

GUHRING Ratio drill with oil feed type 5611



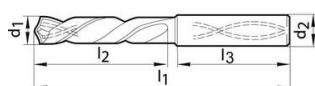
Design: Ultra-fine grain-solid carbide, DIN 6537, type RT 100 U.

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 alignment drilling

with narrow Ø tolerances and good surfaces. Suitable for drilling holes up to 5 x D with high cutting values. Particularly suitable for long and short-chipping materials such as construction and case-hardening steels, steel castings, tempered steels, carbon steels, bronzes, castings, high alloy AlSi alloys and alloy steels up to 1200 N/mm² in strength.



Note: The drills can be sharpened and recoated several times.

With twisted internal cooling through the bar. Twisted internal cooling. The coolant directly accesses the blades and flushes the chips out of the hole.

Characteristics

Cutting direction: Right

DIN standard: 6537L

Type: Twist drill

Coating: nanoFIRE

Cooling channel[Oil feed]: 1

Point angle: 140 °

Diameter mm	Cutting length mm	Total length mm	Model	Holding system	Material	Article
3	28	66			Solid carbide	W90A-12210300
3.1	28	66		Whistle notch	Solid carbide	W90A-12210310
3.17	28	66	Profile-cut	Cylindrical	Hard metal	W90A-12210317
3.2	28	66		Whistle notch	Solid carbide	W90A-12210320
3.25	28	66			Solid carbide	W90A-12210325
3.3	28	66			Solid carbide	W90A-12210330
3.4	28	66		Whistle notch	Solid carbide	W90A-12210340
3.5	28	66	Profile-cut	Cylindrical	Hard metal	W90A-12210350
3.57	28	66			Solid carbide	W90A-12210357
3.6	28	66		Whistle notch	Solid carbide	W90A-12210360
3.7	28	66		Whistle notch	Solid carbide	W90A-12210370
3.8	36	74			Solid carbide	W90A-12210380
3.9	36	74		Whistle notch	Solid carbide	W90A-12210390
3.97	36	74	Profile-cut	Cylindrical	Hard metal	W90A-12210397
4	36	74			Solid carbide	W90A-12210400
4.1	36	74		Whistle notch	Solid carbide	W90A-12210410
4.2	36	74			Solid carbide	W90A-12210420
4.3	36	74		Whistle notch	Solid carbide	W90A-12210430
4.37	36	74	Profile-cut	Cylindrical	Hard metal	W90A-12210437
4.4	36	74		Whistle notch	Solid carbide	W90A-12210440
4.5	36	74	Profile-cut	Cylindrical	Hard metal	W90A-12210450

