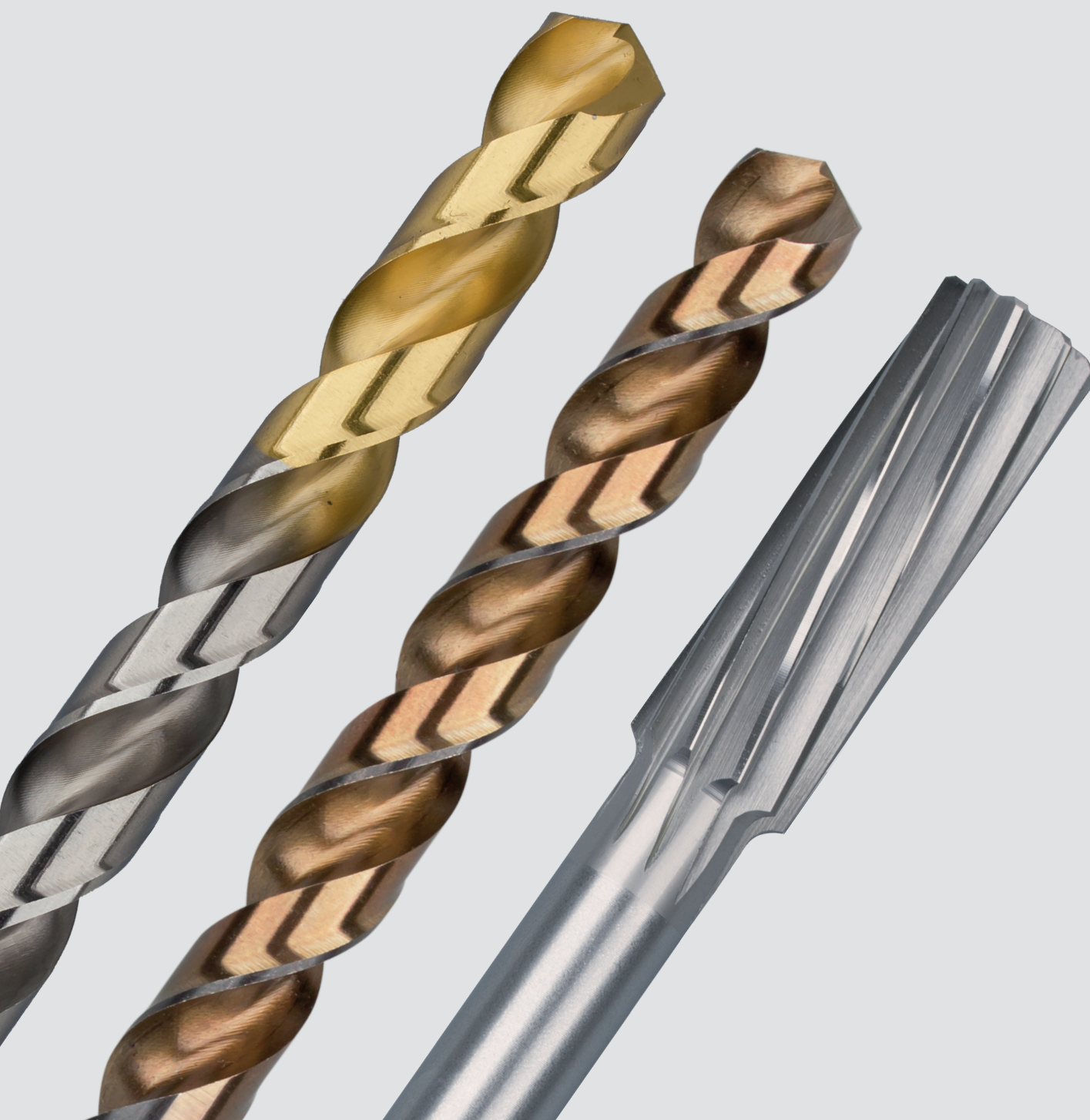


Metal drill bits Reamers



CUTTING SPEEDS AND FEEDRATES FOR HSS TWISTED DRILL BITS

DIAMETERS

Materials	Vc [m/min]		ø2	ø3	ø5	ø8	ø12	ø16	ø20	ø25	ø40	ø60
Steel < 500 N/mm ²	28 - 32	f	0,03	0,05	0,10	0,15	0,20	0,25	0,30	0,35	0,40	0,50
		n	4800	3200	1900	1200	800	600	480	380	240	160
Steel 500 - 700 N/mm ²	25 - 30	f	0,03	0,05	0,10	0,15	0,20	0,25	0,30	0,35	0,40	0,50
		n	4200	2800	1650	1050	700	520	420	330	210	140
Steel 700 - 900 N/mm ²	16 - 20	f	0,03	0,05	0,07	0,10	0,13	0,16	0,20	0,25	0,30	0,30
		n	2500	1700	1150	720	480	360	290	230	140	95
Steel 900 - 1100 N/mm ²	8 - 12	f	0,02	0,03	0,05	0,07	0,10	0,13	0,16	0,20	0,25	0,40
		n	1600	1050	640	400	270	200	160	130	80	55
Stainless Steel < 900 N/mm ²	7 - 12	f	0,02	0,03	0,04	0,07	0,10	0,13	0,15	0,18	0,22	0,27
		n	1600	850	500	320	210	160	130	100	65	45
Cast iron < 200 HB	18 - 25	f	0,04	0,08	0,12	0,18	0,25	0,30	0,35	0,40	0,50	0,60
		n	3200	2100	1300	800	530	400	320	260	160	110
Cast iron < 350 HB	7 - 12	f	0,03	0,05	0,08	0,10	0,15	0,20	0,25	0,30	0,40	0,40
		n	1400	950	570	360	240	180	150	120	70	50
Brass	60 - 90	f	0,06	0,10	0,15	0,20	0,25	0,30	0,35	0,40	0,50	0,60
		n	10000	7500	4500	3000	2000	1500	1200	925	560	360
Copper	35 - 65	f	0,05	0,06	0,10	0,15	0,20	0,25	0,30	0,40	0,45	0,50
		n	8000	5300	3200	2000	1350	1000	800	640	400	270
Aluminium	40 - 65	f	0,05	0,08	0,10	0,15	0,20	0,25	0,30	0,35	0,40	0,50
		n	8000	5300	3200	2000	1320	1000	800	640	400	260
Plastics	25 - 40	f	0,05	0,08	0,10	0,15	0,20	0,25	0,30	0,35	0,40	0,50
		n	4800	3200	1900	1200	800	600	480	380	240	160

f Feedrate in millimeters per revolution [mm/rev]

n Spindle speed in revolutions per minute [rev/min]

Formulas

$$n = \frac{V_c \times 1000}{3,14 \times \phi d}$$

V_c = desired cutting speed in meters per minute [m/min]
 ød = drill bit diameter in millimeters [mm]

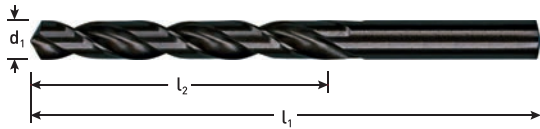
$$V_c = \frac{\phi d \times 3,14 \times n}{1000}$$

ød = drill bit diameter in millimeters [mm]
 n = spindle speed in revolutions per minute [rev/min]

$$F_t = n \times f$$

100

HSS-R Jobber drill bit, SILVER-LINE



Execution: HSS-R Jobber drill bit, DIN 338, roll forged, point-angle 118°, type N, steam tempered.

Application: General-purpose drill, to drill steels with tensile strength up to 1.000 N/mm², cast steel, grey cast iron, malleable cast iron, nickel brass and graphite.
Material groups : 1.1 - 1.4 / 3.1 - 3.3

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
0,2	19	2,5	10	100.0020	19,50
0,3	19	3	10	100.0030	17,50
0,4	20	5	10	100.0040	12,50
0,5	22	6	10	100.0050	12,50
0,6	24	7	10	100.0060	12,50
0,7	28	9	10	100.0070	12,50
0,8	30	10	10	100.0080	12,00
0,9	32	11	10	100.0090	12,00
1,0	34	12	10	100.0100	7,00
1,1	36	14	10	100.0110	7,00
1,2	38	16	10	100.0120	7,00
1,3	38	16	10	100.0130	7,00
1,4	40	18	10	100.0140	7,00
1,5	40	18	10	100.0150	7,00
1,6	43	20	10	100.0160	7,00
1,7	43	20	10	100.0170	7,00
1,8	46	22	10	100.0180	7,00
1,9	46	22	10	100.0190	7,00
2,0	49	24	10	100.0200	6,70
2,1	49	24	10	100.0210	6,50
2,2	53	27	10	100.0220	6,50
2,3	53	27	10	100.0230	6,50
2,4	57	30	10	100.0240	7,80
2,5	57	30	10	100.0250	7,80
2,6	57	30	10	100.0260	7,80
2,7	61	33	10	100.0270	7,80
2,8	61	33	10	100.0280	7,80
2,9	61	33	10	100.0290	7,80
3,0	61	33	10	100.0300	7,00
3,1	65	36	10	100.0310	8,00
3,2	65	36	10	100.0320	8,00
3,3	65	36	10	100.0330	8,90
3,4	70	39	10	100.0340	8,90
3,5	70	39	10	100.0350	8,90
3,6	70	39	10	100.0360	8,90
3,7	70	39	10	100.0370	8,90
3,8	75	43	10	100.0380	9,90
3,9	75	43	10	100.0390	9,90
4,0	75	43	10	100.0400	9,30
4,1	75	43	10	100.0410	9,90
4,2	75	43	10	100.0420	9,90
4,3	80	47	10	100.0430	11,30
4,4	80	47	10	100.0440	11,30
4,5	80	47	10	100.0450	11,60
4,6	80	47	10	100.0460	11,30
4,7	80	47	10	100.0470	12,20
4,8	86	52	10	100.0480	12,20
4,9	86	52	10	100.0490	12,00
5,0	86	52	10	100.0500	12,50
5,1	86	52	10	100.0510	13,10
5,2	86	52	10	100.0520	13,10
5,3	86	52	10	100.0530	13,40
5,4	93	57	10	100.0540	17,80
5,5	93	57	10	100.0550	15,50
5,6	93	57	10	100.0560	16,20

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
5,7	93	57	10	100.0570	16,20
5,8	93	57	10	100.0580	16,20
5,9	93	57	10	100.0590	16,60
6,0	93	57	10	100.0600	15,50
6,1	101	63	10	100.0610	18,60
6,2	101	63	10	100.0620	18,60
6,3	101	63	10	100.0630	18,60
6,4	101	63	10	100.0640	19,60
6,5	101	63	10	100.0650	19,30
6,6	101	63	10	100.0660	19,60
6,7	101	63	10	100.0670	19,60
6,8	109	69	10	100.0680	23,10
6,9	109	69	10	100.0690	22,60
7,0	109	69	10	100.0700	20,80
7,1	109	69	10	100.0710	23,40
7,2	109	69	10	100.0720	24,30
7,3	109	69	10	100.0730	24,30
7,4	109	69	10	100.0740	24,30
7,5	109	69	10	100.0750	22,60
7,6	117	75	10	100.0760	26,40
7,7	117	75	10	100.0770	26,40
7,8	117	75	10	100.0780	26,40
7,9	117	75	10	100.0790	26,40
8,0	117	75	10	100.0800	26,60
8,1	117	75	10	100.0810	27,50
8,2	117	75	10	100.0820	28,60
8,3	117	75	10	100.0830	27,50
8,4	117	75	10	100.0840	27,50
8,5	117	75	10	100.0850	27,50
8,6	125	81	10	100.0860	33,40
8,7	125	81	10	100.0870	33,40
8,8	125	81	10	100.0880	33,40
8,9	125	81	10	100.0890	34,30
9,0	125	81	10	100.0900	32,80
9,1	125	81	10	100.0910	34,30
9,2	125	81	10	100.0920	34,30
9,3	125	81	10	100.0930	34,70
9,4	125	81	10	100.0940	34,70
9,5	125	81	10	100.0950	36,40
9,6	133	87	10	100.0960	38,40
9,7	133	87	10	100.0970	38,40
9,8	133	87	10	100.0980	38,40
9,9	133	87	10	100.0990	39,80
10,0	133	87	10	100.1000	38,90
10,2	133	87	5	100.1020	23,25
10,5	133	87	5	100.1050	26,35
10,8*	142	94	5	100.1080	32,65
11,0	142	94	5	100.1100	30,90
11,5	142	94	5	100.1150	31,30
12,0	151	101	5	100.1200	38,35
12,4*	151	101	5	100.1240	45,90
12,5	151	101	5	100.1250	43,15
13,0	151	101	5	100.1300	46,85
15,5*	178	120	1	100.1550	18,54

* Phase-out item, available until stock has depleted

HSS-R Jobber drill bit, SILVER-LINE, in EV-pack



Execution: HSS-R Jobber drill bit, DIN 338, roll forged, point-angle 118°, type N, steam tempered.

Application: General-purpose drill, to drill steels with tensile strength up to 1.000 N/mm², cast steel, grey cast iron, malleable cast iron, nickel brass and graphite.
Material groups : 1.1 - 1.4 / 3.1 - 3.3

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
1,0	34	12	2	100.0100B	1,72
1,1	36	14	2	100.0110B	1,89
1,2	38	16	2	100.0120B	1,89
1,3	38	16	2	100.0130B	1,89
1,4	40	18	2	100.0140B	1,89
1,5	40	18	2	100.0150B	1,83
1,6	43	20	2	100.0160B	1,89
1,7	43	20	2	100.0170B	1,89
1,8	46	22	2	100.0180B	1,89
1,9	46	22	2	100.0190B	1,89
2,0	49	24	2	100.0200B	1,96
2,1	49	24	2	100.0210B	1,80
2,2	53	27	2	100.0220B	1,80
2,3	53	27	2	100.0230B	1,80
2,4	57	30	2	100.0240B	2,01
2,5	57	30	2	100.0250B	2,12
2,6	57	30	2	100.0260B	2,01
2,7	61	33	2	100.0270B	2,01
2,8	61	33	2	100.0280B	2,01
2,9	61	33	2	100.0290B	2,01
3,0	61	33	2	100.0300B	2,28
3,1*	65	36	2	100.0310B	2,55
3,2	65	36	2	100.0320B	2,45
3,3	65	36	2	100.0330B	2,55
3,4	70	39	2	100.0340B	2,27
3,5	70	39	2	100.0350B	2,55
3,6	70	39	2	100.0360B	2,27
3,7	70	39	2	100.0370B	2,27
3,8	75	43	2	100.0380B	2,46
3,9	75	43	2	100.0390B	2,46
4,0	75	43	2	100.0400B	2,55
4,1*	75	43	1	100.0410E	1,90
4,2	75	43	1	100.0420E	1,90
4,3	80	47	1	100.0430E	1,65
4,4	80	47	1	100.0440E	1,65
4,5	80	47	1	100.0450E	1,90
4,6	80	47	1	100.0460E	1,65
4,7	80	47	1	100.0470E	1,73
4,8*	86	52	1	100.0480E	1,95
4,9	86	52	1	100.0490E	1,71
5,0	86	52	1	100.0500E	2,24
5,1*	86	52	1	100.0510E	2,24
5,2	86	52	1	100.0520E	2,24
5,3	86	52	1	100.0530E	1,84
5,4	93	57	1	100.0540E	2,12
5,5	93	57	1	100.0550E	2,24
5,6	93	57	1	100.0560E	2,12
5,7	93	57	1	100.0570E	2,12
5,8	93	57	1	100.0580E	2,12

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
5,9	93	57	1	100.0590E	2,16
6,0	93	57	1	100.0600E	2,39
6,1	101	63	1	100.0610E	2,36
6,2	101	63	1	100.0620E	2,36
6,3	101	63	1	100.0630E	2,36
6,4	101	63	1	100.0640E	2,47
6,5	101	63	1	100.0650E	2,47
6,6	101	63	1	100.0660E	2,47
6,7	101	63	1	100.0670E	2,47
6,8*	109	69	1	100.0680E	2,54
6,9	109	69	1	100.0690E	2,82
7,0	109	69	1	100.0700E	2,54
7,1	109	69	1	100.0710E	2,91
7,2	109	69	1	100.0720E	2,99
7,3	109	69	1	100.0730E	2,99
7,4	109	69	1	100.0740E	2,99
7,5	109	69	1	100.0750E	3,20
7,6	117	75	1	100.0760E	3,20
7,7	117	75	1	100.0770E	3,20
7,8	117	75	1	100.0780E	3,20
7,9	117	75	1	100.0790E	3,20
8,0	117	75	1	100.0800E	3,56
8,1	117	75	1	100.0810E	3,32
8,2	117	75	1	100.0820E	3,43
8,3	117	75	1	100.0830E	3,32
8,4	117	75	1	100.0840E	3,32
8,5	117	75	1	100.0850E	3,74
8,6	125	81	1	100.0860E	3,97
8,7	125	81	1	100.0870E	3,97
8,8	125	81	1	100.0880E	3,97
8,9	125	81	1	100.0890E	4,05
9,0	125	81	1	100.0900E	4,55
9,1	125	81	1	100.0910E	4,05
9,2	125	81	1	100.0920E	4,05
9,3	125	81	1	100.0930E	4,08
9,4	125	81	1	100.0940E	4,08
9,5	125	81	1	100.0950E	4,67
9,6	133	87	1	100.0960E	4,46
9,7	133	87	1	100.0970E	4,46
9,8	133	87	1	100.0980E	4,46
9,9	133	87	1	100.0990E	4,61
10,0	133	87	1	100.1000E	4,95
10,5	133	87	1	100.1050E	5,90
11,0	142	94	1	100.1100E	7,69
11,5	142	94	1	100.1150E	7,85
12,0	151	101	1	100.1200E	8,41
12,5	151	101	1	100.1250E	9,50
13,0	151	101	1	100.1300E	10,29

* Phase-out item, available until stock has depleted

900

HSS-R Jobber drill bit set, SILVER-LINE, in PVC cassette

ROTEC®



Execution: HSS-R Jobber drill bit, DIN 338, roll forged, point-angle 118°, type N, steam tempered.

Application: General-purpose drill, to drill steels with tensile strength up to 1.000 N/mm², cast steel, grey cast iron, malleable cast iron, nickel brass and graphite.
Material groups : 1.1 - 1.4 / 3.1 - 3.3

Description	Type	Execution	Content	pcs/PU	Item no.	€ / PU
6 pc jobber drill bit set	100	Roll forged	ø2, 3, 4, 5, 6 and 8mm, 1 pc each	1	900.1020	7,68

HSS-R Jobber drill bit set, SILVER-LINE, in ABS cassette

ROTEC®



Execution: HSS-R Jobber drill bit, DIN 338, roll forged, point-angle 118°, type N, steam tempered.

Application: General-purpose drill, to drill steels with tensile strength up to 1.000 N/mm², cast steel, grey cast iron, malleable cast iron, nickel brass and graphite.
Material groups : 1.1 - 1.4 / 3.1 - 3.3

Description	Type	Execution	Content	pcs/PU	Item no.	€ / PU
19 pc jobber drill bit set	100	Roll forged	ø1 - 10 / 0,5mm increm. / 1 pc each	1	900.0019K	20,56
25 pc jobber drill bit set	100	Roll forged	ø1 - 13 / 0,5mm increm. / 1 pc each	1	900.0025K	41,18
50 pc jobber drill bit set	100	Roll forged	ø1 - 5,9 / 0,1mm increm. / 1 pc each	1	900.0035	51,54
41 pc jobber drill bit set	100	Roll forged	ø6 - 10 / 0,1mm increm. / 1 pc each	1	900.0040	118,04

Drill bit set type '100', '225'and '235' in ABS cassette

ROTEC®



Execution: Set with twisted drill bits for metal (type '100'), wood (type '235') and stone (type '225') in a handy impact-resistant ABS cassette.

Description	Type	Content	pcs/PU	Item no.	€ / PU
18 pc combi jobber drill bit set	100	ø3, 4, 5, 6, 8 and 10mm / 1 pc each	1	900.1059	32,71
	225	ø3, 4, 5, 6, 8 and 10mm / 1 pc each			
	235	ø3, 4, 5, 6, 8 and 10mm / 1 pc each			

HSS-R Jobber drill bit set, SILVER-LINE, in plastic case


Execution: HSS-R Jobber drill bit, DIN 338, roll forged, point-angle 118°, type N, steam tempered.

Application: General-purpose drill, to drill steels with tensile strength up to 1.000 N/mm², cast steel, grey cast iron, malleable cast iron, nickel brass and graphite.
Material groups : 1.1 - 1.4 / 3.1 - 3.3

Description	Type	Execution	Content	pcs/PU	Item no.	€ / PU
170 pc jobber drill bit set	100	Roll forged	ø1 - 8 / 0,5mm increm. / 10 pcs each ø8,5 - 10 / 0,5mm increm. / 5 pcs each	1	900.0170K	119,03
202 pc jobber drill bit set	100	Roll forged	ø1 - 8 / 0,5mm increm. / 10 pcs each ø8,5 - 10 / 0,5mm increm. / 5 pcs each ø10,5 - 13 / 0,5mm increm. / 2 pcs each Tapping sizes ø3,3 and 4,2 / 10 pcs each	1	900.0202K	242,21

120

HSS-R Jobber drill bit, SILVER-LINE, shank $\phi 13$



DIN 338 **HSS R** **118°** **N** **ø13**

Execution: HSS-R Jobber drill bit, DIN 338, roll forged, point angle 118°, type N-spiral, steam tempered, shank reduced to $\phi 13$ mm.

Application: General-purpose drill bit, to drill steels with tensile strength up to 1.000 N/mm², cast steel, grey cast iron, malleable cast iron, nickel brass and graphite.
Material groups : 1.1 - 1.4 / 3.1 - 3.3

d ₁	l ₁	l ₂	d ₂	pcs/PU	Item no.	€ / PU
13,5	160	108	13	1	120.1350	14,37
14,0	160	108	13	1	120.1400	15,10
14,5	169	114	13	1	120.1450	17,21
15,0	169	114	13	1	120.1500	18,02
15,5	178	120	13	1	120.1550	19,90
16,0	178	120	13	1	120.1600	20,96
16,5	185	125	13	1	120.1650	26,36
17,0	185	125	13	1	120.1700	29,77
17,5	195	130	13	1	120.1750	32,47
18,0	195	130	13	1	120.1800	33,96
18,5	200	135	13	1	120.1850	36,75

d ₁	l ₁	l ₂	d ₂	pcs/PU	Item no.	€ / PU
19,0	200	135	13	1	120.1900	38,49
19,5	205	140	13	1	120.1950	41,54
20,0	205	140	13	1	120.2000	43,31
20,5	205	140	13	1	120.2050	45,23
21,0	215	145	13	1	120.2100	46,36
22,0	215	145	13	1	120.2200	48,31
22,5	215	145	13	1	120.2250	60,14
23,0	220	150	13	1	120.2300	61,72
24,0	245	160	13	1	120.2400	66,11
25,0	245	160	13	1	120.2500	73,84
26,0	245	160	13	1	120.2600	88,81

121

HSS-R Jobber drill bit, SILVER-LINE, shank $\phi 10$



DIN 338 **HSS R** **118°** **N** **ø10**

Execution: HSS-R Jobber drill bit, DIN 338, roll forged, point angle 118°, type N-spiral, steam tempered, shank reduced to $\phi 10$ mm.

Application: General-purpose drill bit, to drill steels with tensile strength up to 1.000 N/mm², cast steel, grey cast iron, malleable cast iron, nickel brass and graphite.
Material groups : 1.1 - 1.4 / 3.1 - 3.3

d ₁	l ₁	l ₂	d ₂	pcs/PU	Item no.	€ / PU
10,5	133	87	10	1	121.1050	6,11
11,0	142	94	10	1	121.1100	6,99
11,5	142	94	10	1	121.1150	7,60
12,0	151	101	10	1	121.1200	8,12
12,5	151	101	10	1	121.1250	8,75
13,0	151	101	10	1	121.1300	9,17
13,5	160	108	10	1	121.1350	17,10
14,0	160	108	10	1	121.1400	17,98
14,5	169	114	10	1	121.1450	20,09
15,0	169	114	10	1	121.1500	21,03

d ₁	l ₁	l ₂	d ₂	pcs/PU	Item no.	€ / PU
15,5	178	120	10	1	121.1550	23,23
16,0	178	120	10	1	121.1600	24,44
16,5	185	125	10	1	121.1650	29,12
17,0	185	125	10	1	121.1700	31,95
17,5	195	130	10	1	121.1750	33,97
18,0	195	130	10	1	121.1800	36,36
18,5	200	135	10	1	121.1850	38,01
19,0	200	135	10	1	121.1900	40,25
19,5	205	140	10	1	121.1950	40,40
20,0	205	140	10	1	121.2000	44,46



Execution: HSS-R Jobber drill bit, DIN 338, series 'Precise', point-angle 118°, steam tempered, bronze colour finish. Special roll forging technology offers a stable core with a reduced core diameter at the tip which results in reduced cutting forces, better centring of the drill and a longer tool life.

Application: General-purpose drill, to drill steels with tensile strength up to 1.000 N/mm², cast steel, grey cast iron, malleable cast iron, nickel brass and graphite.
Material groups : 1.1 - 1.4 / 3.1 - 3.3

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
1,0	34	12	10	101.0100	7,61
1,1	36	14	10	101.0110	8,63
1,2	38	16	10	101.0120	8,63
1,3	38	16	10	101.0130	8,63
1,4	40	18	10	101.0140	8,63
1,5	40	18	10	101.0150	8,63
1,6	43	20	10	101.0160	8,63
1,7	43	20	10	101.0170	8,63
1,8	46	22	10	101.0180	8,63
1,9	46	22	10	101.0190	8,63
2,0	49	24	10	101.0200	7,92
2,1	49	24	10	101.0210	8,63
2,2	53	27	10	101.0220	8,63
2,3	53	27	10	101.0230	8,63
2,4	57	30	10	101.0240	8,63
2,5	57	30	10	101.0250	8,63
2,6	57	30	10	101.0260	8,63
2,7	61	33	10	101.0270	10,35
2,8	61	33	10	101.0280	10,35
2,9	61	33	10	101.0290	10,35
3,0	61	33	10	101.0300	8,63
3,1	65	36	10	101.0310	10,35
3,2	65	36	10	101.0320	10,35
3,25 *	65	36	10	101.0325	10,35
3,3	65	36	10	101.0330	10,35
3,4	70	39	10	101.0340	10,35
3,5	70	39	10	101.0350	10,86
3,6	70	39	10	101.0360	10,86
3,7	70	39	10	101.0370	10,86
3,75 *	70	39	10	101.0375	11,37
3,8	75	43	10	101.0380	11,37
3,9	75	43	10	101.0390	12,38
4,0	75	43	10	101.0400	10,86
4,1	75	43	10	101.0410	12,38
4,2	75	43	10	101.0420	12,38
4,25 *	75	43	10	101.0425	12,38
4,3	80	47	10	101.0430	12,38
4,4	80	47	10	101.0440	13,60
4,5	80	47	10	101.0450	13,60
4,6	80	47	10	101.0460	15,33
4,7	80	47	10	101.0470	15,33
4,75 *	80	47	10	101.0475	17,36
4,8	86	52	10	101.0480	14,11
4,9	86	52	10	101.0490	15,73
5,0	86	52	10	101.0500	15,73
5,1	86	52	10	101.0510	15,73
5,2	86	52	10	101.0520	16,24
5,25 *	86	52	10	101.0525	19,89
5,3	86	52	10	101.0530	17,36
5,4	93	57	10	101.0540	17,36
5,5	93	57	10	101.0550	17,36
5,6	93	57	10	101.0560	18,98
5,7	93	57	10	101.0570	18,98
5,75 *	93	57	10	101.0575	25,48
5,8	93	57	10	101.0580	18,98
5,9	93	57	10	101.0590	18,98
6,0	93	57	10	101.0600	18,98
6,1	101	63	10	101.0610	23,24
6,2	101	63	10	101.0620	24,26
6,3	101	63	10	101.0630	24,26
6,4	101	63	10	101.0640	24,26
6,5	101	63	10	101.0650	21,72
6,6	101	63	10	101.0660	24,26

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
6,7	101	63	10	101.0670	24,26
6,75 *	101	63	10	101.0675	31,97
6,8	109	69	10	101.0680	25,48
6,9	109	69	10	101.0690	25,48
7,0	109	69	10	101.0700	25,48
7,1	109	69	10	101.0710	25,98
7,2	109	69	10	101.0720	27,61
7,3	109	69	10	101.0730	27,61
7,4	109	69	10	101.0740	27,61
7,5	109	69	10	101.0750	27,61
7,6	117	75	10	101.0760	30,35
7,7	117	75	10	101.0770	30,35
7,8	117	75	10	101.0780	30,35
7,9	117	75	10	101.0790	31,36
8,0	117	75	10	101.0800	31,36
8,1	117	75	10	101.0810	32,58
8,2	117	75	10	101.0820	32,58
8,3	117	75	10	101.0830	35,22
8,4	117	75	10	101.0840	35,22
8,5	117	75	10	101.0850	34,71
8,6	125	81	10	101.0860	39,48
8,7	125	81	10	101.0870	39,48
8,75 *	125	81	10	101.0875	60,60
8,8	125	81	10	101.0880	40,09
8,9	125	81	10	101.0890	41,11
9,0	125	81	10	101.0900	38,87
9,1	125	81	10	101.0910	41,11
9,2	125	81	10	101.0920	41,11
9,25 *	125	81	10	101.0925	48,21
9,3	125	81	10	101.0930	42,22
9,4	125	81	10	101.0940	42,22
9,5	125	81	10	101.0950	42,22
9,6	133	87	10	101.0960	46,59
9,7	133	87	10	101.0970	46,59
9,8	133	87	10	101.0980	51,56
9,9	133	87	10	101.0990	51,56
10,0	133	87	10	101.1000	48,21
10,1	133	87	5	101.1010	28,72
10,2	133	87	5	101.1020	28,72
10,3	133	87	5	101.1030	33,24
10,4	133	87	5	101.1040	33,24
10,5	133	87	5	101.1050	29,54
10,6	133	87	5	101.1060	35,47
10,7	142	94	5	101.1070	40,35
10,8	142	94	5	101.1080	40,35
10,9	142	94	5	101.1090	41,92
11,0	142	94	5	101.1100	33,24
11,1	142	94	5	101.1110	41,92
11,2	142	94	5	101.1120	41,92
11,25 *	142	94	5	101.1125	42,73
11,3	142	94	5	101.1130	42,73
11,4	142	94	5	101.1140	42,73
11,5	142	94	5	101.1150	37,15
11,6	142	94	5	101.1160	42,73
11,7	142	94	5	101.1170	44,91
11,8	142	94	5	101.1180	47,10
11,9	151	101	5	101.1190	49,58
12,0	151	101	5	101.1200	40,80
12,1	151	101	5	101.1210	52,53
12,2	151	101	5	101.1220	54,15
12,4	151	101	5	101.1240	56,38
12,5	151	101	5	101.1250	48,77
12,6	151	101	5	101.1260	58,26

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
12,7 *	151	101	5	101.1270	58,72
12,8	151	101	5	101.1280	61,15
12,9	151	101	5	101.1290	65,87
13,0	151	101	5	101.1300	50,29
13,2	151	101	1	101.1320	13,76
13,25*	151	101	1	101.1325	14,57
13,3	160	108	1	101.1330	16,40
13,4	160	108	1	101.1340	16,40
13,5	160	108	1	101.1350	14,23
13,6	160	108	1	101.1360	16,40
13,7	160	108	1	101.1370	16,68
13,8	160	108	1	101.1380	16,68
13,9	160	108	1	101.1390	17,65

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
14,0	160	108	1	101.1400	14,68
14,5	169	114	1	101.1450	20,10
15,0	169	114	1	101.1500	20,10
15,5	178	120	1	101.1550	21,66
16,0	178	120	1	101.1600	21,66
16,5*	184	125	1	101.1650	23,99
17,0*	184	125	1	101.1700	24,75
17,5*	191	130	1	101.1750	25,56
18,0*	191	130	1	101.1800	26,31
18,5*	198	135	1	101.1850	29,39
19,0*	198	135	1	101.1900	30,97
19,5*	205	140	1	101.1950	31,72
20,0*	205	140	1	101.2000	33,30

* Phase-out item, available until stock has depleted

101

HSS-R Jobber drill bit, 'Precise', GOLD-LINE, in EV-pack

DIN
338

HSS
R

118°

PRECISE

Execution: HSS-R Jobber drill bit, DIN 338, series 'Precise', point-angle 118°, steam tempered, bronze colour finish. Special roll forging technology offers a stable core with a reduced core diameter at the tip which results in reduced cutting forces, better centring of the drill and a longer tool life.

