	Width mm	Tooth per inch		art.no.	€
300	13	0.63	18	10	**725150** 3018	1,25
300	13	0.63	24	10	725150 3024	1,25
300	13	0.63	32	10	725150 3032	1,25
					7163	

ATORN® Jigsaw blades

- Compatible with the brands AEG, Bosch, Elu, Festo, Flex, Hitachi, HolHer, Mafell, Makita, Metabo
- Prices per packaging unit = 20 units/pack

Can be as with Bosch type	Length mm	Toothed length mm	Tooth pitch mm	appropriate for	**20 units per pack** art.no.	€
T 118 A	75	50	1.2	For thin material, straight cuts in metal, non-ferrous metal, sheet metal, aluminium	**725550** 0001	27,70
T 118 B	75	55	2.0	For thick material, straight cuts in metal, non-ferrous metal, sheet metal, aluminium	725550 0002	27,70
T 127 D	100	75	3.0	Ideal for aluminium, straight cuts in aluminium, non-ferrous metals, metal, glass fibre-reinforced plastics	725550 0003	27,70
T 118 AF	75	50	1.2	Straight cuts (flexible and break-resistant) in soft steel, aluminium, non-ferrous metal, stainless steel, steel, Plexiglas	725550 0004	38,–
T 101 B	100	75	2.5	Ideal for straight and fine cuts in hardwood, softwood, plywood, laminated fibreboard, plastics	725550 0005	27,70

7163

Mixed sets

Can be as with Bosch type	Length mm	Toothed length mm	Tooth pitch mm	appropriate for	**20 units per pack** art.no.	€
T 118 A; T 118 B; T 127 D	76.5; 76.5; 100	50; 50; 75	1.2; 2.0; 3.0	8x for thin material, straight cuts in metal, non-ferrous metal, sheet metal, aluminium; 8x for thick material, straight cuts in metal, non-ferrous metal, sheet metal, aluminium; 4x ideal for aluminium, straight cuts in aluminium, non-ferrous metal, metal, glass fibre-reinforced plastic	**725550** 0006	32,60
T 144 D; T 101 B; T 119 BO	100; 100; 76.5	75; 75; 50	4; 2.5; 2.0	8x hardwood and softwood up to 60 mm, soft plastics up to 50 mm, rough cut; 8x hardwood and softwood, plywood, fibreboard up to 50 mm, soft plastics, clean cut; 4x for tight curves and even right angles in wood and soft plastics up to 20 mm	725550 0007	27,–

7163

725550 0006 725550 0007

ATORN® Sabre saw blades, bi-metal

- ½" universal shank, compatible with products by AEG, Bosch, Fein, Metabo (Flex only in some cases)
- Prices per packaging unit = 5 units/pack

Can be as with Bosch type	Length mm	Toothed length mm	Tooth pitch mm	appropriate for	**5 pieces per pack** art.no.	€
S 922 BF	150	130	1.8	Rapid cutting, thick sheet metal 3-8 mm, solid pipes/sections 10-100 mm	**725560** 0008	14,45
S 922 EF	150	130	1.4	Thin sheet metal 1.5-4 mm pipes/sections 5-100 mm	725560 0009	14,45
S 922 AF	150	130	1.0	Effortless, fine cutting, thin sheet metal 0.7-3 mm fine pipes/sections 5-100 mm	725560 0010	14,45
S 1122 BF	200	180	1.8	Rapid cut thick sheet metal 3-8 mm solid pipes/profiles 10-175 mm	725560 0011	18,–
S 1122 EF	200	180	1.4	Flexible flush cut thin sheet metal 1.5-4 mm, pipes/profiles 5-175 mm	725560 0012	18,–
S 1022 VF	200	180	1.8 - 2.5	Rapid cutting flexible and break-resistant metal 3-12 mm wood 3-190 mm plastics	725560 0013	21,90
S 1211 H	300	280	2.5	Flexible and break-resistant non-ferrous metal aluminium pipes/sections 3-12 mm wood with nails 3-230 mm plastics	725560 0014	18,80
S 1211 VF	300	280	1.8 - 2.5	Rapid cutting flexible and break-resistant metal 3-12 mm wood with nails 3-250 mm plastics	725560 0015	22,30

7163

SARA® Pneumatic engraver

- Suitable for engraving work on steel and non-ferrous metals
- For marking or for reworking older engravings
- With flexible 1.4 m supply hose for unrestricted work
- Mini engraver function allows needle to be used with precision
- Robust stainless steel casing fits comfortably in the hand and prevents fatigue
- Supplied with 1/4 inch BSPT air connection and plug nipple
- Also suitable for humid environments

Pneumatic engraver

Length mm	Total height mm	blows	Working pressure bar	Air consumption l/min	Holding fixture Ø mm	Lift mm	Weight kg	Noise level dB	art.no.	€
160	16	34,000	6.2	4	3.2	0.05	0.2	61.5	**777025** 0001	173,–
									7160	

Engraving needle

Description	art.no.	€
Ø 0.05 - 0.10 mm	**777025** 0510	42,50
Ø 0.10 - 0.20 mm	777025 1020	42,50
Ø 0.20 - 0.30 mm	777025 2030	42,50
	7160	

SARA® Pneumatic precision die grinder

- Extremely high speed of 54,000 rpm, ideal for industrial applications or for finishing engines/carburettors (fine-tuning)
- Switched on and off by rotary switch.
- Air supply and exhaust hose reduces exhaust air noise and directs exhaust air away from the body
- Air connection, 1/4 inch IT
- Supplied with 3 mm collet and spanners for disassembly

Pneumatic precision mini die grinder

Length mm	Total height mm	max. speed r/min	Output W	Working pressure bar	Air consumption l/min	Collet Ø mm	Weight kg	Noise level dB	art.no.	€
134	15	54000	155	6.2	135	3.0	0.2	74	**777001** 0001	245,–
									7160	

Accessories

Description	art.no.	€
Collet, Ø 3 mm	**777002** 0030	27,40
	7160	

SARA® One-handed pneumatic die grinder

- Small design for universal use in confined spaces
- Suitable for car and commercial vehicle repairs, mechanical engineering, body construction and metalwork
- Infinitely variable speed control
- Air consumption far below average due to the use of modern pneumatic motors
- Safety lever to prevent accidental switch-on
- Cold insulation on the handle
- Supplied with 1/4 inch BSPT air connection and plug nipple
- Exhaust air can be directed away from users via a 360° rotatable exhaust air cover on the side
- Supplied with Ø 6 mm collet

777026 0001

777026 0002

777026 0003

777026 0004

777026 0005

One-handed pneumatic die grinder

Length mm	Total height mm	max. speed r/min	Output W	Working pressure bar	Air consumption l/min	Collet Ø mm	Weight kg	Noise level dB	art.no.	€
150	55	25000	300	6.2	310	6.0	0.4	79.6	**777026** 0001	122,–
180	65	22000	400	6.2	395	6.0	0.5	72.2	777026 0002	108,–
260	60	22000	400	6.2	465	6.0	1.0	73.2	777026 0003	172,–
160	75	22000	300	6.2	225	6.0	0.4	79.8	777026 0004	148,–
180	80	21000	400	6.2	310	6.0	0.7	72.5	777026 0005	210,–
									7160	

Accessories

Description	art.no.	€
Collet, Ø 3 mm	**777026** 0103	26,60
Collet, Ø 6 mm	777026 0106	20,40
	7160	

SARA® Pneumatic belt grinder

- Very compact design for working in narrow spaces
- Easy replacement of abrasive belts thanks to integrated quick-clamp mechanism
- Handle can be angled individually by users to set the desired working position
- Cold protection due to insulated handle
- Exhaust air is directed away from users via an exhaust air cover
- Infinitely variable speed control via an easy to operate power control button
- Supplied with 1/4 inch BSPT air connection and plug nipple

777127 0001

777127 0002

Length mm	Total height mm	max. speed r/min	Working pressure bar	Air consumption l/min	Belt width mm	Weight kg	Noise level dB	art.no.	€
315	55	18500	6.2	310	10	0.9	82.4	**777127** 0001	230,–
390	66	16000	6.2	310	20	1.4	82.4	777127 0002	385,–

7160

Abrasive belts, 10 units per pack

Width mm	Length mm	Grain	art.no.	€
10	330	40	**777128** 0001	32,30
10	330	80	777128 0002	27,70
10	330	120	777128 0003	35,40
10	330	180	777128 0004	35,40
10	330	240	777128 0005	101,–
20	520	80	777228 0001	50,50
20	520	120	777228 0002	52,50
20	520	180	777228 0003	52,50
20	520	240	777228 0004	50,50

7160

SARA® Pneumatic power drill

- **Lightweight design, high-speed with Ø 1 - 10 mm quick-release drill chuck**
- With spring balancer attachment on the casing
- High-quality planetary gearing and durable motor
- The top-mounted forward/reverse collar is suitable for right-handed and left-handed users
- Exhaust air can be directed away from users via a 360° rotatable exhaust air cover on the side
- Very low exhaust air noise
- Supplied with 1/4 inch BSPT air connection and plug nipple
- Easy-to-operate switch to select clockwise/anticlockwise rotation

Length mm	Total height mm	max. speed r/min	Output W	Working pressure bar	Air consumption l/min	Chuck Ø mm	Weight kg	Noise level dB	art.no.	€
170	155	1600	200	6.2	200	1-10	0.7	70.5	**777027** 0001	240,–

7160

SARA® Spring balancer

- Rugged casing made from aluminium alloy
- Steel wire Ø 2.0 mm
- Infinitely variable load settings
- Working length easy to adjust
- Two-point mounting for maximum safety

Load capacity kg	Length mm	Weight kg	art.no.	€
0.4 - 1.0	1600	0.63	**777036** 0410	63,–

7160

SARA® Pneumatic hammer screwdriver, 1/2 inch

- Double ring hammer mechanism
- Modern appliance with low power/weight ratio
- Made from composite material, with high-alloy components for the hammer mechanism
- Robust and smooth motor
- Optimally adjusted 3-level control for clockwise rotation

777028 0001

777028 0002

Pneumatic hammer screwdriver

Length mm	Total height mm	max. speed r/min	Torque N-m	Working pressure bar	Air consumption l/min	Weight kg	Noise level dB	art.no.	€
160	170	11000	650-700	6.2	165	1.3	88.5	**777028** 0001	270,–
190	185	8600	1150-1350	6.2	195	2.1	83.5	777028 0002	280,–

7160

777029 0003

Socket sets

Description	Contents	art.no.	€
Long, with protective coating, 1/2"	Wr. width 17/19/21	**777029** 0003	31,30
Short, 1/2"	Wr. width 9 / 10 / 11 / 13 / 14 / 17 / 19 / 21 / 24 / 27	777029 0010	58,–

7160

777029 0010

SARA® Pneumatic industrial die grinder

- Exhaust air to the rear, 1 m air supply and exhaust hose, and collet key
- Connection thread, 1/4 inch external
- Air pressure required: 6.0 - 6.3 bar

Pneumatic precision industrial die grinder

- Replaceable collet guide and safety rotary valve
- Incl. 3 mm collet
- For deburring and grinding work with burr cutters and grinding points

Rotational speed r/min	Air consumption l/min	Output kW	Weight kg	art.no.	€
60,000	200	0.11	0.15	**777009** 0001	305,–
75,000	200	0.11	0.15	777009 0002	305,–

7160

Pneumatic industrial die grinder

- Resilient bearing to suppress vibration, smooth-running for a fine surface
- Safety lever valve, low-noise
- Incl. 6 mm collet

Rotational speed r/min	Air consumption l/min	Output kW	Weight kg	art.no.	€
25,000	920	0.75	1.25	**777012** 0001	499,–

7160

ATORN® Pneumatic aluminium blow guns

- Aluminium, anodised and silver coloured; for cleaning workpieces, machine parts and similar items.
- Air flow can be roughly regulated via a control lever
- Valve head made from special oil-resistant rubber
- Replaceable blowing nozzle, Ø 1.5 mm

With standard nozzle

Connection	for interior Ø mm	Connecting thread	art.no.	€
Plug nipple	-	M12 x 1.25	**742086** 0001	18,30
Hose connector	6	M12 x 1.25	742086 0006	13,60
Hose connector	9	M12 x 1.25	742086 0009	13,60
Hose connector	13	M12 x 1.25	742086 0013	13,60

7123

With air jacket nozzle

- Eye protection with eight nozzle holes opening to the side

Connection	for interior Ø mm	Connecting thread	art.no.	€
Hose connector	6	M12 x 1.25	**742088** 0006	17,30
Hose connector	9	M12 x 1.25	742088 0009	17,30

7123

With safety nozzle

- Noise reduction by approx. 15 dB(A)
- Meets the following safety regulations and guidelines:
- - Swiss Accident Insurance Association (Schweizerische Unfallversicherungsanstalt - SUVA)
- - EU Directive 2003/10/EC (Noise)
- - EU Machinery Directive 2006/42/EC, EN12100
- - Noise and Vibration Protection Ordinance (TRLV-Lärm)
- - OSHA Regulations