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Diameter	Cutting length	Total length	Model	Holding system	Material	Article
mm	mm	mm				
4.6	36	74	Profile-cut	Cylindrical	Hard metal	W90A-12210460
4.65	36	74		Whistle notch	Solid carbide	W90A-12210465
4.7	36	74		Whistle notch	Solid carbide	W90A-12210470
4.76	44	82			Solid carbide	W90A-12210476
4.8	44	82			Solid carbide	W90A-12210480
4.9	44	82		Whistle notch	Solid carbide	W90A-12210490
5	44	82			Solid carbide	W90A-12210500
5.1	44	82		Whistle notch	Solid carbide	W90A-12210510
5.16	44	82			Solid carbide	W90A-12210516
5.2	44	82		Whistle notch	Solid carbide	W90A-12210520
5.3	44	82		Whistle notch	Solid carbide	W90A-12210530
5.4	44	82		Whistle notch	Solid carbide	W90A-12210540
5.5	44	82			Solid carbide	W90A-12210550
5.55	44	82		Whistle notch	Solid carbide	W90A-12210555
5.56	44	82			Solid carbide	W90A-12210556
5.6	44	82		Whistle notch	Solid carbide	W90A-12210560
5.7	44	82		Whistle notch	Solid carbide	W90A-12210570
5.8	44	82			Solid carbide	W90A-12210580
5.9	44	82		Whistle notch	Solid carbide	W90A-12210590
5.95	44	82			Solid carbide	W90A-12210595
6	44	82			Solid carbide	W90A-12210600
6.1	53	91		Whistle notch	Solid carbide	W90A-12210610
6.2	53	91		Whistle notch	Solid carbide	W90A-12210620
6.3	53	91		Whistle notch	Solid carbide	W90A-12210630
6.4	53	91		Whistle notch	Solid carbide	W90A-12210640
6.5	53	91	Profile-cut	Cylindrical	Hard metal	W90A-12210650
6.6	53	91		Whistle notch	Solid carbide	W90A-12210660
6.7	53	91		Whistle notch	Solid carbide	W90A-12210670
6.75	53	91			Solid carbide	W90A-12210675
6.8	53	91	Profile-cut	Cylindrical	Hard metal	W90A-12210680
6.9	53	91		Whistle notch	Solid carbide	W90A-12210690
7	53	91	Profile-cut	Cylindrical	Hard metal	W90A-12210700
7.1	53	91		Whistle notch	Solid carbide	W90A-12210710
7.14	53	91			Solid carbide	W90A-12210714
7.2	53	91		Whistle notch	Solid carbide	W90A-12210720
7.3	53	91		Whistle notch	Solid carbide	W90A-12210730
7.4	53	91			Solid carbide	W90A-12210740
7.5	53	91	Profile-cut	Cylindrical	Hard metal	W90A-12210750
7.54	53	91	Profile-cut	Cylindrical	Hard metal	W90A-12210754
7.6	53	91		Whistle notch	Solid carbide	W90A-12210760
7.7	53	91		Whistle notch	Solid carbide	W90A-12210770
7.8	53	91	Profile-cut	Cylindrical	Hard metal	W90A-12210780
7.9	53	91		Whistle notch	Solid carbide	W90A-12210790
7.94	53	91	Profile-cut	Cylindrical	Hard metal	W90A-12210794
8	53	91	Profile-cut	Cylindrical	Hard metal	W90A-12210800
8.1	61	103		Whistle notch	Solid carbide	W90A-12210810
8.2	61	103		Whistle notch	Solid carbide	W90A-12210820
8.3	61	103		Whistle notch	Solid carbide	W90A-12210830
8.33	61	103	Profile-cut	Cylindrical	Hard metal	W90A-12210833
8.4	61	103		Whistle notch	Solid carbide	W90A-12210840
8.5	61	103	Profile-cut	Cylindrical	Hard metal	W90A-12210850
8.6	61	103		Whistle notch	Solid carbide	W90A-12210860
8.7	61	103		Whistle notch	Solid carbide	W90A-12210870