Application: General-purpose drill, to drill steels with tensile strength up to 1.000 N/mm², cast steel, grey cast iron, malleable cast iron, nickel brass and graphite.
Material groups : 1.1 - 1.4 / 3.1 - 3.3

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
1,0	34	12	2	101.0100E	2,03
1,5	40	18	2	101.0150E	2,15
2,0	49	24	2	101.0200E	2,03
2,5	57	30	2	101.0250E	2,15
3,0	61	33	2	101.0300E	2,15
3,3	65	36	2	101.0330E	2,50
3,5	70	39	2	101.0350E	2,58
4,0	75	43	2	101.0400E	2,58
4,2	75	43	1	101.0420E	1,70
4,5	80	47	1	101.0450E	1,79
5,0	86	52	1	101.0500E	2,01
5,5	93	57	1	101.0550E	2,18
6,0	93	57	1	101.0600E	2,40
6,5	101	63	1	101.0650E	2,58
6,8	109	69	1	101.0680E	3,02

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
7,0	109	69	1	101.0700E	3,02
7,5	109	69	1	101.0750E	3,33
8,0	117	75	1	101.0800E	3,59
8,5	117	75	1	101.0850E	3,92
9,0	125	81	1	101.0900E	4,39
9,5	125	81	1	101.0950E	4,92
10,0	133	87	1	101.1000E	5,54
10,2	133	87	1	101.1020E	6,22
10,5	133	87	1	101.1050E	6,65
11,0	142	94	1	101.1100E	7,23
11,5	142	94	1	101.1150E	7,96
12,0	151	101	1	101.1200E	8,75
12,5	151	101	1	101.1250E	10,25
13,0	151	101	1	101.1300E	10,57

900

HSS-R Jobber drill bit set, 'Precise', GOLD-LINE, in ABS cassette

Execution: HSS-R Jobber drill bit, DIN 338, series 'Precise', point-angle 118°, steam tempered, bronze colour finish. Special roll forging technology offers a stable core with a reduced core diameter at the tip which results in reduced cutting forces, better centring of the drill and a longer tool life.

Application: General-purpose drill, to drill steels with tensile strength up to 1.000 N/mm², cast steel, grey cast iron, malleable cast iron, nickel brass and graphite.
Material groups : 1.1 - 1.4 / 3.1 - 3.3

Description	Type	Execution	Content	pcs/PU	Item no.	€ / PU
19 pc jobber drill bit set	101	Precise	ø1 - 10 / 0,5mm increm. / 1 pc each	1	900.0024	50,14
25 pc jobber drill bit set	101	Precise	ø1 - 13 / 0,5mm increm. / 1 pc each	1	900.0030	94,50

HSS-R Jobber drill bit set, 'Precise', GOLD-LINE, in plastic case

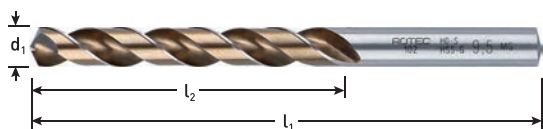

Execution: HSS-R Jobber drill bit, DIN 338, series 'Precise', point-angle 118°, steam tempered, bronze colour finish. Special roll forging technology offers a stable core with a reduced core diameter at the tip which results in reduced cutting forces, better centring of the drill and a longer tool life.

Application: General-purpose drill, to drill steels with tensile strength up to 1.000 N/mm², cast steel, grey cast iron, malleable cast iron, nickel brass and graphite.
Material groups : 1.1 - 1.4 / 3.1 - 3.3

Description	Type	Execution	Content	pcs/PU	Item no.	€ / PU
170 pc jobber drill bit set	101	Precise	ø1 - 8 / 0,5mm increm. / 10 pcs each ø8,5 - 10 / 0,5mm increm. / 5 pcs each	1	900.0171K	346,47
202 pc jobber drill bit set	101	Precise	ø1 - 8 / 0,5mm increm. / 10 pcs each ø8,5 - 10 / 0,5mm increm. / 5 pcs each ø10,5 - 13 / 0,5mm increm. / 2 pcs each Pre-tap sizes ø3,3 and 4,2 / 10 pcs each	1	900.0212K	530,17

102

HSS-G Jobber drill bit, type HD-S, GOLD-LINE



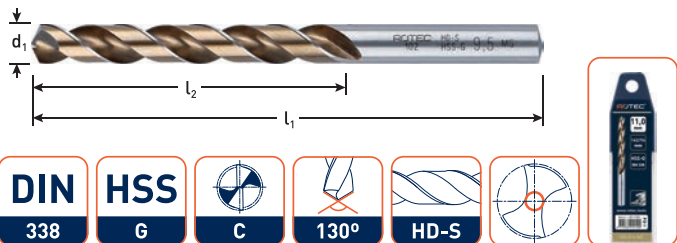
Execution: HSS-G Jobber drill bit, DIN 338, ground flute, split-point according to DIN 1412-C, point angle 130°, type HD-S spiral with reinforced core for high precision and long tool life, bright finish.

Application: General-purpose use, but due to the strengthened core also suited for use on CNC-machines, on most common materials such as steels up to 1.000 N/mm², cast steel, grey cast iron, malleable cast iron, nickel silver, graphite, etc.
Material groups : 1.1 - 1.4 / 3.1 - 3.3 / 4.2 - 4.12

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
0,3	19	3	10	102.0030	40,19
0,4	20	5	10	102.0040	32,68
0,5	22	6	10	102.0050	26,49
0,6	24	7	10	102.0060	26,09
0,7	28	9	10	102.0070	23,85
0,8	30	10	10	102.0080	22,03
0,9	32	11	10	102.0090	22,03
1,0	34	12	10	102.0100	22,03
1,1	36	14	10	102.0110	20,91
1,2	38	16	10	102.0120	22,03
1,3	38	16	10	102.0130	20,91
1,4	40	18	10	102.0140	20,40
1,5	40	18	10	102.0150	16,85
1,6	43	20	10	102.0160	15,83
1,7	43	20	10	102.0170	16,85
1,8	46	22	10	102.0180	14,41
1,9	46	22	10	102.0190	14,82
2,0	49	24	10	102.0200	13,20
2,1	49	24	10	102.0210	15,33
2,2	53	27	10	102.0220	15,33
2,3	53	27	10	102.0230	15,33
2,4	57	30	10	102.0240	16,34
2,5	57	30	10	102.0250	16,34
2,6	57	30	10	102.0260	16,34
2,7	61	33	10	102.0270	16,34
2,8	61	33	10	102.0280	16,85
2,9	61	33	10	102.0290	16,85
3,0	61	33	10	102.0300	20,91
3,1	65	36	10	102.0310	23,85
3,2	65	36	10	102.0320	23,85
3,25	65	36	10	102.0325	18,88
3,3	65	36	10	102.0330	23,85
3,4	70	39	10	102.0340	23,85
3,5	70	39	10	102.0350	22,94
3,6	70	39	10	102.0360	26,09
3,7	70	39	10	102.0370	33,91
3,8	75	43	10	102.0380	27,61
3,9	75	43	10	102.0390	28,01
4,0	75	43	10	102.0400	23,45
4,1	75	43	10	102.0410	28,52
4,2	75	43	10	102.0420	27,10
4,3	80	47	10	102.0430	38,81
4,4	80	47	10	102.0440	30,65
4,5	80	47	10	102.0450	27,61
4,6	80	47	10	102.0460	30,65
4,7	80	47	10	102.0470	38,81
4,8	86	52	10	102.0480	30,65
4,9	86	52	10	102.0490	32,68
5,0	86	52	10	102.0500	27,61
5,1	86	52	10	102.0510	32,68
5,2	86	52	10	102.0520	32,68
5,3	86	52	10	102.0530	32,68
5,4	93	57	10	102.0540	47,29
5,5	93	57	10	102.0550	35,83
5,6	93	57	10	102.0560	46,00
5,7	93	57	10	102.0570	37,86
5,8	93	57	10	102.0580	38,37

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
5,9	93	57	10	102.0590	48,01
6,0	93	57	10	102.0600	35,83
6,1	101	63	10	102.0610	41,41
6,2	101	63	10	102.0620	51,36
6,3	101	63	10	102.0630	42,02
6,4	101	63	10	102.0640	54,86
6,5	101	63	10	102.0650	42,02
6,6	101	63	10	102.0660	44,96
6,7	101	63	10	102.0670	59,80
6,8	109	69	10	102.0680	55,62
6,9	109	69	10	102.0690	55,62
7,0	109	69	10	102.0700	48,01
7,1	109	69	10	102.0710	56,03
7,2	109	69	10	102.0720	57,75
7,3	109	69	10	102.0730	72,98
7,4	109	69	10	102.0740	58,77
7,5	109	69	10	102.0750	55,62
7,6	117	75	10	102.0760	79,69
7,7	117	75	10	102.0770	79,69
7,8	117	75	10	102.0780	79,69
7,9	117	75	10	102.0790	80,34
8,0	117	75	10	102.0800	55,62
8,1	117	75	5	102.0810	41,28
8,2	117	75	5	102.0820	32,94
8,3	117	75	5	102.0830	35,22
8,4	117	75	5	102.0840	45,11
8,5	117	75	5	102.0850	34,26
8,6	125	81	5	102.0860	38,77
8,7	125	81	5	102.0870	38,77
8,8	125	81	5	102.0880	39,84
8,9	125	81	5	102.0890	52,65
9,0	125	81	5	102.0900	37,25
9,1	125	81	5	102.0910	52,65
9,2	125	81	5	102.0920	52,65
9,3	125	81	5	102.0930	52,65
9,4	125	81	5	102.0940	52,65
9,5	125	81	5	102.0950	41,11
9,6	133	87	5	102.0960	58,57
9,7	133	87	5	102.0970	58,57
9,8	133	87	5	102.0980	50,04
9,9	133	87	5	102.0990	50,04
10,0	133	87	5	102.1000	43,44
10,1	133	87	5	102.1010	50,55
10,2	133	87	5	102.1020	55,11
10,3	133	87	5	102.1030	63,03
10,4	133	87	5	102.1040	63,03
10,5	133	87	5	102.1050	57,70
10,8	142	94	5	102.1080	75,06
11,0	142	94	5	102.1100	65,37
11,5	142	94	5	102.1150	70,24
12,0	151	101	5	102.1200	79,17
12,1	151	101	5	102.1210	98,35
12,2	151	101	5	102.1220	101,35
12,3	151	101	5	102.1230	98,35
12,4	151	101	5	102.1240	103,17
12,5	151	101	5	102.1250	102,16
13,0	151	101	5	102.1300	96,27

HSS-G Jobber drill bit, type HD-S, GOLD-LINE, in EV-pack



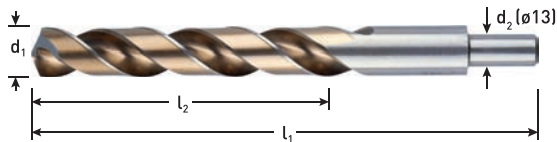
Execution: HSS-G Jobber drill bit, DIN 338, ground flute, split-point according to DIN 1412-C, point angle 130°, type HD-S spiral with reinforced core for high precision and long tool life, bright finish.

Application: General-purpose use, but due to the strengthened core also suited for use on CNC-machines, on most common materials such as steels up to 1.000 N/mm², cast steel, grey cast iron, malleable cast iron, nickel silver, graphite, etc.
Material groups : 1.1 - 1.4 / 3.1 - 3.3 / 4.2 - 4.12

d ₁	l ₁	l ₂	pcs/PU	Item no.	€/ PU
1,0	34	12	1	102.0100E	2,52
1,1	36	14	1	102.0110E	2,45
1,2	38	16	1	102.0120E	2,52
1,3	38	16	1	102.0130E	2,45
1,4	40	18	1	102.0140E	2,33
1,5	40	18	1	102.0150E	2,13
1,6	43	20	1	102.0160E	2,07
1,7	43	20	1	102.0170E	2,13
1,8	46	22	1	102.0180E	1,93
1,9	46	22	1	102.0190E	1,98
2,0	49	24	1	102.0200E	1,80
2,1	49	24	1	102.0210E	2,01
2,2	53	27	1	102.0220E	2,01
2,3	53	27	1	102.0230E	2,01
2,4	57	30	1	102.0240E	2,10
2,5	57	30	1	102.0250E	2,10
2,6	57	30	1	102.0260E	2,10
2,7	61	33	1	102.0270E	2,10
2,8	61	33	1	102.0280E	2,17
2,9	61	33	1	102.0290E	2,17
3,0	61	33	1	102.0300E	2,42
3,1	65	36	1	102.0310E	2,76
3,2	65	36	1	102.0320E	2,76
3,25	65	36	1	102.0325E	2,26
3,3	65	36	1	102.0330E	2,76
3,4	70	39	1	102.0340E	2,76
3,5	70	39	1	102.0350E	2,65
3,6	70	39	1	102.0360E	2,95
3,7	70	39	1	102.0370E	3,07
3,8	75	43	1	102.0380E	3,12
3,9	75	43	1	102.0390E	3,16
4,0	75	43	1	102.0400E	2,72
4,1	75	43	1	102.0410E	3,21
4,2	75	43	1	102.0420E	3,07
4,3	80	47	1	102.0430E	3,47
4,4	80	47	1	102.0440E	3,47
4,5	80	47	1	102.0450E	3,15
4,6	80	47	1	102.0460E	3,47
4,7	80	47	1	102.0470E	3,47
4,8	86	52	1	102.0480E	3,47
4,9	86	52	1	102.0490E	3,69
5,0	86	52	1	102.0500E	3,15
5,1	86	52	1	102.0510E	3,69
5,2	86	52	1	102.0520E	3,69
5,3	86	52	1	102.0530E	3,69
5,4	93	57	1	102.0540E	5,04
5,5	93	57	1	102.0550E	4,00
5,6	93	57	1	102.0560E	5,16
5,7	93	57	1	102.0570E	4,23
5,8	93	57	1	102.0580E	4,27
5,9	93	57	1	102.0590E	5,26
6,0	93	57	1	102.0600E	4,00
6,1	101	63	1	102.0610E	4,59

d ₁	l ₁	l ₂	pcs/PU	Item no.	€/ PU
6,2	101	63	1	102.0620E	5,65
6,3	101	63	1	102.0630E	4,64
6,4	101	63	1	102.0640E	4,75
6,5	101	63	1	102.0650E	4,64
6,6	101	63	1	102.0660E	4,97
6,7	101	63	1	102.0670E	6,35
6,8	109	69	1	102.0680E	5,93
6,9	109	69	1	102.0690E	5,93
7,0	109	69	1	102.0700E	5,35
7,1	109	69	1	102.0710E	5,98
7,2	109	69	1	102.0720E	6,15
7,3	109	69	1	102.0730E	7,88
7,4	109	69	1	102.0740E	6,23
7,5	109	69	1	102.0750E	5,93
7,6	117	75	1	102.0760E	8,48
7,7	117	75	1	102.0770E	8,48
7,8	117	75	1	102.0780E	8,48
7,9	117	75	1	102.0790E	8,55
8,0	117	75	1	102.0800E	5,93
8,1	117	75	1	102.0810E	8,75
8,3	117	75	1	102.0830E	7,47
8,4	117	75	1	102.0840E	9,57
8,5	117	75	1	102.0850E	7,27
8,6	125	81	1	102.0860E	8,26
8,7	125	81	1	102.0870E	8,26
8,8	125	81	1	102.0880E	8,49
8,9	125	81	1	102.0890E	11,21
9,0	125	81	1	102.0900E	7,94
9,1	125	81	1	102.0910E	8,75
9,2	125	81	1	102.0920E	11,21
9,3	125	81	1	102.0930E	11,21
9,4	125	81	1	102.0940E	11,21
9,5	125	81	1	102.0950E	8,75
9,6	133	87	1	102.0960E	12,13
9,7	133	87	1	102.0970E	12,13
9,8	133	87	1	102.0980E	10,39
9,9	133	87	1	102.0990E	10,39
10,0	133	87	1	102.1000E	9,29
10,1	133	87	1	102.1010E	10,44
10,2	133	87	1	102.1020E	11,48
10,3	133	87	1	102.1030E	12,95
10,4	133	87	1	102.1040E	12,95
10,5	133	87	1	102.1050E	11,97
10,8	142	94	1	102.1080E	15,96
11,0	142	94	1	102.1100E	13,48
11,5	142	94	1	102.1150E	14,46
12,0	151	101	1	102.1200E	16,23
12,1	151	101	1	102.1210E	19,74
12,2	151	101	1	102.1220E	20,26
12,3	151	101	1	102.1230E	18,53
12,4	151	101	1	102.1240E	20,96
12,5	151	101	1	102.1250E	17,99
13,0	151	101	1	102.1300E	19,65

102 HSS-G Jobber drill bit, type HD-S, GOLD-LINE, shank $\varnothing 13$



Execution: HSS-G Jobber drill bit, DIN 338, ground flute, split-point according to DIN 1412-C, point angle 130°, type HD-S spiral with reinforced core for high precision and long tool life, bright finish. All drill bit >ø13mm are standard with a reduced shank ø13mm.

Application: General-purpose use, but due to the strengthened core also suited for use on CNC-machines, on most common materials such as steels up to 1.000 N/mm², cast steel, grey cast iron, malleable cast iron, nickel silver, graphite, etc.
Material groups : 1.1 - 1.4 / 3.1 - 3.3 / 4.2 - 4.12

d ₁	l ₁	l ₂	d ₂	pcs/PU	Item no.	€ / PU
13,5	160	108	13	1	102.1350	22,08
14,0	160	108	13	1	102.1400	24,15
14,5	169	114	13	1	102.1450	25,59
15,0	169	114	13	1	102.1500	27,89
15,5	178	120	13	1	102.1550	34,27
16,0	178	120	13	1	102.1600	33,15
16,5	184	125	13	1	102.1650	41,52

d ₁	l ₁	l ₂	d ₂	pcs/PU	Item no.	€ / PU
17,0	184	125	13	1	102.1700	41,47
17,5	191	130	13	1	102.1750	47,66
18,0	191	130	13	1	102.1800	47,49
18,5	198	135	13	1	102.1850	53,84
19,0	198	135	13	1	102.1900	55,21
19,5	205	140	13	1	102.1950	62,50
20,0	205	140	13	1	102.2000	63,34

900 HSS-G Jobber drill bit set, type HD-S, GOLD-LINE, in ABS cassette



Execution: HSS-G Jobber drill bit, DIN 338, ground flute, split-point according to DIN 1412-C, point angle 130°, type HD-S spiral with reinforced core for high precision and long tool life, bright finish.

Application: General-purpose use, but due to the strengthened core also suited for use on CNC-machines, on most common materials such as steels up to 1.000 N/mm², cast steel, grey cast iron, malleable cast iron, nickel silver, graphite, etc.
Material groups : 1.1 - 1.4 / 3.1 - 3.3 / 4.2 - 4.12

Description	Type	Execution	Content	pcs/PU	Item no.	€ / PU
19 pc jobber drill bit set	102	Ground	ø1 - 10 / 0,5mm increm. / 1 pc each	1	900.0022	91,01
25 pc jobber drill bit set	102	Ground	ø1 - 13 / 0,5mm increm. / 1 pc each	1	900.0028	179,63
50 pc jobber drill bit set	102	Ground	ø1 - 5,9 / 0,1mm increm. / 1 pc each	1	900.0036	156,45
41 pc jobber drill bit set	102	Ground	ø6 - 10 / 0,1mm increm. / 1 pc each	1	900.0041	344,72

HSS-G Jobber drill bit set, type HD-S, GOLD-LINE, in plastic case



Execution: HSS-G Jobber drill bit, DIN 338, ground flute, split-point according to DIN 1412-C, point angle 130°, type HD-S spiral with reinforced core for high precision and long tool life, bright finish.

Application: General-purpose use, but due to the strengthened core also suited for use on CNC-machines, on most common materials such as steel and (un)alloyed steel, stainless steel, cast-iron and non-ferrous metals with tensile strength up to 1.000 N/mm².
Material groups : 1.1 - 1.4 / 2.1 - 2.2 / 3.1 / 4.1 - 4.11 / 5.3 - 5.4

Description	Type	Execution	Content	pcs/PU	Item no.	€ / PU
170 pc jobber drill bit set	102	Ground	ø1 - 8 / 0,5mm increm. / 10 pcs each ø8,5 - 10 / 0,5mm increm. / 5 pcs each	1	900.0174K	664,91
202 pc jobber drill bit set	102	Ground	ø1 - 8 / 0,5mm increm. / 10 pcs each ø8,5 - 10 / 0,5mm increm. / 5 pcs each ø10,5 - 13 / 0,5mm increm. / 2 pcs each Pre-tap sizes ø3,3 and 4,2 / 10 pcs each	1	900.0222WK	912,43



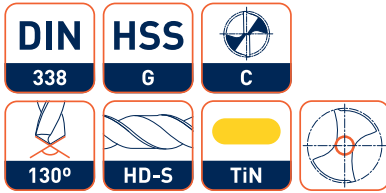
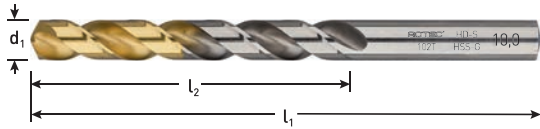
Execution: HSS-G Jobber drill bit, DIN 338, ground flute, split-point according to DIN 1412-C, point angle 130°, type HD-S spiral with reinforced core for high precision and long tool life, bright finish. More wear-resistant, increased thermal stability and longer tool life due to newest TiN-TOP-coating.

Application: General-purpose use, but due to the strengthened core also suited for use on CNC-machines, on most common materials such as steel and (un)alloyed steel, stainless steel, cast-iron and non-ferrous metals with tensile strength up to 1.000 N/mm².
Material groups : 1.1 - 1.4 / 2.1 - 2.2 / 3.1 / 4.1 - 4.11 / 5.3 - 5.4

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
1,0	34	12	10	102.0100T	43,34
1,1	36	14	10	102.0110T	41,41
1,2	38	16	10	102.0120T	43,34
1,3	38	16	10	102.0130T	40,90
1,4	40	18	10	102.0140T	40,90
1,5	40	18	10	102.0150T	37,86
1,6	43	20	10	102.0160T	36,24
1,7	43	20	10	102.0170T	36,24
1,8	46	22	10	102.0180T	33,70
1,9	46	22	10	102.0190T	33,70
2,0	49	24	10	102.0200T	19,49
2,1	49	24	10	102.0210T	22,03
2,2	53	27	10	102.0220T	22,03
2,3	53	27	10	102.0230T	22,03
2,4	57	30	10	102.0240T	23,45
2,5	57	30	10	102.0250T	23,45
2,6	57	30	10	102.0260T	23,45
2,7	61	33	10	102.0270T	23,45
2,8	61	33	10	102.0280T	23,85
2,9	61	33	10	102.0290T	23,85
3,0	61	33	10	102.0300T	27,10
3,1	65	36	10	102.0310T	30,65
3,2	65	36	10	102.0320T	30,65
3,3	65	36	10	102.0330T	30,65
3,4	70	39	10	102.0340T	30,65
3,5	70	39	10	102.0350T	29,13
3,6	70	39	10	102.0360T	33,29
3,7	70	39	10	102.0370T	34,21
3,8	75	43	10	102.0380T	35,22
3,9	75	43	10	102.0390T	35,83
4,0	75	43	10	102.0400T	29,54
4,1	75	43	10	102.0410T	37,35
4,2	75	43	10	102.0420T	34,21
4,3	80	47	10	102.0430T	39,28
4,4	80	47	10	102.0440T	39,28
4,5	80	47	10	102.0450T	35,22
4,6	80	47	10	102.0460T	39,28
4,7	80	47	10	102.0470T	39,28
4,8	86	52	10	102.0480T	39,28
4,9	86	52	10	102.0490T	42,02
5,0	86	52	10	102.0500T	35,22
5,1	86	52	10	102.0510T	42,02
5,2	86	52	10	102.0520T	42,02
5,3	86	52	10	102.0530T	42,02
5,4	93	57	10	102.0540T	47,10
5,5	93	57	10	102.0550T	45,98
5,6	93	57	10	102.0560T	47,10
5,7	93	57	10	102.0570T	48,01
5,8	93	57	10	102.0580T	48,62

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
5,9	93	57	10	102.0590T	48,62
6,0	93	57	10	102.0600T	45,98
6,1	101	63	10	102.0610T	54,10
6,2	101	63	10	102.0620T	54,10
6,3	101	63	10	102.0630T	55,62
6,4	101	63	10	102.0640T	57,25
6,5	101	63	10	102.0650T	55,62
6,6	101	63	10	102.0660T	60,29
6,7	101	63	10	102.0670T	60,90
6,8	109	69	10	102.0680T	70,44
6,9	109	69	10	102.0690T	70,44
7,0	109	69	10	102.0700T	63,34
7,1	109	69	10	102.0710T	70,95
7,2	109	69	10	102.0720T	72,98
7,3	109	69	10	102.0730T	72,98
7,4	109	69	10	102.0740T	75,11
7,5	109	69	10	102.0750T	70,44
7,6	117	75	10	102.0760T	79,68
7,7	117	75	10	102.0770T	79,68
7,8	117	75	10	102.0780T	79,68
7,9	117	75	10	102.0790T	80,29
8,0	117	75	10	102.0800T	70,44
8,1	117	75	5	102.0810T	41,11
8,2	117	75	5	102.0820T	41,87
8,3	117	75	5	102.0830T	45,98
8,4	117	75	5	102.0840T	45,98
8,5	117	75	5	102.0850T	44,41
8,6	125	81	5	102.0860T	51,05
8,7	125	81	5	102.0870T	51,05
8,8	125	81	5	102.0880T	51,61
8,9	125	81	5	102.0890T	53,64
9,0	125	81	5	102.0900T	48,52
9,1	125	81	5	102.0910T	53,64
9,2	125	81	5	102.0920T	53,64
9,3	125	81	5	102.0930T	53,64
9,4	125	81	5	102.0940T	53,64
9,5	125	81	5	102.0950T	53,64
9,6	133	87	5	102.0960T	58,21
9,7	133	87	5	102.0970T	58,21
9,8	133	87	5	102.0980T	64,86
9,9	133	87	5	102.0990T	64,86
10,0	133	87	5	102.1000T	57,50
10,2	133	87	5	102.1020T	71,25
10,5	133	87	5	102.1050T	74,55
11,0	142	94	5	102.1100T	83,99
11,5	142	94	5	102.1150T	90,44
12,0	151	101	5	102.1200T	102,67
12,5	151	101	5	102.1250T	113,68
13,0	151	101	5	102.1300T	124,59

HSS-G Jobber drill bit, type HD-S, TiN-TOP, GOLD-LINE, in EV-pack



Execution: HSS-G Jobber drill bit, DIN 338, ground flute, split-point according to DIN 1412-C, point angle 130°, type HD-S spiral with reinforced core for high precision and long tool life, bright finish. More wear-resistant, increased thermal stability and longer tool life due to newest TiN-TOP-coating.