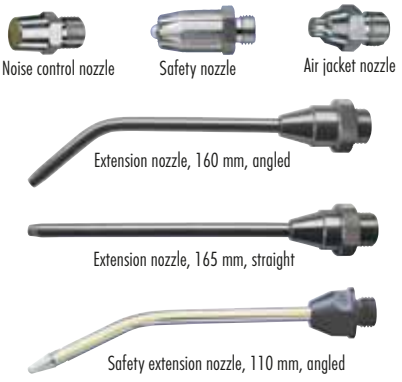
Connection	for interior Ø mm	Connecting thread	art.no.	€
Hose connector	6	M12 x 1.25	**742089** 0006	30,50
Hose connector	9	M12 x 1.25	742089 0009	30,50
Hose connector	13	M12 x 1.25	742089 0013	30,50

7123

Spare nozzles

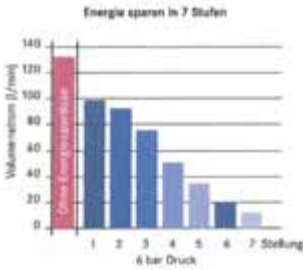
model	Connecting thread	art.no.	€
Regular nozzle	M12 x 1.25	**742092** 0001	1,90
Air jacket nozzle	M12 x 1.25	742092 0002	4,89
Safety nozzle	M12 x 1.25	742092 0003	17,70
Noise control nozzle	M12 x 1.25	742092 0007	3,91
Extension nozzle, 110 mm, angled 45°	M12 x 1.25	742092 0015	8,85
Extension nozzle, 160 mm, angled 45°	M12 x 1.25	742092 0016	9,25
Extension nozzle, 115 mm, straight	M12 x 1.25	742092 0017	8,45
Extension nozzle, 165 mm, straight	M12 x 1.25	742092 0018	8,85
Extension nozzle, 110 mm, angled, low-noise	M12 x 1.25	742092 0019	7,40

7123



Air-saving nozzle

- Regulates air volume and reduces pressure in conjunction with blow-out gun, max. operating pressure: 10 bar
- Base body made from aluminium, other parts POM
- Volume flow: 10 to 95 l/min at 6 bar.
- **Benefits:** the energy-saving nozzle is the only nozzle that can be regulated. Among other things, downward regulation prevents sharp, pointed chips or harmful liquids such as emulsions from flying around. This helps to avoid injuries.
- Controlled by turning the operating sleeve to one of 7 increments. Labelled with +/-, total 125°



model	Connecting thread	art.no.	€
Air-saving nozzle	M12 x 1.25	**742092** 0006	18,–

7123

Pneumatic blow guns Air-Boy

- Precise dosing of compressed air due to infinitely variable trigger
- Smoother operation even in cold temperatures due to an all-plastic housing
- Ergonomic design, made from shock-proof plastic
- High air flow at low noise level
- **Connection:** 1/4 inch internal thread

"Jet Air-Boy" type with flat nozzle

- For time-optimised surface cleaning

Design	Compressed air connection bar	Air consumption (at 8 bar) max. l/min	art.no.	€
With jet air nozzle	10	580	**742097** 0001	22,50
			7123	

„Air-Boy" type with angled nozzle

- **For cleaning bores, cartridge filters, cylindrical objects**
- **Nozzle cannot be removed**
- Nozzle also available individually

Design	Compressed air connection bar	Air consumption (at 8 bar) max. l/min	art.no.	€
With fixed 90° angled nozzle	16	380	**742098** 0008	32,–
			7123	

„Air-Boy" type

Design	Compressed air connection bar	Air consumption (at 8 bar) max. l/min	art.no.	€
With angled nozzle, Ø 6 mm	16	380	**742075** 0006	13,40
With angled nozzle, Ø 8 mm	16	380	742075 0009	13,40
			7123	

„Air-Boy" type with adjustment screw

- For compressed air volumes from 0 to maximum output

Design	Compressed air connection bar	Air consumption (at 8 bar) max. l/min	art.no.	€
With angled nozzle, Ø 6 mm	16	380	**742076** 0006	19,60
			7123	

„Super Silent Air-Boy" type

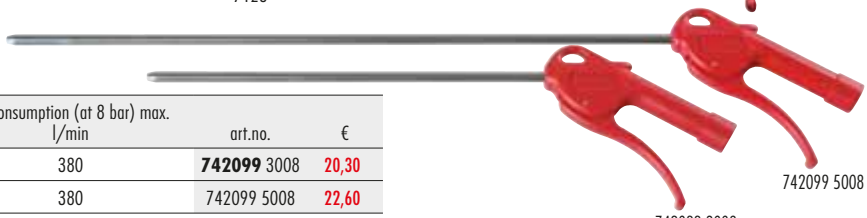
- Noise level 76 dB (at 6 bar input pressure)

Design	Compressed air connection bar	Air consumption (at 8 bar) max. l/min	art.no.	€
With angled nozzle, Ø 6 mm	12	330	**742077** 0006	21,60
			7123	

„Air-Boy" type with long nozzle

- For working in areas that are hard to access

Design	L mm	Compressed air connection bar	Air consumption (at 8 bar) max. l/min	art.no.	€
With straight nozzle, Ø 8 mm	300	16	380	**742099** 3008	20,30
With straight nozzle, Ø 8 mm	500	16	380	742099 5008	22,60
				7123	



742099 5008

742099 3008

SARA® Accessories for pneumatic tools

Flex-Boy spiral hose, 1/4 inch external thread

- 1/4 inch external thread
- Polyurethane hose (PUR)
- 1/4 inch external thread
- Connection pressure max. 10 bar

Length m	Hose interior Ø mm	External Ø mm	art.no.	€
2	5	8	**742080** 0208	48,80
4	5	8	742080 0408	58,50
6	5	8	742080 0608	70,50
8	5	8	742080 0808	83,50
			7123	

Spiral hose

Length m	Hose interior Ø mm	External Ø mm	Description	art.no.	€
8	8	13	Polyurethane with Euro coupling and plug nipple	**777038** 0808	76,–
				7160	

Continued on next page >>>

Signal compressed air hose

- Working pressure max. 24 bar
- Bursting pressure 96 bar

Length m	Hose interior Ø mm	External Ø mm	Description	art.no.	€
10	10	16	Polyurethane with Euro coupling and plug nipple	**777039** 0001	44,30
10	10	16	Polyurethane with 1/4" threaded connectors	777039 0002	41,80
50	10	16	Polyurethane roll material	777039 0003	123,–

7160

Hose winder

- Coupling and nipple pre-connected

Length m	Connection	Hose interior Ø mm	External Ø mm	Operating pressure max. bar	Dimensions W x D x H mm	Weight kg	art.no.	€
0.015	1/4" ET	8	12	15	400x175x330	8.5	**777030** 0001	240,–

7160

Air connection nipple

Description	Length mm	Wr. width mm	art.no.	€
1/4" male thread	33	17	**777031** 0001	2,45
1/4" female thread	33	17	777031 0002	2,45

7160

Portable device oiler

Input	Outlet	Oil capacity ml	art.no.	€
1/4" IT	1/4" ET	4	**777032** 0001	23,20
3/8" IT	3/8" ET	28	777032 0002	56,50

7160

Lubricating oil for pneumatic tools

Description	art.no.	€
Special air tool oil, 1 litre	**777033** 0001	20,–

7160

Magnetic plate

Description	art.no.	€
Magnetic plate, Ø 150 mm	**777035** 0001	13,05
Magnetic plate, 240x140 mm	777035 0002	25,10

7160

Magnetic rods

Description	art.no.	€
0.5 kg supported load	**777037** 0001	13,20
1.3 kg supported load	777037 0002	14,70

7160

Maintenance unit

- Modular components connected together to form compact assembly units
- Input pressure max. 12.5 bar, max. 7 bar for oilers with oil level indicator
- G 1/8" manometer connection at each end, one connecting screw supplied
- Filter element, 20 µm
- Plastic container with bayonet catch
- Manually-operated drain valve for semi-automatic discharging, optional automatic drain
- Optional semi-automatic oil refilling without the need to interrupt operation
- When oil level falls below the minimum, a float closes a signal contact

Connection	Air consumption l/min	Oil capacity ml	art.no.	€
G 1/2"	2200	140	**777034** 0001	200,–
			7160	

Connection nozzles and couplings

Hose connector with 1/4 inch external thread

- Fits all pneumatic blow guns with 1/4 inch internal thread

Hose connector Ø mm	art.no.	€
6	**742081** 0006	1,70
8	742081 0008	1,70
13	742081 0013	2,57
	7123	

Safety couplings

- Compatible with CEJN 320, Rectus 25 and 26
- One-handed operation, hard-wearing and robust
- Extremely high-capacity diameter, with recoil damper

742082 0114

742083 0214

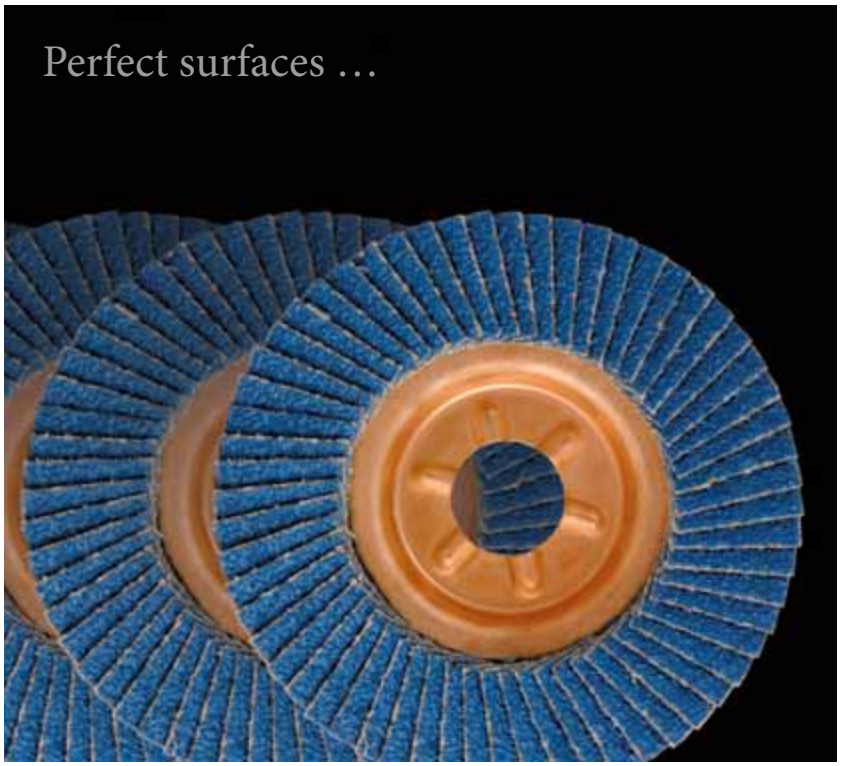
742082 0214

742083 0114

742082 0006

742083 0006

Design	Coupling art.no.	€	Nipple art.no.	€
1/4" female thread	**742082** 0114	28,40	**742083** 0114	3,31
1/4" male thread	742082 0214	28,40	742083 0214	3,31
Ø 6 mm hose nozzle	742082 0006	28,40	742083 0006	2,76
Ø 8 mm hose nozzle	742082 0008	28,40	742083 0008	2,76
Ø 13 mm hose nozzle	742082 0013	29,60	742083 0013	3,31
	7123		7123	



… and optimum service life

ATORN®
High quality for great performance

AEG Jigsaws

ST 800 XE pendulum jigsaw

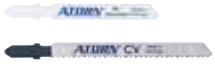
- Powerful 705 Watt motor
- Large cutting depth of 110 mm
- Patented FIXTEC quick-release blade holding system for quickly changing saw blades without tools
- 4-way pendulum action
- Electronics with variable speed pre-selection
- Ergonomic D-handle with Softgrip covering for low vibrations and maximum user comfort
- Dust extraction for an optimum view of the cut and clean, precise work
- Base plate can be quickly adjusted without tools for diagonal cuts up to 45°
- **Supplied with** carry case, 4 m power cable, 1 saw blade, chip screen, dust cover, sliding shoe

780022 0004

Pendulum jigsaw STEP 1200 XE

- Powerful 730 Watt motor
- Patented FIXTEC quick-release blade holding system for quickly changing saw blades without tools
- 4-way pendulum action
- Ergonomic D-handle with Softgrip covering for low vibrations and maximum user comfort
- Dust extraction for an optimum view of the cut and clean, precise work
- Chip blower for an optimum view of the cut and clean, precise work
- Base plate can be quickly adjusted without tools for diagonal cuts up to 45°
- **Supplied with** carry case, 4 m power cable, 1 saw blade, chip screen, dust cover, suction hose adapter

780022 0006


Jigsaw blades 70-117

model	Output W	Idle stroke count r/min	Lift mm	max. cut depth steel/aluminium mm	Weight kg	art.no.	€
ST 800 XE	705	600 - 2700	26	10 / 25	2.3	**780022** 0004	169,–
STEP 1200 XE	730	500 - 3000	26	10 / 30	2.4	780022 0006	219,–

