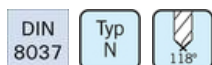


FORMAT Spiral drill bit type 1191



Design: Carbide (K10), DIN 8037, type N.

Right cutting, bright surface, with precise point geometry, steam tempered slots and carbide tipped cutting inserts according to DIN 8010. Point thinning according to DIN 1412, form A. Normal angle of rake, core thickness and core gradient. Delivery from Ø 3 mm: shank with carrier according to DIN 1809

Application: Particularly suitable for spring band steel, hard castings above 300 HB, pure molybdenum and tough bronzes.

Characteristics

Cutting direction: Right

DIN standard: 8037

Type: Twist drill

Point angle: 118 °

Diameter mm	Cutting length mm	Total length mm	Model	Holding system	Material	Article
2	18	45	Profile-cut	Cylindrical	Hard metal	W90A-11910200
2.2	18	45	Profile-cut	Cylindrical	Hard metal	W90A-11910220
2.5	18	45	Profile-cut	Cylindrical	Hard metal	W90A-11910250
2.8	20	50	Profile-cut	Cylindrical	Hard metal	W90A-11910280
3	20	50	Profile-cut	Cylindrical	Hard metal	W90A-11910300
3.1	25	56	Profile-cut	Cylindrical	Hard metal	W90A-11910310
3.2	25	56	Profile-cut	Cylindrical	Hard metal	W90A-11910320
3.3	25	56	Profile-cut	Cylindrical	Hard metal	W90A-11910330
3.4	25	56	Profile-cut	Cylindrical	Hard metal	W90A-11910340
3.5	25	56	Profile-cut	Cylindrical	Hard metal	W90A-11910350
3.6	25	65	Profile-cut	Cylindrical	Hard metal	W90A-11910360
3.7	25	56	Profile-cut	Cylindrical	Hard metal	W90A-11910370
3.8	25	56	Profile-cut	Cylindrical	Hard metal	W90A-11910380
4	25	56	Profile-cut	Cylindrical	Hard metal	W90A-11910400
4.1	28	63	Profile-cut	Cylindrical	Hard metal	W90A-11910410
4.2	28	63	Profile-cut	Cylindrical	Hard metal	W90A-11910420
4.3	28	63	Profile-cut	Cylindrical	Hard metal	W90A-11910430
4.5	28	63	Profile-cut	Cylindrical	Hard metal	W90A-11910450
4.8	28	63	Profile-cut	Cylindrical	Hard metal	W90A-11910480
5	28	63	Profile-cut	Cylindrical	Hard metal	W90A-11910500
5.1	32	71	Profile-cut	Cylindrical	Hard metal	W90A-11910510
5.2	32	71	Profile-cut	Cylindrical	Hard metal	W90A-11910520
5.4	32	71	Profile-cut	Cylindrical	Hard metal	W90A-11910540
5.5	32	71	Profile-cut	Cylindrical	Hard metal	W90A-11910550
5.8	32	71	Profile-cut	Cylindrical	Hard metal	W90A-11910580
6	32	71	Profile-cut	Cylindrical	Hard metal	W90A-11910600
6.5	32	71	Profile-cut	Cylindrical	Hard metal	W90A-11910650
6.8	40	80	Profile-cut	Cylindrical	Hard metal	W90A-11910680
7	40	80	Profile-cut	Cylindrical	Hard metal	W90A-11910700
7.5	40	80	Profile-cut	Cylindrical	Hard metal	W90A-11910750
8	40	80	Profile-cut	Cylindrical	Hard metal	W90A-11910800
8.5	50	90	Profile-cut	Cylindrical	Hard metal	W90A-11910850
9	50	90	Profile-cut	Cylindrical	Hard metal	W90A-11910900

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Diameter mm	Cutting length mm	Total length mm	Model	Holding system	Material	Article
9.5	50	90	Profile-cut	Cylindrical	Hard metal	W90A-11910950
10	56	100	Profile-cut	Cylindrical	Hard metal	W90A-11911000
10.2	56	100	Profile-cut	Cylindrical	Hard metal	W90A-11911020
10.5	56	100	Profile-cut	Cylindrical	Hard metal	W90A-11911050
11	56	100	Profile-cut	Cylindrical	Hard metal	W90A-11911100
11.5	63	112	Profile-cut	Cylindrical	Hard metal	W90A-11911150
12	63	112	Profile-cut	Cylindrical	Hard metal	W90A-11911200
12.5	63	112	Profile-cut	Cylindrical	Hard metal	W90A-11911250
13	63	112	Profile-cut	Cylindrical	Hard metal	W90A-11911300
13.5	71	125	Profile-cut	Cylindrical	Hard metal	W90A-11911350
14	71	125	Profile-cut	Cylindrical	Hard metal	W90A-11911400
15	71	125	Profile-cut	Cylindrical	Hard metal	W90A-11911500
16	80	140	Profile-cut	Cylindrical	Hard metal	W90A-11911600

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