Application: General-purpose use, but due to the strengthened core also suited for use on CNC-machines, on most common materials such as steel and (un)alloyed steel, stainless steel, cast-iron and non-ferrous metals with tensile strength up to 1.000 N/mm².
Material groups : 1.1 - 1.4 / 2.1 - 2.2 / 3.1 / 4.1 - 4.11 / 5.3 - 5.4

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
1,0	34	12	1	102.0100TE	4,68
1,1	36	14	1	102.0110TE	4,48
1,2	38	16	1	102.0120TE	4,68
1,3	38	16	1	102.0130TE	4,43
1,4	40	18	1	102.0140TE	4,43
1,5	40	18	1	102.0150TE	4,13
1,6	43	20	1	102.0160TE	3,95
1,7	43	20	1	102.0170TE	3,95
1,8	46	22	1	102.0180TE	3,70
1,9	46	22	1	102.0190TE	3,70
2,0	49	24	1	102.0200TE	2,30
2,1	49	24	1	102.0210TE	2,56
2,2	53	27	1	102.0220TE	2,56
2,3	53	27	1	102.0230TE	2,56
2,4	57	30	1	102.0240TE	2,72
2,5	57	30	1	102.0250TE	2,72
2,6	57	30	1	102.0260TE	2,72
2,7	61	33	1	102.0270TE	2,72
2,8	61	33	1	102.0280TE	2,76
2,9	61	33	1	102.0290TE	2,76
3,0	61	33	1	102.0300TE	3,07
3,1	65	36	1	102.0310TE	3,44
3,2	65	36	1	102.0320TE	3,44
3,3	65	36	1	102.0330TE	3,44
3,4	70	39	1	102.0340TE	3,44
3,5	70	39	1	102.0350TE	3,29
3,6	70	39	1	102.0360TE	3,70
3,7	70	39	1	102.0370TE	3,81
3,8	75	43	1	102.0380TE	3,92
3,9	75	43	1	102.0390TE	3,97
4,0	75	43	1	102.0400TE	3,35
4,1	75	43	1	102.0410TE	4,16
4,2	75	43	1	102.0420TE	3,81
4,3	80	47	1	102.0430TE	4,37
4,4	80	47	1	102.0440TE	4,37
4,5	80	47	1	102.0450TE	3,96
4,6	80	47	1	102.0460TE	4,37
4,7	80	47	1	102.0470TE	4,37
4,8	86	52	1	102.0480TE	4,37
4,9	86	52	1	102.0490TE	4,64
5,0	86	52	1	102.0500TE	3,96
5,1	86	52	1	102.0510TE	4,64
5,2	86	52	1	102.0520TE	4,64
5,3	86	52	1	102.0530TE	4,64
5,4	93	57	1	102.0540TE	5,18
5,5	93	57	1	102.0550TE	5,08
5,6	93	57	1	102.0560TE	5,18
5,7	93	57	1	102.0570TE	5,30
5,8	93	57	1	102.0580TE	5,34

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
5,9	93	57	1	102.0590TE	5,34
6,0	93	57	1	102.0600TE	5,08
6,1	101	63	1	102.0610TE	5,78
6,2	101	63	1	102.0620TE	5,78
6,3	101	63	1	102.0630TE	5,88
6,4	101	63	1	102.0640TE	6,03
6,5	101	63	1	102.0650TE	5,88
6,6	101	63	1	102.0660TE	6,33
6,7	101	63	1	102.0670TE	6,39
6,8	109	69	1	102.0680TE	7,47
6,9	109	69	1	102.0690TE	7,47
7,0	109	69	1	102.0700TE	6,73
7,1	109	69	1	102.0710TE	7,52
7,2	109	69	1	102.0720TE	7,73
7,3	109	69	1	102.0730TE	7,73
7,4	109	69	1	102.0740TE	7,94
7,5	109	69	1	102.0750TE	7,47
7,6	117	75	1	102.0760TE	8,43
7,7	117	75	1	102.0770TE	8,43
7,8	117	75	1	102.0780TE	8,43
7,9	117	75	1	102.0790TE	8,50
8,0	117	75	1	102.0800TE	7,47
8,1	117	75	1	102.0810TE	8,69
8,2	117	75	1	102.0820TE	8,85
8,3	117	75	1	102.0830TE	9,45
8,4	117	75	1	102.0840TE	9,45
8,5	117	75	1	102.0850TE	9,28
8,6	125	81	1	102.0860TE	10,59
8,7	125	81	1	102.0870TE	10,59
8,8	125	81	1	102.0880TE	10,72
8,9	125	81	1	102.0890TE	11,12
9,0	125	81	1	102.0900TE	10,08
9,1	125	81	1	102.0910TE	11,12
9,2	125	81	1	102.0920TE	11,12
9,3	125	81	1	102.0930TE	11,12
9,4	125	81	1	102.0940TE	11,12
9,5	125	81	1	102.0950TE	11,12
9,6	133	87	1	102.0960TE	12,10
9,7	133	87	1	102.0970TE	12,10
9,8	133	87	1	102.0980TE	13,25
9,9	133	87	1	102.0990TE	13,25
10,0	133	87	1	102.1000TE	11,93
10,2	133	87	1	102.1020TE	14,62
10,5	133	87	1	102.1050TE	15,29
11,0	142	94	1	102.1100TE	17,16
11,5	142	94	1	102.1150TE	18,47
12,0	151	101	1	102.1200TE	20,82
12,5	151	101	1	102.1250TE	23,01
13,0	151	101	1	102.1300TE	25,16

900

HSS-G Jobber drill bit set, type HD-S, TiN-TOP, GOLD-LINE, in ABS cassette

ROTEC®



Execution: HSS-G Jobber drill bit, DIN 338, ground flute, split-point according to DIN 1412-C, point angle 130°, type HD-S spiral with reinforced core for high precision and long tool life, bright finish. More wear-resistant, increased thermal stability and longer tool life due to newest TiN-TOP-coating.

Application: General-purpose use, but due to the strengthened core also suited for use on CNC-machines, on most common materials such as steel and (un)alloyed steel, stainless steel, cast-iron and non-ferrous metals with tensile strength up to 1.000 N/mm².
Material groups : 1.1 - 1.4 / 2.1 - 2.2 / 3.1 / 4.1 - 4.11 / 5.3 - 5.4

Description	Type	Execution	Content	pcs/PU	Item no.	€ / PU
19 pc jobber drill bit set	102T	Ground	ø1 - 10 / 0,5mm increm. / 1 pc each	1	900.0022T	106,22
25 pc jobber drill bit set	102T	Ground	ø1 - 13 / 0,5mm increm. / 1 pc each	1	900.0028T	220,78

HSS-G Jobber drill bit set, type HD-S, TiN-TOP, GOLD-LINE, in plastic case

ROTEC®



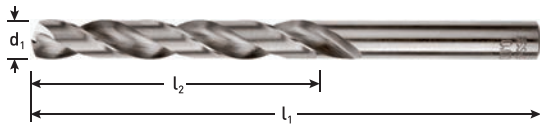
Execution: HSS-G Jobber drill bit, DIN 338, ground flute, split-point according to DIN 1412-C, point angle 130°, type HD-S spiral with reinforced core for high precision and long tool life, bright finish. More wear-resistant, increased thermal stability and longer tool life due to newest TiN-TOP-coating.

Application: General-purpose use, but due to the strengthened core also suited for use on CNC-machines, on most common materials such as steel and (un)alloyed steel, stainless steel, cast-iron and non-ferrous metals with tensile strength up to 1.000 N/mm².
Material groups : 1.1 - 1.4 / 2.1 - 2.2 / 3.1 / 4.1 - 4.11 / 5.3 - 5.4

Description	Type	Execution	Content	pcs/PU	Item no.	€ / PU
170 pc jobber drill bit set	102T	Ground	ø1 - 8 / 0,5mm increm. / 10 pcs each ø8,5 - 10 / 0,5mm increm. / 5 pcs each	1	900.0174TK	803,71

105

HSS-G Jobber drill bit, SILVER-LINE



Execution: HSS-G Jobber drill bit, DIN 338, ground flute, split-point according to DIN 1412-C, point angle 135°, type N-spiral. For high precision and long tool life.

Application: General-purpose use, for drilling of most common materials such as steel and alloyed steel with tensile strength up to 1.000 N/mm², cast-iron, etc.
Material groups : 1.1 - 1.4 / 2.1 - 2.2 / 3.1 / 4.1 - 4.11 / 5.3 - 5.4

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
1,0	34	12	10	105.0100	4,80
1,1	36	14	10	105.0110	5,40
1,2	38	16	10	105.0120	5,40
1,3	38	16	10	105.0130	5,40
1,4	40	18	10	105.0140	5,40
1,5	40	18	10	105.0150	5,40
1,6	43	20	10	105.0160	5,90
1,7	43	20	10	105.0170	5,90
1,8	46	22	10	105.0180	5,90
1,9	46	22	10	105.0190	5,90
2,0	49	24	10	105.0200	5,90
2,1	49	24	10	105.0210	6,50
2,2	53	27	10	105.0220	6,50
2,3	53	27	10	105.0230	6,50
2,4	57	30	10	105.0240	6,50
2,5	57	30	10	105.0250	6,50
2,6	57	30	10	105.0260	10,80
2,7	61	33	10	105.0270	10,80
2,8	61	33	10	105.0280	10,80
2,9	61	33	10	105.0290	10,80
3,0	61	33	10	105.0300	10,80
3,1	61	36	10	105.0310	12,60
3,2	65	36	10	105.0320	12,60
3,3	65	36	10	105.0330	12,60
3,4	70	39	10	105.0340	12,60
3,5	70	39	10	105.0350	12,60
3,6	70	39	10	105.0360	14,50
3,7	70	39	10	105.0370	14,50
3,8	75	43	10	105.0380	14,50
3,9	75	43	10	105.0390	14,80
4,0	75	43	10	105.0400	14,50
4,1	75	43	10	105.0410	15,80
4,2	75	43	10	105.0420	16,70
4,3	80	47	10	105.0430	16,70
4,4	80	47	10	105.0440	16,70
4,5	80	47	10	105.0450	17,20
4,6	80	47	10	105.0460	19,60
4,7	80	47	10	105.0470	19,60
4,8	86	52	10	105.0480	19,30
4,9	86	52	10	105.0490	18,70
5,0	86	52	10	105.0500	19,30
5,1	86	52	10	105.0510	22,60
5,2	86	52	10	105.0520	22,60
5,3	86	52	10	105.0530	23,70
5,4	93	57	10	105.0540	23,70
5,5	86	52	10	105.0550	23,40
5,6	93	57	10	105.0560	29,10
5,7	93	57	10	105.0570	27,70
5,8	93	57	10	105.0580	27,70

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
5,9	93	57	10	105.0590	29,10
6,0	93	57	10	105.0600	28,40
6,1	101	63	10	105.0610	31,20
6,2	101	63	10	105.0620	31,20
6,3	101	63	10	105.0630	31,20
6,4	101	63	10	105.0640	32,80
6,5	101	63	10	105.0650	32,40
6,6	101	63	10	105.0660	36,40
6,7	101	63	10	105.0670	38,20
6,8	109	69	10	105.0680	37,80
6,9	109	69	10	105.0690	36,40
7,0	109	69	10	105.0700	37,80
7,1	109	69	10	105.0710	46,60
7,2	109	69	10	105.0720	44,40
7,3	109	69	10	105.0730	44,40
7,4	109	69	10	105.0740	44,40
7,5	109	69	10	105.0750	45,60
7,6	117	75	10	105.0760	49,00
7,7	117	75	10	105.0770	49,00
7,8	117	75	10	105.0780	51,50
7,9	117	75	10	105.0790	51,50
8,0	117	75	10	105.0800	51,00
8,1	117	75	5	105.0810	26,10
8,2	117	75	5	105.0820	26,10
8,3	117	75	5	105.0830	26,10
8,4	117	75	5	105.0840	28,70
8,5	117	75	5	105.0850	27,10
8,6	125	81	5	105.0860	30,75
8,7	125	81	5	105.0870	30,75
8,8	125	81	5	105.0880	30,75
8,9	125	81	5	105.0890	32,30
9,0	125	81	5	105.0900	32,20
9,1	125	81	5	105.0910	36,75
9,2	125	81	5	105.0920	36,75
9,3	125	81	5	105.0930	33,40
9,4	125	81	5	105.0940	33,40
9,5	125	81	5	105.0950	34,85
9,6	133	87	5	105.0960	39,00
9,7	133	87	5	105.0970	40,95
9,8	133	87	5	105.0980	39,00
9,9	133	87	5	105.0990	40,95
10,0	133	87	5	105.1000	41,35
10,2	133	87	5	105.1020	43,25
10,5	133	87	5	105.1050	43,25
11,0	142	94	5	105.1100	50,30
11,5	142	94	5	105.1150	54,60
12,0	151	101	5	105.1200	62,25
12,5	151	101	5	105.1250	67,45
13,0	151	101	5	105.1300	72,45

HSS-G Jobber drill bit, SILVER-LINE, in EV-pack



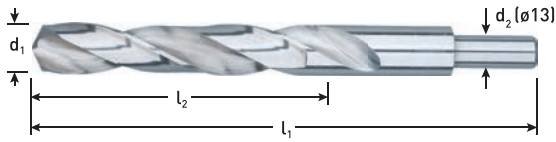
Execution: HSS-G Jobber drill bit, DIN 338, ground flute, split-point according to DIN 1412-C, point angle 135°, type N-spiral. For high precision and long tool life.

Application: General-purpose use, for drilling of most common materials such as steel and alloyed steel with tensile strength up to 1.000 N/mm², cast-iron, etc.
Material groups : 1.1 - 1.4 / 2.1 - 2.2 / 3.1 / 4.1 - 4.11 / 5.3 - 5.4

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
1,0	34	12	2	105.0100E	1,26
1,1	36	14	2	105.0110E	1,53
1,2	38	16	2	105.0120E	1,53
1,3	38	16	2	105.0130E	1,53
1,4	40	18	2	105.0140E	1,53
1,5	40	18	2	105.0150E	1,66
1,6	43	20	2	105.0160E	1,66
1,7	43	20	2	105.0170E	1,66
1,8	46	22	2	105.0180E	1,66
1,9	46	22	2	105.0190E	1,66
2,0	49	24	2	105.0200E	1,39
2,1	49	24	2	105.0210E	1,80
2,2	53	27	2	105.0220E	1,80
2,3	53	27	2	105.0230E	1,80
2,4	57	30	2	105.0240E	1,80
2,5	57	30	2	105.0250E	1,74
2,6	57	30	2	105.0260E	2,63
2,7	61	33	2	105.0270E	2,63
2,8	61	33	2	105.0280E	2,63
2,9	61	33	2	105.0290E	2,63
3,0	61	33	2	105.0300E	2,46
3,1	61	36	2	105.0310E	2,53
3,2	65	36	2	105.0320E	2,77
3,3	65	36	2	105.0330E	2,77
3,4	70	39	2	105.0340E	3,00
3,5	70	39	2	105.0350E	2,77
3,6	70	39	2	105.0360E	3,37
3,7	70	39	2	105.0370E	3,37
3,8	75	43	2	105.0380E	3,37
3,9	75	43	2	105.0390E	3,44
4,0	75	43	2	105.0400E	2,91
4,1	75	43	1	105.0410E	1,98
4,2	75	43	1	105.0420E	1,98
4,3	80	47	1	105.0430E	2,14
4,4	80	47	1	105.0440E	2,14
4,5	80	47	1	105.0450E	1,98
4,6	80	47	1	105.0460E	2,46
4,7	80	47	1	105.0470E	2,46
4,8	86	52	1	105.0480E	2,39
4,9	86	52	1	105.0490E	2,34
5,0	86	52	1	105.0500E	2,34
5,1	86	52	1	105.0510E	2,56
5,2	86	52	1	105.0520E	2,71
5,3	86	52	1	105.0530E	2,87
5,4	93	57	1	105.0540E	2,87
5,5	86	52	1	105.0550E	2,91
5,6	93	57	1	105.0560E	3,40
5,7	93	57	1	105.0570E	3,24
5,8	93	57	1	105.0580E	3,24

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
5,9	93	57	1	105.0590E	3,40
6,0	93	57	1	105.0600E	3,24
6,1	101	63	1	105.0610E	3,59
6,2	101	63	1	105.0620E	3,59
6,3	101	63	1	105.0630E	3,59
6,4	101	63	1	105.0640E	3,77
6,5	101	63	1	105.0650E	3,51
6,6	101	63	1	105.0660E	4,18
6,7	101	63	1	105.0670E	4,39
6,8	109	69	1	105.0680E	4,08
6,9	109	69	1	105.0690E	4,18
7,0	109	69	1	105.0700E	4,08
7,1	109	69	1	105.0710E	5,23
7,2	109	69	1	105.0720E	4,98
7,3	109	69	1	105.0730E	4,98
7,4	109	69	1	105.0740E	4,98
7,5	109	69	1	105.0750E	4,69
7,6	117	75	1	105.0760E	5,43
7,7	117	75	1	105.0770E	5,43
7,8	117	75	1	105.0780E	5,70
7,9	117	75	1	105.0790E	5,70
8,0	117	75	1	105.0800E	6,59
8,1	117	75	1	105.0810E	5,74
8,2	117	75	1	105.0820E	5,74
8,3	117	75	1	105.0830E	5,74
8,4	117	75	1	105.0840E	6,31
8,5	117	75	1	105.0850E	8,15
8,6	125	81	1	105.0860E	6,79
8,7	125	81	1	105.0870E	6,79
8,8	125	81	1	105.0880E	6,79
8,9	125	81	1	105.0890E	7,13
9,0	125	81	1	105.0900E	9,06
9,1	125	81	1	105.0910E	8,06
9,2	125	81	1	105.0920E	8,06
9,3	125	81	1	105.0930E	7,33
9,4	125	81	1	105.0940E	7,33
9,5	125	81	1	105.0950E	10,58
9,6	133	87	1	105.0960E	8,46
9,7	133	87	1	105.0970E	8,88
9,8	133	87	1	105.0980E	8,46
9,9	133	87	1	105.0990E	8,88
10,0	133	87	1	105.1000E	11,51
10,2	133	87	1	105.1020E	12,24
10,5	133	87	1	105.1050E	12,24
11,0	142	94	1	105.1100E	13,25
11,5	142	94	1	105.1150E	14,44
12,0	151	101	1	105.1200E	14,54
12,5	151	101	1	105.1250E	16,22
13,0	151	101	1	105.1300E	16,15

HSS-G Jobber drill bit, SILVER-LINE, shank $\varnothing 13$



Execution: HSS-G Jobber drill bit, DIN 338, ground flute, split-point according to DIN 1412-C, point angle 135°, type N-spiral, with reduced shank $\varnothing 13$ mm. For high precision and long tool life.

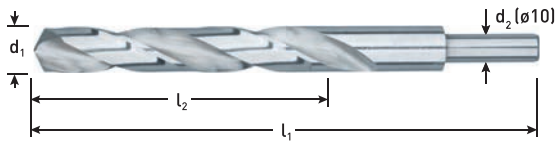
Application: General-purpose use, for drilling of most common materials such as steel and alloyed steel with tensile strength up to 1.000 N/mm², cast-iron, etc.
Material groups : 1.1 - 1.4 / 2.1 - 2.2 / 3.1 / 4.1 - 4.11 / 5.3 - 5.4



d ₁	l ₁	l ₂	d ₂	pcs/PU	Item no.	€ / PU
13,5	160	108	13	1	105.1350	16,87
14,0	160	108	13	1	105.1400	17,68
14,5	169	114	13	1	105.1450	19,92
15,0	169	114	13	1	105.1500	20,96
15,5	178	120	13	1	105.1550	23,01
16,0	178	120	13	1	105.1600	24,23
16,5	185	125	13	1	105.1650	28,14
17,0	185	125	13	1	105.1700	29,47
17,5	195	130	13	1	105.1750	31,98
18,0	195	130	13	1	105.1800	33,48

d ₁	l ₁	l ₂	d ₂	pcs/PU	Item no.	€ / PU
18,5	200	135	13	1	105.1850	36,57
19,0	200	135	13	1	105.1900	38,16
19,5	205	140	13	1	105.1950	41,15
20,0	205	140	13	1	105.2000	42,92
21,0	215	145	13	1	105.2100	40,78
22,0	215	145	13	1	105.2200	44,32
23,0	220	150	13	1	105.2300	51,99
24,0	245	160	13	1	105.2400	57,41
25,0	245	160	13	1	105.2500	61,53
26,0	245	160	13	1	105.2600	74,55

HSS-G Jobber drill bit, SILVER-LINE, shank $\varnothing 10$



Execution: HSS-G Jobber drill bit, DIN 338, ground flute, split-point according to DIN 1412-C, point angle 135°, type N-spiral, with reduced shank $\varnothing 10$ mm. For high precision and long tool life.

Application: General-purpose use, for drilling of most common materials such as steel and alloyed steel with tensile strength up to 1.000 N/mm², cast-iron, etc.
Material groups : 1.1 - 1.4 / 2.1 - 2.2 / 3.1 / 4.1 - 4.11 / 5.3 - 5.4



d ₁	l ₁	l ₂	d ₂	pcs/PU	Item no.	€ / PU
10,5	133	87	10	1	105.1051	11,79
11,5	142	94	10	1	105.1101	13,17
11,5	142	94	10	1	105.1151	14,04
12,0	151	101	10	1	105.1201	15,56
12,5	151	101	10	1	105.1251	16,60
13,0	151	101	10	1	105.1301	17,60

d ₁	l ₁	l ₂	d ₂	pcs/PU	Item no.	€ / PU
13,5	160	108	10	1	105.1351	17,68
14,0	160	108	10	1	105.1401	16,75
14,5	169	114	10	1	105.1451	19,92
15,0	169	114	10	1	105.1501	20,96
15,5	178	120	10	1	105.1551	23,01
16,0	178	120	10	1	105.1601	24,23

900

HSS-G Jobber drill bit set, SILVER-LINE, in PVC cassette

ROTEC®



Execution: HSS-G Jobber drill bit, DIN 338, ground flute, split-point according to DIN 1412-C, point angle 135°, type N-spiral. For high precision and long tool life.

Application: General-purpose use, for drilling of most common materials such as steel and alloyed steel with tensile strength up to 1.000 N/mm², cast-iron, etc.
Material groups : 1.1 - 1.4 / 2.1 - 2.2 / 3.1 / 4.1 - 4.11 / 5.3 - 5.4

Description	Type	Execution	Content	pcs/PU	Item no.	€ / PU
6 pc jobber drill bit set	105	Ground	ø2, 3, 4, 5, 6 and 8mm, 1 pc each	1	900.1025	18,30

HSS-G Jobber drill bit set, SILVER-LINE, in ABS cassette

ROTEC®



Execution: HSS-G Jobber drill bit, DIN 338, ground flute, split-point according to DIN 1412-C, point angle 135°, type N-spiral. For high precision and long tool life.

Application: General-purpose use, for drilling of most common materials such as steel and alloyed steel with tensile strength up to 1.000 N/mm², cast-iron, etc.
Material groups : 1.1 - 1.4 / 2.1 - 2.2 / 3.1 / 4.1 - 4.11 / 5.3 - 5.4

Description	Type	Execution	Content	pcs/PU	Item no.	€ / PU
19 pc jobber drill bit set	105	Ground	ø1 - 10 / 0,5mm increm. / 1 pc each	1	900.0020K	57,80
25 pc jobber drill bit set	105	Ground	ø1 - 13 / 0,5mm increm. / 1 pc each	1	900.0026K	108,90

HSS-G Jobber drill bit set, SILVER-LINE, in plastic case

ROTEC®



Execution: HSS-G Jobber drill bit, DIN 338, ground flute, split-point according to DIN 1412-C, point angle 135°, type N-spiral. For high precision and long tool life.

Application: General-purpose use, for drilling of most common materials such as steel and alloyed steel with tensile strength up to 1.000 N/mm², cast-iron, etc.
Material groups : 1.1 - 1.4 / 2.1 - 2.2 / 3.1 / 4.1 - 4.11 / 5.3 - 5.4

Description	Type	Execution	Content	pcs/PU	Item no.	€ / PU
170 pc jobber drill bit set	105	Ground	ø1 - 8 / 0,5mm increm. / 10 pcs each ø8,5 - 10 / 0,5mm increm. / 5 pcs each	1	900.0173K	212,90
202 pc jobber drill bit set	105	Ground	ø1 - 8 / 0,5mm increm. / 10 pcs each ø8,5 - 10 / 0,5mm increm. / 5 pcs each ø10,5 - 13 / 0,5mm increm. / 2 pcs each Pre-tap sizes ø3,3 and 4,2 / 10 pcs each	1	900.0222K	650,74

107

HSS-G Jobber drill bit, UNI-X, GOLD-LINE



Splitpoint

Quick, simple and precise spot-drilling with little pressure required, without pre-centering, even on corrugated surfaces.

UNI-Spiral

The normal sized core in combination with the 40°-helix spiral results in a very universal drill bit with excellent stability.

135° point angle

The 135° high performance cutting edge ensures a very high aligned preciseness, particularly when hand-operated with a cordless drilling machine. Due to reduced cutting forces, longer battery life.

3-flat shank

Excellent clamping in the drill chuck and optimal power transmission with little effort. Ideal for cordless drills!



d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
1,0	34	12	10	107.0100	5,80
1,5	40	18	10	107.0150	6,60
2,0	49	24	10	107.0200	7,50
2,5	57	30	10	107.0250	8,10
3,0	61	33	10	107.0300	13,30
3,3	65	36	10	107.0330	15,50
3,5	70	39	10	107.0350	15,50
4,0	75	43	10	107.0400	17,60
4,2	75	43	10	107.0420	20,70
4,5	80	47	10	107.0450	21,40
5,0	86	52	10	107.0500	23,70
5,5	86	52	10	107.0550	28,80
6,0	93	57	10	107.0600	35,00
6,5	101	63	10	107.0650	40,00

Execution:

HSS-G Jobber drill bit, DIN 338, type HD-spiral, ground flute, split-point according to DIN 1412-C, point angle 135° and cylindrical shank. From $\phi 4$ and up with 3 flats for optimal grip in the drill chuck. Very suitable for cordless drills. Quick and precise spot-drilling without centering, longer drilling with one battery due to reduced cutting forces, accurate and round holes, even in sheet materials.

Application:

General-purpose use, for drilling of most common materials such as steel, alloyed steel and stainless steel with tensile strength up to 1.000 N/mm², cast-iron, etc. Material groups : 1.1 - 1.4 / 2.1 - 2.2 / 3.1 / 4.1 - 4.11 / 5.3 - 5.4

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
6,8	109	69	10	107.0680	46,50
7,0	109	69	10	107.0700	46,50
7,5	109	69	10	107.0750	56,40
8,0	117	75	10	107.0800	62,70
8,5	117	75	5	107.0850	33,40
9,0	125	81	5	107.0900	39,55
9,5	125	81	5	107.0950	42,85
10,0	133	87	5	107.1000	51,00
10,5	133	87	5	107.1050	53,40
11,0	142	94	5	107.1100	61,95
11,5	142	94	5	107.1150	67,20
12,0	151	101	5	107.1200	76,60
12,5	151	101	5	107.1250	83,15
13,0	151	101	5	107.1300	89,25

HSS-G Jobber drill bit, UNI-X, GOLD-LINE, in EV-pack



d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
1,0	34	12	2	107.0100E	1,91
1,5	40	18	2	107.0150E	2,15
2,0	49	24	2	107.0200E	2,23
2,5	57	30	2	107.0250E	2,23
3,0	61	33	2	107.0300E	3,71
3,3	65	36	2	107.0330E	3,94
3,5	70	39	2	107.0350E	3,94
4,0	75	43	1	107.0400E	2,25
4,2	75	43	1	107.0420E	2,63
4,5	80	47	1	107.0450E	2,79
5,0	86	52	1	107.0500E	2,96
5,5	86	52	1	107.0550E	3,44
6,0	93	57	1	107.0600E	4,13
6,5	101	63	1	107.0650E	4,70

Execution:

HSS-G Jobber drill bit, DIN 338, type HD-spiral, ground flute, split-point according to DIN 1412-C, point angle 135° and cylindrical shank. From $\phi 4$ and up with 3 flats for optimal grip in the drill chuck. Very suitable for cordless drills. Quick and precise spot-drilling without centering, longer drilling with one battery due to reduced cutting forces, accurate and round holes, even in sheet materials.

