GUHRING Ratio drill without oil feed type 5514

Design: Ultra-finest grain-solid carbide, DIN 6537, type RT 100 U.
Fire coated surface, right cutting with special point geometry and ratio point thinning. Normal angle of rake, core thickness thicker than normal and without core gradient. The drill has a very good self-centring behaviour and produces short chips, even from long-chipping materials.

Carbide application group: K/P ?universal use.
(Ultra-fine grain K05?K50/P05?P50)

Application: For accurate holes with narrow Ø tolerances and good surfaces. Suitable for drilling holes up to 3 x D with the best cutting values. Particularly suitable for long and short-chipping materials such as GGS and ADI, casting materials, grey cast iron, nodular graphite iron and malleable cast iron, high alloy AlSi alloys and alloy steels up to 1200 N/mm² in strength.

Characteristics

Cutting direction: Right
DIN standard: 6537K
Type: Twist drill
Coating: nanoFIRE
Point angle: 140 °

Diameter mm	Cutting length mm	Total length mm	Holding system	Material	Article
3.1	20	62	Cylindrical	Solid carbide	W90A-12000310
3.2	20	62	Cylindrical	Solid carbide	W90A-12000320
3.4	20	62	Cylindrical	Solid carbide	W90A-12000340
3.6	20	62	Cylindrical	Solid carbide	W90A-12000360
3.9	24	66	Cylindrical	Solid carbide	W90A-12000390
4.1	24	66	Cylindrical	Solid carbide	W90A-12000410
4.3	24	66	Cylindrical	Solid carbide	W90A-12000430
4.4	24	66	Cylindrical	Solid carbide	W90A-12000440
4.7	24	66	Cylindrical	Solid carbide	W90A-12000470
4.9	28	66	Cylindrical	Solid carbide	W90A-12000490
5.1	28	66	Cylindrical	Solid carbide	W90A-12000510
5.2	28	66	Cylindrical	Solid carbide	W90A-12000520
5.3	28	66	Cylindrical	Solid carbide	W90A-12000530
5.4	28	66	Cylindrical	Solid carbide	W90A-12000540
5.6	28	66	Cylindrical	Solid carbide	W90A-12000560
5.9	28	66	Cylindrical	Solid carbide	W90A-12000590
6	28	66	Cylindrical	Solid carbide	W90A-12000600
6.1	34	79	Cylindrical	Solid carbide	W90A-12000610
6.2	34	79	Cylindrical	Solid carbide	W90A-12000620
6.3	34	79	Cylindrical	Solid carbide	W90A-12000630
6.4	34	79	Cylindrical	Solid carbide	W90A-12000640
6.6	34	79	Cylindrical	Solid carbide	W90A-12000660
6.7	34	79	Cylindrical	Solid carbide	W90A-12000670
6.9	34	79	Cylindrical	Solid carbide	W90A-12000690
7.1	41	79	Cylindrical	Solid carbide	W90A-12000710
7.2	41	79	Cylindrical	Solid carbide	W90A-12000720
7.3	41	79	Cylindrical	Solid carbide	W90A-12000730
7.6	41	79	Cylindrical	Solid carbide	W90A-12000760
7.7	41	79	Cylindrical	Solid carbide	W90A-12000770
7.9	41	79	Cylindrical	Solid carbide	W90A-12000790
8.1	47	89	Cylindrical	Solid carbide	W90A-12000810

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Diameter mm	Cutting length mm	Total length mm	Holding system	Material	Article
8.2	47	89	Cylindrical	Solid carbide	W90A-12000820
8.3	47	89	Cylindrical	Solid carbide	W90A-12000830
8.4	47	89	Cylindrical	Solid carbide	W90A-12000840
8.6	47	89	Cylindrical	Solid carbide	W90A-12000860
8.7	47	89	Cylindrical	Solid carbide	W90A-12000870
8.9	47	89	Cylindrical	Solid carbide	W90A-12000890
9.1	47	89	Cylindrical	Solid carbide	W90A-12000910
9.2	47	89	Cylindrical	Solid carbide	W90A-12000920
9.4	47	89	Cylindrical	Solid carbide	W90A-12000940
9.6	47	89	Cylindrical	Solid carbide	W90A-12000960
9.7	47	89	Cylindrical	Solid carbide	W90A-12000970
9.8	47	89	Cylindrical	Solid carbide	W90A-12000980
9.9	47	89	Cylindrical	Solid carbide	W90A-12000990
10	47	89	Cylindrical	Solid carbide	W90A-12001000
10.1	55	102	Cylindrical	Solid carbide	W90A-12001010
10.3	55	102	Cylindrical	Solid carbide	W90A-12001030
10.32	55	102	Cylindrical	Solid carbide	W90A-12001032
10.4	55	102	Cylindrical	Solid carbide	W90A-12001040
10.6	55	102	Cylindrical	Solid carbide	W90A-12001060
10.7	55	102	Cylindrical	Solid carbide	W90A-12001070
10.8	55	102	Cylindrical	Solid carbide	W90A-12001080
10.9	55	102	Cylindrical	Solid carbide	W90A-12001090
11.1	55	102	Cylindrical	Solid carbide	W90A-12001110
11.11	55	102	Cylindrical	Solid carbide	W90A-12001111
11.3	55	102	Cylindrical	Solid carbide	W90A-12001130
11.4	55	102	Cylindrical	Solid carbide	W90A-12001140
11.5	55	102	Cylindrical	Solid carbide	W90A-12001150
11.6	55	102	Cylindrical	Solid carbide	W90A-12001160
11.7	55	102	Cylindrical	Solid carbide	W90A-12001170
11.8	55	102	Cylindrical	Solid carbide	W90A-12001180
11.9	55	102	Cylindrical	Solid carbide	W90A-12001190
11.91	55	102	Cylindrical	Solid carbide	W90A-12001191
12	55	102	Cylindrical	Solid carbide	W90A-12001200
12.2	60	107	Cylindrical	Solid carbide	W90A-12001220
12.7	60	107	Cylindrical	Solid carbide	W90A-12001270
13	60	107	Cylindrical	Solid carbide	W90A-12001300
13.7	60	107	Cylindrical	Solid carbide	W90A-12001370
14	60	107	Cylindrical	Solid carbide	W90A-12001400
14.2	65	115	Cylindrical	Solid carbide	W90A-12001420
14.29	65	115	Cylindrical	Solid carbide	W90A-12001429
14.7	65	115	Cylindrical	Solid carbide	W90A-12001470
15.2	65	115	Cylindrical	Solid carbide	W90A-12001520
15.7	65	115	Cylindrical	Solid carbide	W90A-12001570
16.5	73	123	Cylindrical	Solid carbide	W90A-12001650
17	73	123	Cylindrical	Solid carbide	W90A-12001700
17.5	73	123	Cylindrical	Solid carbide	W90A-12001750
18	73	123	Cylindrical	Solid carbide	W90A-12001800
18.5	79	131	Cylindrical	Solid carbide	W90A-12001850
19	79	131	Cylindrical	Solid carbide	W90A-12001900
19.5	79	131	Cylindrical	Solid carbide	W90A-12001950
20	79	131	Cylindrical	Solid carbide	W90A-12002000

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