7158

AEG Sabre saw

US 1300 XE sabre saw

- Powerful 1,300 Watt motor
- FIXTEC saw blade holding fixture for quickly and easily changing saw blades without tools
- Throttle switch for infinitely variable stroke speed control allows operation to be adjusted for different materials
- Adjustable saw stop for plunge cuts
- Ergonomic handle with Softgrip for user comfort
- Saw blade can be rotated 180° for all work situations
- **Supplied with** 4 m power cable, 2 saw blades, carry case

Sabre saw blades 70-117

model	Output W	Idle stroke count r/min	Lift mm	Weight kg	art.no.	€
USE 1300 XE	1300	0 - 2800	30	3.8	**780024** 0002	219,–

7158

Milwaukee Power drills

DE 10 RX

- Lightweight and compact 10 mm power drill.
- Electronics with speed control
- FIXTEC spindle lock for quick drill bit changes
- Clockwise/anticlockwise rotation
- 10 mm metal quick-release drill chuck
- Ergonomic design
- Handle with Softgrip covering
- Robust metal gearbox
- **Supplied with** 4 m power cable, 10 mm FIXTEC metal quick-release drill chuck, additional handle

3 year warranty and 1 year full service if registered at www.milwaukeetool.de

781007 0003

DE 13 RP

- Powerful and compact 13 mm power drill
- Electronics with speed pre-selection
- Planetary gearing for high torque up to 59 Nm
- Clockwise/anticlockwise rotation
- 13 mm metal quick-release drill chuck
- Handle with Softgrip covering
- **Supplied with** 4 m power cable, 13 mm metal quick-release drill chuck, additional handle with drilling depth stop, complete case

781007 0004

model	Output W	Torque N-m	Drill Ø steel/aluminium/wood mm	Rotational speed r/min	Clamping range mm	Weight kg	art.no.	€
DE 10 RX	630	21	10 / 13 / 30	0 - 2700	1.0 - 10	1.6	**781007** 0003	119,–
DE 13 RP	630	59	13 / 16 / 40	0 - 950	1.5 - 13	2.1	781007 0004	209,–

7165

Milwaukee Rotary hammer drills

3 year warranty and 1 year full service if registered at www.milwaukeetool.de

PFH 26

- Compact and handy rotary hammer for drilling up to 26 mm in concrete
- SDS-plus drill chuck
- Electronics with speed control
- Locking switch for continuous operation
- Clockwise/anticlockwise rotation and percussion stop for drilling and screwing
- Anti-vibration design and handles with Softgrip covering reduce vibrations and offer maximum user comfort
- Integrated metal block (IMB) for maximum stability and extreme durability
- Safety clutch protects the user and drill if the bit becomes jammed
- **Supplied with** 4 m power cable, additional handle with depth stop, carry case

781001 0004

PH 28 X

- Powerful combi-hammer with FIXTEC for drilling up to 28 mm in concrete
- SDS-plus drill chuck
- FIXTEC quick-release tool changing system for swapping adapters and drill chucks quickly with no tools required
- Idling speed limiter protects the motor and gears to ensure greater durability
- Locking switch for continuous operation
- Clockwise/anticlockwise rotation and percussion stop for drilling and screwing
- Rotation stop for light chiselling work
- Anti-vibration design and handles with Softgrip covering reduce vibrations and offer maximum user comfort
- Integrated metal block (IMB) for maximum stability and extreme durability
- Safety clutch protects the user and drill if the bit becomes jammed
- **Supplied with** 4 m power cable, FIXTEC adapter, 13 mm quick-release drill chuck, additional handle with drilling depth stop, carry case

781001 0005

PLH 28 XE

- Powerful and compact combi-hammer for drilling up to 28 mm in concrete
- FIXTEC quick-release tool changing system / SDS-plus drill chuck
- Electronics with speed and percussion rate control, overload protection and idling speed limiter
- Clockwise/anticlockwise rotation for drilling and screwing
- Percussion stop for drilling in wood and metal
- Rotation stop for light chiselling work
- Soft-hammer function
- AVS anti-vibration system
- Handle with Softgrip covering
- Safety clutch - protects the user and drill if the bit becomes jammed
- **Supplied with** 4 m power cable, FIXTEC adapter and 13 mm quick-release drill chuck, additional handle with drilling depth stop, carry case

781001 0007

model	Output W	Impact energy J	Drill Ø concrete/steel/wood mm	Rotational speed r/min	Load impact count b/min	Weight kg	art.no.	€
PLH 28 XE	725	2.4	26 / 13 / 30	0 - 1250	0 - 4500	2.4	**781001** 0004	189,–
PH 28 X	820	3.3	28 / 13 / 30	0 - 900	0 - 4000	2.9	781001 0005	259,–
PLH 28 XE	800	4.8	28 / 13 / 40	0 - 1500	0 - 4000	3.6	781001 0007	399,–

7165

AEG Hammer drill

ERGOMAX universal hammer drill

- 750 Watt motor for demanding applications
- High torque up to 58 Nm due to 2-speed planetary gearing
- FIXTEC metal quick-release drill chuck with spindle lock for changing tools quickly and easily
- Electronics with speed and percussion rate control
- Clockwise/anticlockwise rotation and percussion stop for drilling and screwing
- Direct bit attachment in the spindle
- Removable main handgrip for optimum machine handling
- **Supplied with** carry case, 4 m power cable, 13 mm FIXTEC metal quick-release drill chuck, additional handle with drilling depth stop

model	Output W	Torque N-m	Drill Ø concrete/steel/wood mm	Rotational speed 1st gear/2nd gear r/min	Clamp Ø mm	Weight kg	art.no.	€
ERGOMAX	750	max. 58	20 / 13 / 40	0 - 1200 / 0 - 3400	1.5 - 13	2.6	**780003** 0006	189,–

7158

AEG Cordless screwdrivers

BS12C2/2.0Ah cordless drill driver

- Extremely handy: just 168 mm long
- 10 mm FIXTEC quick-release drill chuck with spindle lock
- Electronics with speed control and overload protection
- 17 torque settings plus drilling level
- Clockwise/anticlockwise rotation for drilling and screwing
- LED workspace lighting
- Handle with Softgrip covering
- Battery charge status indicator
- PRO lithium ion batteries with overload protection
- **Supplied with** carry case, 2x 12 V / 2.0 Ah PRO lithium ion batteries, LL1230 quick-charging unit, 10 mm FIXTEC quick-release chuck, belt clip

model	Tension V	Battery capacity A-h	Rotational speed 1st gear/2nd gear r/min	Torque N-m	Clamping range mm	Drill Ø steel/wood mm	Weight kg	art.no.	€
BS 12 C2	12	2.0	0 - 350 / 0 - 1500	34	1.5 - 10	10/20	1.2	**780009** 0014	169,–
								7158	

SE3.6 cordless drill driver

- Articulated joint for working in gun form
- 10 pre-select torque settings with additional drilling level
- 1/4 inch hex bit holding fixture
- Clockwise/anticlockwise rotation
- Robust fully insulated metal gearbox
- Ergonomic folding handle with Softgrip covering
- **Supplied with** carry case, 2x 3.6 V NiCd batteries, quick-charging unit

model	Tension V	Battery capacity A-h	Rotational speed 1st gear/2nd gear r/min	Torque N-m	Weight kg	art.no.	€
SE 3.6	3.6	1.5	200 / 600	4.5 / 6.5	0.6	**780008** 0021	99,–
						7158	

BS14G3 cordless drill driver

- Handy and powerful 14 V cordless drill driver
- Electronics with speed control
- 32 Nm for powerful performance
- 23 torque settings plus drilling level
- Robust quick-release drill chuck with spindle lock for quick and easy
- tool changes
- Clockwise/anticlockwise rotation for drilling and screwing
- Handle with Softgrip covering
- **Supplied with** 2x 14.4 V / 1.5 Ah Li-Ion batteries, charger, 10 mm quick-release drill chuck, carry case

model	Tension V	Battery capacity A-h	Rotational speed 1st gear/2nd gear r/min	Torque N-m	Clamping range mm	Drill Ø steel/wood mm	Weight kg	art.no.	€
BS 14 G3	14.4	1.5	0 - 400 / 0 - 1400	32	1.5 - 10	10 / 32	1.7	**780009** 0008	119,–
								7158	

BS18G2 cordless drill driver

- Handy and powerful 18 V cordless drill driver, just 203 mm long
- Electronics with speed control
- 23 torque settings plus drilling level
- Robust FIXTEC metal quick-release drill chuck with spindle lock for quickly and easily changing tools
- Clockwise/anticlockwise rotation for drilling and screwing
- LED workspace lighting
- Handle with Softgrip covering
- PRO lithium ion batteries with overload protection and charge status indicator
- **Supplied with** 2x 18 V / 1.5 Ah PRO lithium ion batteries, quick-charging unit, 13 mm FIXTEC metal quick-release drill chuck, double-blade bit, carry case

model	Tension V	Battery capacity A-h	Rotational speed 1st gear/2nd gear r/min	Torque N-m	Clamping range mm	Drill Ø steel/wood mm	Weight kg	art.no.	€
BS 18 G2	18	1.5	0 - 400 / 0 - 1500	47	1.5 - 13	13 / 34	1.7	**780008** 0009	189,–
								7158	

BS 18C PRO Li-Ion cordless compact drill driver

- Powerful 18 V cordless compact drill driver
- 4-pole motor for maximum output with a compact design
- Electronics with speed control
- 23 torque settings plus drilling level
- Robust FIXTEC quick-release drill chuck with spindle lock for quickly and easily changing tools
- Clockwise/anticlockwise rotation for drilling and screwing
- LED workspace lighting
- Handle with Softgrip covering
- PRO lithium ion batteries with overload protection and charge status indicator
- **Supplied with** carry case, 2x 18 V PRO lithium ion batteries, BL1218 quick-charging unit, 13 mm FIXTEC quick-release drill chuck, additional handle, double-blade bit

model	Tension V	Battery capacity A-h	Rotational speed 1st gear/2nd gear r/min	Torque N-m	Clamping range mm	Drill Ø steel/wood mm	Weight kg	art.no.	€
BS 18 C	18	2.0	0 - 450 / 0 - 1650	60	1.5 - 13.0	13 / 45	1.7	**780008** 0015	229,–
BS 18 C	18	4.0	0 - 450 / 0 - 1650	70	1.5 - 13.0	13 / 45	2.0	780008 0016	299,–
								7158	

Milwaukee Cordless screwdrivers

3 year warranty and 1 year full service if registered at www.milwaukeetool.de

M12BD cordless compact drill driver

- 2-speed compact screwdriver, small and handy, even in confined spaces
- Extremely handy: just 175 mm long
- REDLINK™ Electronic overload protection to prolong the battery, motor and gearing service life
- Single cell monitoring for long battery life
- Optimised handle with Softgrip covering for the best ergonomics and grip
- ¼" hex bit direct holding fixture
- 19 torque settings with additional drilling level for cleanly sinking screws
- LED workspace lighting
- Battery charge status indicator
- 100 % compatible with the Milwaukee® M12 product range
- **Supplied with** 2x 12 V Red lithium-ion batteries, C12 C quick-charging unit, bit, carry case

model	Tension V	Battery capacity A-h	Rotational speed 1st gear/2nd gear r/min	Torque N-m	Holding fixtures	Drill Ø steel/wood mm	Weight kg	art.no.	€
M 12 BD	12	2.0	0-400 / 0-1500	30	1/4" hex	10 / 22	1.0	**781008** 0010	149,–

7165

M12BDD cordless compact drill driver

- Extremely handy: just 185 mm long
- REDLINK™ Electronic overload protection to prolong the battery, motor and gearing service life
- Single cell monitoring for long battery life
- Optimised handle with Softgrip covering for the best ergonomics and grip
- 10 mm FIXTEC metal quick-release drill chuck with spindle lock
- 19 torque settings with additional drilling level for cleanly sinking screws
- LED workspace lighting
- Battery charge status indicator
- 100 % compatible with the Milwaukee® M12 product range
- **Supplied with** 2x 12 V Red lithium-ion batteries, 10 mm FIXTEC metal quick-release drill chuck, C12 C charging unit, bit, HD box

model	Tension V	Battery capacity A-h	Rotational speed 1st gear/2nd gear r/min	Torque N-m	Clamping range mm	Drill Ø steel/wood mm	Weight kg	art.no.	€
M 12 BDD	12	2.0	0-400 / 0-1500	30	1.0 - 10.0	10 / 22	1.2	**781008** 0011	169,–

7165

M18BDD cordless drill driver

- Extremely handy: just 185 mm long
- 4-pole motor for maximum output with a compact design
- REDLINK™ Electronic overload protection to prolong the battery, motor and gearing service life
- Electronics with infinitely variable speed control
- 17 torque settings + drilling level
- Clockwise/anticlockwise rotation
- 13 mm FIXTEC metal quick-release drill chuck with spindle lock
- Robust metal gearbox for a long service life
- Handle with Softgrip covering for maximum user comfort
- LED workspace lighting
- Battery charge status indicator
- **Supplied with** 2x 18 V Red lithium-ion batteries, M12-18C charging unit, belt clip, bit holder, bit, HD box