Application:

General-purpose use, for drilling of most common materials such as steel, alloyed steel and stainless steel with tensile strength up to 1.000 N/mm², cast-iron, etc. Material groups : 1.1 - 1.4 / 2.1 - 2.2 / 3.1 / 4.1 - 4.11 / 5.3 - 5.4

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
6,8	109	69	1	107.0680E	5,39
7,0	109	69	1	107.0700E	5,39
7,5	109	69	1	107.0750E	6,39
8,0	117	75	1	107.0800E	6,94
8,5	117	75	1	107.0850E	7,33
9,0	125	81	1	107.0900E	8,68
9,5	125	81	1	107.0950E	9,35
10,0	133	87	1	107.1000E	11,01
10,5	133	87	1	107.1050E	11,41
11,0	142	94	1	107.1100E	13,32
11,5	142	94	1	107.1150E	14,35
12,0	151	101	1	107.1200E	16,30
12,5	151	101	1	107.1250E	17,63
13,0	151	101	1	107.1300E	18,75

900

HSS-G Jobber drill bit set, UNI-X, GOLD-LINE, in PVC cassette

ROTEC®



Execution: HSS-G Jobber drill bit, DIN 338, type HD-spiral, ground flute, split-point according to DIN 1412-C, point angle 135° and cylindrical shank. From ø4 and up with 3 flats for optimal grip in the drill chuck. Very suitable for cordless drills. Quick and precise spot-drilling without centering, longer drilling with one battery due to reduced cutting forces, accurate and round holes, even in sheet materials.

Application: General-purpose use, for drilling of most common materials such as steel, alloyed steel and stainless steel with tensile strength up to 1.000 N/mm², cast-iron, etc.
Material groups : 1.1 - 1.4 / 2.1 - 2.2 / 3.1 / 4.1 - 4.11 / 5.3 - 5.4

Description	Type	Execution	Content	pcs/PU	Item no.	€ / PU
6 pc jobber drill bit set	107	Ground	ø2, 3, 4, 5, 6 and 8mm, 1 pc each	1	900.1027	21,79

900

HSS-G Jobber drill bit set, UNI-X, GOLD-LINE, in ABS cassette

ROTEC®



Execution: HSS-G Jobber drill bit, DIN 338, type HD-spiral, ground flute, split-point according to DIN 1412-C, point angle 135° and cylindrical shank. From ø4 and up with 3 flats for optimal grip in the drill chuck. Very suitable for cordless drills. Quick and precise spot-drilling without centering, longer drilling with one battery due to reduced cutting forces, accurate and round holes, even in sheet materials.

Application: General-purpose use, for drilling of most common materials such as steel, alloyed steel and stainless steel with tensile strength up to 1.000 N/mm², cast-iron, etc.
Material groups : 1.1 - 1.4 / 2.1 - 2.2 / 3.1 / 4.1 - 4.11 / 5.3 - 5.4

Description	Type	Execution	Content	pcs/PU	Item no.	€ / PU
19 pc jobber drill bit set	UNI-X	Ground	ø1 - 10 / 0,5mm increm. / 1 pc each	1	900.0056K	72,46
25 pc jobber drill bit set	UNI-X	Ground	ø1 - 13 / 0,5mm increm. / 1 pc each	1	900.0057K	135,11

HSS-G Jobber drill bit set, UNI-X, GOLD-LINE, in plastic case

ROTEC®



Execution: HSS-G Jobber drill bit, DIN 338, type HD-spiral, ground flute, split-point according to DIN 1412-C, point angle 135° and cylindrical shank. From ø4 and up with 3 flats for optimal grip in the drill chuck. Very suitable for cordless drills. Quick and precise spot-drilling without centering, longer drilling with one battery due to reduced cutting forces, accurate and round holes, even in sheet materials.

Application: General-purpose use, for drilling of most common materials such as steel, alloyed steel and stainless steel with tensile strength up to 1.000 N/mm², cast-iron, etc.
Material groups : 1.1 - 1.4 / 2.1 - 2.2 / 3.1 / 4.1 - 4.11 / 5.3 - 5.4

Description	Type	Execution	Content	pcs/PU	Item no.	€ / PU
170 pc jobber drill bit set	UNI-X	Ground	ø1 - 8 / 0,5mm increm. / 10 pcs each ø8,5 - 10 / 0,5mm increm. / 5 pcs each	1	900.0175K	428,65

104

HSS-G Jobber drill bit, STEP-X, GOLD-LINE



Splitpoint / 118° point angle

Drilling without pre-drilling and with perfect centring, even on corrugated surfaces, thanks to the self-centring splitpoint with 118° point angle.

Wide flutes

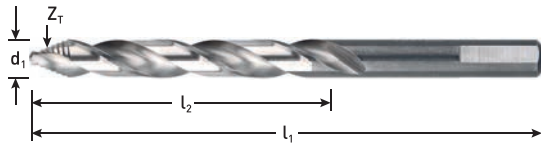
The open and widely ground spirals ensure fast and trouble-free chip removal.

Unique step geometry (from ø3 mm)

The unique step geometry enables up to 50% faster drilling of perfectly round holes in thin-walled products and sheet metal.

3-flat shank (from ø5mm)

Excellent clamping in the drill chuck and optimal power transmission with little effort. Ideal for cordless drills!



DIN 338 **HSS G** **118°** **≥ ø5**

Execution:

HSS-G spiral drill bit DIN 338, ground type, cylindrical shank. Drilling without pre-drilling and with perfect centring, even on corrugated surfaces, thanks to the self-centring split point with 118° point angle. The unique step geometry (from ø3mm) enables up to 50% faster drilling of perfectly round holes in thin-walled products and sheet metal. From ø5 with 3-flat shank for optimum clamping in drill chuck.

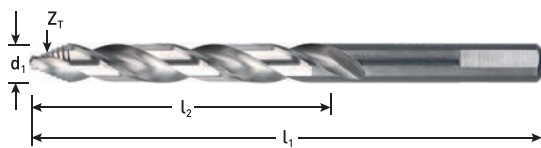
Application:

Ideal for use in cordless drills and for (extremely fast) drilling without any pressure or burrs in steel, aluminium, plastic and hardwood.

d ₁	l ₁	l ₂	Z _T	pcs/PU	Item no.	€ / PU
1,0	34	12	0	10	104.0100	7,00
1,5	40	18	0	10	104.0150	8,00
2,0	49	24	0	10	104.0200	10,00
2,5	57	30	0	10	104.0250	11,00
3,0	61	33	1	10	104.0300	16,30
3,3	65	36	1	10	104.0330	16,90
3,5	70	39	1	10	104.0350	18,90
4,0	75	43	2	10	104.0400	25,40
4,2	75	43	2	10	104.0420	28,00
4,5	80	47	2	10	104.0450	30,60
5,0	86	52	3	10	104.0500	41,00
5,5	86	52	3	10	104.0550	45,50
6,0	93	57	3	10	104.0600	48,80
6,5	101	63	3	10	104.0650	55,30
6,8	109	69	4	10	104.0680	69,60

d ₁	l ₁	l ₂	Z _T	pcs/PU	Item no.	€ / PU
7,0	109	69	4	10	104.0700	69,60
7,5	109	69	4	10	104.0750	78,00
8,0	117	75	5	10	104.0800	93,60
8,5	117	75	5	5	104.0850	50,70
9,0	125	81	5	5	104.0900	56,25
9,5	125	81	5	5	104.0950	61,10
10,0	133	87	6	5	104.1000	70,85
10,2	133	87	6	5	104.1020	76,40
10,5	133	87	6	5	104.1050	76,40
11,0	142	94	6	5	104.1100	84,85
11,5	142	94	6	5	104.1150	90,05
12,0	151	101	8	5	104.1200	102,05
12,5	151	101	8	5	104.1250	108,55
13,0	151	101	8	5	104.1300	115,70

HSS-G Jobber drill bit, STEP-X, GOLD-LINE, in EV-pack



DIN 338 **HSS G** **118°** **≥ ø5**

Execution:

HSS-G spiral drill bit DIN 338, ground type, cylindrical shank. Drilling without pre-drilling and with perfect centring, even on corrugated surfaces, thanks to the self-centring split point with 118° point angle. The unique step geometry (from ø3mm) enables up to 50% faster drilling of perfectly round holes in thin-walled products and sheet metal. From ø5 with 3-flat shank for optimum clamping in drill chuck.

Application:

Ideal for use in cordless drills and for (extremely fast) drilling without any pressure or burrs in steel, aluminium, plastic and hardwood.

d ₁	l ₁	l ₂	Z _T	pcs/PU	Item no.	€ / PU
1,0	34	12	0	1	104.0100E	1,20
1,5	40	18	0	1	104.0150E	1,30
2,0	49	24	0	1	104.0200E	1,50
2,5	57	30	0	1	104.0250E	1,60
3,0	61	33	1	1	104.0300E	2,13
3,3	65	36	1	1	104.0330E	2,41
3,5	70	39	1	1	104.0350E	2,60
4,0	75	43	2	1	104.0400E	3,12
4,2	75	43	2	1	104.0420E	3,45
4,5	80	47	2	1	104.0450E	3,71
5,0	86	52	3	1	104.0500E	4,81
5,5	86	52	3	1	104.0550E	5,27
6,0	93	57	3	1	104.0600E	5,59
6,5	101	63	3	1	104.0650E	6,24
6,8	109	69	4	1	104.0680E	7,61

d ₁	l ₁	l ₂	Z _T	pcs/PU	Item no.	€ / PU
7,0	109	69	4	1	104.0700E	7,61
7,5	109	69	4	1	104.0750E	8,52
8,0	117	75	5	1	104.0800E	10,08
8,5	117	75	5	1	104.0850E	10,60
9,0	125	81	5	1	104.0900E	11,64
9,5	125	81	5	1	104.0950E	12,68
10,0	133	87	6	1	104.1000E	14,56
10,2	133	87	6	1	104.1020E	15,73
10,5	133	87	6	1	104.1050E	15,73
11,0	142	94	6	1	104.1100E	17,55
11,5	142	94	6	1	104.1150E	18,59
12,0	151	101	8	1	104.1200E	21,00
12,5	151	101	8	1	104.1250E	22,30
13,0	151	101	8	1	104.1300E	23,73

900

HSS-G Jobber drill bit set, STEP-X, GOLD-LINE, in PVC cassette

ROTEC®



Execution: HSS-G spiral drill bit DIN 338, ground type, cylindrical shank. Drilling without pre-drilling and with perfect centring, even on corrugated surfaces, thanks to the self-centring split point with 118° point angle. The unique step geometry (from ø3mm) enables up to 50% faster drilling of perfectly round holes in thin-walled products and sheet metal. From ø5 with 3-flat shank for optimum clamping in drill chuck.

Application: Ideal for use in cordless drills and for (extremely fast) drilling without any pressure or burrs in steel, aluminium, plastic and hardwood.

Description	Type	Execution	Content	pcs/PU	Item no.	€ / PU
6 pc jobber drill bit set	104	Ground	ø2, 3, 4, 5, 6 and 8mm, 1 pc each	1	900.1024	26,52

HSS-G Jobber drill bit set, STEP-X, GOLD-LINE, in plastic case

ROTEC®



Execution: HSS-G spiral drill bit DIN 338, ground type, cylindrical shank. Drilling without pre-drilling and with perfect centring, even on corrugated surfaces, thanks to the self-centring split point with 118° point angle. The unique step geometry (from ø3mm) enables up to 50% faster drilling of perfectly round holes in thin-walled products and sheet metal. From ø5 with 3-flat shank for optimum clamping in drill chuck.

Application: Ideal for use in cordless drills and for (extremely fast) drilling without any pressure or burrs in steel, aluminium, plastic and hardwood.

Description	Type	Execution	Content	pcs/PU	Item no.	€ / PU
170 pc jobber drill bit set	STEP-X	Ground	ø1 - 8 / 0,5mm increm. / 10 pcs each ø8,5 - 10 / 0,5mm increm. / 5 pcs each	1	900.0176	761,28

900

HSS-G Jobber drill bit set, STEP-X, GOLD-LINE, in ABS cassette

ROTEC®



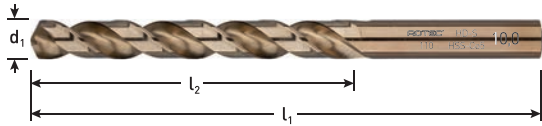
Execution: HSS-G spiral drill bit DIN 338, ground type, cylindrical shank. Drilling without pre-drilling and with perfect centring, even on corrugated surfaces, thanks to the self-centring split point with 118° point angle. The unique step geometry (from ø3mm) enables up to 50% faster drilling of perfectly round holes in thin-walled products and sheet metal. From ø5 with 3-flat shank for optimum clamping in drill chuck.

Application: Ideal for use in cordless drills and for (extremely fast) drilling without any pressure or burrs in steel, aluminium, plastic and hardwood.

Description	Type	Execution	Content	pcs/PU	Item no.	€ / PU
19 pc jobber drill bit set	STEP-X	Ground	ø1 - 10 / 0,5mm increm. / 1 pc each	1	900.0070	99,00
25 pc jobber drill bit set	STEP-X	Ground	ø1 - 13 / 0,5mm increm. / 1 pc each	1	900.0071	199,00

110

HSS-E Jobber drill bit, type HD-S, GOLD-LINE



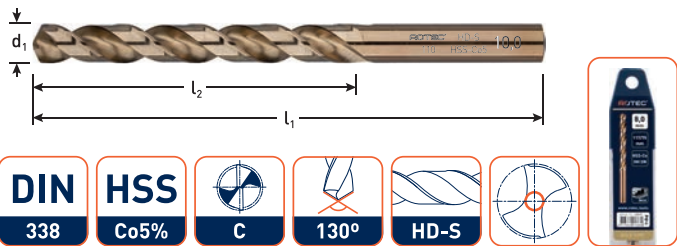
Execution: HSS-E Jobber drill bit, DIN 338, ground flute, split-point according to DIN 1412-C, point angle 130°, type HD-S spiral with reinforced core, for high precision and long tool life.

Application: For drilling of difficult to cut materials such as austenitic stainless steel, spring steel, CrNi-steel, Mn-steel, titanium (alloys) and other short chipping steels with tensile strength <1.000 N/mm².
Material groups : 1.1 - 1.4 / 2.1 - 2.2 / 3.1 - 3.3 / 4.1 - 4.11 / 5.3 - 5.4

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
1,0	34	12	10	110.0100	39,28
1,1	36	14	10	110.0110	38,67
1,2	38	16	10	110.0120	39,28
1,3	38	16	10	110.0130	37,66
1,4	40	18	10	110.0140	36,54
1,5	40	18	10	110.0150	34,31
1,6	43	20	10	110.0160	32,78
1,7	43	20	10	110.0170	33,90
1,8	46	22	10	110.0180	30,15
1,9	46	22	10	110.0190	30,65
2,0	49	24	10	110.0200	27,51
2,1	49	24	10	110.0210	30,15
2,2	53	27	10	110.0220	31,77
2,3	53	27	10	110.0230	31,77
2,4	57	30	10	110.0240	31,77
2,5	57	30	10	110.0250	32,18
2,6	57	30	10	110.0260	32,78
2,7	61	33	10	110.0270	32,78
2,8	61	33	10	110.0280	33,90
2,9	61	33	10	110.0290	33,90
3,0	61	33	10	110.0300	29,54
3,1	65	35	10	110.0310	34,31
3,2	65	35	10	110.0320	31,77
3,3	65	35	10	110.0330	34,92
3,4	70	39	10	110.0340	34,31
3,5	70	39	10	110.0350	31,77
3,6	70	39	10	110.0360	37,15
3,7	70	39	10	110.0370	38,67
3,8	75	43	10	110.0380	39,28
3,9	75	43	10	110.0390	41,62
4,0	75	43	10	110.0400	33,90
4,1	75	43	10	110.0410	43,54
4,2	75	43	10	110.0420	38,67
4,3	80	47	10	110.0430	44,15
4,4	80	47	10	110.0440	44,15
4,5	80	47	10	110.0450	41,62
4,6	80	47	10	110.0460	44,15
4,7	80	47	10	110.0470	45,17
4,8	86	52	10	110.0480	45,57
4,9	86	52	10	110.0490	47,40
5,0	86	52	10	110.0500	39,28
5,1	86	52	10	110.0510	48,42
5,2	86	52	10	110.0520	48,42
5,3	86	52	10	110.0530	48,42
5,4	93	57	10	110.0540	54,81
5,5	93	57	10	110.0550	53,29
5,6	93	57	10	110.0560	55,93
5,7	93	57	10	110.0570	57,55
5,8	93	57	10	110.0580	58,16
5,9	93	57	10	110.0590	58,67
6,0	93	57	10	110.0600	53,29
6,1	101	63	10	110.0610	63,03
6,2	101	63	10	110.0620	63,03
6,3	101	63	10	110.0630	63,54
6,4	101	63	10	110.0640	67,29

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
6,5	101	63	10	110.0650	64,55
6,6	101	63	10	110.0660	69,93
6,7	101	63	10	110.0670	71,56
6,8	109	69	10	110.0680	82,72
6,9	109	69	10	110.0690	82,72
7,0	109	69	10	110.0700	76,94
7,1	109	69	10	110.0710	87,70
7,2	109	69	10	110.0720	88,10
7,3	109	69	10	110.0730	88,10
7,4	109	69	10	110.0740	89,83
7,5	109	69	10	110.0750	83,84
7,6	117	75	10	110.0760	95,31
7,7	117	75	10	110.0770	95,31
7,8	117	75	10	110.0780	96,73
7,9	117	75	10	110.0790	99,47
8,0	117	75	10	110.0800	83,84
8,1	117	75	5	110.0810	50,65
8,2	117	75	5	110.0820	51,11
8,3	117	75	5	110.0830	55,42
8,4	117	75	5	110.0840	55,42
8,5	117	75	5	110.0850	53,29
8,6	125	81	5	110.0860	61,66
8,7	125	81	5	110.0870	61,66
8,8	125	81	5	110.0880	62,37
8,9	125	81	5	110.0890	65,06
9,0	125	81	5	110.0900	58,92
9,1	125	81	5	110.0910	65,06
9,2	125	81	5	110.0920	65,06
9,3	125	81	5	110.0930	65,92
9,4	125	81	5	110.0940	63,18
9,5	125	81	5	110.0950	65,92
9,6	133	87	5	110.0960	71,56
9,7	133	87	5	110.0970	71,56
9,8	133	87	5	110.0980	78,56
9,9	133	87	5	110.0990	75,31
10,0	133	87	5	110.1000	69,38
10,2	133	87	5	110.1020	87,65
10,5	133	87	5	110.1050	83,69
11,0	142	94	5	110.1100	101,60
11,1	142	94	5	110.1110	129,67
11,5	142	94	5	110.1150	111,85
12,0	151	101	5	110.1200	126,06
12,5	151	101	5	110.1250	140,07
13,0	151	101	5	110.1300	154,13
13,5	160	108	1	110.1350	35,72
14,0	160	108	1	110.1400	38,51
14,5	169	114	1	110.1450	40,61
15,0	169	114	1	110.1500	44,87
15,5	178	120	1	110.1550	50,38
16,0	178	120	1	110.1600	53,25
17,0	184	125	1	110.1700	64,49
18,0	191	130	1	110.1800	73,15
19,0	198	135	1	110.1900	88,29
20,0	205	140	1	110.2000	100,89

HSS-E Jobber drill bit, type HD-S, GOLD-LINE, in EV-pack



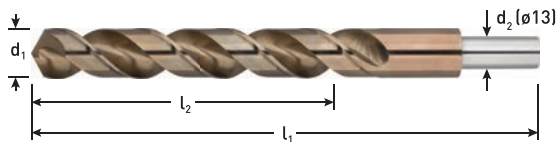
Execution: HSS-E Jobber drill bit, DIN 338, ground flute, split-point according to DIN 1412-C, point angle 130°, type HD-S spiral with reinforced core, for high precision and long tool life.

Application: For drilling of difficult to cut materials such as austenitic stainless steel, spring steel, CrNi-steel, Mn-steel, titanium (alloys) and other short chipping steels with tensile strength <1.000 N/mm².
Material groups : 1.1 - 1.4 / 2.1 - 2.2 / 3.1 - 3.3 / 4.1 - 4.11 / 5.3 - 5.4

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
1,0	34	12	1	110.0100E	4,28
1,1	36	14	1	110.0110E	4,24
1,2	38	16	1	110.0120E	4,28
1,3	38	16	1	110.0130E	4,17
1,4	40	18	1	110.0140E	4,01
1,5	40	18	1	110.0150E	3,81
1,6	43	20	1	110.0160E	3,70
1,7	43	20	1	110.0170E	3,77
1,8	46	22	1	110.0180E	3,40
1,9	46	22	1	110.0190E	3,45
2,0	49	24	1	110.0200E	3,15
2,1	49	24	1	110.0210E	3,40
2,2	53	27	1	110.0220E	3,56
2,3	53	27	1	110.0230E	3,56
2,4	57	30	1	110.0240E	3,56
2,5	57	30	1	110.0250E	3,64
2,6	57	30	1	110.0260E	3,70
2,7	61	33	1	110.0270E	3,70
2,8	61	33	1	110.0280E	3,77
2,9	61	33	1	110.0290E	3,77
3,0	61	33	1	110.0300E	3,35
3,1	65	35	1	110.0310E	3,81
3,2	65	35	1	110.0320E	3,56
3,3	65	35	1	110.0330E	3,87
3,4	70	39	1	110.0340E	3,81
3,5	70	39	1	110.0350E	3,56
3,6	70	39	1	110.0360E	4,11
3,7	70	39	1	110.0370E	4,24
3,8	75	43	1	110.0380E	4,28
3,9	75	43	1	110.0390E	4,52
4,0	75	43	1	110.0400E	3,77
4,1	75	43	1	110.0410E	4,71
4,2	75	43	1	110.0420E	4,24
4,3	80	47	1	110.0430E	4,80
4,4	80	47	1	110.0440E	4,80
4,5	80	47	1	110.0450E	4,55
4,6	80	47	1	110.0460E	4,80
4,7	80	47	1	110.0470E	4,87
4,8	86	52	1	110.0480E	4,93
4,9	86	52	1	110.0490E	5,15
5,0	86	52	1	110.0500E	4,32
5,1	86	52	1	110.0510E	5,21
5,2	86	52	1	110.0520E	5,21
5,3	86	52	1	110.0530E	5,21
5,4	93	57	1	110.0540E	5,83
5,5	93	57	1	110.0550E	5,67
5,6	93	57	1	110.0560E	5,96
5,7	93	57	1	110.0570E	6,11
5,8	93	57	1	110.0580E	6,18
5,9	93	57	1	110.0590E	6,23

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
6,0	93	57	1	110.0600E	5,67
6,1	101	63	1	110.0610E	6,66
6,2	101	63	1	110.0620E	6,66
6,3	101	63	1	110.0630E	6,73
6,4	101	63	1	110.0640E	7,05
6,5	101	63	1	110.0650E	6,77
6,6	101	63	1	110.0660E	7,31
6,7	101	63	1	110.0670E	7,47
6,8	109	69	1	110.0680E	8,60
6,9	109	69	1	110.0690E	8,60
7,0	109	69	1	110.0700E	8,08
7,1	109	69	1	110.0710E	8,57
7,2	109	69	1	110.0720E	8,82
7,3	109	69	1	110.0730E	8,82
7,4	109	69	1	110.0740E	8,97
7,5	109	69	1	110.0750E	8,77
7,6	117	75	1	110.0760E	9,84
7,7	117	75	1	110.0770E	9,50
7,8	117	75	1	110.0780E	9,99
7,9	117	75	1	110.0790E	9,73
8,0	117	75	1	110.0800E	8,77
8,1	117	75	1	110.0810E	10,39
8,2	117	75	1	110.0820E	10,53
8,3	117	75	1	110.0830E	10,92
8,4	117	75	1	110.0840E	10,92
8,5	117	75	1	110.0850E	10,93
8,6	125	81	1	110.0860E	12,15
8,7	125	81	1	110.0870E	12,15
8,8	125	81	1	110.0880E	12,78
8,9	125	81	1	110.0890E	12,82
9,0	125	81	1	110.0900E	12,08
9,1	125	81	1	110.0910E	13,33
9,2	125	81	1	110.0920E	13,33
9,3	125	81	1	110.0930E	12,95
9,4	125	81	1	110.0940E	12,95
9,5	125	81	1	110.0950E	13,45
9,6	133	87	1	110.0960E	14,01
9,7	133	87	1	110.0970E	14,01
9,8	133	87	1	110.0980E	15,89
9,9	133	87	1	110.0990E	15,31
10,0	133	87	1	110.1000E	14,12
10,2	133	87	1	110.1020E	17,70
10,5	133	87	1	110.1050E	16,90
11,0	142	94	1	110.1100E	20,51
11,1	142	94	1	110.1110E	25,95
11,5	142	94	1	110.1150E	22,51
12,0	151	101	1	110.1200E	25,28
12,5	151	101	1	110.1250E	28,00
13,0	151	101	1	110.1300E	30,71

HSS-E Jobber drill bit, type HD-S, GOLD-LINE, shank ø13



Execution: HSS-E Jobber drill bit, DIN 338, ground flute, split-point according to DIN 1412-C, point angle 130°, type HD-S spiral with reinforced core, for high precision and long tool life, reduced shank ø13mm.

Application: For drilling of difficult to cut materials such as austenitic stainless steel, spring steel, CrNi-steel, Mn-steel, titanium (alloys) and other short chipping steels with tensile strength <1.000 N/mm².
Material groups : 1.1 - 1.4 / 2.1 - 2.2 / 3.1 - 3.3 / 4.1 - 4.11 / 5.3 - 5.4

d ₁	l ₁	l ₂	d ₂	pcs/PU	Item no.	€ / PU
13,5	160	108	13	1	110.1351	40,22
14,0	160	108	13	1	110.1401	42,76
14,5	169	114	13	1	110.1451	45,07
15,0	169	114	13	1	110.1501	49,31
15,5	178	120	13	1	110.1551	54,96

d ₁	l ₁	l ₂	d ₂	pcs/PU	Item no.	€ / PU
16,0	178	120	13	1	110.1601	57,75
17,0	184	125	13	1	110.1701	70,09
18,0	191	130	13	1	110.1801	79,88
19,0	198	135	13	1	110.1901	95,63
20,0	205	140	13	1	110.2001	108,22

900

HSS-E Jobber drill bit set, type HD-S, GOLD-LINE, in ABS cassette



Execution: HSS-E Jobber drill bit, DIN 338, ground flute, split-point according to DIN 1412-C, point angle 130°, type HD-S spiral with reinforced core, for high precision and long tool life.

Application: For drilling of difficult to cut materials such as austenitic stainless steel, spring steel, CrNi-steel, Mn-steel, titanium (alloys) and other short chipping steels with tensile strength <1.000 N/mm².
Material groups : 1.1 - 1.4 / 2.1 - 2.2 / 3.1 - 3.3 / 4.1 - 4.11 / 5.3 - 5.4

Description	Type	Execution	Content	pcs/PU	Item no.	€ / PU
19 pc jobber drill bit set	110	Ground	ø1 - 10 / 0,5mm increm. / 1 pc each	1	900.0023A	119,36
25 pc jobber drill bit set	110	Ground	ø1 - 13 / 0,5mm increm. / 1 pc each	1	900.0029A	273,91

HSS-E Jobber drill bit set, type HD-S, GOLD-LINE, in plastic case



Execution: HSS-E Jobber drill bit, DIN 338, ground flute, split-point according to DIN 1412-C, point angle 130°, type HD-S spiral with reinforced core, for high precision and long tool life.

Application: For drilling of difficult to cut materials such as austenitic stainless steel, spring steel, CrNi-steel, Mn-steel, titanium (alloys) and other short chipping steels with tensile strength <1.000 N/mm².
Material groups : 1.1 - 1.4 / 2.1 - 2.2 / 3.1 - 3.3 / 4.1 - 4.11 / 5.3 - 5.4

Description	Type	Execution	Content	pcs/PU	Item no.	€ / PU
170 pc jobber drill bit set	110	Ground	ø1 - 8 / 0,5mm increm. / 10 pcs each ø8,5 - 10 / 0,5mm increm. / 5 pcs each	1	900.0172WK	990,95
202 pc jobber drill bit set	110	Ground	ø1 - 8 / 0,5mm increm. / 10 pcs each ø8,5 - 10 / 0,5mm increm. / 5 pcs each ø10,5 - 13 / 0,5mm increm. / 2 pcs each Pre-tap sizes ø3,3 and 4,2 / 10 pcs each	1	900.0232WK	1359,82



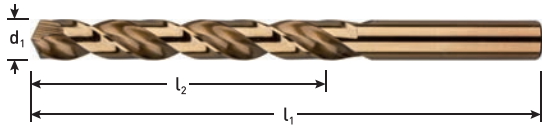
Execution: HSS-E Jobber drill bit, DIN 338, ground flute, split-point according to DIN 1412-C, point angle 135°, type N-spiral.

