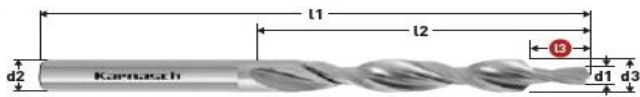




Broca escalonada bidiametral HSS-XE, DIN 8374, 90°



Art.	Para roscas Ø For thread Ø	d1 h9 mm	d2 h8 mm	d3 h8 mm	L3 mm	L2 mm	L1 mm
40 1010 030	M 3	3,2	6,0	6,0	9,0	57,0	93,0
40 1010 040	M 4	4,3	8,0	8,0	11,0	75,0	117,0
40 1010 050	M 5	5,3	10,0	10,0	13,0	87,0	133,0
40 1010 060	M 6	6,4	11,5	11,5	15,0	94,0	142,0
40 1010 080	M 8	8,4	15,0	15,0	19,0	114,0	169,0
40 1010 100	M 10	10,5	19,0	19,0	23,0	135,0	198,0

Broca escalonada bidiametral HSS-XE, DIN 8376, 180°



Art.	Para roscas Ø For thread Ø	d1 h9 mm	d2 h8 mm	d3 h8 mm	L3 mm	L2 mm	L1 mm
40 1020 030	M 3	3,4	6,5	6,5	9,0	63,0	101,0
40 1020 040	M 4	4,5	8,0	8,0	11,0	75,0	117,0
40 1020 050	M 5	5,5	10,0	10,0	13,0	87,0	133,0
40 1020 060	M 6	6,6	11,0	11,0	15,0	94,0	142,0
40 1020 080	M 8	9,0	15,0	15,0	19,0	114,0	169,0
40 1020 100	M 10	11,0	18,0	18,0	23,0	130,0	191,0

Broca escalonada bidiametral HSS-XE, DIN 8378



Art.	Para roscas Ø For thread Ø	d1 h9 mm	d2 h8 mm	d3 h8 mm	L3 mm	L2 mm	L1 mm
40 1030 030	M 3	2,5	3,4	3,4	8,8	39,0	70,0
40 1030 040	M 4	3,3	4,5	4,5	11,4	47,0	80,0
40 1030 050	M 5	4,2	5,5	5,5	13,6	57,0	93,0
40 1030 060	M 6	5,0	6,6	6,6	16,5	63,0	101,0
40 1030 080	M 8	6,8	9,0	9,0	21,0	81,0	125,0
40 1030 100	M 10	8,5	11,0	11,0	25,5	94,0	142,0
40 1030 120	M 12	10,2	13,5	13,5	30,0	108,0	160,0

Broca escalonada bidiametral HSS-XE + TITAN-TEC, DIN 8374, 90°



Art.	Para roscas Ø For thread Ø	d1 h9 mm	d2 h8 mm	d3 h8 mm	L3 mm	L2 mm	L1 mm
40 2010 030	M 3	3,2	6,0	6,0	9,0	57,0	93,0
40 2010 040	M 4	4,3	8,0	8,0	11,0	75,0	117,0
40 2010 050	M 5	5,3	10,0	10,0	13,0	87,0	133,0
40 2010 060	M 6	6,4	11,5	11,5	15,0	94,0	142,0
40 2010 080	M 8	8,4	15,0	15,0	19,0	114,0	169,0
40 2010 100	M 10	10,5	19,0	19,0	23,0	135,0	198,0

Broca escalonada bidiametral HSS-XE + TITAN-TEC, DIN 8376, 180°



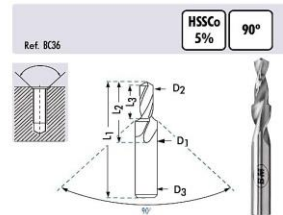
Art.	Para roscas Ø For thread Ø	d1 h9 mm	d2 h8 mm	d3 h8 mm	L3 mm	L2 mm	L1 mm
40 2020 030	M 3	3,4	6,5	6,5	9,0	63,0	101,0
40 2020 040	M 4	4,5	8,0	8,0	11,0	75,0	117,0
40 2020 050	M 5	5,5	10,0	10,0	13,0	87,0	133,0
40 2020 060	M 6	6,6	11,0	11,0	15,0	94,0	142,0
40 2020 080	M 8	9,0	15,0	15,0	19,0	114,0	169,0
40 2020 100	M 10	11,0	18,0	18,0	23,0	130,0	191,0

Broca escalonada bidiametral HSS-XE + TITAN-TEC, DIN 8378

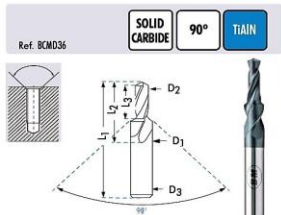


Art.	Para roscas Ø For thread Ø	d1 h9 mm	d2 h8 mm	d3 h8 mm	L3 mm	L2 mm	L1 mm
40 2030 030	M 3	2,5	3,4	3,4	8,8	39,0	70,0
40 2030 040	M 4	3,3	4,5	4,5	11,4	47,0	80,0
40 2030 050	M 5	4,2	5,5	5,5	13,6	57,0	93,0
40 2030 060	M 6	5,0	6,6	6,6	16,5	63,0	101,0
40 2030 080	M 8	6,8	9,0	9,0	21,0	81,0	125,0
40 2030 100	M 10	8,5	11,0	11,0	25,5	94,0	142,0
40 2030 120	M 12	10,2	13,5	13,5	30,0	108,0	160,0