781008 0418

model	Tension V	Battery capacity A-h	Rotational speed 1st gear/2nd gear r/min	Torque N-m	Clamping range mm	Drill Ø steel/wood mm	Weight kg	art.no.	€
M 18 BDD	18	2.0	0-450 / 0-1800	50	1.5 - 13.0	13 / 38	1.8	**781008** 0318	269,–
M 18 BDD	18	4.0	0-450 / 0-1800	60	1.5 - 13.0	13 / 38	2.0	781008 0418	339,–

7165

Up to 5.0 Ah cordless screwdriver

M18FDD cordless drill driver

- **New generation 18 V FUEL™ compact drill driver generation**
- **2-speed gearbox for a powerful 125/130 Nm of torque**
- 24 torque settings
- FIXTEC quick-release drill chuck with spindle lock for quick (drill) bit changes
- Clockwise/anticlockwise rotation for drilling and screwing
- Robust metal gearbox for a long service life
- Handle with Softgrip covering for maximum user comfort
- LED workspace lighting
- Battery charge status indicator
- Supplied with 2x 18 V Red lithium-ion batteries, M12-18FC fast charging unit, 13 mm FIXTEC metal quick-release drill chuck with spindle lock, belt clip, HD box

model	Tension V	Battery capacity A-h	Rotational speed 1st gear/2nd gear r/min	Torque N-m	Clamping range mm	Drill Ø steel/wood mm	Weight kg	art.no.	€
M18 FDD	18	2.0	0 - 500 / 0 - 2000	135	1.5 - 13	13 / 65	2.1	**781011** 0318	379,–
M18 FDD	18	5.0	0 - 550 / 0 - 2000	135	1.5 - 13	13 / 65	2.4	781011 0518	469,–

7165

Battery-powered angle grinder

M18 CAG-125 X

- **Soft-start and restart lock**
- Safety guard quickly adjusted
- **Integrated FIXTEC quick-release system allowing discs to be changed quickly without tools**
- Slim design with soft layer for the greatest user comfort
- Replaceable dust protector grid
- Battery charge status indicator

model	Tension V	Battery capacity A-h	Rotational speed r/min	Cutting depth max. mm	Washer Ø mm	Weight kg	art.no.	€
M18 CAG-125 X	18	5	8500	33	125	2.5	**781014** 0001	489,–

7165

Angle grinder

3 year warranty and 1 year full service if registered at www.milwaukeetool.de

AGV 10-125 EK

- Compact and handy 1,000 Watt angle grinder
- Extremely compact design: just 276 mm long
- Soft-start and restart protection
- Safety guard quickly adjusted at the push of a button
- Spindle lock for quickly replacing discs
- **Supplied with** 4 m power cable, safety guard, additional handle, clamp set

Cutting discs and grinding wheels start on page 60-30

AGV 12-125X

- Dust-protected ProTector motor for a long service life
- Electronic feedback with soft start, overload protection, restart protection and anti-kickback
- Integrated FIXTEC quick-release system allowing discs to be changed quickly without tools
- Safety guard quickly adjusted
- L-shaped ventilation opening prevents grinding dust from being drawn in
- Additional AVS handle
- **Supplied with** 4 m power cable, safety guard, additional AVS handle

781014 1012

AGV 22-180 E and AGV 22-230 E

- Powerful 2,200 Watt angle grinder
- Soft-start and restart protection
- Compact design: just 485 mm long
- Spindle lock for quickly replacing discs
- Flat and robust metal gearbox for working in areas that are hard to access
- Safety guard quickly adjusted at the push of a button
- 2-position additional AVS handle
- Cut-off carbon brushes to protect the motor
- Cover flaps for changing carbon brushes easily
- **Supplied with** 4 m power cable, safety guard, additional AVS handle and clamp set

781014 1212

781013 2223

AGVM 26-230 GEX

- Disc diameter 230 mm
- Dust-protected motor with start-up current limitation and restart lock
- Spindle lock
- Rotatable handle with vibration damping
- Up to 70% less vibration
- Flat and robust metal gearbox for working in areas that are hard to access
- Snap-in safety guard adjustment at the push of a button
- B-GUARD safety clutch
- FIXTEC clamping nut for changing discs quickly without the need for tools
- **Supplied with** 4 m power cable, safety guard, additional AVS handle and FIXTEC clamping nut

781013 0004

model	Output W	Rotational speed r/min	Cutting depth max. mm	Washer Ø mm	Weight kg	art.no.	€
AGV 10-125 EK	1000	11000	33	125	2.2	**781014** 1012	99,–
AGV 12-125X	1200	11000	33	125	2.4	781014 1212	149,–
AGV 22-180 E	2200	8500	43	180	5.2	781013 2218	159,–
AGV 22-230 E	2200	6600	68	230	5.4	781013 2223	159,–
AGVM 26-230 GEX	2600	6600	68	230	5.8	781013 0004	349,–

7165

FIXTEC nut

- FIXTEC: Change discs in a matter of seconds, no tools required
- Only 8 mm thick, allowing a greater grinding surface on the material
- Integrated safety clutch to protect users
- Fits all angle grinders with standard M14 spindle holding fixtures

model	appropriate for	art.no.	€
FIXTEC nuts	Angle grinder with up to 150 mm cutting disc diameter	**780045** 0001	23,80

7165

Milwaukee Offset screwdriver attachment

- 1/4" hex holding fixture and 10 mm hex holding fixture for better grip in larger drill chucks for heavy-duty applications
- Magnetic
- 90° angled head
- Suitable for all standard bits
- Metal gears and housing
- Handle rotates through 360° and can be adjusted for any application
- Industrial quality, suitable for cordless tools up to 40 V

model	appropriate for	art.no.	€
OSD 2	Applications up to 40 Nm torque and a max. speed of 1750 U/min	**780040** 0001	73,50
		7165	

Milwaukee Battery-powered straight grinders

HD18 SG

- 18 V straight grinder, ideal for grinding tasks in hard-to-reach places
- 2-stage speed control
- MAX. grinding tools Ø 45 m/sec 25 mm
- MAX. grinding tools Ø 80 m/sec 50 mm
- REDLINK electronic overload protection to prolong the battery, motor and gear service life
- High true running accuracy
- Long, slim spindle neck for working in hard-to-reach areas
- Flat and robust metal gearbox
- Battery charge status indicator
- **Supplied** with 18 V/4.0 Ah Red lithium-ion battery, charger M12-18C, collet 6 mm, open-end spanner wr. width 15/17, transport case

model	Tension V	Battery capacity A-h	Rotational speed 1st gear/2nd gear r/min	art.no.	€
HD18 SG	18	4	17500 / 21500	**780121** 0018	409,–
				7165	

AEG Straight grinder

GS 500 E straight grinder

- Powerful 500 Watt motor
- Electronics with speed pre-selection
- Short, compact design
- With 43 mm spindle neck, can also be used in a drill stand
- Robust metal gearbox housing with double spindle bearing for maximum precision
- ERGO safety cut-off
- **Supplied with** 6 mm collet and 15 / 17 wr. width chuck key

Burr cutters and grinding points start on page 60-9

780021 0001

GSL 600 E straight grinder

- Powerful 600 Watt motor
- Electronics with speed pre-selection
- Extra-long grinding spindle and narrow gear neck for working on areas that are difficult to access
- Robust metal gearbox housing with double spindle bearing for maximum precision
- ERGO safety cut-off
- **Supplied with** 6 mm collet and 15 / 17 wr. width chuck key

780021 0002

model	Output W	Rotational speed r/min	Collet Ø mm	Weight kg	art.no.	€
GS 500 E	500	10,000 - 29,000	6	1.3	**780021** 0001	229,–
GSL 600 E	600	10,000 - 29,000	6	1.9	780021 0002	359,–
					7158	

AEG Hot air gun

HG 600 VK hot air gun set

- Light and handy electronic hot air gun, e.g. for removing old paint, soldering, plastic forming, hot adhesive applications
- Powerful 2,000 Watt heating output for the toughest challenges
- Electronics with infinitely variable 90° - 600° temperature control
- Non-slip base for stationary use
- **Supplied with** power cable, spot nozzle, reflector nozzle, round jet nozzle, carry case

model	Output W	Air consumption l/min	Temperature control °C	Weight kg	art.no.	€
HG 600 VK	2000	300 / 500	90 - 600	0.6	**780018** 0003	99,–
					7158	

Milwaukee Battery-powered magnetic core drills

NEW · NUOVO · NY · NOUVEAU · NUEVO

M18 FMDP

- Compact 18 V fuel magnetic core drilling unit for mobile use
- Powerful 18 V fuel motor for core drilling up to 38 mm
- Max. drilling depth Ø (with core drill) 50 mm
- Max. drilling Ø (with solid drill) 13 mm
- **AUTOSTOP** movement detection: the device automatically switches off when overturned to protect the operator
- 19 mm Weldon quick-change holding fixture
- Strong permanent magnet
- Integrated magnetic coolant container for easy attachment to the machine and/or material, particularly for vertical working
- 2-speed gearbox: Optimised rotational speed for drilling with core drills and twist drills
- Simple operation with Off switch
- Hand wheel can be mounted on right-hand or left-hand side
- **Supplied with** 2x 18V/5.0 Ah Red lithium-ion battery, quick-charging unit M12-18 FC, magnetic coolant container, safety strap, ejector pin, 13 mm gear rim drill chuck, holding fixture adapter, transport case

model	Tension V	Battery capacity A-h	Weight kg	art.no.	€
M18 FMDP	18	5.0	13	**782002** 0018	1.999,–

7165

EUROBOOR FOR PROFESSIONALS BY PROFESSIONALS Magnetic core drills

- Powerful motors
- **ECO32 and ECO50 with clockwise rotation**
- **ECO100/4 with clockwise and anti-clockwise rotation for thread cutting (M3-M30)**
- Extremely high magnetic force for safe work
- Large travel range
- **Supplied with:** Safety goggles, work gloves, chain, cutting oil and cutting oil container
- Product may differ from illustration
  ECO32 in a carry case (black), fixed Weldon 19.05 mm tool holder
  ECO50 in a carry case (black), replaceable MT2 / Weldon 19.05 mm tool holder with automatic internal lubrication
  ECO100/4 in a trolley case (blue), replaceable MT3 / Weldon 19.05 mm tool holder with automatic internal lubrication

782001 0032

782001 0050

782001 0100

model	Length mm	Width mm	Output W	Rotational speed r/min	Lift mm	Description	Twist drill Ø mm	Weight kg	Magnetic foot L x W x H mm	Retention force N	art.no.	€
ECO32	255	110	1000	775	150	For core drill bits: Ø 12-32 mm	1-13	12	160x80x42	1500	**782001** 0032	640,–
ECO50	245	160	1250	380 / 690	170	For core drill bits: Ø 12-50 mm	1-23	13.5	170x85x48	1850	782001 0050	950,–
ECO100/4	365	190	1900	42-110 / 65-190 / 140-400 / 220-620	260	For core drill bits: Ø 12-100 / 61-100 mm / for taps: M3-M30	1-31.75	28	230x100x64	3000	782001 0100	1.460,–

7155

Core drills

- Weldon shank 19.05 mm

D mm	Cutting depth 30 mm art.no.	€	Cutting depth 55 mm art.no.	€
12.0	**100601** 0120	20,90	**100602** 0120	31,30
13.0	100601 0130	20,90	100602 0130	31,30
14.0	100601 0140	20,90	100602 0140	29,30
15.0	100601 0150	20,90	100602 0150	29,30
16.0	100601 0160	22,30	100602 0160	30,60
17.0	100601 0170	23,70	100602 0170	31,30
18.0	100601 0180	23,70	100602 0180	34,10
19.0	100601 0190	24,40	100602 0190	34,80
20.0	100601 0200	25,10	100602 0200	36,20
21.0	100601 0210	26,50	100602 0210	39,–
	1150		1150	

D mm	Cutting depth 30 mm art.no.	€	Cutting depth 55 mm art.no.	€
22.0	100601 0220	27,20	100602 0220	40,40
23.0	100601 0230	28,50	100602 0230	41,10
24.0	100601 0240	30,60	100602 0240	43,20
25.0	100601 0250	31,30	100602 0250	45,30
26.0	100601 0260	32,70	100602 0260	46,70
27.0	100601 0270	33,40	100602 0270	49,40
28.0	100601 0280	34,80	100602 0280	51,50
29.0	100601 0290	35,50	100602 0290	53,50
30.0	100601 0300	39,–	100602 0300	57,–
31.0	100601 0310	43,90	100602 0310	59,–
	1150		1150	

D mm	Cutting depth 30 mm art.no.	€	Cutting depth 55 mm art.no.	€
32.0	100601 0320	46,70	100602 0320	61,50
33.0	100601 0330	49,40	100602 0330	64,–
34.0	100601 0340	53,50	100602 0340	68,50
35.0	100601 0350	59,–	100602 0350	71,–
40.0	100601 0400	69,50	100602 0400	88,50
45.0	100601 0450	85,50	100602 0450	117,–
50.0	100601 0500	102,–	100602 0500	147,–
55.0	100601 0550	121,–	100602 0550	169,–
60.0	100601 0600	135,–	100602 0600	194,–
	1150		1150	

