## **GUHRING Ratio drill without oil feed type 5614**

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 AISi alloys and alloy steels up to 1200 N/mm<sup>2</sup> in strength.

## **Characteristics**

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

Diameter	Cutting length	Total length	Holding system	Material	Article
mm	mm	mm			
3.1	20	62	Whistle notch	Solid carbide	W90A-12030310
3.2	20	62	Whistle notch	Solid carbide	W90A-12030320
3.4	20	62	Whistle notch	Solid carbide	W90A-12030340
3.6	20	62	Whistle notch	Solid carbide	W90A-12030360
3.9	24	66	Whistle notch	Solid carbide	W90A-12030390
4.1	24	66	Whistle notch	Solid carbide	W90A-12030410
4.3	24	66	Whistle notch	Solid carbide	W90A-12030430
4.4	24	66	Whistle notch	Solid carbide	W90A-12030440
4.65	24	66	Whistle notch	Solid carbide	W90A-12030465
4.7	24	66	Whistle notch	Solid carbide	W90A-12030470
4.9	28	66	Whistle notch	Solid carbide	W90A-12030490
5.1	28	66	Whistle notch	Solid carbide	W90A-12030510
5.2	28	66	Whistle notch	Solid carbide	W90A-12030520
5.3	28	66	Whistle notch	Solid carbide	W90A-12030530
5.4	28	66	Whistle notch	Solid carbide	W90A-12030540
5.55	28	66	Whistle notch	Solid carbide	W90A-12030555
5.6	28	66	Whistle notch	Solid carbide	W90A-12030560
5.9	28	66	Whistle notch	Solid carbide	W90A-12030590
6.1	34	79	Whistle notch	Solid carbide	W90A-12030610
6.2	34	79	Whistle notch	Solid carbide	W90A-12030620
6.3	34	79	Whistle notch	Solid carbide	W90A-12030630
6.4	34	79	Whistle notch	Solid carbide	W90A-12030640
6.6	34	79	Whistle notch	Solid carbide	W90A-12030660
6.7	34	79	Whistle notch	Solid carbide	W90A-12030670
6.9	34	79	Whistle notch	Solid carbide	W90A-12030690
7.1	41	79	Whistle notch	Solid carbide	W90A-12030710
7.2	41	79	Whistle notch	Solid carbide	W90A-12030720
7.3	41	79	Whistle notch	Solid carbide	W90A-12030730
7.6	41	79	Whistle notch	Solid carbide	W90A-12030760
7.7	41	79	Whistle notch	Solid carbide	W90A-12030770
7.9	41	79	Whistle notch	Solid carbide	W90A-12030790

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## Drills | FHM Bits

Diameter	Cutting length	Total length	Holding system	Material	Article
mm	mm	mm			
8.1	47	89	Whistle notch	Solid carbide	W90A-12030810
8.2	47	89	Whistle notch	Solid carbide	W90A-12030820
8.3	47	89	Whistle notch	Solid carbide	W90A-12030830
8.4	47	89	Whistle notch	Solid carbide	W90A-12030840
8.6	47	89	Whistle notch	Solid carbide	W90A-12030860
8.7	47	89	Whistle notch	Solid carbide	W90A-12030870
8.9	47	89	Whistle notch	Solid carbide	W90A-12030890
9.1	47	89	Whistle notch	Solid carbide	W90A-12030910
9.2	47	89	Whistle notch	Solid carbide	W90A-12030920
9.25	47	89	Whistle notch	Solid carbide	W90A-12030925
9.4	47	89	Whistle notch	Solid carbide	W90A-12030940
9.6	47	89	Whistle notch	Solid carbide	W90A-12030960
9.7	47	89	Whistle notch	Solid carbide	W90A-12030970
9.8	47	89	Whistle notch	Solid carbide	W90A-12030980
9.9	47	89	Whistle notch	Solid carbide	W90A-12030990
10.1	55	102	Whistle notch	Solid carbide	W90A-12031010
10.3	55	102	Whistle notch	Solid carbide	W90A-12031030
10.32	55	102	Whistle notch	Solid carbide	W90A-12031032
10.4	55	102	Whistle notch	Solid carbide	W90A-12031040
10.6	55	102	Whistle notch	Solid carbide	W90A-12031060
10.7	55	102	Whistle notch	Solid carbide	W90A-12031070
10.8	55	102	Whistle notch	Solid carbide	W90A-12031080
10.9	55	102	Whistle notch	Solid carbide	W90A-12031090
11.1	55	102	Whistle notch	Solid carbide	W90A-12031110
11.11	55	102	Whistle notch	Solid carbide	W90A-12031111
11.3	55	102	Whistle notch	Solid carbide	W90A-12031130
11.4	55	102	Whistle notch	Solid carbide	W90A-12031140
11.6	55	102	Whistle notch	Solid carbide	W90A-12031160
11.7	55	102	Whistle notch	Solid carbide	W90A-12031170
11.8	55	102	Whistle notch	Solid carbide	W90A-12031180
11.9	55	102	Whistle notch	Solid carbide	W90A-12031190
11.91	55	102	Whistle notch	Solid carbide	W90A-12031191
12.2	60	107	Whistle notch	Solid carbide	W90A-12031220
12.7	60	107	Whistle notch	Solid carbide	W90A-12031270
13.7	60	107	Whistle notch	Solid carbide	W90A-12031370
14.2	65	115	Whistle notch	Solid carbide	W90A-12031420
14.29	65	115	Whistle notch	Solid carbide	W90A-12031429
14.7	65	115	Whistle notch	Solid carbide	W90A-12031470
15.2	65	115	Whistle notch	Solid carbide	W90A-12031520
15.7	65	115	Whistle notch	Solid carbide	W90A-12031570
16.5	73	123	Whistle notch	Solid carbide	W90A-12031650
17	73	123	Whistle notch	Solid carbide	W90A-12031700
17.5	73	123	Whistle notch	Solid carbide	W90A-12031750
18	73	123	Whistle notch	Solid carbide	W90A-12031800
18.5	79	131	Whistle notch	Solid carbide	W90A-12031850
19	79	131	Whistle notch	Solid carbide	W90A-12031900
19.5	79	131	Whistle notch	Solid carbide	W90A-12031950
20	79	131	Whistle notch	Solid carbide	W90A-12032000

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