Application: For drilling of difficult to cut materials such as high-tensile steel, stainless steel, CrNi-steel, Mn-steel etc.
Material groups : 1.1 - 1.4 / 2.1 - 2.2 / 3.1 - 3.3 / 4.1 - 4.11 / 5.3 - 5.4

d ₁	l ₁	l ₂	pcs/PU	Item no.	€/ PU
1,0	34	12	10	111.0100	23,40
1,1	36	14	10	111.0110	28,40
1,2	38	16	10	111.0120	28,40
1,3	38	16	10	111.0130	28,40
1,4	40	18	10	111.0140	28,40
1,5	40	18	10	111.0150	22,40
1,6	43	20	10	111.0160	28,40
1,7	43	20	10	111.0170	28,40
1,8	46	22	10	111.0180	28,40
1,9	46	22	10	111.0190	28,40
2,0	49	24	10	111.0200	22,90
2,1	49	24	10	111.0210	29,70
2,2	53	27	10	111.0220	29,70
2,3	53	27	10	111.0230	29,70
2,4	57	30	10	111.0240	29,70
2,5	57	30	10	111.0250	22,90
2,6	57	30	10	111.0260	28,90
2,7	61	33	10	111.0270	28,90
2,8	61	33	10	111.0280	28,90
2,9	61	33	10	111.0290	28,90
3,0	61	33	10	111.0300	22,40
3,1	61	36	10	111.0310	27,30
3,2	65	35	10	111.0320	27,30
3,3	65	36	10	111.0330	27,30
3,4	70	39	10	111.0340	28,90
3,5	70	39	10	111.0350	27,30
3,6	70	39	10	111.0360	34,70
3,7	70	39	10	111.0370	34,70
3,8	75	43	10	111.0380	34,70
3,9	75	43	10	111.0390	34,70
4,0	75	43	10	111.0400	28,90
4,1	75	43	10	111.0410	32,20
4,2	75	43	10	111.0420	32,20
4,3	80	47	10	111.0430	34,70
4,4	80	47	10	111.0440	34,70
4,5	80	47	10	111.0450	33,30
4,6	80	47	10	111.0460	38,40
4,7	80	47	10	111.0470	38,40
4,8	86	52	10	111.0480	38,40
4,9	86	52	10	111.0490	38,40
5,0	86	52	10	111.0500	35,20
5,1	86	52	10	111.0510	41,30
5,2	86	52	10	111.0520	41,30
5,3	86	52	10	111.0530	41,30
5,4	93	57	10	111.0540	41,30
5,5	93	57	10	111.0550	44,40
5,6	93	57	10	111.0560	52,50
5,7	93	57	10	111.0570	52,50
5,8	93	57	10	111.0580	52,50

d ₁	l ₁	l ₂	pcs/PU	Item no.	€/ PU
5,9	93	57	10	111.0590	52,50
6,0	93	57	10	111.0600	47,10
6,1	101	63	10	111.0610	58,60
6,2	101	63	10	111.0620	58,60
6,3	101	63	10	111.0630	58,60
6,4	101	63	10	111.0640	58,60
6,5	101	63	10	111.0650	56,90
6,6	101	63	10	111.0660	69,70
6,7	101	63	10	111.0670	69,70
6,8	109	69	10	111.0680	66,00
6,9	109	69	10	111.0690	69,70
7,0	109	69	10	111.0700	61,80
7,1	109	69	10	111.0710	89,60
7,2	109	69	10	111.0720	89,60
7,3	109	69	10	111.0730	89,60
7,4	109	69	10	111.0740	89,60
7,5	109	69	10	111.0750	66,00
7,6	117	75	10	111.0760	108,00
7,7	117	75	10	111.0770	108,00
7,8	117	75	10	111.0780	108,00
7,9	117	75	10	111.0790	108,00
8,0	117	75	10	111.0800	77,20
8,1	117	75	5	111.0810	51,50
8,2	117	75	5	111.0820	51,50
8,3	117	75	5	111.0830	51,50
8,4	117	75	5	111.0840	51,50
8,5	117	75	5	111.0850	40,10
8,6	125	81	5	111.0860	65,45
8,7	125	81	5	111.0870	65,45
8,8	125	81	5	111.0880	65,45
8,9	125	81	5	111.0890	65,45
9,0	125	81	5	111.0900	51,25
9,1	125	81	5	111.0910	72,50
9,2	125	81	5	111.0920	72,50
9,3	125	81	5	111.0930	72,50
9,4	125	81	5	111.0940	72,50
9,5	125	81	5	111.0950	53,10
9,6	133	87	5	111.0960	85,55
9,7	133	87	5	111.0970	85,55
9,8	133	87	5	111.0980	85,55
9,9	133	87	5	111.0990	85,55
10,0	133	87	5	111.1000	58,05
10,2	133	87	5	111.1020	82,35
10,5	133	87	5	111.1050	82,35
11,0	142	94	5	111.1100	91,35
11,5	142	94	5	111.1150	109,25
12,0	151	101	5	111.1200	116,60
12,5	151	101	5	111.1250	142,30
13,0	151	101	5	111.1300	145,95

HSS-E Jobber drill bit, SILVER-LINE, in EV-pack



Execution: HSS-E Jobber drill bit, DIN 338, ground flute, split-point according to DIN 1412-C, point angle 135°, type N-spiral.

Application: For drilling of difficult to cut materials such as high-tensile steel, stainless steel, CrNi-steel, Mn-steel etc.
Material groups : 1.1 - 1.4 / 2.1 - 2.2 / 3.1 - 3.3 / 4.1 - 4.11 / 5.3 - 5.4

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
1,0	34	12	1	111.0100E	2,80
1,1	36	14	1	111.0110E	3,26
1,2	38	16	1	111.0120E	3,26
1,3	38	16	1	111.0130E	3,26
1,4	40	18	1	111.0140E	3,26
1,5	40	18	1	111.0150E	2,68
1,6	43	20	1	111.0160E	3,26
1,7	43	20	1	111.0170E	3,26
1,8	46	22	1	111.0180E	3,26
1,9	46	22	1	111.0190E	3,26
2,0	49	24	1	111.0200E	2,62
2,1	49	24	1	111.0210E	3,39
2,2	53	27	1	111.0220E	3,39
2,3	53	27	1	111.0230E	3,39
2,4	57	30	1	111.0240E	3,39
2,5	57	30	1	111.0250E	2,76
2,6	57	30	1	111.0260E	3,32
2,7	61	33	1	111.0270E	3,32
2,8	61	33	1	111.0280E	3,32
2,9	61	33	1	111.0290E	3,32
3,0	61	33	1	111.0300E	2,76
3,1	65	35	1	111.0310E	3,14
3,2	65	35	1	111.0320E	3,14
3,3	65	35	1	111.0330E	3,14
3,4	70	39	1	111.0340E	3,32
3,5	70	39	1	111.0350E	3,14
3,6	70	39	1	111.0360E	3,89
3,7	70	39	1	111.0370E	3,89
3,8	75	43	1	111.0380E	3,89
3,9	75	43	1	111.0390E	3,89
4,0	75	43	1	111.0400E	3,41
4,1	75	43	1	111.0410E	3,64
4,2	75	43	1	111.0420E	4,01
4,3	80	47	1	111.0430E	3,92
4,4	80	47	1	111.0440E	3,92
4,5	80	47	1	111.0450E	4,01
4,6	80	47	1	111.0460E	4,29
4,7	80	47	1	111.0470E	4,29
4,8	86	52	1	111.0480E	4,29
4,9	86	52	1	111.0490E	4,29
5,0	86	52	1	111.0500E	4,01
5,1	86	52	1	111.0510E	5,62
5,2	86	52	1	111.0520E	5,72
5,3	86	52	1	111.0530E	4,59
5,4	93	57	1	111.0540E	4,59
5,5	93	57	1	111.0550E	5,11
5,6	93	57	1	111.0560E	5,70
5,7	93	57	1	111.0570E	5,70
5,8	93	57	1	111.0580E	5,70

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
5,9	93	57	1	111.0590E	5,70
6,0	93	57	1	111.0600E	5,11
6,1	101	63	1	111.0610E	6,32
6,2	101	63	1	111.0620E	6,32
6,3	101	63	1	111.0630E	6,32
6,4	101	63	1	111.0640E	6,32
6,5	101	63	1	111.0650E	6,48
6,6	101	63	1	111.0660E	7,43
6,7	101	63	1	111.0670E	7,43
6,8	109	69	1	111.0680E	7,21
6,9	109	69	1	111.0690E	7,48
7,0	109	69	1	111.0700E	6,64
7,1	109	69	1	111.0710E	9,47
7,2	109	69	1	111.0720E	9,47
7,3	109	69	1	111.0730E	9,47
7,4	109	69	1	111.0740E	9,47
7,5	109	69	1	111.0750E	7,91
7,6	117	75	1	111.0760E	11,31
7,7	117	75	1	111.0770E	11,31
7,8	117	75	1	111.0780E	11,31
7,9	117	75	1	111.0790E	11,31
8,0	117	75	1	111.0800E	8,56
8,1	117	75	1	111.0810E	10,81
8,2	117	75	1	111.0820E	10,81
8,3	117	75	1	111.0830E	10,81
8,4	117	75	1	111.0840E	10,81
8,5	117	75	1	111.0850E	9,22
8,6	125	81	1	111.0860E	13,65
8,7	125	81	1	111.0870E	13,65
8,8	125	81	1	111.0880E	13,65
8,9	125	81	1	111.0890E	13,65
9,0	125	81	1	111.0900E	11,37
9,1	125	81	1	111.0910E	15,06
9,2	125	81	1	111.0920E	15,06
9,3	125	81	1	111.0930E	15,06
9,4	125	81	1	111.0940E	15,06
9,5	125	81	1	111.0950E	12,07
9,6	133	87	1	111.0960E	17,67
9,7	133	87	1	111.0970E	17,67
9,8	133	87	1	111.0980E	17,67
9,9	133	87	1	111.0990E	17,67
10,0	133	87	1	111.1000E	13,02
10,2	133	87	1	111.1020E	17,03
10,5	133	87	1	111.1050E	19,04
11,0	142	94	1	111.1100E	20,63
11,5	142	94	1	111.1150E	23,64
12,0	151	101	1	111.1200E	23,64
12,5	151	101	1	111.1250E	30,11
13,0	151	101	1	111.1300E	30,11

900

HSS-E Jobber drill bit set, SILVER-LINE, in PVC cassette

ROTEC®



Execution: HSS-E Jobber drill bit, DIN 338, ground flute, split-point according to DIN 1412-C, point angle 135°, type N-spiral.

Application: For drilling of difficult to cut materials such as high-tensile steel, stainless steel, CrNi-steel, Mn-steel etc.
Material groups : 1.1 - 1.4 / 2.1 - 2.2 / 3.1 - 3.3 / 4.1 - 4.11 / 5.3 - 5.4

Description	Type	Execution	Content	pcs/PU	Item no.	€ / PU
6 pc jobber drill bit set	111	Ground	ø2, 3, 4, 5, 6 and 8mm, 1 pc each	1	900.1030	23,40

HSS-E Jobber drill bit set, SILVER-LINE, in ABS cassette

ROTEC®



Execution: HSS-E Jobber drill bit, DIN 338, ground flute, split-point according to DIN 1412-C, point angle 135°, type N-spiral.

Application: For drilling of difficult to cut materials such as high-tensile steel, stainless steel, CrNi-steel, Mn-steel etc.
Material groups : 1.1 - 1.4 / 2.1 - 2.2 / 3.1 - 3.3 / 4.1 - 4.11 / 5.3 - 5.4

Description	Type	Execution	Content	pcs/PU	Item no.	€ / PU
19 pc jobber drill bit set	111	Ground	ø1 - 10 / 0,5mm increm. / 1 pc each	1	900.0023K	83,00
25 pc jobber drill bit set	111	Ground	ø1 - 13 / 0,5mm increm. / 1 pc each	1	900.0029K	177,13

HSS-E Jobber drill bit set, SILVER-LINE, in plastic case

ROTEC®



Execution: HSS-E Jobber drill bit, DIN 338, ground flute, split-point according to DIN 1412-C, point angle 135°, type N-spiral.

Application: For drilling of difficult to cut materials such as high-tensile steel, stainless steel, CrNi-steel, Mn-steel etc.
Material groups : 1.1 - 1.4 / 2.1 - 2.2 / 3.1 - 3.3 / 4.1 - 4.11 / 5.3 - 5.4

Description	Type	Execution	Content	pcs/PU	Item no.	€ / PU
170 pc jobber drill bit set	111	Ground	ø1 - 8 / 0,5mm increm. / 10 pcs each ø8,5 - 10 / 0,5mm increm. / 5 pcs each	1	900.0172K	503,50
202 pc jobber drill bit set	111	Ground	ø1 - 8 / 0,5mm increm. / 10 pcs each ø8,5 - 10 / 0,5mm increm. / 5 pcs each ø10,5 - 13 / 0,5mm increm. / 2 pcs each Pre-tap sizes ø3,3 and 4,2 / 10 pcs each	1	900.0232K	819,57

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HSS-E Jobber drill bit, TOP-X, GOLD-LINE



Splitpoint

Quick, simple and precise spot-drilling with little pressure required, without pre-centering, even on corrugated surfaces.

UNI-Spiral

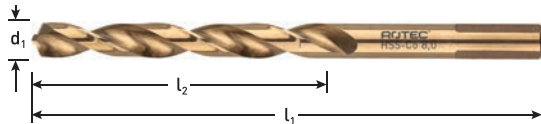
The normal sized core in combination with the 40°-helix spiral results in a very universal drill bit with excellent stability.

135° point angle

The 135° high performance cutting edge ensures a very high aligned preciseness, particularly when hand-operated with a cordless drilling machine. Due to reduced cutting forces, longer battery life.

3-flat shank

Excellent clamping in the drill chuck and optimal power transmission with little effort. Ideal for cordless drills!



Execution:

HSS-E Jobber drill bit, DIN 338, type N-spiral, ground flute, split-point according to DIN 1412-C, point angle 135° and cylindrical shank. From $\phi 4$ and up with 3 flats for optimal grip in the drill chuck. Very suitable for cordless drills. Quick and precise spot-drilling without centering, longer drilling with one battery due to reduced cutting forces, accurate and round holes, even in sheet materials.

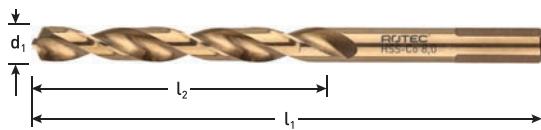
Application:

General-purpose use, for drilling of most common materials such as steel, alloyed steel and stainless steel with tensile strength up to 1.000 N/mm², cast-iron, etc. Material groups : 1.1 - 1.4 / 2.1 - 2.2 / 3.1 / 4.1 - 4.11 / 5.3 - 5.4

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
1,0	34	12	10	116.0100	28,50
1,5	40	18	10	116.0150	27,20
2,0	49	24	10	116.0200	27,70
2,5	57	30	10	116.0250	27,70
3,0	61	33	10	116.0300	27,20
3,3	65	36	10	116.0330	32,70
3,5	70	39	10	116.0350	33,10
4,0	75	43	10	116.0400	35,20
4,2	75	43	10	116.0420	37,30
4,5	80	47	10	116.0450	40,40
5,0	86	52	10	116.0500	42,60
5,5	86	52	10	116.0550	54,00
6,0	93	57	10	116.0600	57,10
6,5	101	63	10	116.0650	69,00

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
6,8	109	69	10	116.0680	75,50
7,0	109	69	10	116.0700	75,00
7,5	109	69	10	116.0750	80,20
8,0	117	75	10	116.0800	98,00
8,5	117	75	5	116.0850	50,85
9,0	125	81	5	116.0900	65,00
9,5	125	81	5	116.0950	67,35
10,0	133	87	5	116.1000	73,55
10,5	133	87	5	116.1050	104,35
11,0	142	94	5	116.1100	115,85
11,5	142	94	5	116.1150	138,50
12,0	151	101	5	116.1200	147,80
12,5	151	101	5	116.1250	180,45
13,0	151	101	5	116.1300	185,10

HSS-E Jobber drill bit, TOP-X, GOLD-LINE, in EV-pack



Execution:

HSS-E Jobber drill bit, DIN 338, type N-spiral, ground flute, split-point according to DIN 1412-C, point angle 135° and cylindrical shank. From $\phi 4$ and up with 3 flats for optimal grip in the drill chuck. Very suitable for cordless drills. Quick and precise spot-drilling without centering, longer drilling with one battery due to reduced cutting forces, accurate and round holes, even in sheet materials.

Application:

General-purpose use, for drilling of most common materials such as steel, alloyed steel and stainless steel with tensile strength up to 1.000 N/mm², cast-iron, etc. Material groups : 1.1 - 1.4 / 2.1 - 2.2 / 3.1 / 4.1 - 4.11 / 5.3 - 5.4

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
1,0	34	12	1	116.0100E	3,33
1,5	40	18	1	116.0150E	3,21
2,0	49	24	1	116.0200E	3,27
2,5	57	30	1	116.0250E	3,27
3,0	61	33	1	116.0300E	3,21
3,3	65	36	1	116.0330E	3,76
3,5	70	39	1	116.0350E	3,80
4,0	75	43	1	116.0400E	4,00
4,2	75	43	1	116.0420E	4,20
4,5	80	47	1	116.0450E	4,53
5,0	86	52	1	116.0500E	4,75
5,5	86	52	1	116.0550E	5,88
6,0	93	57	1	116.0600E	6,20
6,5	101	63	1	116.0650E	7,44

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
6,8	109	69	1	116.0680E	8,51
7,0	109	69	1	116.0700E	8,04
7,5	109	69	1	116.0750E	8,55
8,0	117	75	1	116.0800E	10,33
8,5	117	75	1	116.0850E	10,84
9,0	125	81	1	116.0900E	13,66
9,5	125	81	1	116.0950E	14,13
10,0	133	87	1	116.1000E	15,37
10,5	133	87	1	116.1050E	21,56
11,0	142	94	1	116.1100E	23,96
11,5	142	94	1	116.1150E	28,49
12,0	151	101	1	116.1200E	30,35
12,5	151	101	1	116.1250E	36,88
13,0	151	101	1	116.1300E	37,80

900

HSS-E Jobber drill bit set, TOP-X, GOLD-LINE, in PVC cassette

ROTEC®



Execution: HSS-E Jobber drill bit, DIN 338, type N-spiral, ground flute, split-point according to DIN 1412-C, point angle 135° and cylindrical shank. From ø4 and up with 3 flats for optimal grip in the drill chuck. Very suitable for cordless drills. Quick and precise spot-drilling without centering, longer drilling with one battery due to reduced cutting forces, accurate and round holes, even in sheet materials.

Application: General-purpose use, for drilling of most common materials such as steel, alloyed steel and stainless steel with tensile strength up to 1.000 N/mm², cast-iron, etc.
Material groups : 1.1 - 1.4 / 2.1 - 2.2 / 3.1 / 4.1 - 4.11 / 5.3 - 5.4

Description	Type	Execution	Content	pcs/PU	Item no.	€ / PU
6 pc jobber drill bit set	116	Ground	ø2, 3, 4, 5, 6 and 8mm, 1 pc each	1	900.1035	33,11

HSS-E Jobber drill bit set, TOP-X, GOLD-LINE, in ABS cassette

ROTEC®



Execution: HSS-E Jobber drill bit, DIN 338, type N-spiral, ground flute, split-point according to DIN 1412-C, point angle 135° and cylindrical shank. From ø4 and up with 3 flats for optimal grip in the drill chuck. Very suitable for cordless drills. Quick and precise spot-drilling without centering, longer drilling with one battery due to reduced cutting forces, accurate and round holes, even in sheet materials.

Application: General-purpose use, for drilling of most common materials such as steel, alloyed steel and stainless steel with tensile strength up to 1.000 N/mm², cast-iron, etc.
Material groups : 1.1 - 1.4 / 2.1 - 2.2 / 3.1 / 4.1 - 4.11 / 5.3 - 5.4

Description	Type	Execution	Content	pcs/PU	Item no.	€ / PU
19 pc jobber drill bit set	116	Ground	ø1 - 10 / 0,5mm increm. / 1 pc each	1	900.0064	114,37
25 pc jobber drill bit set	116	Ground	ø1 - 13 / 0,5mm increm. / 1 pc each	1	900.0065	239,57

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HSS-E Jobber drill bit, type TLS1000

ROTEC®



DIN 338 **HSS Co8%** **S** **130°** **TLS1000**

Execution: HSS-E Jobber drill bit, DIN 338, ground, tip angle 130°, type TLS1000. The TLS1000-spiral provides excellent chip-removal enabling deep-drilling operations (>5xD without pecking is possible). Special web thinning (DIN 1412-S) [DIN 1412-C < ø3,0] for optimized chip breaking, reduced axial load and lower torque. Very stable drill bit with excellent heat resistance.

Application: Very suitable for drilling non-alloyed and alloyed steels (tool steels, stainless steels etc.) as well as long chipping materials with tensile strengths up to 1.300N/mm².
Material groups : 1.1 - 1.5 / 2.2 - 2.3 / 3.1 - 3.3 / 4.2 - 4.5 / 4.7 / 4.11 - 4.12 / 5.1 - 5.4

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
1,0	34	12	10	112.0100	38,27
1,5	40	18	10	112.0150	43,95
2,0	49	24	10	112.0200	37,35
2,5	57	30	10	112.0250	37,35
3,0	61	33	10	112.0300	39,69
3,5	70	39	10	112.0350	42,02
4,0	75	43	10	112.0400	46,59
4,5	80	47	10	112.0450	55,11
5,0	86	52	10	112.0500	59,28
5,5	93	57	10	112.0550	70,24
6,0	93	57	10	112.0600	76,73
6,5	101	63	10	112.0650	83,94
7,0	109	69	10	112.0700	87,19

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
7,5	109	69	10	112.0750	105,05
8,0	117	75	10	112.0800	113,17
8,5	117	75	5	112.0850	63,34
9,0	125	81	5	112.0900	65,98
9,5	125	81	5	112.0950	81,91
10,0	133	87	5	112.1000	72,78
11,0	142	94	5	112.1100	126,88
11,5	142	94	5	112.1150	135,05
12,0	151	101	5	112.1200	160,78
12,5	151	101	5	112.1250	173,36
13,0	151	101	5	112.1300	194,52
20,0*	205	140	1	112.2000	195,29

* Phase-out item, available until stock has depleted

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HSS-E Jobber drill bit, type TLS1000, in EV-pack

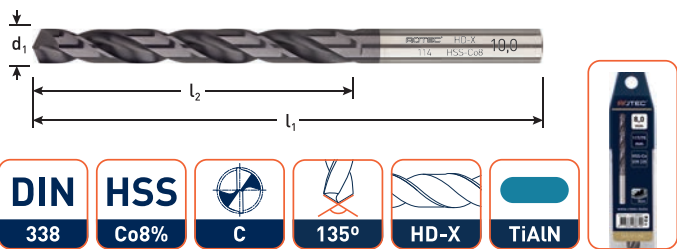


Execution: HSS-E Jobber drill bit, DIN 338, ground, tip angle 130°, type TLS1000. The TLS1000-spiral provides excellent chip-evacuation enabling deep-drilling operations (>5xD without pecking is possible). Special web thinning (DIN 1412-S) (DIN 1412-C < ø3,0) for optimized chip breaking, reduced axial load and lower torque. Very stable drill bit with excellent heat resistance.

Application: Very suitable for drilling non-alloyed and alloyed steels (tool steels, stainless steels etc.) as well as long chipping materials with tensile strengths up to 1.300N/mm².
Material groups : 1.1 - 1.5 / 2.2 - 2.3 / 3.1 - 3.3 / 4.2 - 4.5 / 4.7 / 4.11 - 4.12 / 5.1 - 5.4

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
1,0	34	12	1	112.0100E	4,33
1,1	36	14	1	112.0110E	4,90
1,2	38	16	1	112.0120E	4,90
1,3	38	16	1	112.0130E	4,90
1,4	40	18	1	112.0140E	4,90
1,5	40	18	1	112.0150E	4,90
1,6	43	20	1	112.0160E	4,57
1,7	43	20	1	112.0170E	4,57
1,8	46	22	1	112.0180E	4,57
1,9	46	22	1	112.0190E	4,57
2,0	49	24	1	112.0200E	4,24
2,1	49	24	1	112.0210E	4,71
2,2	53	27	1	112.0220E	4,71
2,3	53	27	1	112.0230E	4,71
2,4	57	30	1	112.0240E	4,79
2,5	57	30	1	112.0250E	4,24
2,6	57	30	1	112.0260E	4,79
2,7	61	33	1	112.0270E	5,05
2,8	61	33	1	112.0280E	5,05
2,9	61	33	1	112.0290E	5,17
3,0	61	33	1	112.0300E	4,48
3,1	65	36	1	112.0310E	5,24
3,2	65	36	1	112.0320E	5,17
3,3	65	36	1	112.0330E	5,24
3,4	70	39	1	112.0340E	5,71
3,5	70	39	1	112.0350E	4,71
3,6	70	39	1	112.0360E	5,82
3,7	70	39	1	112.0370E	6,02
3,8	75	43	1	112.0380E	6,06
3,9	75	43	1	112.0390E	6,35
4,0	75	43	1	112.0400E	5,17
4,1	75	43	1	112.0410E	6,35
4,2	75	43	1	112.0420E	5,82
4,3	80	47	1	112.0430E	6,50
4,4	80	47	1	112.0440E	6,50
4,5	80	47	1	112.0450E	6,02
4,6	80	47	1	112.0460E	6,85
4,7	80	47	1	112.0470E	6,85
4,8	86	52	1	112.0480E	6,85
4,9	86	52	1	112.0490E	7,03
5,0	86	52	1	112.0500E	6,44
5,1	86	52	1	112.0510E	7,03
5,2	86	52	1	112.0520E	7,27
5,3	86	52	1	112.0530E	7,27
5,4	93	57	1	112.0540E	7,75
5,5	93	57	1	112.0550E	7,53
5,6	93	57	1	112.0560E	8,14
5,7	93	57	1	112.0570E	8,14
5,8	93	57	1	112.0580E	8,14
5,9	93	57	1	112.0590E	8,23

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
6,0	93	57	1	112.0600E	8,18
6,1	101	63	1	112.0610E	8,54
6,2	101	63	1	112.0620E	9,00
6,3	101	63	1	112.0630E	9,54
6,4	101	63	1	112.0640E	10,00
6,5	101	63	1	112.0650E	8,90
6,6	101	63	1	112.0660E	10,23
6,7	101	63	1	112.0670E	10,23
6,8	109	69	1	112.0680E	10,47
6,9	109	69	1	112.0690E	10,89
7,0	109	69	1	112.0700E	9,23
7,1	109	69	1	112.0710E	14,05
7,2	109	69	1	112.0720E	14,05
7,3	109	69	1	112.0730E	14,05
7,4	109	69	1	112.0740E	14,05
7,5	109	69	1	112.0750E	11,01
7,6	117	75	1	112.0760E	15,39
7,7	117	75	1	112.0770E	15,39
7,8	117	75	1	112.0780E	15,39
7,9	117	75	1	112.0790E	15,39
8,0	117	75	1	112.0800E	11,82
8,1	117	75	1	112.0810E	16,89
8,2	117	75	1	112.0820E	17,21
8,3	117	75	1	112.0830E	20,62
8,4	117	75	1	112.0840E	20,62
8,5	117	75	1	112.0850E	13,17
8,6	125	81	1	112.0860E	20,62
8,7	125	81	1	112.0870E	21,13
8,8	125	81	1	112.0880E	21,13
8,9	125	81	1	112.0890E	21,13
9,0	125	81	1	112.0900E	13,70
9,1	125	81	1	112.0910E	22,50
9,2	125	81	1	112.0920E	23,67
9,3	125	81	1	112.0930E	23,67
9,4	125	81	1	112.0940E	23,67
9,5	125	81	1	112.0950E	16,89
9,6	133	87	1	112.0960E	25,20
9,7	133	87	1	112.0970E	27,21
9,8	133	87	1	112.0980E	27,21
9,9	133	87	1	112.0990E	27,21
10,0	133	87	1	112.1000E	15,06
10,2	133	87	1	112.1020E	25,88
10,5	133	87	1	112.1050E	24,19
10,8	142	94	1	112.1080E	36,86
11,0	142	94	1	112.1100E	25,88
11,5	142	94	1	112.1150E	27,52
12,0	151	101	1	112.1200E	32,66
12,5	151	101	1	112.1250E	35,18
12,8	151	101	1	112.1280E	63,93
13,0	151	101	1	112.1300E	39,41



Execution: High-Performance HSS-E jobber drill bit, DIN 338, ground flute, splitpoint according to DIN 1412-C, point angle 135°, type HD-X-spiral, TiAlN-TOP-coated. More wear-resistant, increased thermal stability and longer tool life due to newest TiAlN-TOP-coating.