7-pcs. set

- For 30 mm cut depth

Contents	art.no.	€
1 ejector pin and 2 core drill bits in each size, Ø 14 / 18 / 22 mm	**100601** 1007	160,–
	1150	

MAKRA Edge deburring tool KEG

- Developed for direct use with chip-removing machine tools
- Ideally suited to conventional edge deburring work
- End milling cutters cut lengthways along the edges, which prevents secondary burr formation
- 1050 W milling motor with double bearing milling spindle (KEG 500 = 1500 W with triple bearing milling spindle)
- Solid shaft control electronics
- Steel clamping flange, standard Ø = 43 mm (KEG 500 Ø = 60 mm)
- **Supplied** with chip collecting tray, set of hardened steel guideways, collet, clamping nut, operating tools, user manual
- Compatible milling cutters:
  Universal milling cutter for steel, cast iron
  Ø 8 mm, 254009 0080; Ø 12 mm, 254009 0120
  For steel, aluminium and plastics
  Ø 8 mm 249300 0080, Ø 12 mm 249300 0120
  For VA and heat-resistant steels
  Ø 8 mm 256008 0080, Ø 12 mm 256008 0120

776001 1150

Machine time can be used for chamfering and deburring

Infinitely variable chamfer size settings

Hobbing procedure guarantees precise deburring

Chip collecting tray is included

model	Guide rail W x L mm	Output W	Rotational speed r/min	Collet Ø mm	Weight kg	art.no.	€
KEG 150	40 x 150	1050	3500 - 30,000	8	5.6	**776001** 1150	849,–
KEG 300	40 x 290	1050	3500 - 30,000	8	6.8	776001 0300	1.049,–
KEG 400	40 x 400	1050	3500 - 30,000	8	9.0	776001 0400	1.299,–
KEG 500	70 x 500	1500	2500 - 14,000	12	20.0	776001 0500	2.599,–

7156

Foot switch

Description	Cable length m	art.no.	€
Foot switch with appliance socket (max. 3000 W)	5	**776010** 0001	305,–

7156

HEDI Power socket strip, IP44

- 6-way earthed power outlet strip, black, with switch
- Splash-proof, protection rating IP44
- Approx. 1.3 m connection lead, H07RN-F3G1.5

Description	art.no.	€
6-socket power strip	**770008** 0001	23,10

7157

HEDI Socket distributor

- Casing made of fully-insulated and shock-proof plastic/rubber
- 9.5 kW output at a simultaneity factor of 0.5 - 0.7
- Protection type IP44

HEDI e.STATION suspended distributor

- Hanging eyes, 2 m knotted link chain, tool hook

Description	B mm	H mm	T mm	art.no.	€
6 Schuko sockets IP44, 2 CEE sockets 16A/400V	227	305	212	**774006** 0001	91,–
6 Schuko sockets IP44, 1 CEE socket 16A/400V, 2 compressed air outlets	227	305	212	774006 0002	141,–

7157

774006 0001

774006 0002

FLOTT Werkzeugmaschinen Bench drill

- Prices ex works, excluding packaging

Bench drill TB 13 Plus

- OLED lighting
- Emergency stop button
- Drilling protection with electronic circuit breaker
- Infinitely variable speed control
- Spindle stop not required
- **Drilling depth max. 60 mm, thread cutting capacity max. M8**
- Digital speed and drilling depth display (target and actual)
- Choice of operating modes: drilling and thread cutting
- Connection cable with plug (1.2 m)
- Usable table surface W x L 300 x 250 mm
- Distance between spindle and working surface 0 - 360 mm
- Supplied **without** chuck

Design	Dimensions W x D x H mm	Motor output kW	Rotational speed r/min	Projection mm	Column Ø mm	Weight kg	art.no.	€
For B16 quick-release drill chuck	400 x 520 x 850	0.54	40 - 4000	220	70	62	**783002** 0013	2.300,–
For MT II taper mandrel	400 x 520 x 850	0.54	40 - 4000	220	70	62	783002 0213	2.450,–

7169

Bench drill TB P18 ST

- **With MT2 taper mandrel**
- Rapidly adjustable drilling depth stop
- Emergency stop button, undervoltage trip device and thermal overload protection
- Drilling protection with electronic circuit breaker
- Infinitely variable speed control, levels are changed by moving a belt
- **Drilling depth max. 95 mm, thread cutting capacity max. M10**
- Connection cable with CEE plug (1.5 m)
- Usable table surface W x L 300 x 250 mm
- Distance between spindle and working surface 0 - 350 mm

Dimensions W x D x H mm	Motor output kW	Rotational speed level 1/level 2 r/min	Projection mm	Column Ø mm	Weight kg	art.no.	€
415 x 655 x 860	0.45 / 0.75	100-1200 / 350-4200	200	70	75	**783003** 0218	3.520,–

7169

FLOTT Werkzeugmaschinen Pillar drill

- Prices ex works, excluding packaging

Pillar drill SB M3 ST

- Infinitely variable speed control
- Emergency stop button
- Manual reverser switch for clockwise and anti-clockwise rotation
- Undervoltage trip device
- Rack for altering table height
- Drilling depth stop with fine adjustment
- Connection cable with CEE plug (1.5 m)
- Drilling protection with electrical circuit breaker
- Thermal overload protection
- **Drilling depth max. 125 mm, thread cutting capacity max. M20**
- Usable table surface W x L 420 x 340 mm
- Distance between spindle and working surface 240 - 790 mm

Dimensions W x D x H mm	Motor output kW	Rotational speed level 1/level 2 r/min	Projection mm	Column Ø mm	Weight kg	art.no.	€
520 x 820 x 1900	0.90 / 1.45	125-2000 / 250-4000	280	110	275	**783004** 0001	5.090,–

7169

FLOTT Werkzeugmaschinen Double-end grinder

- Prices ex works, excluding packaging

Grinding wheels page 60-37

Double-end grinder TS 200/250/300 SD P

- Smooth, maintenance-free motor
- Safety cover with enclosed sides
- Robust adjustable workpiece supports
- Adjustable spark deflector for a high degree of safety and comfort
- **Suitable for grinding, deburring and sharpening tools of all types, metal profiles etc.**
- Circuit breaker and undervoltage trip device
- Supplied with spark shields/eye protection for both sides; connection cable with CEE plug, 16 A; coarse and fine grinding wheels, 1 of each
- **Also available with machine stand, emergency stop button, brakes and extractor on request**

model	Description	Motor output kW	Rotational speed r/min	Weight kg	art.no.	€
TS 200 SD P	For grinding wheels, width x depth x height: 200 x 32 x 32 mm	1.0	2550	20	**783020** 0200	650,–
TS 250 SD P	For grinding wheels, width x depth x height: 250 x 40 x 51 mm	1.4	1400	32	783020 0250	820,–
TS 300 SD P	For grinding wheels, width x depth x height: 300 x 40 x 51 mm	2.2	1250	40	783020 0300	1.370,–
					7169	

FLOTT Werkzeugmaschinen Belt grinder

- Prices ex works, excluding packaging

Abrasive belts page 60-36

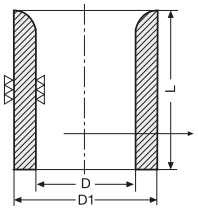
BSM 75/150 belt grinder

- **Improved design with motor brake**
- High-quality design
- Convex drive roller (which automatically centres the abrasive belt on the roller), fully vulcanised for a longer service life and optimum smoothness
- Abrasive belt can be changed quickly and easily without tools
- Infinitely variable height adjustment allows the belt grinder to be set up ideally for each user, with additional locking mechanism and an extended adjustment range
- Freely adjustable metal stop to ensure safe and optimum control of workpieces when using the large surface grinding area
- Surface grinding area 600 mm
- Design-optimised belt speed to largely rule out the possibility of workpieces burning during machining
- Motor circuit breaker with CEE collar connector incl. phase inverter
- **5-year warranty on the motor**
- **Also available with extractor on request**
- Supplied with: Abrasive belt, grain 60

model	Motor output kW	Dimensions W x D x H mm	Belt dimensions L x W mm	Weight kg	art.no.	€
BSM 75	3.75	1100 x 550 x 1035	2000 x 75	80	**783021** 0075	1.250,–
BSM 150	3.75	1100 x 550 x 1035	2000 x 150	90	783021 0150	1.790,–
					7169	

Cylindrical drill guide bushes, type A

DIN 179 A



- **Form A**, bore rounded at one end
- Special steel, hardened, ground inside and outside to a high level of tolerance compliance
- Hardness 62 HRc
- Tolerances: D = F7, D1 = n6
- Bore D increasing in 0.1 mm increments

- Intermediate dimensions, sizes above 26.0 mm, versions Form D and Form B, bores rounded at both ends are available on request

- **Please specify nominal dimension D in mm, as a four digit figure** (e.g. 3.60 mm = 0360; 15.10 mm = 1510)

Short

D mm	D1 mm	L mm		734501.... €
1,9 - 2,6	5	6	10	1,95
2,7 - 3,3	6	8	10	2,02
3,4 - 4	7	8	10	2,10
4,1 - 5	8	8	10	2,20
5,1 - 6	10	10	10	2,22
6,1 - 8	12	10	10	2,47
8,1 - 10	15	12	10	2,74
10,1 - 12	18	12	10	3,11
12,1 - 15	22	16	5	3,43
15,1 - 18	26	16	5	4,25
18,1 - 22	30	20	5	5,60
22,1 - 26	35	20	5	6,70

7171

Medium

D mm	D1 mm	L mm		734502.... €
1,9 - 2,6	5	9	10	2,12
2,7 - 3,3	6	12	10	2,20
3,4 - 4	7	12	10	2,22
4,1 - 5	8	12	10	2,32
5,1 - 6	10	16	10	2,57
6,1 - 8	12	16	10	2,79
8,1 - 10	15	20	10	3,21
10,1 - 12	18	20	10	3,68
12,1 - 15	22	28	5	4,61
15,1 - 18	26	28	5	5,65
18,1 - 22	30	36	5	7,30
22,1 - 26	35	36	5	8,45

7171

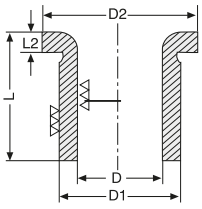
Long

D mm	D1 mm	L mm		734503.... €
2,7 - 3,3	6	16	10	3,38
3,4 - 4	7	16	10	3,23
4,1 - 5	8	16	10	3,33
5,1 - 6	10	20	10	3,68
6,1 - 8	12	20	10	3,92
8,1 - 10	15	25	10	4,59
10,1 - 12	18	25	10	4,96
12,1 - 15	22	36	5	6,25
15,1 - 18	26	36	5	7,20
18,1 - 22	30	45	5	11,55
22,1 - 26	35	45	5	12,35

7171

Drill guide collar bushes, type A

DIN 172 A



- **Type A,** bore rounded at one end
- Hardened special steel, ground inside and outside to a high level of tolerance compliance
- Hardness 62 HRc
- Tolerances: D = F7, D1 = n6
- Bore D increasing in 0.1 mm increments

- Intermediate dimensions, versions with D over 26.0 mm, and type B versions with bores rounded at both ends are available on request

- **Please specify nominal dimension D in mm, as a four digit figure!** (e.g. 3.60 mm = 0360; 15.10 mm = 1510)

Short

D mm	D1 mm	D2 mm	L2 mm	L mm		734505.... €
1,9 - 2,6	5	8	2,0	6	10	2,71
2,7 - 3,3	6	9	2,5	8	10	2,74
3,4 - 4	7	10	2,5	8	10	2,84
4,1 - 5	8	11	2,5	8	10	2,96
5,1 - 6	10	13	3,0	10	10	2,98
6,1 - 8	12	15	3,0	10	10	3,43
8,1 - 10	15	18	3,0	12	10	3,70
10,1 - 12	18	22	4,0	12	10	4,14
12,1 - 15	22	26	4,0	16	5	4,88
15,1 - 18	26	30	4,0	16	5	5,75
18,1 - 22	30	34	5,0	20	5	7,65
22,1 - 26	35	39	5,0	20	5	9,65

7171

Medium

D mm	D1 mm	D2 mm	L2 mm	L mm		734506.... €
1,9 - 2,6	5	8	2,0	9	10	2,86
2,7 - 3,3	6	9	2,5	12	10	2,96
3,4 - 4	7	10	2,5	12	10	2,98
4,1 - 5	8	11	2,5	12	10	3,13
5,1 - 6	10	13	3,0	16	10	3,33
6,1 - 8	12	15	3,0	16	10	3,70
8,1 - 10	15	18	3,0	20	10	4,14
10,1 - 12	18	22	4,0	20	10	4,66
12,1 - 15	22	26	4,0	28	5	6,25
15,1 - 18	26	30	4,0	28	5	7,65
18,1 - 22	30	34	5,0	36	5	10,15
22,1 - 26	35	39	5,0	36	5	12,30