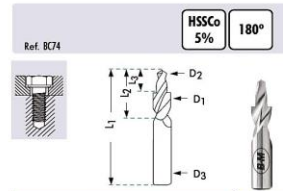
EXTRA SHORT SERIES SUBLAND TWIST DRILLS



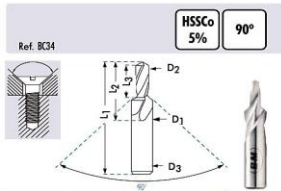
D1 mm	D2 mm	D3 mm	L1 x L2 mm	L3 mm	
M3	3,4	2,5	3,4	52 x 20	8
M4	4,5	3,3	4,5	58 x 24	11
M5	5,5	4,2	5,5	66 x 28	13
M6	6,6	5,0	6,6	70 x 31	16
M8	9,0	6,8	9,0	84 x 40	20
M10	11,0	8,5	11,0	95 x 47	24
M12	14,0	10,2	14,0	107 x 54	29
M14	16,0	12,0	16,0	115 x 56	32
M16	18,0	14,0	18,0	135 x 60	34



D1 mm	D2 mm	D3 mm	L1 x L2 mm	L3 mm	
M3	6,0	2,5	6,0	66 x 20	8,8
M4	6,0	3,3	6,0	66 x 24	11,4
M5	6,0	4,2	6,0	66 x 28	13,6
M6	8,0	5,0	8,0	79 x 31	16,5
M8	10,0	6,8	10,0	89 x 40	21,0
M10	12,0	8,5	12,0	102 x 47	25,5
M12	14,0	10,2	14,0	107 x 54	30,0



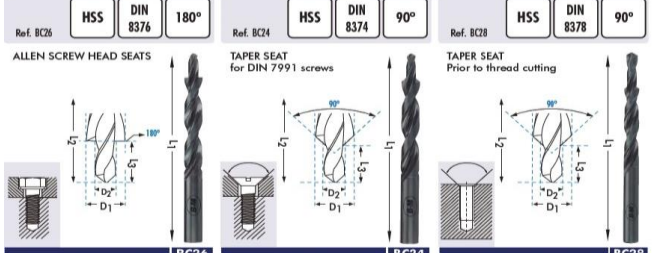
D1 mm	D2 mm	D3 mm	L1 x L2 mm	L3 mm	
M2	4,3	2,4	4,3	45 x 12	6
M3	6,0	3,4	6,0	45 x 18	9
M4	8,0	4,5	8,0	50 x 22	11
M5	10,0	5,5	10,0	55 x 26	13
M6	11,0	6,6	11,0	63 x 30	15
M8	15,0	9,0	12,5	100 x 34	19
M10	18,0	11,0	12,5	110 x 42	23
M12	20,0	14,0	12,5	110 x 34	28
M14	24,0	16,0	12,5	120 x 42	34



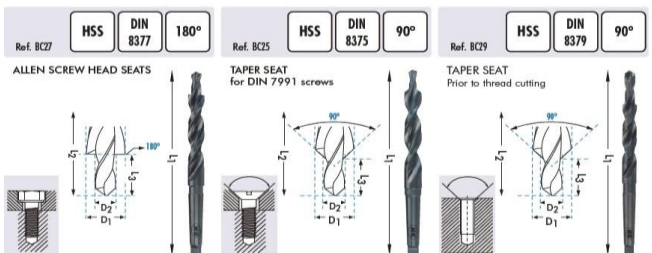
D1 mm	D2 mm	D3 mm	L1 x L2 mm	L3 mm	
M2	4,6	2,2	4,6	45 x 12	6
M3	6,5	3,2	6,5	45 x 18	9
M4	8,6	4,3	8,6	50 x 26	11
M5	10,4	5,3	10,4	55 x 30	13
M6	12,4	6,4	12,4	63 x 34	15
M8	16,4	8,4	12,5	100 x 42	19
M10	20,4	10,5	12,5	110 x 34	23
M12	25,0	13,0	12,5	120 x 42	28

DIN 7991	M2	M2.5	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20
Kmax	1,2	1,5	1,7	2,3	2,8	3,3	4,4	5,5	6,5	7	7,5	8	8,5
D1	4	5	6	8	10	12	16	20	24	27	30	33	36

STRAIGHT AND TAPER SHANK



D2 mm	D1 mm	L1 x L2 mm	L3 mm	
M3	3,4	6	93 x 57	9
M4	4,5	8	117 x 75	11
M5	5,5	10	133 x 87	13
M6	6,6	11	142 x 94	15
M8	9,0	15	169 x 114	19
M10	11,0	18	191 x 130	23



D2 mm	D1 mm	L1 x L2 mm	L3 mm		
M6	6,6	11	175 x 94	15	1
M8	9,0	15	212 x 114	19	2
M10	11,0	18	228 x 130	23	2
M12	13,5	20	238 x 140	27	2
M14	15,5	24	281 x 160	31	3
M16	17,5	26	286 x 165	33	3
M18	20,0	30	296 x 175	39	3
M20	22,0	33	334 x 185	43	4