Application: Applicable and performing excellently in a wide range of materials! Very well suited for use on CNC-machines on steels up to 1.400 N/mm², stainless steels, CrNi-steels, tool steels, etc.
Material groups : 1.1 - 1.6 / 2.2 - 2.3 / 3.1 - 3.3 / 4.3 / 4.5 / 4.7 / 4.11 - 4.12 / 5.1 - 5.4

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
1,0	34	12	1	114.0100C	9,37
1,1	36	14	1	114.0110C	9,37
1,2	38	16	1	114.0120C	9,37
1,3	38	16	1	114.0130C	9,12
1,4	40	18	1	114.0140C	9,02
1,5	40	18	1	114.0150C	8,60
1,6	43	20	1	114.0160C	8,42
1,7	43	20	1	114.0170C	8,42
1,8	46	22	1	114.0180C	8,01
1,9	46	22	1	114.0190C	8,05
2,0	49	24	1	114.0200C	7,57
2,1	49	24	1	114.0210C	8,05
2,2	53	27	1	114.0220C	8,18
2,3	53	27	1	114.0230C	8,18
2,4	57	30	1	114.0240C	8,23
2,5	57	30	1	114.0250C	8,23
2,6	57	30	1	114.0260C	8,42
2,7	61	33	1	114.0270C	8,42
2,8	61	33	1	114.0280C	8,42
2,9	61	33	1	114.0290C	8,42
3,0	61	33	1	114.0300C	7,84
3,1	65	36	1	114.0310C	8,60
3,2	65	36	1	114.0320C	8,60
3,3	65	36	1	114.0330C	8,66
3,4	70	39	1	114.0340C	8,60
3,5	70	39	1	114.0350C	8,23
3,6	70	39	1	114.0360C	9,02
3,7	70	39	1	114.0370C	9,12
3,8	75	43	1	114.0380C	9,37
3,9	75	43	1	114.0390C	9,53
4,0	75	43	1	114.0400C	8,42
4,1	75	43	1	114.0410C	9,92
4,2	75	43	1	114.0420C	9,23
4,3	80	47	1	114.0430C	9,96
4,4	80	47	1	114.0440C	9,96
4,5	80	47	1	114.0450C	9,53
4,6	80	47	1	114.0460C	9,96
4,7	80	47	1	114.0470C	10,00
4,8	86	52	1	114.0480C	10,10
4,9	86	52	1	114.0490C	10,37
5,0	86	52	1	114.0500C	9,37
5,1	86	52	1	114.0510C	10,42
5,2	86	52	1	114.0520C	10,56
5,3	86	52	1	114.0530C	10,56
5,4	93	57	1	114.0540C	11,46
5,5	93	57	1	114.0550C	11,21
5,6	93	57	1	114.0560C	11,46
5,7	93	57	1	114.0570C	11,60
5,8	93	57	1	114.0580C	11,79
5,9	93	57	1	114.0590C	11,91
6,0	93	57	1	114.0600C	11,21
6,1	101	63	1	114.0610C	13,25
6,2	101	63	1	114.0620C	13,25
6,3	101	63	1	114.0630C	13,25

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
6,4	101	63	1	114.0640C	13,84
6,5	101	63	1	114.0650C	13,40
6,6	101	63	1	114.0660C	17,09
6,7	101	63	1	114.0670C	17,24
6,8	109	69	1	114.0680C	18,81
6,9	109	69	1	114.0690C	18,81
7,0	109	69	1	114.0700C	17,95
7,1	109	69	1	114.0710C	18,97
7,2	109	69	1	114.0720C	19,42
7,3	109	69	1	114.0730C	19,42
7,4	109	69	1	114.0740C	19,68
7,5	109	69	1	114.0750C	18,81
7,6	117	75	1	114.0760C	20,38
7,7	117	75	1	114.0770C	20,38
7,8	117	75	1	114.0780C	20,52
7,9	117	75	1	114.0790C	20,73
8,0	117	75	1	114.0800C	18,81
8,1	117	75	1	114.0810C	21,61
8,2	117	75	1	114.0820C	22,17
8,3	117	75	1	114.0830C	23,19
8,4	117	75	1	114.0840C	23,19
8,5	117	75	1	114.0850C	22,76
8,6	125	81	1	114.0860C	24,65
8,7	125	81	1	114.0870C	24,65
8,8	125	81	1	114.0880C	25,07
8,9	125	81	1	114.0890C	25,69
9,0	125	81	1	114.0900C	24,06
9,1	125	81	1	114.0910C	25,69
9,2	125	81	1	114.0920C	25,69
9,3	125	81	1	114.0930C	25,96
9,4	125	81	1	114.0940C	25,96
9,5	125	81	1	114.0950C	25,96
9,6	133	87	1	114.0960C	27,68
9,7	133	87	1	114.0970C	27,68
9,8	133	87	1	114.0980C	29,24
9,9	133	87	1	114.0990C	29,24
10,0	133	87	1	114.1000C	26,98
10,2	133	87	1	114.1020C	33,63
10,5	133	87	1	114.1050C	34,33
11,0	142	94	1	114.1100C	37,24
11,5	142	94	1	114.1150C	40,86
12,0	151	101	1	114.1200C	44,50
12,5	151	101	1	114.1250C	50,12
13,0	151	101	1	114.1300C	53,73
13,5	160	108	1	114.1350C	62,66
14,0	160	108	1	114.1400C	67,73
14,5	169	114	1	114.1450C	71,34
15,0	169	114	1	114.1500C	76,37
16,0	178	120	1	114.1600C	90,98
17,0	184	125	1	114.1700C	106,87
18,0	191	130	1	114.1800C	127,46
19,0	198	135	1	114.1900C	147,57
20,0	205	140	1	114.2000C	166,39

118

TCT Jobber drill bit, carbide tipped



Execution: Tungsten carbide tipped (TCT) jobber drill bit, DIN 338, ground cutting edges, point angle 118°.

Application: Very suitable for drilling operations in high-tensile (tool) steels <1.400 N/mm² such as spring steel, hardened steels < 55HRc etc. For enlarging existing holes or to drill out remains from broken taps or bolts.
Material groups : 1.2 - 1.6 / 3.1 - 3.3 / 4.5 - 4.9 / 6.1 - 6.2

d_1	l_1	l_2	pcs/PU	Item no.	€ / PU
2,0	49	24	1	118.0200	21,80
2,1	49	24	1	118.0210	21,80
2,2	53	27	1	118.0220	21,80
2,3	53	27	1	118.0230	21,80
2,4	57	30	1	118.0240	21,80
2,5	57	30	1	118.0250	21,80
2,6	57	30	1	118.0260	21,80
2,7	61	33	1	118.0270	21,80
2,8	61	33	1	118.0280	21,80
2,9	61	33	1	118.0290	21,80
3,0	61	33	1	118.0300	20,02
3,1	65	36	1	118.0310	21,80
3,2	65	36	1	118.0320	21,80
3,3	65	36	1	118.0330	21,80
3,4	70	39	1	118.0340	21,80
3,5	70	39	1	118.0350	20,46
3,6	70	39	1	118.0360	21,80
3,7	70	39	1	118.0370	21,80
3,8	75	43	1	118.0380	21,80
3,9	75	43	1	118.0390	21,80
4,0	75	43	1	118.0400	19,59
4,1	75	43	1	118.0410	21,80
4,2	75	43	1	118.0420	21,80
4,3	80	47	1	118.0430	21,80
4,4	80	47	1	118.0440	21,80
4,5	80	47	1	118.0450	20,02
4,6	80	47	1	118.0460	21,80
4,7	80	47	1	118.0470	21,80
4,8	86	52	1	118.0480	21,80
4,9	86	52	1	118.0490	21,80
5,0	86	52	1	118.0500	19,59
5,1	86	52	1	118.0510	23,67
5,2	86	52	1	118.0520	23,67
5,3	86	52	1	118.0530	23,67
5,4	93	57	1	118.0540	23,67
5,5	93	57	1	118.0550	20,89
5,6	93	57	1	118.0560	24,05
5,7	93	57	1	118.0570	24,05
5,8	93	57	1	118.0580	24,05
5,9	93	57	1	118.0590	24,05
6,0	93	57	1	118.0600	22,23
6,1	101	63	1	118.0610	24,47
6,2	101	63	1	118.0620	24,47
6,3	101	63	1	118.0630	24,47
6,4	101	63	1	118.0640	24,47
6,5	101	63	1	118.0650	22,69
6,6	101	63	1	118.0660	27,12
6,7	101	63	1	118.0670	27,12
6,8	109	69	1	118.0680	27,12
6,9	109	69	1	118.0690	27,12
7,0	109	69	1	118.0700	25,46
7,1	109	69	1	118.0710	28,50
7,2	109	69	1	118.0720	28,50
7,3	109	69	1	118.0730	28,50
7,4	109	69	1	118.0740	28,50
7,5	109	69	1	118.0750	26,68

d_1	l_1	l_2	pcs/PU	Item no.	€ / PU
7,6	117	75	1	118.0760	30,35
7,7	117	75	1	118.0770	30,35
7,8	117	75	1	118.0780	30,35
7,9	117	75	1	118.0790	30,35
8,0	117	75	1	118.0800	28,50
8,1	117	75	1	118.0810	31,15
8,2	117	75	1	118.0820	31,15
8,3	117	75	1	118.0830	31,15
8,4	117	75	1	118.0840	31,15
8,5	117	75	1	118.0850	29,90
8,6	125	81	1	118.0860	34,36
8,7	125	81	1	118.0870	34,36
8,8	125	81	1	118.0880	34,36
8,9	125	81	1	118.0890	34,36
9,0	125	81	1	118.0900	32,95
9,1	125	81	1	118.0910	37,80
9,2	125	81	1	118.0920	37,80
9,3	125	81	1	118.0930	37,80
9,4	125	81	1	118.0940	37,80
9,5	125	81	1	118.0950	37,03
9,6	133	87	1	118.0960	40,48
9,7	133	87	1	118.0970	40,48
9,8	133	87	1	118.0980	40,48
9,9	133	87	1	118.0990	40,48
10,0	133	87	1	118.1000	38,28
10,1	133	87	1	118.1010	46,17
10,2	133	87	1	118.1020	46,17
10,3	133	87	1	118.1030	46,17
10,4	133	87	1	118.1040	46,17
10,5	133	87	1	118.1050	43,93
10,7	142	94	1	118.1070	48,94
10,8	142	94	1	118.1080	48,94
11,0	142	94	1	118.1100	47,05
11,5	142	94	1	118.1150	50,37
11,6	142	94	1	118.1160	58,39
12,0	151	101	1	118.1200	54,82
12,1	151	101	1	118.1210	64,27
12,2	151	101	1	118.1220	64,27
12,3	151	101	1	118.1230	64,27
12,4	151	101	1	118.1240	64,27
12,5	151	101	1	118.1250	60,38
13,0	151	101	1	118.1300	65,62
13,5	160	108	1	118.1350	71,50
14,0	160	108	1	118.1400	73,41
14,5	169	114	1	118.1450	80,65
15,0	169	114	1	118.1500	90,41
15,5	178	120	1	118.1550	101,52
16,0	178	120	1	118.1600	105,66
16,5	184	125	1	118.1650	132,12
17,0	184	125	1	118.1700	136,25
17,5	191	130	1	118.1750	148,81
18,0	191	130	1	118.1800	148,81
18,5	198	135	1	118.1850	171,04
19,0	198	135	1	118.1900	171,04
19,5	205	140	1	118.1950	194,65
20,0	205	140	1	118.2000	194,65



Execution: HSS-G Stub drill bit, DIN 1897, ground flute, split-point (DIN 1412-C), point angle 135°, type N-spiral.

Application: General-purpose use on most common materials such as sheet metal, steel and cast iron with tensile strength < 1.000 N/mm². Material groups : 1.1 - 1.4 / 2.1 - 2.2 / 3.1 / 4.1 - 4.11 / 5.3 - 5.4

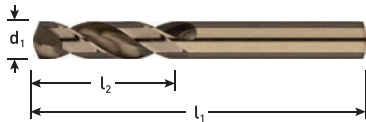
d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
1,3*	30	8	10	130.0130	39,18
2,0	38	12	10	130.0200	5,50
2,5	43	14	10	130.0250	6,10
2,6*	43	14	10	130.0260	9,50
2,7*	46	16	10	130.0270	9,50
2,9*	46	16	10	130.0290	9,50
3,0	46	16	10	130.0300	10,50
3,2	49	18	10	130.0320	12,20
3,3	49	18	10	130.0330	12,20
3,5	52	20	10	130.0350	12,20
3,6*	52	20	10	130.0360	13,40
3,7*	52	20	10	130.0370	12,20
3,8*	55	22	10	130.0380	12,20
3,9*	55	22	10	130.0390	13,40
4,0	55	22	10	130.0400	12,20
4,1	55	22	10	130.0410	14,90
4,2	55	22	10	130.0420	14,90
4,3*	58	24	10	130.0430	17,80
4,4*	58	24	10	130.0440	18,60
4,5	58	24	10	130.0450	15,50
4,6*	58	24	10	130.0460	20,50
4,7*	58	24	10	130.0470	20,50
4,9	62	26	10	130.0490	18,60

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
5,0	62	26	10	130.0500	18,60
5,1*	62	26	10	130.0510	23,90
5,3*	62	26	10	130.0530	28,93
5,5	66	28	10	130.0550	23,90
5,6*	66	28	10	130.0560	30,00
5,7*	66	28	10	130.0570	26,60
5,8*	66	28	10	130.0580	30,00
6,0	66	28	10	130.0600	26,60
6,5	70	31	10	130.0650	30,00
7,0	74	34	10	130.0700	35,40
7,5	74	34	10	130.0750	43,20
8,0	79	37	10	130.0800	53,80
8,5	79	37	10	130.0850	57,10
9,0	84	40	10	130.0900	71,00
9,5	84	40	10	130.0950	77,70
10,0	89	43	10	130.1000	85,80
10,5	89	43	5	130.1050	54,00
11,0	95	47	5	130.1100	51,80
11,5	95	47	5	130.1150	58,65
12,0	102	51	5	130.1200	67,95
12,5	102	51	5	130.1250	78,90
13,0	102	51	5	130.1300	90,55

* Phase-out item, available until stock has depleted

132

HSS-E Stub drill bit, SILVER-LINE



Execution: HSS-E stub drill bits, DIN 1897, ground flute, split-point according to DIN 1412-C, point angle 135°, type N-spiral.

Application: For drilling of difficult to cut materials such as high-tensile steel, stainless steel, Cr-Ni steel, manganese steel etc.

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
2,0	38	12	10	132.0200	34,60
2,5	43	14	10	132.0250	31,20
2,8	46	16	10	132.0280	36,30
3,0	46	16	10	132.0300	31,20
3,1	49	18	10	132.0310	33,00
3,2	49	18	10	132.0320	33,00
3,3	49	18	10	132.0330	33,00
3,4	52	20	10	132.0340	40,70
3,5	52	20	10	132.0350	33,00
3,6	52	20	10	132.0360	40,70
3,7	52	20	10	132.0370	40,70
3,8	55	22	10	132.0380	40,70
3,9	55	22	10	132.0390	40,70
4,0	55	22	10	132.0400	36,80
4,1	55	22	10	132.0410	43,60
4,2	55	22	10	132.0420	43,60
4,5	58	24	10	132.0450	43,60
4,6	58	24	10	132.0460	52,70
4,8	62	26	10	132.0480	52,70
4,9	62	26	10	132.0490	52,70

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
5,0	62	26	10	132.0500	48,80
5,1	62	26	10	132.0510	59,40
5,2	62	26	10	132.0520	59,40
5,5	66	28	10	132.0550	54,20
5,6	66	28	10	132.0560	62,90
5,7	66	28	10	132.0570	62,90
5,8	66	28	10	132.0580	62,90
5,9	66	28	10	132.0590	62,90
6,0	66	28	10	132.0600	61,70
6,5	70	31	10	132.0650	73,70
6,8	74	34	10	132.0680	103,10
7,0	74	34	10	132.0700	84,80
7,5	74	34	10	132.0750	109,30
8,0	79	37	10	132.0800	106,40
8,5	79	37	10	132.0850	125,80
9,0	84	40	10	132.0900	137,90
9,5	84	40	10	132.0950	155,00
10,0	89	43	10	132.1000	172,80
10,5	89	43	1	132.1050	18,79

137C

HSS-E Stub drill bit, type HD-X, TiAlN-TOP, GOLD-LINE, in EV-pack



Execution: High-Performance HSS-E stub drill bit, DIN 1897, ground flute, split-point according to DIN 1412-C, point angle 135°, type HD-X-spiral, TiAlN-TOP-coated. More wear-resistant, increased thermal stability and longer tool life due to newest TiAlN-TOP-coating.

Application: Excellent performance in a wide range of materials! Very well suited for use on CNC-machines on steels up to 1.400 N/mm², stainless steels, CrNi-steels, tool steels, etc.
Material groups : 1.1 - 1.6 / 2.1 - 2.3 / 3.1 - 3.3 / 4.2 - 4.3 / 4.6 - 4.9 / 5.1 - 5.4

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
1,0	26	6	1	137.0100C	9,49
1,2	30	8	1	137.0120C	9,82
1,5	32	9	1	137.0150C	8,83
1,6	34	10	1	137.0160C	9,43
1,8	36	11	1	137.0180C	9,60
1,9	36	11	1	137.0190C	9,39
2,0	38	12	1	137.0200C	7,75
2,3	40	13	1	137.0230C	9,39
2,5	43	14	1	137.0250C	8,29
2,6	40	13	1	137.0260C	9,43
2,7	46	16	1	137.0270C	9,43
2,8	46	16	1	137.0280C	9,43
3,0	46	16	1	137.0300C	8,29
3,2	49	18	1	137.0320C	9,03
3,3	49	18	1	137.0330C	9,39
3,4	52	20	1	137.0340C	10,45
3,5	52	20	1	137.0350C	8,65
3,7	52	20	1	137.0370C	10,45
3,9	55	22	1	137.0390C	10,45
4,0	55	22	1	137.0400C	8,94
4,1	55	22	1	137.0410C	9,64
4,2	55	22	1	137.0420C	9,60
4,3	58	24	1	137.0430C	12,38
4,5	58	24	1	137.0450C	9,64
4,7	58	24	1	137.0470C	12,81
4,8	62	26	1	137.0480C	12,81

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
5,0	62	26	1	137.0500C	10,08
5,1	62	26	1	137.0510C	12,81
5,5	66	28	1	137.0550C	11,79
5,6	66	28	1	137.0560C	13,92
5,8	66	28	1	137.0580C	13,92
6,0	66	28	1	137.0600C	11,79
6,5	70	31	1	137.0650C	13,98
6,8	74	34	1	137.0680C	21,38
6,9	74	34	1	137.0690C	22,34
7,0	74	34	1	137.0700C	18,64
7,5	74	34	1	137.0750C	19,66
8,0	79	37	1	137.0800C	20,19
8,3	79	37	1	137.0830C	30,27
8,5	79	37	1	137.0850C	25,72
8,6	84	40	1	137.0860C	31,03
9,0	84	40	1	137.0900C	24,58
9,5	84	40	1	137.0950C	34,60
10,0	89	43	1	137.1000C	27,59
10,2	89	43	1	137.1020C	44,10
10,5	89	43	1	137.1050C	45,49
11,0	95	47	1	137.1100C	45,49
11,5	95	47	1	137.1150C	46,92
12,0	102	51	1	137.1200C	54,80
12,5	102	51	1	137.1250C	59,69
13,0	102	51	1	137.1300C	61,83

134

TCT Stub drill bit, carbide tipped



Execution: Tungsten carbide tipped (TCT) stub drill bit, DIN 8037, ground cutting edges, point angle 118°.

Application: Very suitable for drilling operations in high-tensile (tool) steels <1.400 N/mm² such as spring steel, hardened steels < 55HRc etc. For enlarging existing holes or to drill out remains from broken taps or bolts.
Material groups : 1.2 - 1.6 / 3.1 - 3.3 / 4.5 - 4.9 / 6.1 - 6.2

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
3,0	50	20	1	134.0300	20,89
3,3	56	25	1	134.0330	23,10
3,5	56	25	1	134.0350	21,45
4,0	56	25	1	134.0400	20,46
4,2	63	28	1	134.0420	23,10
4,5	63	28	1	134.0450	20,46
5,0	63	28	1	134.0500	20,46
5,2	71	32	1	134.0520	24,91
5,5	71	32	1	134.0550	22,23
6,0	71	32	1	134.0600	23,10
6,5	71	32	1	134.0650	23,67
6,8	80	40	1	134.0680	28,50

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
7,0	80	40	1	134.0700	26,68
7,5	80	40	1	134.0750	28,12
8,0	80	40	1	134.0800	29,90
8,5	90	50	1	134.0850	31,15
9,0	90	50	1	134.0900	34,36
9,5	90	50	1	134.0950	38,81
10,0	100	56	1	134.1000	40,05
10,2	100	56	1	134.1020	48,71
10,5	100	56	1	134.1050	46,17
12,0	112	63	1	134.1200	57,59
13,0	112	63	1	134.1300	68,72

427

HSS-E Spot weld drill bit, in EV-pack



Execution: HSS-E spot weld drill bits, cylindrical shank, very robust design. Specifically designed for drilling spot welds and other difficult drilling applications on sheet materials with (cordless) portable drills.

Application: Burr-free drilling on sheet materials (steel, brass, aluminium, zinc, copper and plastics) without spotting, removal of spot-welds.
Material groups : 1.1 - 1.4 / 2.1 - 2.2 / 4.1 - 4.12

d ₁	l ₁	Material	pcs/PU	Item no.	€ / PU
6	66	HSS-E	1	427.0600	10,81
6,5	40	HSS-E	1	427.0651	27,57
8	79	HSS-E	1	427.0800	11,52
8	40	HSS-E	1	427.0801	14,35

HSS-E Spot weld drill bit, coated (TiAlN), in EV-pack



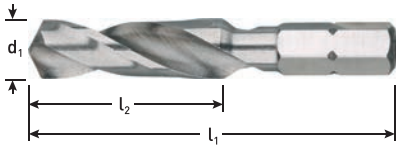
Execution: HSS-E spot weld drill bits, cylindrical shank, very robust design. Specifically designed for drilling spot welds and other difficult drilling applications on sheet materials with (cordless) portable drills.

Application: Burr-free drilling on sheet materials (steel, brass, aluminium, zinc, copper and plastics) without spotting, removal of spot-welds.
Material groups : 1.1 - 1.4 / 2.1 - 2.2 / 4.1 - 4.12

d ₁	l ₁	Material	pcs/PU	Item no.	€ / PU
8	79	HSS-E	1	427.0800T	24,18

140

Stub drill bit, HSS-G, 1/4" C6.3 bit shank



Execution: HSS-G Drill bit, ground flute, hexagonal shank (1/4") according to DIN 3126-C6.3 (ISO 1173).

Application: For general-purpose drilling applications in (non-ferrous) metals, plastics and wood with portable (cordless) drills.

d ₁	Suitable for	l ₁	l ₂	pcs/PU	Item no.	€ / PU
1,0		32	7	1	140.0100	8,09
1,5		32	10	1	140.0150	8,09
2,0		34	12	1	140.0200	8,09
2,5	M3	36	14	1	140.0250	8,09
3,0		38	16	1	140.0300	8,09
3,3	M4	40	18	1	140.0330	8,09
3,5		40	18	1	140.0350	8,09
4,0		44	20	1	140.0400	8,09
4,2	M5	45	20	1	140.0420	8,09
4,5		46	24	1	140.0450	8,09
5,0	M6	50	26	1	140.0500	8,09
5,5		50	26	1	140.0550	8,38

d ₁	Suitable for	l ₁	l ₂	pcs/PU	Item no.	€ / PU
6,0		50	26	1	140.0600	8,38
6,5		50	30	1	140.0650	8,38
6,8	M8	50	30	1	140.0680	8,38
7,0		50	30	1	140.0700	8,38
7,5		51	32	1	140.0750	9,84
8,0		51	32	1	140.0800	9,84
8,5	M10	53	33	1	140.0850	11,28
9,0		53	33	1	140.0900	11,28
9,5		54	38	1	140.0950	12,72
10,0		54	38	1	140.1000	12,72
10,2	M12	54	38	1	140.1020	12,72

900

Stub drill bit set, HSS-G, 1/4" C6.3 bit shank



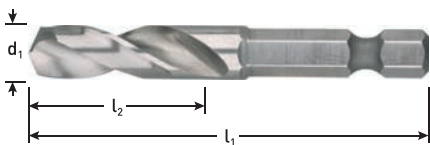
Execution: HSS-G Drill bit, ground flute, hexagonal shank (1/4") according to DIN 3126-C6.3 (ISO 1173).

Application: For general-purpose drilling applications in (non-ferrous) metals, plastics and wood with portable (cordless) drills.

Description	Type	Execution	Content	pcs/PU	Item no.	€ / PU
19 pc drill bit set	140	HSS-G	ø1 - 10 / 0,5mm increm. / 1 pc each	1	900.2037	131,74

141

Stub drill bit, HSS-G, 1/4" E6.3 bit shank, in EV-pack

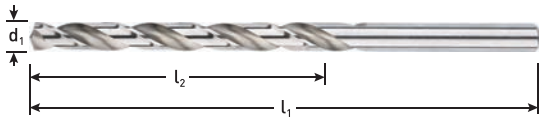


Execution: HSS-G Drill bit, ground flute, point angle 135°, hexagonal shank (1/4") according to DIN 3126-E6.3 (ISO 1173).

Application: For general-purpose drilling applications in metals, non-ferrous metals, plastics and wood with portable (cordless) drills.

d ₁	Suitable for	l ₁	l ₂	pcs/PU	Item no.	€ / PU
1,0		45	14	1	141.0100	6,79
1,5		45	14	1	141.0150	6,79
2,0		47	16	1	141.0200	6,55
2,5		47	16	1	141.0250	5,93
3,0		47	16	1	141.0300	5,93
3,2		47	16	1	141.0320	5,93
3,3	M4	47	16	1	141.0330	5,93
3,5		47	16	1	141.0350	5,93
4,0		53	20	1	141.0400	5,93
4,2	M5	53	20	1	141.0420	5,93
4,5		53	20	1	141.0450	5,93

d ₁	Suitable for	l ₁	l ₂	pcs/PU	Item no.	€ / PU
5,0	M6	59	26	1	141.0500	5,93
5,5		59	26	1	141.0550	5,93
6,0		59	26	1	141.0600	5,93
6,5		59	26	1	141.0650	5,93
7,0		59	30	1	141.0700	6,81
7,5		60	32	1	141.0750	6,81
8,0		60	32	1	141.0800	6,81
8,5		83	45	1	141.0850	6,81
9,0		83	45	1	141.0900	6,81
9,5		83	45	1	141.0950	7,12
10,0		87	50	1	141.1000	7,12



Execution: HSS-G Drill bit, DIN 340, ground flute, split-point (DIN 1412-C), point angle 135°, type N-spiral, bright finish.

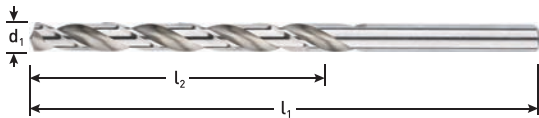
Application: General-purpose use, for drilling of most common materials such as steel and alloyed steel with tensile strength up to 1.000 N/mm², cast-iron, etc.
Material groups : 1.1 - 1.4 / 2.1 - 2.2 / 3.1 / 4.1 - 4.11 / 5.3 - 5.4

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
1,0	56	33	10	150.0100	12,70
1,5	70	45	10	150.0150	14,00
2,0	85	56	10	150.0200	14,70
2,5	95	62	10	150.0250	15,30
2,7*	100	66	10	150.0270	22,80
3,0	100	66	10	150.0300	18,10
3,1	106	69	10	150.0310	20,70
3,2	106	69	10	150.0320	20,70
3,3	106	69	10	150.0330	20,70
3,5	112	73	10	150.0350	20,70
3,6	112	73	10	150.0360	39,80
3,8	119	78	10	150.0380	23,50
3,9*	119	78	10	150.0390	23,50
4,0	119	78	10	150.0400	23,50
4,1	119	78	10	150.0410	27,30
4,2	119	78	10	150.0420	27,30
4,5	126	82	10	150.0450	27,30
4,8	132	87	10	150.0480	28,90
5,0	132	87	10	150.0500	28,90
5,2	132	87	10	150.0520	38,00

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
5,5	139	91	10	150.0550	38,00
6,0	139	91	10	150.0600	42,00
6,2	148	97	10	150.0620	46,70
6,5	148	97	10	150.0650	46,70
6,8	156	102	10	150.0680	55,50
7,0	156	102	10	150.0700	50,00
7,5	156	102	10	150.0750	65,90
8,0	165	109	5	150.0800	37,90
8,5	165	109	5	150.0850	45,10
9,0	175	115	5	150.0900	53,40
9,5	175	115	5	150.0950	58,45
10,0	184	121	5	150.1000	64,35
10,2	184	121	5	150.1020	66,75
10,5	184	121	5	150.1050	66,75
11,0	195	128	5	150.1100	77,50
11,5	195	128	5	150.1150	84,55
12,0	205	134	5	150.1200	107,55
12,5	205	134	5	150.1250	105,15
13,0	205	134	5	150.1300	125,50
14,0	214	140	1	150.1400	24,77

* Phase-out item, available until stock has depleted

HSS-G Drill bit, long, SILVER-LINE, in EV-pack



Execution: HSS-G Drill bit, DIN 340, ground flute, split-point (DIN 1412-C), point angle 135°, type N-spiral, bright finish.