7171

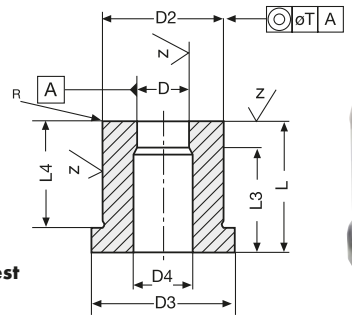
Long

D mm	D1 mm	D2 mm	L2 mm	L mm		734507.... €
2,7 - 3,3	6	9	2,5	16	10	4,99
3,4 - 4	7	10	2,5	16	10	4,76
4,1 - 5	8	11	2,5	16	10	5,05
5,1 - 6	10	13	3,0	20	10	5,45
6,1 - 8	12	15	3,0	20	10	5,60
8,1 - 10	15	18	3,0	25	10	6,55
10,1 - 12	18	22	4,0	25	10	7,05
12,1 - 15	22	26	4,0	36	5	9,55
15,1 - 18	26	30	4,0	36	5	9,90
18,1 - 22	30	34	5,0	45	5	13,60
22,1 - 26	35	39	5,0	45	5	16,40

7171

Cutting bushes, type B

HSS | DIN 9845B | B



- **Type B**, bore rounded at both ends
- Hardened and tempered HSS, ground inside and outside to a high level of tolerance compliance
- Hardness 58 - 62 HRc
- Tolerances: D = H8, D2 = k6
- D increasing in 0.1 mm increments

- **Intermediate dimensions, larger diameters and type A available on request**

- **Please specify nominal dimension D in mm, as a four digit figure!** (e.g. 3.60 mm = 0360; 15.10 mm = 1510)

Short

D mm	D2 mm	T mm	D3 mm	D4 mm	L mm	L3 mm	L4 mm	734515.... €
1	5	0,01	7	D + 0,3	20	18	16	17,50
1,1 - 2	6	0,01	8	D + 0,3	20	17	16	11,70
2,1 - 3	7	0,01	9	D + 0,5	20	17	16	9,90
3,1 - 4	8	0,01	10	D + 0,5	20	17	16	9,90
4,1 - 5	10	0,01	12	D + 0,7	20	16	16	9,90
5,1 - 6	12	0,02	14	D + 0,7	20	16	16	9,90
6,1 - 8	15	0,02	17	D + 0,7	20	16	16	10,70
8,1 - 10	18	0,02	20	D + 1,0	20	16	16	11,80
10,1 - 12	22	0,02	24	D + 1,0	20	15	16	12,30
12,1 - 15	26	0,02	28	D + 1,0	20	15	16	16,40
								7171

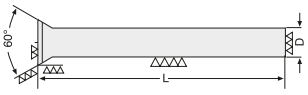
Long

D mm	D2 mm	T mm	D3 mm	D4 mm	L mm	L3 mm	L4 mm	734516.... €
1	5	0,01	7	D + 0,3	28	26	24	20,30
1,1 - 2	6	0,01	8	D + 0,3	28	25	24	15,40
2,1 - 3	7	0,01	9	D + 0,5	28	25	24	12,45
3,1 - 4	8	0,01	10	D + 0,5	28	25	24	12,45
4,1 - 5	10	0,01	12	D + 0,7	28	24	24	12,45
5,1 - 6	12	0,02	14	D + 0,7	28	24	24	12,45
6,1 - 8	15	0,02	17	D + 0,7	28	24	24	13,45
8,1 - 10	18	0,02	20	D + 1,0	28	24	24	14,25
10,1 - 12	22	0,02	24	D + 1,0	28	23	24	15,10
12,1 - 15	26	0,02	28	D + 1,0	28	23	24	19,80
15,1 - 18	30	0,02	32	D + 1,0	28	23	24	24,90
								7171

Precision punch, type D, HSS

HSS | DIN 9861

- **Type D**
- Hardened and tempered HSS; hot-formed head further tempered after rounding
- Shank and head plunge-ground and lapped
- Hardness: Shank 62 - 66 HRc, head 45 - 55 HRc
- D increasing in 0.1 mm increments up to Ø 25.00 mm
- Tolerance h6



- **Please specify nominal dimension D in mm, as a four digit figure!** (e.g. 3.60 mm = 0360; 15.10 mm = 1510)

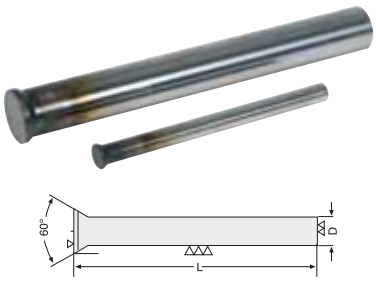
D mm	734001.... L= 71 mm €	734002.... L= 80 mm €	734003.... L= 100 mm €	734004.... L= 130 mm €
1,0 - 1,9	2,77	3,09	3,87	
2,0 - 3,0	2,71	3,01	3,68	
3,1 - 4,0	2,79	3,20	4,05	5,80
4,1 - 5,0	3,20	3,57	4,46	6,75
5,1 - 6,0	3,44	3,73	4,73	7,65
6,1 - 7,0	4,05	4,54	5,30	7,90
7,1 - 8,0	4,24	4,73	6,–	8,50
8,1 - 9,0	5,–	5,50	6,60	9,85
9,1 - 10,0	5,70	6,30	7,65	10,80
10,1 - 10,4	6,95	7,55	9,50	14,20
10,5	6,20	6,75	8,50	13,15
10,6 - 10,9	6,95	7,55	9,50	14,20
	7170	7170	7170	7170

D mm	734001.... L= 71 mm €	734002.... L= 80 mm €	734003.... L= 100 mm €	734004.... L= 130 mm €
11,0	6,20	6,75	8,85	13,15
11,5 - 12,0	6,95	7,75	9,85	15,10
12,5 - 13,0	7,90	8,70	11,–	17,40
13,5 - 14,0	9,30	10,25	13,15	19,–
14,5 - 15,0	11,–	12,20	15,50	21,60
15,5 - 16,0	13,35	14,90	19,–	25,10
16,5	14,50	16,–	20,30	30,–
17,0	14,50	16,–	21,10	30,–
17,5 - 18,0	16,80	18,60	23,60	33,20
18,5 - 19,0	19,20	21,10	27,10	39,10
19,5 - 20,0	22,80	25,10	31,90	44,50
	7170	7170	7170	7170

Precision punch, type DA, HSS

HSS | DIN 9861

- **Type DA**
- Hardened and tempered HSS, hot-formed head further tempered after rounding Shank ground and lapped
- Hardness: Shank 62 - 66 HRc, head 45 - 55 HRc
- Tolerance h6



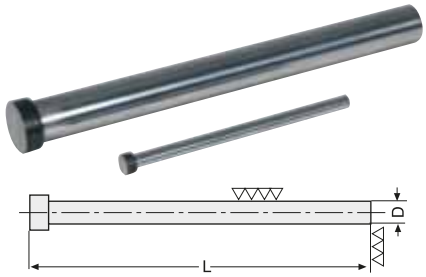
D mm	L= 71 mm art.no.	€	L= 100 mm art.no.	€
2.0	**734011** 0200	2,44	**734013** 0200	3,20
3.0	734011 0300	2,44	734013 0300	3,04
4.0	734011 0400	2,63	734013 0400	3,36
5.0	734011 0500	2,79	734013 0500	3,63
6.0	734011 0600	2,90	734013 0600	4,05
7.0	734011 0700	4,–	734013 0700	4,67
8.0	734011 0800	3,65	734013 0800	4,46
9.0	734011 0900	3,87	734013 0900	5,45
	7170		7170	

D mm	L= 71 mm art.no.	€	L= 100 mm art.no.	€
10.0	734011 1000	4,65	734013 1000	6,20
11.0	734011 1100	5,60	734013 1100	7,25
12.0	734011 1200	4,65	734013 1200	7,75
13.0	734011 1300	7,35	734013 1300	9,50
14.0	734011 1400	8,50	734013 1400	11,25
15.0	734011 1500	10,65	734013 1500	13,70
16.0	734011 1600	12,55	734013 1600	17,40
	7170		7170	

Precision punch, cylindrical head, type A

HSS | ISO 8020

- **With cylindrical head, type A**
- HSS, hardened, ground and lapped, hot-formed head further tempered
- Hardness: Shank: 62 - 66 HRc, head 47 - 57 HRc
- Tolerance m5



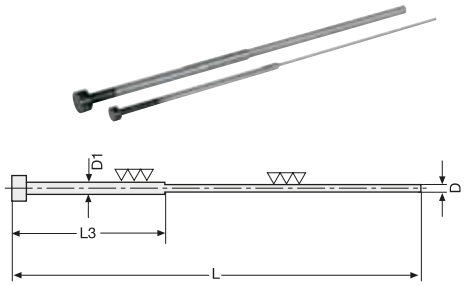
D mm	L= 71 mm art.no.	€	L= 80 mm art.no.	€	L= 100 mm art.no.	€
3.0	**734041** 0300	4,57	**734042** 0300	4,57		
4.0	734041 0400	4,70	734042 0400	4,75	**734043** 0400	4,97
5.0	734041 0500	5,10	734042 0500	5,25	734043 0500	5,55
6.0	734041 0600	5,20	734042 0600	5,65	734043 0600	6,05
7.0	734041 0700	8,30	734042 0700	6,70		
8.0	734041 0800	6,50	734042 0800	6,65	734043 0800	7,35
9.0			734042 0900	8,20	734043 0900	8,85
	7170		7170		7170	

D mm	L= 71 mm art.no.	€	L= 80 mm art.no.	€	L= 100 mm art.no.	€
10.0	734041 1000	7,70	734042 1000	7,70	734043 1000	8,45
12.0	734041 1200	9,10	734042 1200	9,65	734043 1200	10,75
13.0	734041 1300	27,60	734042 1300	12,45	734043 1300	13,55
16.0	734041 1600	14,90	734042 1600	15,90	734043 1600	17,80
20.0	734041 2000	35,10	734042 2000	36,60	734043 2000	40,–
25.0	734041 2500	43,50	734042 2500	45,70	734043 2500	51,–
	7170		7170		7170	

Precision ejector pins, type CH

WS | DIN 1530

- **Type CH, with cylindrical head, offset shank**
- WS – alloyed tool steel, hardened
- Hardness: Shank 58 - 62 HRc, head 40 - 50 HRc

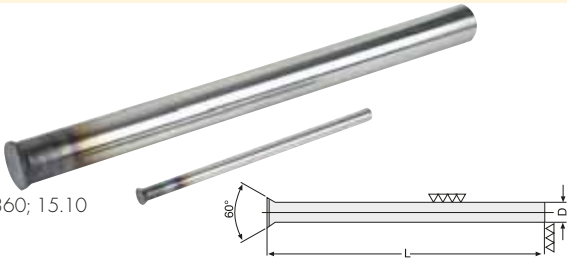


D mm	D1 mm	L= 100 mm L3= 50 mm art.no.	€	L= 125 mm L2= 50 mm art.no.	€	L= 150 mm L3= 50 mm art.no.	€
0.8	2.0	**734121** 0080	6,55	**734122** 0080	6,85		
1.0	2.0	734121 0100	5,65	734122 0100	5,95		
1.1	2.0	734121 0110	5,65	734122 0110	5,95		
1.2	2.0	734121 0120	5,65	734122 0120	5,95		
1.3	2.0	734121 0130	5,65	734122 0130	5,95		
1.5	3.0	734121 0150	5,95	734122 0150	6,30	**734123** 0150	8,60
		7170		7170		7170	

D mm	D1 mm	L= 100 mm L3= 50 mm art.no.	€	L= 125 mm L2= 50 mm art.no.	€	L= 150 mm L3= 50 mm art.no.	€
1.6	3.0	734121 0160	5,95	734122 0160	6,30		
1.9	3.0	734121 0190	5,95				
2.0	3.0			734122 0200	5,95	734123 0200	7,70
2.2	3.0			734122 0220	7,10		
2.5	3.0			734122 0250	5,95		
		7170		7170		7170	

Precision ejector pins, type D

WS | DIN 1530

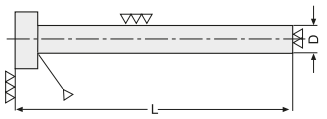


- WS – alloyed tool steel, hardened
- Hardness: Shank 58 - 62 HRc, head 40 - 50 HRc
- Tolerance g6
- **Please specify nominal dimension D in mm, as a four digit figure!** (e.g. 3.60 mm = 0360; 15.10 mm = 1510)
- Unit prices when purchased in PU