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mm	mm	mm				
8.73	61	103	Profile-cut	Cylindrical	Hard metal	W90A-12210873
8.8	61	103	Profile-cut	Cylindrical	Hard metal	W90A-12210880
8.9	61	103		Whistle notch	Solid carbide	W90A-12210890
9	61	103	Profile-cut	Cylindrical	Hard metal	W90A-12210900
9.1	61	103		Whistle notch	Solid carbide	W90A-12210910
9.13	61	103	Profile-cut	Cylindrical	Hard metal	W90A-12210913
9.2	61	103		Whistle notch	Solid carbide	W90A-12210920
9.25	61	103		Whistle notch	Solid carbide	W90A-12210925
9.3	61	103	Profile-cut	Cylindrical	Hard metal	W90A-12210930
9.4	61	103		Whistle notch	Solid carbide	W90A-12210940
9.5	61	103			Solid carbide	W90A-12210950
9.52	61	103			Solid carbide	W90A-12210952
9.6	61	103		Whistle notch	Solid carbide	W90A-12210960
9.7	61	103		Whistle notch	Solid carbide	W90A-12210970
9.8	61	103			Solid carbide	W90A-12210980
9.9	61	103		Whistle notch	Solid carbide	W90A-12210990
9.92	61	103			Solid carbide	W90A-12210992
10	61	103			Solid carbide	W90A-12211000
10.1	71	118		Whistle notch	Solid carbide	W90A-12211010
10.2	71	118			Solid carbide	W90A-12211020
10.3	71	118		Whistle notch	Solid carbide	W90A-12211030
10.32	71	118	Profile-cut	Cylindrical	Hard metal	W90A-12211032
10.4	71	118		Whistle notch	Solid carbide	W90A-12211040
10.5	71	118			Solid carbide	W90A-12211050
10.6	71	118		Whistle notch	Solid carbide	W90A-12211060
10.7	71	118	Profile-cut	Cylindrical	Hard metal	W90A-12211070
10.8	71	118		Whistle notch	Solid carbide	W90A-12211080
10.9	71	118		Whistle notch	Solid carbide	W90A-12211090
11	71	118	Profile-cut	Cylindrical	Hard metal	W90A-12211100
11.1	71	118		Whistle notch	Solid carbide	W90A-12211110
11.11	71	118	Profile-cut	Cylindrical	Hard metal	W90A-12211111
11.2	71	118	Profile-cut	Cylindrical	Hard metal	W90A-12211120
11.3	71	118		Whistle notch	Solid carbide	W90A-12211130
11.4	71	118		Whistle notch	Solid carbide	W90A-12211140
11.5	71	118	Profile-cut	Cylindrical	Hard metal	W90A-12211150
11.6	71	118		Whistle notch	Solid carbide	W90A-12211160
11.7	71	118	Profile-cut	Cylindrical	Hard metal	W90A-12211170
11.8	71	118		Whistle notch	Solid carbide	W90A-12211180
11.9	71	118		Whistle notch	Solid carbide	W90A-12211190
11.91	71	118			Solid carbide	W90A-12211191
12	71	118	Profile-cut	Cylindrical	Hard metal	W90A-12211200
12.2	77	124		Whistle notch	Solid carbide	W90A-12211220
12.5	77	124			Solid carbide	W90A-12211250
12.7	77	124	Profile-cut	Cylindrical	Hard metal	W90A-12211270
13	77	124			Solid carbide	W90A-12211300
13.5	77	124			Solid carbide	W90A-12211350
13.7	77	124	Profile-cut	Cylindrical	Hard metal	W90A-12211370
14	77	124	Profile-cut	Cylindrical	Hard metal	W90A-12211400
14.2	83	133		Whistle notch	Solid carbide	W90A-12211420
14.29	77	133			Solid carbide	W90A-12211429
14.5	83	133	Profile-cut	Cylindrical	Hard metal	W90A-12211450
14.7	83	133	Profile-cut	Cylindrical	Hard metal	W90A-12211470
15	83	133	Profile-cut	Cylindrical	Hard metal	W90A-12211500

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mm	mm	mm				
15.2	83	133		Whistle notch	Solid carbide	W90A-12211520
15.5	83	133			Solid carbide	W90A-12211550
15.7	83	133			Solid carbide	W90A-12211570
16	83	133			Solid carbide	W90A-12211600
16.5	93	143	Profile-cut	Cylindrical	Hard metal	W90A-12211650
17	93	143			Solid carbide	W90A-12211700
17.5	93	143			Solid carbide	W90A-12211750
18	93	143	Profile-cut	Cylindrical	Hard metal	W90A-12211800
18.5	101	153			Solid carbide	W90A-12211850
19	101	153			Solid carbide	W90A-12211900
19.05	101	153		Whistle notch	Solid carbide	W90A-12211905
19.5	101	153	Profile-cut	Cylindrical	Hard metal	W90A-12211950
20	101	153	Profile-cut	Cylindrical	Hard metal	W90A-12212000

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