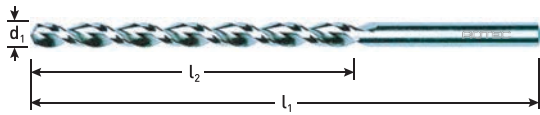
Application: General-purpose use, for drilling of most common materials such as steel and alloyed steel with tensile strength up to 1.000 N/mm², cast-iron, etc.
Material groups : 1.1 - 1.4 / 2.1 - 2.2 / 3.1 / 4.1 - 4.11 / 5.3 - 5.4

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
1,0	56	33	1	150.0100E	1,72
1,5	70	45	1	150.0150E	1,85
2,0	85	56	1	150.0200E	2,01
2,5	95	62	1	150.0250E	2,07
3,0	100	66	1	150.0300E	2,34
3,2	106	69	1	150.0320E	2,60
3,3	106	69	1	150.0330E	2,53
3,5	112	73	1	150.0350E	2,60
4,0	119	78	1	150.0400E	2,89
4,2	119	78	1	150.0420E	3,19
4,5	126	82	1	150.0450E	3,26
5,0	132	87	1	150.0500E	3,42
5,5	139	91	1	150.0550E	4,34
6,0	139	91	1	150.0600E	4,74
6,5	148	97	1	150.0650E	5,21

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
6,8	156	102	1	150.0680E	5,70
7,0	156	102	1	150.0700E	5,59
7,5	156	102	1	150.0750E	7,18
8,0	165	109	1	150.0800E	8,17
8,5	165	109	1	150.0850E	9,61
9,0	175	115	1	150.0900E	11,32
9,5	175	115	1	150.0950E	12,33
10,0	184	121	1	150.1000E	13,53
10,5	184	121	1	150.1050E	13,99
11,0	195	128	1	150.1100E	16,15
11,5	195	128	1	150.1150E	17,55
12,0	205	134	1	150.1200E	22,16
12,5	205	134	1	150.1250E	21,67
13,0	205	134	1	150.1300E	25,75

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HSS-G Drill bit, long, type TLS500



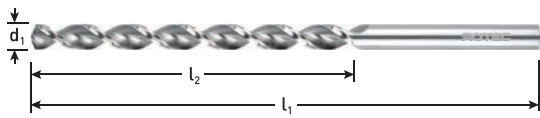
d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
1,0	56	33	10	151.0100	88,20
1,5	70	45	10	151.0150	79,17
2,0	85	56	10	151.0200	58,16
2,5	95	62	10	151.0250	62,52
3,0	100	66	10	151.0300	65,57
3,5	112	73	10	151.0350	75,01
4,0	119	78	10	151.0400	81,30
4,5	126	82	10	151.0450	99,27
5,0	132	87	10	151.0500	95,51
5,5	139	91	10	151.0550	121,90
6,0	139	91	10	151.0600	125,86
6,5	148	97	10	151.0650	142,91
7,0	156	102	10	151.0700	171,94

Execution: HSS-G Drill bit, DIN 340, long, ground flute, split-point (DIN 1412-C), point angle 130°, type TLS500-spiral, bright finish. The TLS500-spiral provides excellent chip-evacuation enabling deep-drilling operations of 5xD or more without pecking.

Application: For drilling soft and long-chipping materials with a tensile strength up to 500 N/mm² like, aluminium, aluminium alloys, copper, zinc, plastic, etc.
Material groups : 1.1 - 1.2 / 4.1 - 4.2 / 4.4 / 4.12

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
7,5	156	102	10	151.0750	206,15
8,0	165	109	10	151.0800	191,84
8,5	165	109	5	151.0850	127,13
9,0	175	115	5	151.0900	119,92
9,5	175	115	5	151.0950	178,23
10,0	184	121	5	151.1000	137,58
10,5	184	121	1	151.1050	53,15
11,0	195	128	1	151.1100	43,77
11,5	195	128	1	151.1150	70,88
12,0	205	134	1	151.1200	54,20
12,5	205	134	1	151.1250	55,25
13,0	205	134	1	151.1300	61,52

HSS-G Drill bit, long, type TLS500, in EV-pack



d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
1,0	56	33	1	151.0100E	9,33
1,5	70	45	1	151.0150E	8,42
2,0	85	56	1	151.0200E	6,32
2,5	95	62	1	151.0250E	6,76
3,0	100	66	1	151.0300E	7,06
3,5	112	73	1	151.0350E	8,01
4,0	119	78	1	151.0400E	8,64
4,5	126	82	1	151.0450E	10,43
5,0	132	87	1	151.0500E	10,06
5,5	139	91	1	151.0550E	12,70

Execution: HSS-G Drill bit, DIN 340, long, ground flute, split-point (DIN 1412-C), point angle 130°, type TLS500-spiral, bright finish. The TLS500-spiral provides excellent chip-evacuation enabling deep-drilling operations of 5xD or more without pecking.

Application: For drilling soft and long-chipping materials with a tensile strength up to 500 N/mm² like, aluminium, aluminium alloys, copper, zinc, plastic, etc.
Material groups : 1.1 - 1.2 / 4.1 - 4.2 / 4.4 / 4.12

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
6,0	139	91	1	151.0600E	13,09
6,5	148	97	1	151.0650E	14,80
7,0	156	102	1	151.0700E	17,70
7,5	156	102	1	151.0750E	21,12
8,0	165	109	1	151.0800E	19,69
8,5	165	109	1	151.0850E	25,93
9,0	175	115	1	151.0900E	24,49
9,5	175	115	1	151.0950E	36,15
10,0	184	121	1	151.1000E	28,02



Execution: Tungsten carbide tipped (TCT) drill bit, DIN 340, long, ground cutting edges, point angle 118°.

Application: Very suitable for drilling operations in high-tensile [tool] steels <1.400 N/mm² such as spring steel, hardened steels < 55HRC etc. For enlarging existing holes or to drill out remains from broken taps or bolts.
Material groups : 1.2 - 1.6 / 3.1 - 3.3 / 4.5 - 4.9 / 6.1 - 6.2

d_1	l_1	l_2	pcs/PU	Item no.	€ / PU
2,0	85	56	1	153.0200	42,14
2,5	95	62	1	153.0250	42,14
3,0	100	66	1	153.0300	35,92
3,5	112	73	1	153.0350	35,92
4,0	119	78	1	153.0400	31,69
4,5	126	82	1	153.0450	31,69
5,0	132	87	1	153.0500	41,16
5,5	139	91	1	153.0550	42,14
6,0	139	91	1	153.0600	43,93

d_1	l_1	l_2	pcs/PU	Item no.	€ / PU
6,5	148	97	1	153.0650	47,28
7,0	156	102	1	153.0700	47,28
7,5	156	102	1	153.0750	54,82
8,0	165	109	1	153.0800	54,82
8,5	165	109	1	153.0850	57,71
9,0	175	115	1	153.0900	57,71
9,5	175	115	1	153.0950	61,84
10,0	184	121	1	153.1000	63,84

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HSS-G Roofing drill bit



Execution: HSS-G Roofing drill bit, ground flute, split-point (DIN 1412-C), point angle 118°, long shank, steam tempered.

Application: For drilling roof and wall materials.



d_1	l_1	l_2	pcs/PU	Item no.	€ / PU
4,2	135	30	10	155.0421	104,75
4,9	135	30	10	155.0491	104,75
5,0	150	30	10	155.0501	194,58
5,0	260	30	10	155.0505	160,37
5,1	135	30	10	155.0511	83,13
5,1	150	30	10	155.0512	104,85
5,2 *	135	30	10	155.0520	83,13
5,2 *	150	30	10	155.0521	160,37
5,2	180	30	10	155.0522	181,79
5,3	180	30	10	155.0533	123,53
5,5	180	30	10	155.0552	185,34
5,7 *	100	30	10	155.0570	113,17

d_1	l_1	l_2	pcs/PU	Item no.	€ / PU
5,7 *	135	30	10	155.0571	93,58
5,7	150	30	10	155.0572	79,27
5,7	180	30	10	155.0573	96,12
5,7	210	30	10	155.0574	114,90
5,7	300	30	10	155.0576	271,11
5,8	100	30	10	155.0580	94,29
5,8	135	30	10	155.0581	94,29
5,8	150	30	10	155.0582	94,29
5,8	180	30	10	155.0583	110,64
5,8	210	30	10	155.0584	117,54
5,8	250	30	10	155.0585	142,30
5,8	300	30	10	155.0586	247,15

* Phase-out item, available until stock has depleted

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HSS-G Drill bit, type N, extra long



DIN 1869 **HSS G** **118°** **N**

Execution: HSS-G Drill bit, DIN 1869, extra long, ground flute, point angle 118°, type N-spiral, steam tempered.

Application: General-purpose drill, to drill steels with tensile strength up to 1.000 N/mm², cast steel, grey cast iron, malleable cast iron, nickel brass and graphite. Take care to conform to cutting speeds, frequent pecking and sufficient lubrication.
Material groups : 1.1 - 1.4 / 3.1 - 3.3

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
1,5	150	100	1	160.0151	32,70
2,0	125	85	1	160.0201	11,31
2,5	140	95	1	160.0251	11,66
3,0	150	100	1	160.0301	12,97
3,0	190	130	1	160.0302	17,18
3,2	155	105	1	160.0321	16,27
3,2	200	135	1	160.0322	30,91
3,5	165	115	1	160.0351	12,97
3,5	210	145	1	160.0352	18,78
4,0	175	120	1	160.0401	14,06
4,0	220	150	1	160.0402	19,47
4,0	280	190	1	160.0403	26,33
4,2	175	120	1	160.0421	19,69
4,2	220	150	1	160.0422	26,99
4,2	280	190	1	160.0423	30,04
4,5	185	125	1	160.0451	15,85
4,5	235	160	1	160.0452	22,71
4,5	295	200	1	160.0453	33,42
5,0	195	135	1	160.0501	16,24
5,0	245	170	1	160.0502	22,36
5,0	315	210	1	160.0503	31,83
5,2	195	135	1	160.0521	23,86
5,5	205	140	1	160.0551	18,76
5,5	260	180	1	160.0552	27,24
5,5	330	225	1	160.0553	35,83
6,0	205	140	1	160.0601	19,47
6,0	260	180	1	160.0602	28,95
6,0	330	225	1	160.0603	35,55
6,5	215	150	1	160.0651	21,62
6,5	275	190	1	160.0652	31,49

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
6,5	350	235	1	160.0653	38,92
7,0	225	155	1	160.0701	24,60
7,0	290	200	1	160.0702	34,48
7,0	370	250	1	160.0703	53,09
7,5	225	155	1	160.0751	31,03
7,5	290	200	1	160.0752	41,60
7,5	370	250	1	160.0753	60,80
8,0	240	165	1	160.0801	31,72
8,0	305	210	1	160.0802	41,11
8,0	390	265	1	160.0803	62,26
8,5	240	165	1	160.0851	40,37
8,5	305	210	1	160.0852	55,76
8,5	390	265	1	160.0853	79,49
9,0	250	175	1	160.0901	44,69
9,0	320	220	1	160.0902	60,05
9,5	250	175	1	160.0951	53,28
10,0	265	185	1	160.1001	50,00
10,0	340	235	1	160.1002	66,80
10,0	430	295	1	160.1003	96,86
10,5	265	185	1	160.1051	74,43
10,5	340	235	1	160.1052	97,14
11,0	280	195	1	160.1101	88,32
11,0	365	250	1	160.1102	103,44
11,0	455	310	1	160.1103	112,29
12,0	295	205	1	160.1201	93,71
12,0	375	260	1	160.1202	114,82
12,0	480	330	1	160.1203	124,88
13,0	295	205	1	160.1301	99,65
13,0	375	260	1	160.1302	121,11
13,0	480	330	1	160.1303	134,97

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HSS-G Drill bit, type TLS, extra long



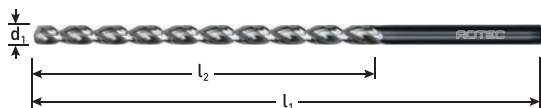
DIN 1869 **HSS G** **C** **130°** **TLS**

Execution: HSS-G Drill bit, DIN 1869, extra long, ground flute, point angle 130°, type TLS-spiral, bright.

Application: General-purpose drill, to drill steels with tensile strength up to 1.000 N/mm², cast steel, grey cast iron, malleable cast iron, nickel brass and graphite. Take care to conform to cutting speeds, frequent pecking and sufficient lubrication.
Material groups : 1.1 - 1.4 / 3.1 - 3.3

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
4,0	175	120	1	164.0401	12,86
4,5	185	125	1	164.0451	13,55
5,0	195	135	1	164.0501	16,01
6,0	205	140	1	164.0601	22,02
6,0	260	180	1	164.0602	32,17
6,5	275	190	1	164.0652	37,88
7,0	370	250	1	164.0703	52,49
8,0	240	165	1	164.0801	34,90
8,0	305	210	1	164.0802	46,20
8,0	390	265	1	164.0803	69,96

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
8,5	240	165	1	164.0851	38,90
10,0	265	185	1	164.1001	44,95
10,0	430	295	1	164.1003	92,41
10,5	265	185	1	164.1051	50,12
11,0	455	310	1	164.1103	102,19
12,0	295	205	1	164.1201	62,37
12,5	295	205	1	164.1251	62,98
13,0	295	205	1	164.1301	67,45
13,0	375	260	1	164.1302	96,67

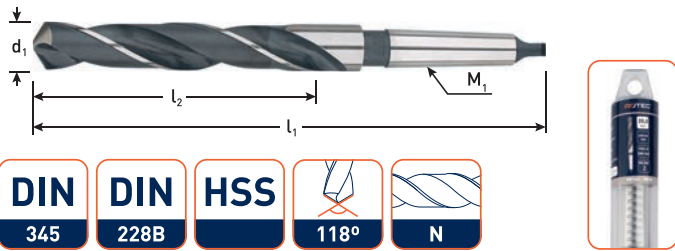


Execution: HSS-E Drill bit, DIN 1869, extra long, ground, tip angle 130°, type TLS1000, split-point (DIN 1412-C), nitrided lands. The TLS1000-spiral provides excellent chip-removal enabling deep-drilling operations (>5xD without pecking is possible). Very stable drill bit with excellent heat resistance.

Application: Very suitable for drilling non-alloyed and alloyed steels (tool steels, stainless steels etc.) as well as long chipping materials with tensile strengths < 1.300N/mm².
Material groups : 1.1 - 1.4 / 2.2 / 3.1 - 3.3 / 4.2 - 4.5 / 4.7 - 4.8 / 4.11 / 5.1 - 5.4

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
2,0	125	85	1	165.0201	17,66
2,5	140	95	1	165.0251	17,66
3,0	190	130	1	165.0302	26,89
3,2	200	135	1	165.0322	25,87
3,5	165	115	1	165.0351	20,17
3,5	210	145	1	165.0352	27,66
4,0	175	120	1	165.0401	20,51
4,0	220	150	1	165.0402	28,81
4,0	280	190	1	165.0403	36,47
4,2	175	120	1	165.0421	28,17
4,2	220	150	1	165.0422	48,94
4,5	185	125	1	165.0451	22,08
4,5	235	160	1	165.0452	30,72
4,5	295	200	1	165.0453	44,11
5,0	195	135	1	165.0501	23,62
5,0	245	170	1	165.0502	30,72
5,0	315	210	1	165.0503	44,11
5,5	205	140	1	165.0551	25,87
5,5	260	180	1	165.0552	37,38
5,5	330	225	1	165.0553	47,95
6,0	205	140	1	165.0601	25,87
6,0	260	180	1	165.0602	37,38
6,0	330	225	1	165.0603	50,87
6,5	215	150	1	165.0651	34,55
6,5	275	190	1	165.0652	42,21
6,5	350	235	1	165.0653	54,69
7,0	225	155	1	165.0701	36,47
7,0	290	200	1	165.0702	47,95
7,0	370	250	1	165.0703	70,02

d ₁	l ₁	l ₂	pcs/PU	Item no.	€ / PU
7,5	290	200	1	165.0752	55,62
7,5	370	250	1	165.0753	80,56
8,0	240	165	1	165.0801	46,04
8,0	305	210	1	165.0802	54,69
8,0	390	265	1	165.0803	82,51
8,5	240	165	1	165.0851	58,52
8,5	305	210	1	165.0852	86,33
8,5	390	265	1	165.0853	103,55
9,0	250	175	1	165.0901	63,25
9,0	320	220	1	165.0902	84,42
9,5	250	175	1	165.0951	72,91
10,0	265	185	1	165.1001	65,20
10,0	340	235	1	165.1002	89,16
10,0	430	295	1	165.1003	130,45
10,5	265	185	1	165.1051	113,12
10,5	340	235	1	165.1052	126,60
10,5	430	295	1	165.1053	140,01
11,0	280	195	1	165.1101	85,32
11,0	365	250	1	165.1102	124,69
11,0	455	310	1	165.1103	149,59
11,5	280	195	1	165.1151	105,48
12,0	295	205	1	165.1201	97,81
12,0	375	260	1	165.1202	140,01
12,0	480	330	1	165.1203	174,56
12,5	295	205	1	165.1251	118,87
12,5	375	260	1	165.1252	140,01
13,0	295	205	1	165.1301	118,87
13,0	375	260	1	165.1302	145,74
13,0	480	330	1	165.1303	164,90



Execution: HSS Drill bit with taper shank, DIN 345, short, milled & ground flutes, point angle 118°, type N-spiral.

Application: General-purpose use on most common materials such as steel and cast iron.
Material groups : 1.1 - 1.4 / 3.1 - 3.3 / 4.11 - 4.12



d ₁	l ₁	l ₂	M ₁	pcs/PU	Item no.	€/ PU
10,0	168	87	MT 1	1	170.1000	26,92
10,25 *	168	87	MT 1	1	170.1025	27,06
10,5	168	87	MT 1	1	170.1050	26,92
11,0	175	94	MT 1	1	170.1100	26,66
11,5	175	94	MT 1	1	170.1150	26,66
11,75 *	175	94	MT 1	1	170.1175	22,71
12,0	182	101	MT 1	1	170.1200	14,84
12,25 *	182	101	MT 1	1	170.1225	22,71
12,5	182	101	MT 1	1	170.1250	14,36
13,0	182	101	MT 1	1	170.1300	19,88
13,5	189	108	MT 1	1	170.1350	21,63
14,0	189	108	MT 1	1	170.1400	22,92
14,25 *	212	114	MT 2	1	170.1425	24,79
14,5	212	114	MT 2	1	170.1450	24,70
15,0	212	114	MT 2	1	170.1500	24,70
15,5	218	120	MT 2	1	170.1550	25,99
15,75 *	218	120	MT 2	1	170.1575	29,13
16,0	218	120	MT 2	1	170.1600	26,82
16,25 *	223	125	MT 2	1	170.1625	29,40
16,5	223	125	MT 2	1	170.1650	26,50
16,75 *	223	125	MT 2	1	170.1675	30,03
17,0	223	125	MT 2	1	170.1700	26,50
17,25 *	228	130	MT 2	1	170.1725	30,65
17,5	228	130	MT 2	1	170.1750	28,16
18,0	228	130	MT 2	1	170.1800	29,56
18,5	233	135	MT 2	1	170.1850	34,02
19,0	233	135	MT 2	1	170.1900	30,63
19,5	238	140	MT 2	1	170.1950	34,41
20,0	238	140	MT 2	1	170.2000	34,41
20,25 *	243	145	MT 2	1	170.2025	44,40
20,5	243	145	MT 2	1	170.2050	39,07
21,0	243	145	MT 2	1	170.2100	39,80
21,5	248	150	MT 2	1	170.2150	43,61
21,75 *	248	150	MT 2	1	170.2175	43,06
22,0	248	150	MT 2	1	170.2200	43,61
22,5	253	155	MT 2	1	170.2250	47,16
23,0	253	155	MT 2	1	170.2300	45,98
23,5	276	155	MT 3	1	170.2350	49,94
24,0	281	160	MT 3	1	170.2400	52,05
24,5	281	160	MT 3	1	170.2450	57,08
25,0	281	160	MT 3	1	170.2500	57,83
25,25 *	286	165	MT 3	1	170.2525	73,25
25,5	286	165	MT 3	1	170.2550	61,71
26,0	286	165	MT 3	1	170.2600	60,85
26,5	286	165	MT 3	1	170.2650	64,55
26,75 *	291	170	MT 3	1	170.2675	79,64

d ₁	l ₁	l ₂	M ₁	pcs/PU	Item no.	€/ PU
27,0	291	170	MT 3	1	170.2700	65,30
27,5	291	170	MT 3	1	170.2750	67,46
28,0	291	170	MT 3	1	170.2800	69,76
28,5	296	175	MT 3	1	170.2850	80,25
28,75 *	296	175	MT 3	1	170.2875	108,79
29,0	296	175	MT 3	1	170.2900	82,90
29,5	296	175	MT 3	1	170.2950	86,90
30,0	296	175	MT 3	1	170.3000	80,19
30,5	301	180	MT 3	1	170.3050	84,82
31,0	301	180	MT 3	1	170.3100	96,08
31,5	301	180	MT 3	1	170.3150	117,92
32,0	334	185	MT 4	1	170.3200	106,03
32,5	334	185	MT 4	1	170.3250	143,99
33,0	334	185	MT 4	1	170.3300	114,68
33,5	334	185	MT 4	1	170.3350	124,38
34,0	339	190	MT 4	1	170.3400	118,46
34,5	339	190	MT 4	1	170.3450	131,25
35,0	339	190	MT 4	1	170.3500	122,66
35,5	339	190	MT 4	1	170.3550	154,10
36,0	344	195	MT 4	1	170.3600	134,14
37,0	344	195	MT 4	1	170.3700	145,34
37,5	344	195	MT 4	1	170.3750	185,15
38,0	349	200	MT 4	1	170.3800	176,33
38,5	349	200	MT 4	1	170.3850	185,15
39,0	349	200	MT 4	1	170.3900	176,33
39,5	349	200	MT 4	1	170.3950	188,67
40,0	349	200	MT 4	1	170.4000	176,33
40,5	354	205	MT 4	1	170.4050	194,54
41,0	354	205	MT 4	1	170.4100	192,84
41,5	354	205	MT 4	1	170.4150	205,47
42,0	354	205	MT 4	1	170.4200	193,28
42,5	354	205	MT 4	1	170.4250	245,04
43,0	359	210	MT 4	1	170.4300	208,70
44,0	359	210	MT 4	1	170.4400	247,82
44,5	359	210	MT 4	1	170.4450	260,21
45,0	364	215	MT 4	1	170.4500	247,82
46,0	364	215	MT 4	1	170.4600	328,55
46,5	364	215	MT 4	1	170.4650	322,00
47,0	364	215	MT 4	1	170.4700	331,73
48,0	369	220	MT 4	1	170.4800	331,73
48,5	369	220	MT 4	1	170.4850	325,10
49,0	369	220	MT 4	1	170.4900	331,73
50,0	369	220	MT 4	1	170.5000	322,00
55,0	417	230	MT 5	1	170.5500	454,45
60,0	422	235	MT 5	1	170.6000	520,79

* Phase-out item, available until stock has depleted

900

HSS Drill bit set, morse taper, SILVER-LINE, in metal case

ROTEC®



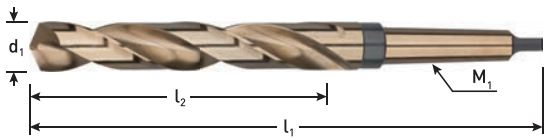
Execution: HSS Drill bit with taper shank, DIN 345, short, milled & ground flutes, point angle 118°, type N-spiral, including 1 reductions sleeve MT 3 > MT 2

Application: General-purpose use on most common materials such as steel and cast iron.
Material groups : 1.1 - 1.4 / 2.1 / 3.1 / 4.1 - 4.10 / 4.12

Description	Type	Content	pcs/PU	Item no.	€ / PU
11 pc taper shank drill bit set	170	1x ø14, 16, 18, 20, 22, 24, 25, 26, 28 and 30 mm 1x reduction sleeve MT3 > MT2	1	900.0905	584,65

173

HSS-E Drill bit, morse taper, type HD-X



Execution: HSS-E Drill bit with taper shank, DIN 345, short, ground flutes, split-point (DIN 1412-C), point angle 135°, heavy-duty type HD-X-spiral, bronze surface.

Application: For drilling of steels with tensile strength up to 1.400 N/mm², very hard bronze, stainless steels as well as heat- and acid resistant steels.
Material groups : 1.1 - 1.5 / 2.2 - 2.3 / 3.1 - 3.3 / 4.3 / 4.5 / 4.11 - 4.12 / 5.3 - 5.4

d ₁	l ₁	l ₂	M ₁	pcs/PU	Item no.	€ / PU
12,0	182	101	MT 1	1	173.1200	78,70
12,5	182	101	MT 1	1	173.1250	81,77
13,0	182	101	MT 1	1	173.1300	88,94
13,5	189	108	MT 1	1	173.1350	95,02
14,0	189	108	MT 1	1	173.1400	94,02
14,5	212	114	MT 2	1	173.1450	100,15
15,0	212	114	MT 2	1	173.1500	106,30
15,5	218	120	MT 2	1	173.1550	109,36
16,0	218	120	MT 2	1	173.1600	113,45
16,5	223	125	MT 2	1	173.1650	119,59
17,0	223	125	MT 2	1	173.1700	115,51
17,5	228	130	MT 2	1	173.1750	125,72
18,0	228	130	MT 2	1	173.1800	132,84
18,5	233	135	MT 2	1	173.1850	137,99

d ₁	l ₁	l ₂	M ₁	pcs/PU	Item no.	€ / PU
19,0	233	135	MT 2	1	173.1900	137,99
19,5	238	140	MT 2	1	173.1950	159,41
20,0	238	140	MT 2	1	173.2000	148,19
20,5	243	145	MT 2	1	173.2050	175,90
21,0	243	145	MT 2	1	173.2100	183,88
21,5	248	150	MT 2	1	173.2150	247,33
22,0	248	150	MT 2	1	173.2200	179,86
22,5	253	155	MT 2	1	173.2250	255,50
23,0	253	155	MT 2	1	173.2300	198,25
23,5	276	155	MT 3	1	173.2350	267,76
24,0	281	160	MT 3	1	173.2400	222,76
24,5	281	160	MT 3	1	173.2450	282,06
25,0	281	160	MT 3	1	173.2500	252,96

174

HSS-G Drill bit, morse taper, coolant through



Execution: HSS-G Drill bit with taper shank, DIN 341, long, point with thinned web (DIN 1412-A), point angle 118°, type N-spiral, steam tempered. Coolant admittance can be either radially or axially. Longer tool life due to strongly increased cooling at the cutting edges.

Application: General-purpose use on most common materials such as steel and cast iron as well as stack drilling of sheet metal.
Material groups : 1.1 - 1.4 / 3.1 - 3.3

d ₁	l ₁	l ₂	M ₁	pcs/PU	Item no.	€ / PU
10,0	236	116	MT 3	1	174.1000	220,62
11,0	245	125	MT 3	1	174.1100	226,65
12,0	254	134	MT 3	1	174.1200	230,93
13,0	254	134	MT 3	1	174.1300	232,67
14,0	262	142	MT 3	1	174.1400	267,02
15,0	267	147	MT 3	1	174.1500	290,12
16,0	273	153	MT 3	1	174.1600	301,33
17,0	279	159	MT 3	1	174.1700	314,21
18,0	285	165	MT 3	1	174.1800	320,16
19,0	291	171	MT 3	1	174.1900	348,51
20,0	297	177	MT 3	1	174.2000	354,51
21,0	304	184	MT 3	1	174.2100	394,92
22,0	312	191	MT 3	1	174.2200	386,28

d ₁	l ₁	l ₂	M ₁	pcs/PU	Item no.	€ / PU
23,0	319	198	MT 3	1	174.2300	450,72
24,0	327	206	MT 3	1	174.2400	445,30
25,0	327	206	MT 3	1	174.2500	499,00
26,0	335	214	MT 3	1	174.2600	445,30
27,0	372	222	MT 4	1	174.2700	499,00
28,0	372	222	MT 4	1	174.2800	499,00
29,0	380	230	MT 4	1	174.2900	494,51
30,0	380	230	MT 4	1	174.3000	536,50
31,0	389	239	MT 4	1	174.3100	643,90
32,0	389	239	MT 4	1	174.3200	643,90
33,0	397	248	MT 4	1	174.3300	777,98
34,0	406	257	MT 4	1	174.3400	777,98
35,0	406	257	MT 4	1	174.3500	885,30

175

HSS-G Drill bit, morse taper, long



Execution: HSS-G Drill bit, DIN 1870, extra long, ground flute, point angle 118°, type N-spiral, steam tempered.

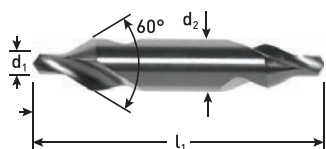
Application: General-purpose drill, to drill steels with tensile strength up to 1.000 N/mm², cast steel, grey cast iron, malleable cast iron, nickel brass and graphite. Take care to conform to cutting speeds, frequent pecking and sufficient lubrication.
Material groups : 1.1 - 1.4 / 3.1 - 3.3

d ₁	l ₁	l ₂	M ₁	pcs/PU	Item no.	€ / PU
10,0	360	235	MT 1	1	175.1002	137,90
10,5	360	235	MT 1	1	175.1052	152,77
11,0	375	250	MT 1	1	175.1102	147,86
11,5	375	250	MT 1	1	175.1152	152,77
12,0	395	260	MT 1	1	175.1202	157,74
12,5	395	260	MT 1	1	175.1252	164,71
13,0	310	205	MT 1	1	175.1301	111,11
13,0	395	260	MT 1	1	175.1302	163,72
13,5	410	275	MT 1	1	175.1352	170,66
14,0	325	220	MT 1	1	175.1401	115,08
14,0	410	275	MT 1	1	175.1402	175,62
14,5	425	275	MT 2	1	175.1452	179,60
15,0	340	220	MT 2	1	175.1501	138,90
15,0	425	275	MT 2	1	175.1502	188,50
15,5	355	230	MT 2	1	175.1551	146,83
15,5	445	295	MT 2	1	175.1552	191,49
16,0	355	230	MT 2	1	175.1601	144,86
16,0	445	295	MT 2	1	175.1602	194,45
16,5	445	295	MT 2	1	175.1652	208,36
17,0	355	230	MT 2	1	175.1701	162,69
17,0	445	295	MT 2	1	175.1702	212,31
17,5	465	310	MT 2	1	175.1752	227,21
18,0	370	245	MT 2	1	175.1801	170,66

d ₁	l ₁	l ₂	M ₁	pcs/PU	Item no.	€ / PU
18,0	465	310	MT 2	1	175.1802	227,21
18,5	465	310	MT 2	1	175.1852	246,05
19,0	465	310	MT 2	1	175.1902	248,05
19,5	490	325	MT 2	1	175.1952	274,83
20,0	385	260	MT 2	1	175.2001	203,38
20,0	490	325	MT 2	1	175.2002	269,87
21,0	490	325	MT 2	1	175.2102	311,52
22,0	405	270	MT 2	1	175.2201	261,91
22,0	515	345	MT 2	1	175.2202	353,19
23,0	515	345	MT 2	1	175.2302	367,11
24,0	555	365	MT 3	1	175.2402	414,72
25,0	440	290	MT 3	1	175.2501	339,29
25,0	555	365	MT 3	1	175.2502	450,44
26,0	440	290	MT 3	1	175.2601	376,98
26,0	555	365	MT 3	1	175.2602	496,06
27,0	580	385	MT 3	1	175.2702	535,74
28,0	460	305	MT 3	1	175.2801	416,69
28,0	580	385	MT 3	1	175.2802	565,51
30,0	580	385	MT 3	1	175.3002	625,03
32,0	635	410	MT 4	1	175.3202	734,15
35,0	665	430	MT 4	1	175.3502	823,47
38,0	695	460	MT 4	1	175.3802	952,43
40,0	695	460	MT 4	1	175.4002	1091,33

190

HSS-G Center drill bit



Execution: HSS-G Center drill bit, ground, 60° chamfer, according to DIN 333-A, right-hand cutting.