D mm		734101.... L= 100 mm €		734102.... L= 125 mm €		734103.... L= 160 mm €		734104.... L= 200 mm €		734105.... L= 250 mm €
1,0 - 1,9	10	1,68	10	1,79	10	2,31				
2,0	10	1,24	10	1,59	10	1,85	10	2,23	10	3,01
2,1 - 2,4	10	1,47	10	1,62	10	1,97				
2,5	10	1,19	10	1,51	10	1,76	10	2,23	10	3,18
2,6 - 2,9	10	1,47	10	1,62	10	1,97				
3,0	10	1,19	10	1,45	10	1,74	10	2,23	10	3,50
3,1 - 3,4	10	1,82	10	1,94	10	2,23				
3,5	10	1,33	10	1,53	10	1,82	10	2,34	10	3,67
3,6 - 3,9	10	1,82	10	1,94	10	2,23				
4,0	10	1,36	10	1,47	10	1,82	10	2,14	10	3,47
4,1	10	2,43	10	2,66	10	3,27				
4,2	10	1,82	10	2,14	10	2,43				
4,3 - 4,4	10	2,43	10	2,66	10	3,27				
4,5	10	1,47	10	1,74	10	2,03	10	2,54	10	3,59
4,6 - 4,9	10	2,43	10	2,66	10	3,27				
5,0	10	1,53	10	1,74	10	2,05	10	2,54	10	3,15
5,1	10	2,66	10	3,47	10	4,08				
5,2	10	2,14	10	2,43	10	2,95				
5,3 - 5,4	10	2,66	10	3,47	10	4,08				
5,5	10	1,74	10	2,08	10	2,54				
5,6 - 5,9	10	2,66	10	3,47	10	4,08				
6,0	10	1,79	10	2,11	10	2,52	10	3,07	10	4,17
6,1	10	3,44	10	3,67	10	4,49				
6,2	10	2,54	10	3,38	10	4,22				
6,3	10	4,02	10	4,78	10	5,95				
6,4	10	3,96	10	4,78	10	5,95				
6,5	10	2,54	10	3,38	10	4,22				
6,6 - 6,8	10	3,96	10	4,78	10	5,95				
6,9	10	3,96	10	4,78	10	4,63				
7,0	10	2,08	10	2,66	10	3,27				
7,1	10	4,25	10	5,20	10	6,20				
7,2	10	4,25	10	5,20	10	6,40				
7,3	10	4,25	10	5,20	10	6,20				
7,4	10	4,17	10	5,10	10	6,20				
7,5	10	2,87	10	3,76	10	4,69				
7,6	10	4,25	10	5,20	10	6,40				
7,7	10	4,25	10	5,05	10	6,40				
7,8	10	4,25	10	5,20	10	6,40				
7,9	10	4,25	10	6,20	10	6,40				
8,0	10	2,14	10	2,60	10	3,27	10	4,08	10	5,20
8,1	10	6,65	10	7,95						
8,2	10	3,67	10	4,54	10	5,40				
8,3	10	6,65	10	7,95	10	7,75				
8,4	10	6,65	10	7,95	10	10,60				
8,5	10	3,67	10	4,54	10	5,40				
8,6	10	6,65	10	10,60	10	10,60				
8,7	10	7,95	10	7,95	10	7,75				
8,8	10	7,95	10	10,60	10	10,60				
8,9	10	10,60	10	10,60	10	7,75				
9,0	10	3,67	10	4,54	10	5,40	10	6,90	10	8,60
9,5	10	7,30	10	8,90	10	6,15	10	14,30		
10,0	10	3,27	10	3,82	10	4,49	10	6,05	10	7,25
12,0	10	4,08	10	4,92	10	5,90	10	7,65	10	8,55
14,0	10	6,30	10	6,70	10	8,45	10	10,40	10	12,25
16,0	10	7,10	10	8,35	10	9,85	10	12,25	10	16,30
		7170		7170		7170		7170		7170

Precision ejector pins, type AH

WS | DIN 1530



Type AH, with cylindrical head

- WS – alloyed tool steel, hardened
- Hardness: Shank 58 - 62 HRc, head 40 - 50 HRc
- Other lengths and diameters available on request

- **Please specify nominal dimension D in mm, as a four digit figure!** (e.g. 3.60 mm = 0360; 15.10 mm = 1510)

- Unit prices when purchased in PU

D mm		734111.... L= 100 mm €		734112.... L = 125 mm €		734113.... L = 160 mm €
1 - 1.4	10	3,99	10	4,37	10	4,78
1.5 - 1.9	10	2,40	10	2,78	10	3,18
2	10	1,56	10	1,85	10	2,17
2.1	10	2,29	10	2,40	10	2,58
2.2	10	1,79	10	2,–	10	2,20
2.3 - 2.4	10	2,29	10	2,40	10	2,58
2.5	10	1,56	10	1,85	10	2,14
2.6	10	2,29	10	2,40	10	2,58
2.7	10	1,74	10	1,94	10	2,23
2.8	10	2,29	10	2,72	10	2,58
2.9	10	2,58	10	2,40	10	2,58
3	10	1,56	10	1,74	10	2,08
3.1	10	2,40	10	2,78	10	2,78
3.2	10	1,71	10	1,97	10	2,20
3.3 - 3.4	10	2,40	10	2,58	10	2,78
3.5	10	1,68	10	1,88	10	2,23
3.6	10	2,40	10	2,58	10	2,78
3.7	10	1,68	10	1,85	10	2,29
3.8	10	2,40	10	2,58	10	2,78
3.9	10	2,78	10	2,58	10	2,78
4	10	2,34	10	1,88	10	2,11
4.1	10	2,98	10	2,98	10	2,98
4.2	10	1,79	10	2,14	10	2,34
4.3	10	2,98			10	2,98
4.4	10	2,98	10	2,98	10	4,92
4.5	10	1,79	10	2,08	10	2,31
4.6	10	2,98	10	2,98	10	2,98
4.7	10	1,97	10	2,20	10	2,37
4.8 - 4.9	10	2,98	10	2,98	10	2,98
5	10	1,76	10	2,08	10	2,26
		7170		7170		7170

D mm		734111.... L= 100 mm €		734112.... L = 125 mm €		734113.... L = 160 mm €
5.1	10	3,18	10	3,18	10	3,18
5.2	10	2,23	10	2,43	10	2,69
5.3 - 5.4	10	3,18			10	3,18
5.5	10	2,14	10	2,40	10	2,72
5.6	10	3,18			10	3,18
5.7			10	2,78	10	3,18
5.8			10	3,18	10	3,18
5.9	10	6,20			10	3,18
6	10	1,97	10	2,26	10	2,69
6.1	10	4,49			10	4,49
6.2	10	2,87	10	2,87	10	3,30
6.5	10	2,37	10	2,87	10	3,44
7	10	2,37	10	2,87	10	3,24
7.5	10	2,98	10	3,79	10	4,37
8	10	2,40	10	2,95	10	3,41
8.2	10	3,27	10	3,85	10	4,46
8.5	10	3,27	10	3,88	10	4,46
9	10	3,27	10	4,02	10	4,54
10	10	3,41	10	3,99	10	4,54
10.2	10	3,99			10	5,95
10.5	10	3,99	10	4,98	10	5,95
11					10	7,75
12	10	3,99	10	5,30	10	6,30
12.2	10	4,63			10	7,30
12.5	10	4,63	10	5,70	10	7,30
14	10	5,55	10	6,85	10	8,35
16	10	7,55	10	8,75	10	10,–
18					10	15,30
20					10	13,95
		7170		7170		7170

D mm		734114.... L= 200 mm €		734115.... L= 250 mm €		734116.... L= 315 mm €
2	10	2,58	10	3,33	10	4,14
2,2	10	2,66	10	3,36		
2,5	10	2,54	10	3,38	10	4,43
2,7	10	2,58	10	3,59		
3	10	2,43	10	3,44	10	4,37
3,2	10	2,66	10	2,92		
3,5	10	2,81	10	3,50	10	3,99
3,7	10	2,66	10	3,47		
4	10	2,49	10	3,59	10	4,43
4,2	10	2,92	10	3,67	10	4,69
4,5	10	2,78	10	3,82	10	5,20
4,7	10	2,98	10	3,99		
5	10	2,69	10	3,73	10	4,80
5,2	10	3,21	10	4,34	10	5,45
5,3	10	3,18				
		7170		7170		7170

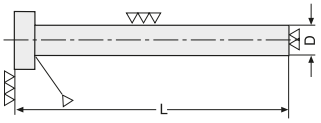
D mm		734114.... L= 200 mm €		734115.... L= 250 mm €		734116.... L= 315 mm €
5,5	10	3,33	10	4,43	10	5,65
6	10	3,18	10	3,99	10	5,05
6,2	10	4,20	10	5,95	10	7,05
6,5	10	4,20	10	5,95	10	7,65
7	10	4,20	10	6,10	10	7,95
8	10	3,99	10	5,50	10	7,30
8,2 - 8,5	10	5,85	10	7,70	10	10,20
9	10	5,75	10	7,55	10	9,80
10	10	5,95	10	7,55	10	9,05
12	10	7,40	10	9,30	10	10,45
14	10	9,65	10	12,20	10	15,20
16	10	11,90	10	15,60	10	19,70
18	10	18,10	10	25,60	10	29,90
20	10	17,70	10	23,20	10	27,90
		7170		7170		7170

Precision ejector pins, type A

DIN 1530 A

- **Type A, with cylindrical head for die-casting moulds, pressing and injection tools**
- Nitridable hot-working steel, heat-resistant up to 600 °C, nitrided, ground
- Hardness: Shank min. 950 HV 0.3 (approx. 70 HRc), head 50 ± 5 HRc
- Core tensile strength: approx. 1400 - 1500 N/mm²

- Unit prices when purchased in PU

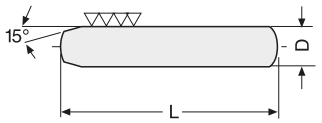


D mm		L= 100 mm art.no.	€		L = 125 mm art.no.	€		L= 160 mm art.no.	€		L = 200 mm art.no.	€		L = 250 mm art.no.	€		L = 315 mm art.no.	€
1.5	10	**734181** 0150	4,74	10	**734182** 0150	5,–	10	**734183** 0150	5,40	10	**734184** 0150	5,95						
2	10	734181 0200	3,01	10	734182 0200	3,18	10	734183 0200	3,38	10	734184 0200	3,67	10	**734185** 0200	3,94			
2.2	10	734181 0220	4,08	10	734182 0220	4,17	10	734183 0220	4,31	10	734184 0220	4,43						
2.5	10	734181 0250	3,44	10	734182 0250	3,65	10	734183 0250	3,76	10	734184 0250	4,28	10	734185 0250	4,31	10	**734186** 0250	4,92
2.7	10	734181 0270	4,08	10	734182 0270	4,17	10	734183 0270	4,31	10	734184 0270	4,43	10	734185 0270	4,17			
3	10	734181 0300	2,75	10	734182 0300	2,87	10	734183 0300	3,01	10	734184 0300	3,38	10	734185 0300	3,76	10	734186 0300	4,31
3.2	10	734181 0320	3,36	10	734182 0320	3,67	10	734183 0320	3,76	10	734184 0320	4,20	10	734185 0320	4,60	10	734186 0320	5,20
3.5	10	734181 0350	3,76	10	734182 0350	3,82	10	734183 0350	4,02	10	734184 0350	4,46	10	734185 0350	4,66	10	734186 0350	5,85
3.7	10	734181 0370	3,76	10	734182 0370	4,14	10	734183 0370	4,28	10	734184 0370	4,80	10	734185 0370	5,10	10	734186 0370	6,35
4	10	734181 0400	2,89	10	734182 0400	3,07	10	734183 0400	3,18	10	734184 0400	3,50	10	734185 0400	3,76	10	734186 0400	4,72
4.2	10	734181 0420	3,67	10	734182 0420	3,99	10	734183 0420	4,14	10	734184 0420	4,69	10	734185 0420	5,05	10	734186 0420	5,90
4.5	10	734181 0450	3,91	10	734182 0450	4,20	10	734183 0450	4,28	10	734184 0450	4,80	10	734185 0450	5,20	10	734186 0450	6,20
5	10	734181 0500	3,62	10	734182 0500	3,04	10	734183 0500	3,27	10	734184 0500	3,41	10	734185 0500	4,69	10	734186 0500	5,40
5.2	10	734181 0520	3,67	10	734182 0520	3,91	10	734183 0520	4,08	10	734184 0520	4,69	10	734185 0520	5,20	10	734186 0520	6,20
5.5	10	734181 0550	4,14	10	734182 0550	4,25	10	734183 0550	4,40	10	734184 0550	5,05	10	734185 0550	5,55	10	734186 0550	6,65
6	10	734181 0600	3,21	10	734182 0600	3,41	10	734183 0600	3,67	10	734184 0600	3,99	10	734185 0600	4,40	10	734186 0600	5,05
6.2	10	734181 0620	5,15	10	734182 0620	5,30	10	734183 0620	5,85	10	734184 0620	6,90	10	734185 0620	7,50	10	734186 0620	9,45
6.5	10	734181 0650	5,10	10	734182 0650	5,40	10	734183 0650	5,75	10	734184 0650	6,85	10	734185 0650	7,50	10	734186 0650	9,35
7	10	734181 0700	5,05	10	734182 0700	5,40	10	734183 0700	5,75	10	734184 0700	6,10	10	734185 0700	7,30	10	734186 0700	8,20
8	10	734181 0800	3,76	10	734182 0800	4,08	10	734183 0800	4,49	10	734184 0800	4,83	10	734185 0800	5,60	10	734186 0800	6,35
8.2	10	734181 0820	5,75	10	734182 0820	6,20	10	734183 0820	6,45	10	734184 0820	7,45	10	734185 0820	8,50	10	734186 0820	9,95
8.5	10	734181 0850	6,30	10	734182 0850	6,75	10	734183 0850	7,35	10	734184 0850	8,70	10	734185 0850	9,85	10	734186 0850	12,50
9	10	734181 0900	6,30	10	734182 0900	6,55	10	734183 0900	7,15	10	734184 0900	8,05	10	734185 0900	9,25	10	734186 0900	10,80
10	10	734181 1000	4,37	10	734182 1000	4,83	10	734183 1000	5,45	10	734184 1000	6,20	10	734185 1000	7,10	10	734186 1000	8,35
10.2	10	734181 1020	7,50	10	734182 1020	8,05	10	734183 1020	8,65	10	734184 1020	11,20	10	734185 1020	12,40	10	734186 1020	15,90
10.5	10	734181 1050	10,25	10	734182 1050	10,75	10	734183 1050	11,65	10	734184 1050	13,70	10	734185 1050	15,40	10	734186 1050	17,50
11	10	734181 1100	8,35	10	734182 1100	8,95	10	734183 1100	9,60	10	734184 1100	11,45	10	734185 1100	12,65	10	734186 1100	14,60
12	10	734181 1200	5,85	10	734182 1200	6,90	10	734183 1200	7,70	10	734184 1200	9,60	10	734185 1200	11,65	10	734186 1200	4,95
12.2	10	734181 1220	9,05	10	734182 1220	11,10	10	734183 1220	12,55	10	734184 1220	15,70	10	734185 1220	17,50	10	734186 1220	18,40
12.5	10	734181 1250	9,05	10	734182 1250	11,10	10	734183 1250	12,55	10	734184 1250	15,70	10	734185 1250	17,50	10	734186 1250	18,40
14	10	734181 1400	7,25	10	734182 1400	10,60	10	734183 1400	11,05	10	734184 1400	12,50	10	734185 1400	14,05	10	734186 1400	15,60
16	10	734181 1600	9,65	10	734182 1600	11,85	10	734183 1600	12,30	10	734184 1600	14,80	10	734185 1600	16,90	10	734186 1600	19,–
18							10	734183 1800	14,40	10	734184 1800	20,–	10	734185 1800	23,30	10	734186 1800	28,10
20				10	734182 2000	35,80	10	734183 2000	16,10	10	734184 2000	19,80	10	734185 2000	23,30	10	734186 2000	28,10
25										10	734184 2500	44,20	10	734185 2500	50,50	10	734186 2500	64,–
		7170			7170			7170			7170			7170			7170	