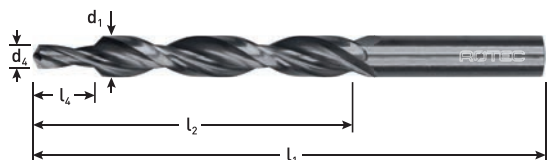


d ₁	l ₁	d ₂	pcs/PU	Item no.	€ / PU
1,0	31,5	3,15	1	190.0100	6,47
1,25	31,5	3,15	1	190.0125	6,47
1,6	35,5	4	1	190.0160	7,05
2,0	40,0	5	1	190.0200	7,85
2,5	45,0	6,3	1	190.0250	8,38

d ₁	l ₁	d ₂	pcs/PU	Item no.	€ / PU
3,15	50,0	8,0	1	190.0315	10,53
4,0	56,0	10	1	190.0400	17,01
5,0	63,0	12,5	1	190.0500	24,02
6,3	71,0	16,0	1	190.0630	37,49
8,0	80,0	20	1	190.0800	65,11

196

HSS-G Subland drill bit, 90°, fine tolerance



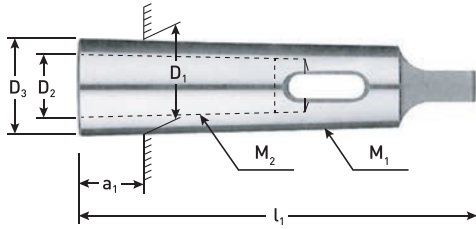
Execution: HSS-G Subland drill bit, DIN 8374, type N, ground, 90° step angle, 118° point angle, steam tempered, web thinning to DIN 1412-A, fine tolerance.

Application: For drilling and countersinking of through holes in one operation on the most commonly used metals.
Material groups : 1.1 - 1.4 / 3.1 - 3.3



M	d ₁	d ₄	l ₁	l ₂	l ₄	pcs/PU	Item no.	€ / PU
M3	6,0	3,2	93	57	9	1	196.0300	53,02
M4	8,0	4,3	117	75	11	1	196.0400	62,52
M5	10,0	5,3	133	87	13	1	196.0500	77,62
M6	11,5	6,4	142	94	15	1	196.0600	87,58
M8	15,0	8,4	169	114	19	1	196.0800	146,34
M10	19,0	10,5	198	135	23	1	196.1000	225,06

Execution: Morse-taper reduction sleeve according to DIN 2185, hardened through and through, internal and external precision ground.

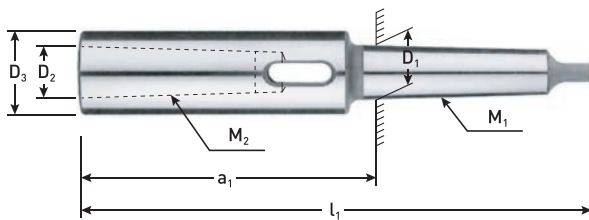


DIN 2185 **DIN 228B**

M ₁	M ₂	D ₁	D ₂	D ₃	a ₁	l ₁	pcs/PU	Item no.	€ / PU
MT 2	MT 1	17,780	12,065	18,6	17	92	1	180.0021	14,89
MT 3	MT 1	23,825	12,065	24,1	5	99	1	180.0031	19,34
MT 3	MT 2	23,825	17,780	24,7	18	112	1	180.0032	17,85
MT 4	MT 1	31,267	12,065	31,6	6,5	124	1	180.0041	29,16
MT 4	MT 2	31,267	17,780	31,6	6,5	124	1	180.0042	26,78
MT 4	MT 3	31,267	23,825	32,4	22,5	140	1	180.0043	27,37
MT 5	MT 2	44,399	17,780	44,7	6,5	156	1	180.0052	77,35
MT 5	MT 3	44,399	23,825	44,7	6,5	156	1	180.0053	56,53
MT 5	MT 4	44,399	31,267	45,5	21,5	171	1	180.0054	56,53
MT 6	MT 5	63,348	44,399	63,8	8	218	1	180.0065	175,54

Extension sleeve

Execution: Morse-taper sleeve according to DIN 2187, hardened tangs, internal and external precision ground.

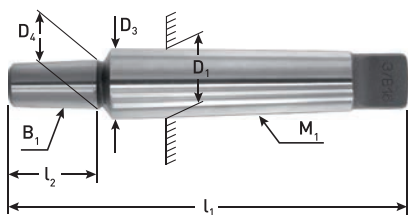


DIN 2187 **DIN 228B**

M ₁	M ₂	D ₁	D ₂	D ₃	a ₁	l ₁	pcs/PU	Item no.	€ / PU
MT 1	MT 2	12,065	17,780	30	91	160	1	180.0112	40,16
MT 2	MT 1	17,780	12,065	20	85	160	1	180.0121	40,16
MT 2	MT 2	17,780	17,780	30	100	175	1	180.0122	40,16
MT 2	MT 3	17,780	23,825	36	112	196	1	180.0123	56,53
MT 3	MT 1	23,825	12,065	20	81	175	1	180.0131	50,58
MT 3	MT 2	23,825	17,780	30	100	194	1	180.0132	50,58
MT 3	MT 3	23,825	23,825	36	121	215	1	180.0133	65,46
MT 3	MT 4	23,825	31,267	48	137	240	1	180.0134	80,33
MT 4	MT 2	31,267	17,780	30	97,5	210	1	180.0142	80,33
MT 4	MT 3	31,267	23,825	36	122,5	240	1	180.0143	92,23
MT 4	MT 4	31,267	31,267	48	147,5	265	1	180.0144	89,26
MT 4	MT 5	31,267	44,399	63	172	300	1	180.0145	181,48
MT 5	MT 4	44,399	31,267	48	150,5	300	1	180.0154	169,59
MT 5	MT 5	44,399	44,399	63	185,5	300	1	180.0155	193,39

Drill chuck arbor, type B

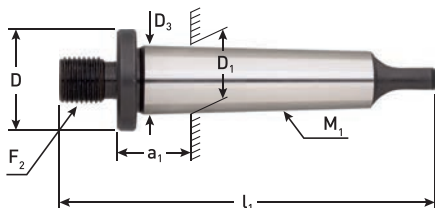
Execution: Morse-taper shank (DIN 228-B) drill chuck arbor according to DIN 238, through and through hardened, precision ground.



M ₁	B ₁	D ₁	D ₄	D ₂	l ₂	l ₁	pcs/PU	Item no.	€ / PU
MT 1	B10	12,065	10,095		14,5	86	1	180.1010	10,71
MT 1	B16	12,065	15,733		24	96	1	180.1016	10,71
MT 1	B18	12,065	17,780		32	104	1	180.1018	11,61
MT 2	B10	17,780	10,095		14,5	105	1	180.2010	10,71
MT 2	B12	17,780	12,065		18,5	105	1	180.2012	10,71
MT 2	B16	17,780	15,733		24	112	1	180.2016	13,08
MT 2	B18	17,780	17,780		32	119	1	180.2018	13,39
MT 2	B22	17,780	21,739		40,5	128	1	180.2022	19,34
MT 3	B16	23,825	15,733		24	130	1	180.3016	17,56
MT 3	B18	23,825	17,780		32	138	1	180.3018	17,85
MT 4	B16	31,267	15,733		24	156	1	180.4016	26,78
MT 4	B18	31,267	17,780		32	164	1	180.4018	26,78
MT 5	B18	44,399	17,780		32	198	1	180.5018	83,81

Drill chuck arbor, threaded

Execution: Morse-taper shank (DIN 228-B) drill chuck arbor according to DIN 238, through and through hardened, precision ground.



M ₁	F ₂	D ₁	D (mm)	D ₃	a ₁	l ₁	pcs/PU	Item no.	€ / PU
MT 2	1/2"-20 UNF	17,780	26,8	18,0	24	100	1	180.6002	39,31
MT 3	1/2"-20 UNF	23,825	27,0	24,1	19,6	123	1	180.6003	48,50

Drill drift

Execution: Drill drift, according to DIN 317 for morse-taper shanks according to DIN 228-B, made of hardened steel, passivated.



Type	Suitable for	l ₁	pcs/PU	Item no.	€ / PU
Nr. 0	MT 0	90	1	180.9000	8,46
Nr. 1	MT 1 + 2	140	1	180.9001	11,31
Nr. 3	MT 3	190	1	180.9003	17,56
Nr. 4	MT 4	225	1	180.9004	37,13

181R

Keyed drill chuck, premium

ROTEC®



Execution: High-end keyed drill chuck, including key according to DIN 6349 - Class M.

d (min-max)	A ₁	pcs/PU	Item no.	€ / PU
1,5 - 13	1/2"-20 UNF	1	181.1001R	24,72

Keyless drill chuck, standard

ROTEC®



Execution: Non-locking low weight keyless drill chuck. Plastic covered casing, suitable for all (cordless) drills, left- and right hand rotating. Not suitable for hammer drills.

d (min-max)	A ₁	pcs/PU	Item no.	€ / PU
1,0 - 10	3/8"-24 UNF	1	181.2001R	24,72
2,0 - 13	1/2"-20 UNF	1	181.2005R	24,72

Keyless drill chuck, locking

ROTEC®



Execution: Low weight keyless drill chuck. Plastic covered casing, suitable for all (hammer) drills, left- and right hand rotating, with lock. Only suitable for drills with spindle lock.

d (min-max)	A ₁	pcs/PU	Item no.	€ / PU
1,5 - 13	1/2"-20 UNF	1	181.3005R	30,90

Keyless drill chuck, premium, locking

ROTEC®



Execution: Keyless drill chuck. 2 Piece metal casing, suitable for all (hammer) drills, left- and right hand rotating. Only suitable for drills with spindle lock.

d (min-max)	A ₁	pcs/PU	Item no.	€ / PU
1,5 - 13	1/2"-20 UNF	1	181.4001R	49,49

Keyless drill chuck, premium

ROTEC®



Execution: Keyless drill chuck. Suitable for professional stationary drills and hand drills without hammering mechanism.

d (min-max)	A ₁	pcs/PU	Item no.	€ / PU
1,0 - 13	1/2"-20 UNF	1	181.5015R	74,27
1,0 - 16	B16	1	181.5020R	99,04

180

Key for keyed drill chucks

ROTEC®



Execution: General-use keys for keyed drill chucks.

d (min-max)	LFA-Nr.	pcs/PU	Item no.	€ / PU
1,5 - 13	9102C2	1	181.1901	5,75
2,5 - 16	9100C3	1	181.1902	7,68

Adapter (hexagonal)

ROTEC®



A ₁	A ₂	pcs/PU	Item no.	€ / PU
1/4" - E6.3	3/8" -24 UNF	1	181.9001	6,97

200

Adapter (SDS-plus)

ROTEC®

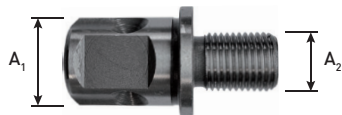


A ₁	A ₂	pcs/PU	Item no.	€ / PU
SDS-plus	1/2" -20 UNF	1	200.9007	14,31

545

Adapter (Weldon)

ROTEC®

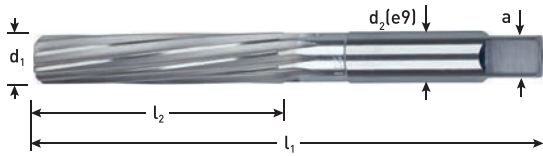


Execution: Adapter from weldon 19mm or universal 19 mm to 1/2"-20 UNF for drill chucks.

A ₁	A ₂	pcs/PU	Item no.	€ / PU
WLD 19	1/2" x 20 UNF	1	545.1020	48,05
UNI 19	1/2" x 20 UNF	1	545.1021	46,45

182

HSS-G Hand reamer, H7



DIN	DIN	HSS	H7	
206B	10	G	Tolerance	7°

Execution: HSS hand reamer according to DIN 206-B with cylindrical shank, 7° left hand spiral, right hand cutting, long tapered chamfer, for holes with H7-tolerance.

Application: For reaming of most common materials such as steel, cast-iron, plastic etc. Very well suited for repairs and revisions. Not suitable for blind holes.

d ₁	l ₁	l ₂	d ₂	a	pcs/PU	Item no.	€ / PU
3,0	62	31	3	2,24	1	182.0300	20,51
3,5	71	35	3,5	2,8	1	182.0350	20,51
4,0	76	38	4	3,15	1	182.0400	19,39
5,0	87	44	5	4	1	182.0500	21,04
5,5	93	47	5,5	4,5	1	182.0550	22,21
6,0	93	47	6	4,5	1	182.0600	22,64
6,5	100	50	6,5	5	1	182.0650	23,78
7,0	107	54	7	5,6	1	182.0700	24,00
8,0	115	58	8	6,3	1	182.0800	26,11
9,0	124	62	9	7,1	1	182.0900	27,48
10,0	133	66	10	8	1	182.1000	30,43
11,0	142	71	11	9	1	182.1100	39,81
12,0	152	76	12	10	1	182.1200	43,69
13,0	152	76	13	10	1	182.1300	47,58
14,0	163	81	14	11,2	1	182.1400	53,38
15,0	163	81	15	11,2	1	182.1500	58,27
16,0	175	87	16	12,5	1	182.1600	65,53

d ₁	l ₁	l ₂	d ₂	a	pcs/PU	Item no.	€ / PU
17,0	175	87	17	12,5	1	182.1700	66,52
18,0	188	93	18	14	1	182.1800	67,47
19,0	188	93	19	14	1	182.1900	70,89
20,0	201	100	20	16	1	182.2000	79,72
21,0	200	100	21	16	1	182.2100	80,15
22,0	215	107	22	18	1	182.2200	88,98
24,0	231	115	24	20	1	182.2400	109,79
25,0	231	115	25	20	1	182.2500	110,27
26,0	231	115	26	20	1	182.2600	122,80
28,0	247	124	28	22,4	1	182.2800	146,44
30,0	247	124	30	22,4	1	182.3000	160,76
32,0	265	133	32	25	1	182.3200	188,56
34,0	284	142	34	28	1	182.3400	218,22
35,0	284	142	35	28	1	182.3500	230,27
36,0	284	142	36	28	1	182.3600	239,10
38,0	305	152	38	31,5	1	182.3800	278,02
40,0	305	152	40	31,5	1	182.4000	302,11

183

HSS-E Machine reamer, MT-shank, H7



DIN	DIN	HSS	H7	
208B	228B	E	Tolerance	10°

Execution: HSS machine reamer according to DIN 208-B with morse-taper (MT) shank acc. to DIN 228-B, 10° left hand spiral, right hand cutting, 45° chamfer, for holes with H7-tolerance.

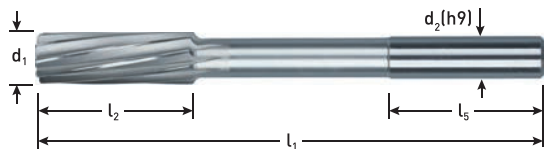
Application: For reaming of most common materials such as steel, cast-iron, plastic etc.

d ₁	l ₁	l ₂	M ₁	pcs/PU	Item no.	€ / PU
5,0	133	23	MT 1	1	183.0500	37,10
6,0	138	26	MT 1	1	183.0600	36,06
7,0	150	31	MT 1	1	183.0700	36,58
8,0	156	33	MT 1	1	183.0800	37,10
9,0	162	36	MT 1	1	183.0900	37,67
10,0	168	38	MT 1	1	183.1000	38,20
11,0	175	41	MT 1	1	183.1100	39,09
12,0	182	44	MT 1	1	183.1200	38,34
13,0	182	44	MT 1	1	183.1300	42,18
14,0	189	47	MT 1	1	183.1400	47,36
15,0	204	50	MT 2	1	183.1500	53,53
16,0	210	52	MT 2	1	183.1600	58,13
17,0	214	54	MT 2	1	183.1700	59,17
18,0	219	56	MT 2	1	183.1800	63,82
19,0	223	58	MT 2	1	183.1900	67,43
20,0	228	60	MT 2	1	183.2000	70,89
21,0	232	62	MT 2	1	183.2100	72,30

d ₁	l ₁	l ₂	M ₁	pcs/PU	Item no.	€ / PU
22,0	237	64	MT 2	1	183.2200	77,20
23,0	241	66	MT 2	1	183.2300	82,52
24,0	268	68	MT 3	1	183.2400	99,98
25,0	268	68	MT 3	1	183.2500	95,46
26,0	273	70	MT 3	1	183.2600	107,48
27,0	277	71	MT 3	1	183.2700	108,43
28,0	277	71	MT 3	1	183.2800	118,62
29,0	281	73	MT 3	1	183.2900	119,10
30,0	281	73	MT 3	1	183.3000	131,10
32,0	317	77	MT 4	1	183.3200	164,04
34,0	321	78	MT 4	1	183.3400	183,01
35,0	321	78	MT 4	1	183.3500	189,51
36,0	325	79	MT 4	1	183.3600	200,62
38,0	329	81	MT 4	1	183.3800	218,70
40,0	329	81	MT 4	1	183.4000	241,43
45,0	336	83	MT 4	1	183.4500	296,09

184

HSS-E Machine reamer, cylindrical shank, H7



DIN 212D | **HSS** E | **H7** Tolerance | 10° | h9

Execution: HSS-E machine reamer according to DIN 212-D with cylindrical shank, 10° left hand spiral, right hand cutting, for holes with H7-tolerance.

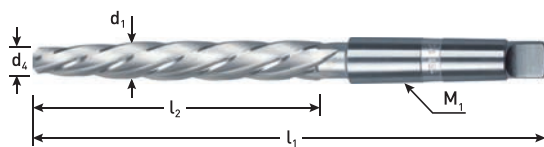
Application: For reaming of most common materials such as steel, cast-iron, plastic as well as difficult to cut materials.

d ₁	l ₁	l ₂	d ₂	l ₅	pcs/PU	Item no.	€ / PU
3,0	61	15	3	-	1	184.0300	18,27
3,5	70	18	3,5	-	1	184.0350	18,79
4,0	75	19	4	32	1	184.0400	19,36
4,5	80	21	4,5	33	1	184.0450	19,93
5,0	86	23	5	34	1	184.0500	20,51
5,5	93	26	5,6	36	1	184.0550	21,57
6,0	93	26	5,6	36	1	184.0600	21,89
6,5	101	28	6,3	38	1	184.0650	24,49
7,0	109	31	7,1	40	1	184.0700	24,35
8,0	117	33	8	42	1	184.0800	24,30
9,0	125	36	9	44	1	184.0900	28,81

d ₁	l ₁	l ₂	d ₂	l ₅	pcs/PU	Item no.	€ / PU
10,0	133	38	10	46	1	184.1000	30,55
12,0	151	44	10	46	1	184.1200	36,39
13,0	151	44	10	46	1	184.1300	40,66
14,0	160	47	12,5	50	1	184.1400	45,80
15,0	162	50	12,5	50	1	184.1500	48,35
16,0	170	52	12,5	52	1	184.1600	50,49
17,0	175	54	14	52	1	184.1700	53,38
18,0	182	56	14	52	1	184.1800	58,75
19,0	189	58	16	58	1	184.1900	63,11
20,0	195	60	16	58	1	184.2000	72,84

185

HSS-G Bridge reamer



DIN 311 | **DIN** 228B | **HSS** G | 25°

Execution: HSS-G Bridge reamer with taper shank, DIN 311, left hand spiral, right hand cut.

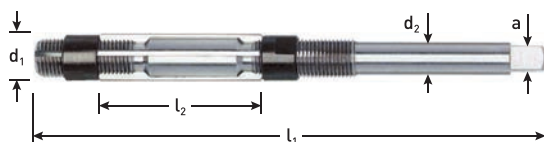
Application: Extensively used in structural industry, ship and bridge building industry and boiler manufacturing where steel parts have undersized or rough holes and where it is necessary to ream holes in assemblies to obtain proper alignment and size for accepting rivets, bolts, etc.

d ₁	d ₄	l ₁	l ₂	M ₁	pcs/PU	Item no.	€ / PU
10,0	7,0	171	95	MT 1	1	185.1000	50,35
11,0	7,7	176	100	MT 1	1	185.1100	53,23
12,0	8,4	199	105	MT 2	1	185.1200	62,40
13,0	9,1	199	105	MT 2	1	185.1300	65,61
14,0	9,8	209	115	MT 2	1	185.1400	72,08
15,0	10,5	219	125	MT 2	1	185.1500	75,63
16,0	11,2	229	135	MT 2	1	185.1600	79,62
17,0	11,9	251	135	MT 3	1	185.1700	89,82
18,0	12,6	261	145	MT 3	1	185.1800	98,55
19,0	13,3	261	145	MT 3	1	185.1900	111,17
20,0	14,0	271	155	MT 3	1	185.2000	120,85

d ₁	d ₄	l ₁	l ₂	M ₁	pcs/PU	Item no.	€ / PU
21,0	14,7	271	155	MT 3	1	185.2100	124,74
22,0	15,4	281	165	MT 3	1	185.2200	136,90
23,0	16,4	281	165	MT 3	1	185.2300	142,73
24,0	16,8	296	180	MT 3	1	185.2400	158,72
25,0	17,5	296	180	MT 3	1	185.2500	167,75
26,0	18,2	296	180	MT 3	1	185.2600	169,59
27,0	18,9	311	195	MT 3	1	185.2700	189,97
28,0	19,6	311	195	MT 3	1	185.2800	199,24
29,0	20,3	311	195	MT 3	1	185.2900	225,63
30,0	21,0	311	195	MT 3	1	185.3000	220,07
31,0	21,7	326	210	MT 3	1	185.3100	232,84

189

HSS-G Adjustable hand reamer



DIN 10 | **HSS** G | 10°

Execution: HSS-G adjustable hand reamer, cylindrical shank with square (DIN 10), right hand cutting.

Application: For reaming most common materials such as steel, cast-iron, plastic etc. Very well suited for repairs and revisions. Not suitable for blind holes.

d (min-max)	l ₁	l ₂	d ₂	a	pcs/PU	Item no.	€ / PU
8,0 - 9,0	111	32	5,2	4,3	1	189.0800	257,65
9,0 - 10,0	115	35	5,6	4,3	1	189.0900	264,06
10,0 - 11,0	120	35	6,1	4,9	1	189.1000	269,15
11,0 - 12,0	125	35	7,4	6,2	1	189.1100	257,63
12,0 - 13,5	130	42	8,4	6,2	1	189.1200	286,37
13,5 - 15,5	145	50	9,4	7,0	1	189.1350	302,95
15,5 - 18,0	165	60	10,4	8,0	1	189.1550	325,76

d (min-max)	l ₁	l ₂	d ₂	a	pcs/PU	Item no.	€ / PU
18,0 - 21,0	180	65	11,4	9,0	1	189.1800	361,32
21,0 - 24,0	190	70	13,1	10,0	1	189.2100	419,21
24,0 - 27,5	205	75	14,1	11,0	1	189.2400	511,18
27,5 - 31,5	225	80	16,1	12,0	1	189.2750	695,12
31,5 - 37,0	240	90	18,1	14,5	1	189.3150	985,67
37,0 - 45,0	285	100	20,1	16,0	1	189.3700	1288,04

901

RS-50 Cutting oil in aerosol

ROTEC®



UNI

Execution: High-end general purpose cutting oil, formulated on plant based oils free of chlorides. Suitable for metal cutting applications on most common metals such as (alloyed) steel, stainless steel, CrNi-steel, Mn-steel, titanium, etc.

Application: For metal cutting and metal deforming applications such as thread cutting, thread rolling, drilling, milling and turning.

Type	Packing	Content (ml)	pcs/PU	Item no.	€ / PU
RS-50	Aerosol	400	1	901.9000	14,62

RS-50 Cutting oil UNI

ROTEC®



UNI

Execution: High-end general purpose cutting oil, formulated on plant based oils and free of chlorides. For metal cutting and metal forming applications such as thread cutting, thread rolling, drilling, milling, turning etc.

Application: For general purpose and universal (UNI) applications on all ferrous metals.

Type	Packing	Content (l)	pcs/PU	Item no.	€ / PU
RS-50	Flask	0,25	1	901.9010	13,54
RS-50	Flask	1	1	901.9015	40,75
RS-50	Jerry-can	5	1	901.9025	102,17

RS-60 Cutting oil INOX

ROTEC®



HD INOX

Execution: High-end general purpose cutting oil, formulated on plant based oils and free of chlorides. For metal cutting and metal forming applications such as thread cutting, thread rolling, drilling, milling, turning etc.

Application: For heavy-duty (HD) applications on all ferrous metals and for improved performance on stainless steels (INOX).

Type	Packing	Content (l)	pcs/PU	Item no.	€ / PU
RS-60	Flask	0,25	1	901.9011	14,23
RS-60	Flask	1	1	901.9016	42,68
RS-60	Jerry-can	5	1	901.9026	106,71

RS-70 Cutting oil ALU

ROTEC®



NON-FERRO ALU

Execution: High-end general purpose cutting oil, formulated on plant based oils and free of chlorides. For metal cutting and metal forming applications such as thread cutting, thread rolling, drilling, milling, turning etc.

Application: Specifically for applications on all non-ferrous metals such as aluminium, copper, brass, bronze, zinc, etc.

Type	Packing	Content (l)	pcs/PU	Item no.	€ / PU
RS-70	Flask	0,25	1	901.9012	14,88
RS-70	Flask	1	1	901.9017	44,62
RS-70	Jerry-can	5	1	901.9027	109,93

RZ Sawing oil



WHITE

Application: Highly concentrated emulsifiable sawing oil for sawing units. Free of chlorides, secondary amines and/or nitrites. Milky-white emulsion.

Solving ratios:
Normal conditions: 1:20
Heavy conditions: 1:15

Type	Packing	Content (l)	pcs/PU	Item no.	€ / PU
RZ-50	Jerry-can	5	1	901.9050	64,03



TRANSPARENT

Application: Highly concentrated emulsifiable sawing oil for sawing units. Free of chlorides, secondary amines and/or nitrites. Transparent to semi-transparent emulsion.

Solving ratios:
Normal conditions: 1:20
Heavy conditions: 1:15

Type	Packing	Content (l)	pcs/PU	Item no.	€ / PU
RZ-60	Jerry-can	5	1	901.9055	63,37

RW Wax sticks



Application: High-end wax stick for coolant and lubrication of cutting operations on difficult to cut materials. Contributes to longer tool life.

Type	Packing	Content (gr)	pcs/PU	Item no.	€ / PU
RW-30	Stick	30	1	901.9020	6,10



Execution: High-end wax stick for coolant and lubrication of cutting operations on non-ferrous metals such as aluminium, copper, brass, etc. Free of chlorides, no harmful fumes or vapours.

Application: For all circular saw blade machines without coolant supply. To apply the wax, hold the wax stick against the rotating blade shortly. Repeat every 10-20 sawing cycles. Also suitable for milling, tapping, reaming, drilling, turning etc.

Type	Packing	Content (gr)	pcs/PU	Item no.	€ / PU
RW-30	Stick	300	1	901.2025	20,37

RP-12 Cutting paste INOX



INOX

Execution: Cutting paste in a handy tube, free of chlorides and odours.

Application: This paste was specifically developed for all heavy-duty metal cutting operations such as tapping, drilling and milling of difficult to cut materials such as stainless steel, Cr-Ni steel, titanium, manganese steel etc.

Type	Packing	Content (ml)	pcs/PU	Item no.	€ / PU
RP-12	Tube	120	1	901.9040	18,34

RP-25 Cutting paste in can



Execution: Paste for annular cutters with extreme lubricating properties. The paste resides perfectly on the cutting edges and liquefies during the cutting operation.

Application: Dip the cutting tool in the paste for optimized results. Ideal for all operations such as tapping, drilling and milling of difficult to cut materials such as stainless steel, Cr-Ni steel, titanium, manganese steel etc.

Type	Packing	Content (gr)	pcs/PU	Item no.	€ / PU
RP-25	Tin can	250	1	901.4045	15,96
RP-25	Tin can	750	1	901.4046	38,16