Precision cylindrical pins

DIN 6325

- Special steel with tensile strength > 600 N/mm²; hardened, tempered, ground and lapped
- Hardness: through-hardened, 60 ± 2 HRc
- Tolerance m6 (h6 on request)
- Other lengths and diameters available on request
- Unit prices when purchased in PU



D mm		L = 8 mm art.no.	€		L = 10 mm art.no.	€		L = 12 mm art.no.	€		L = 14 mm art.no.	€
2	100	**734302** 0200	0,05	100	**734303** 0200	0,05	100	**734304** 0200	0,05	100	**734305** 0200	0,05
2.5	100	734302 0250	0,05	100	734303 0250	0,05	100	734304 0250	0,05	100	734305 0250	0,05
3	100	734302 0300	0,05	100	734303 0300	0,05	100	734304 0300	0,05	100	734305 0300	0,05
4	100	734302 0400	0,05	100	734303 0400	0,05	100	734304 0400	0,05	100	734305 0400	0,10
5				100	734303 0500	0,10	100	734304 0500	0,10	100	734305 0500	0,10
6				100	734303 0600	0,10	100	734304 0600	0,10	100	734305 0600	0,10
8							100	734304 0800	0,15	100	734305 0800	0,15
10										100	734305 1000	0,27
		7170			7170			7170			7170	

D mm		L = 16 mm art.no.	€		L = 18 mm art.no.	€		L = 20 mm art.no.	€		L = 24 mm art.no.	€
2	100	**734306** 0200	0,05	100	**734307** 0200	0,05	100	**734308** 0200	0,05			
2.5	100	734306 0250	0,05				100	734308 0250	0,05			
3	100	734306 0300	0,05	100	734307 0300	0,05	100	734308 0300	0,05	100	**734309** 0300	0,10
4	100	734306 0400	0,10	100	734307 0400	0,10	100	734308 0400	0,10	100	734309 0400	0,10
5	100	734306 0500	0,10	100	734307 0500	0,10	100	734308 0500	0,10	100	734309 0500	0,10
6	100	734306 0600	0,10	100	734307 0600	0,10	100	734308 0600	0,15	100	734309 0600	0,15
8	100	734306 0800	0,15	100	734307 0800	0,22	100	734308 0800	0,22	100	734309 0800	0,22
10	100	734306 1000	0,27	100	734307 1000	0,27	100	734308 1000	0,22	100	734309 1000	0,27
12				100	734307 1200	0,32	100	734308 1200	0,37	100	734309 1200	0,37
		7170			7170			7170			7170	

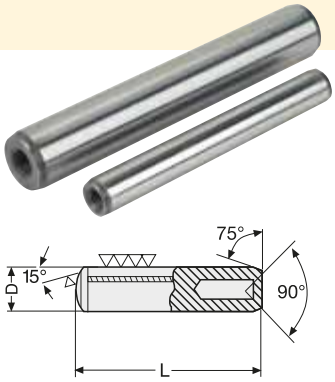
D mm		L = 28 mm art.no.	€		L = 30 mm art.no.	€		L = 32 mm art.no.	€		L = 36 mm art.no.	€
2	100	**734310** 0200	0,10									
2.5	100	734310 0250	0,10									
3	100	734310 0300	0,10	100	**734311** 0300	0,10	100	**734312** 0300	0,10	100	**734313** 0300	0,10
4	100	734310 0400	0,10	100	734311 0400	0,10	100	734312 0400	0,10	100	734313 0400	0,10
5	100	734310 0500	0,15	100	734311 0500	0,15	100	734312 0500	0,15	100	734313 0500	0,15
6	100	734310 0600	0,15	100	734311 0600	0,15	100	734312 0600	0,15	100	734313 0600	0,22
8	100	734310 0800	0,22	100	734311 0800	0,22	100	734312 0800	0,22	100	734313 0800	0,27
10	100	734310 1000	0,32	100	734311 1000	0,32	100	734312 1000	0,37	100	734313 1000	0,37
12	100	734310 1200	0,42	100	734311 1200	0,47	100	734312 1200	0,47	100	734313 1200	0,53
14							100	734312 1400	1,01	100	734313 1400	1,06
16	100	734310 1600	1,01	100	734311 1600	1,01	100	734312 1600	1,06	100	734313 1600	1,11
20							100	734312 2000	1,86	100	734313 2000	1,91
		7170			7170			7170			7170	

D mm		L = 40 mm art.no.	€		L = 50 mm art.no.	€		L = 60 mm art.no.	€		L = 70 mm art.no.	€
3	100	**734314** 0300	0,10	100	**734316** 0300	0,05						
4	100	734314 0400	0,10	100	734316 0400	0,15				100	**734319** 0400	0,27
5	100	734314 0500	0,15	100	734316 0500	0,22	100	**734318** 0500	0,22			
6	100	734314 0600	0,22	100	734316 0600	0,22	100	734318 0600	0,27	100	734319 0600	0,32
8	100	734314 0800	0,27	100	734316 0800	0,32	100	734318 0800	0,37	100	734319 0800	0,42
10	100	734314 1000	0,42	100	734316 1000	0,53	100	734318 1000	0,53	100	734319 1000	0,69
12	100	734314 1200	0,53	100	734316 1200	0,69	100	734318 1200	0,79	100	734319 1200	0,90
14	100	734314 1400	1,06	100	734316 1400	1,17	100	734318 1400	1,38	100	734319 1400	1,54
16	100	734314 1600	1,17	100	734316 1600	1,27	100	734318 1600	1,48	100	734319 1600	1,59
20	100	734314 2000	2,02	100	734316 2000	2,23	100	734318 2000	2,44	100	734319 2000	2,65
25	100	734314 2500	4,19	100	734316 2500	5,25	100	734318 2500	5,55	100	734319 2500	6,50
		7170			7170			7170			7170	

D mm		L= 80 mm art.no.	€		L= 100 mm art.no.	€
6	100	**734320** 0600	0,37			
8	100	734320 0800	0,53	100	**734323** 0800	0,69
10	100	734320 1000	0,69	100	734323 1000	1,01
12	100	734320 1200	1,01	100	734323 1200	1,27
14	100	734320 1400	1,70	100	734323 1400	2,12
16	100	734320 1600	1,75	100	734323 1600	2,18
20	100	734320 2000	2,87	100	734323 2000	3,44
25	100	734320 2500	6,95	100	734323 2500	8,70
		7170			7170	

Precision cylindrical pins with female thread

DIN 7979D



With internal thread and air vent

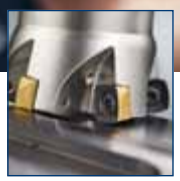
- Special steel with tensile strength > 600 N/mm²; hardened, tempered, ground and lapped
- Hardness: through-hardened, 60 ± 2 HRc
- Tolerance m6
- Unit prices when purchased in PU

D mm	L = 16 mm			L = 20 mm			L = 24 mm			L = 28 mm		
		art.no.	€		art.no.	€		art.no.	€		art.no.	€
5	100	**734331** 0500	0,32	100	**734332** 0500	0,27	100	**734333** 0500	0,32	100	**734334** 0500	0,32
6	100	734331 0600	0,22	100	734332 0600	0,22	100	734333 0600	0,22	100	734334 0600	0,22
8				100	734332 0800	0,27	100	734333 0800	0,27	100	734334 0800	0,32
10				100	734332 1000	0,32	100	734333 1000	0,32	100	734334 1000	0,37
12							100	734333 1200	0,42	100	734334 1200	0,47
16										100	734334 1600	1,11
		7170			7170			7170			7170	

D mm	L = 30 mm			L = 32 mm			L = 36 mm			L = 40 mm		
		art.no.	€		art.no.	€		art.no.	€		art.no.	€
5	100	**734335** 0500	0,37	100	**734336** 0500	0,37	100	**734337** 0500	0,42	100	**734338** 0500	0,42
6	100	734335 0600	0,27	100	734336 0600	0,27	100	734337 0600	0,32	100	734338 0600	0,32
8	100	734335 0800	0,32	100	734336 0800	0,32	100	734337 0800	0,37	100	734338 0800	0,42
10	100	734335 1000	0,37	100	734336 1000	0,37	100	734337 1000	0,42	100	734338 1000	0,47
12	100	734335 1200	0,47	100	734336 1200	0,53	100	734337 1200	0,59	100	734338 1200	0,59
13				100	734336 1300	1,01	100	734337 1300	1,06	100	734338 1300	1,11
14				100	734336 1400	1,01	100	734337 1400	1,06	100	734338 1400	1,11
16	100	734335 1600	1,11	100	734336 1600	1,17	100	734337 1600	1,22	100	734338 1600	1,33
20				100	734336 2000	1,86	100	734337 2000	1,96	100	734338 2000	2,07
25										100	734338 2500	4,51
		7170			7170			7170			7170	

D mm	L = 50 mm			L = 60 mm			L = 70 mm		
		art.no.	€		art.no.	€		art.no.	€
5	100	**734340** 0500	0,47						
6	100	734340 0600	0,37	100	**734342** 0600	0,47	100	**734343** 0600	1,38
8	100	734340 0800	0,47	100	734342 0800	0,59	100	734343 0800	1,01
10	100	734340 1000	0,59	100	734342 1000	0,74	100	734343 1000	1,06
12	100	734340 1200	0,69	100	734342 1200	0,79	100	734343 1200	1,06
13	100	734340 1300	1,27	100	734342 1300	1,43	100	734343 1300	1,54
14	100	734340 1400	1,27	100	734342 1400	1,43	100	734343 1400	1,54
16	100	734340 1600	1,48	100	734342 1600	1,64	100	734343 1600	1,80
20	100	734340 2000	2,33	100	734342 2000	2,60	100	734343 2000	2,87
25	100	734340 2500	4,72	100	734342 2500	4,93	100	734343 2500	5,05
30	100	734340 3000	8,50	100	734342 3000	9,60	100	734343 3000	10,15
		7170			7170			7170	

D mm	L= 80 mm			L= 100 mm			L = 120 mm		
		art.no.	€		art.no.	€		art.no.	€
6	100	**734344** 0600	1,38	100	**734346** 0600	2,65			
8	100	734344 0800	1,06	100	734346 0800	1,86			
10	100	734344 1000	1,17	100	734346 1000	1,48	100	**734347** 1000	1,91
12	100	734344 1200	1,11	100	734346 1200	1,91	100	734347 1200	2,55
13	100	734344 1300	1,70	100	734346 1300	1,96	100	734347 1300	2,87
14	100	734344 1400	1,70	100	734346 1400	1,96	100	734347 1400	2,87
16	100	734344 1600	1,96	100	734346 1600	2,50	100	734347 1600	3,13
20	100	734344 2000	3,13	100	734346 2000	3,98	100	734347 2000	4,88
25	100	734344 2500	5,05	100	734346 2500	6,35	100	734347 2500	7,65
30	100	734344 3000	10,70	100	734346 3000	12,70	100	734347 3000	15,50
		7170			7170			7170	



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