

GUHRING Ratio drill with oil feed type 5611

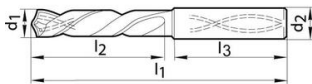


Design: Ultra-fine grain-solid carbide, DIN 6537, type RT 100 U.

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 AISi 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	23409803
3.17	28	66	Profile-cut	Cylindrical	Hard metal	23409804
3.2	28	66	Profile-cut	Cylindrical	Hard metal	12043477
3.25	28	66			Solid carbide	23409805
3.3	28	66			Solid carbide	23409806
3.4	28	66		Whistle notch	Solid carbide	12063516
3.5	28	66	Profile-cut	Cylindrical	Hard metal	23409807
3.57	28	66			Solid carbide	23409808
3.6	28	66	Profile-cut	Cylindrical	Hard metal	12043478
3.8	36	74			Solid carbide	23409809
3.9	36	74	Profile-cut	Cylindrical	Hard metal	12043480
3.97	36	74	Profile-cut	Cylindrical	Hard metal	23409810
4	36	74			Solid carbide	23409811
4.2	36	74			Solid carbide	23409812
4.3	36	74		Whistle notch	Solid carbide	12063521
4.37	36	74	Profile-cut	Cylindrical	Hard metal	23409813
4.4	36	74	Profile-cut	Cylindrical	Hard metal	12043482
4.5	36	74	Profile-cut	Cylindrical	Hard metal	23409814
4.6	36	74	Profile-cut	Cylindrical	Hard metal	23409815
4.7	36	74	Profile-cut	Cylindrical	Hard metal	12043484
4.76	44	82			Solid carbide	23409816

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Diameter	Cutting length	Total length	Model	Holding system	Material	Article
mm	mm	mm				
4.8	44	82			Solid carbide	23409817
4.9	44	82	Profile-cut	Cylindrical	Hard metal	12043485
5	44	82			Solid carbide	23409818
5.1	44	82		Whistle notch	Solid carbide	12063526
5.16	44	82			Solid carbide	23409819
5.3	44	82	Profile-cut	Cylindrical	Hard metal	12043487
5.5	44	82			Solid carbide	23409820
5.56	44	82			Solid carbide	23409821
5.7	44	82	Profile-cut	Cylindrical	Hard metal	12043491
5.8	44	82			Solid carbide	23409822
5.95	44	82			Solid carbide	23409823
6	44	82			Solid carbide	23409824
6.2	53	91		Whistle notch	Solid carbide	12063535
6.35	53	91			Solid carbide	23409825
6.4	53	91	Profile-cut	Cylindrical	Hard metal	12043495
6.5	53	91	Profile-cut	Cylindrical	Hard metal	23409826
6.6	53	91		Whistle notch	Solid carbide	12063538
6.7	53	91	Profile-cut	Cylindrical	Hard metal	12043496
6.75	53	91			Solid carbide	23409827
6.8	53	91	Profile-cut	Cylindrical	Hard metal	23409828
7	53	91	Profile-cut	Cylindrical	Hard metal	23409829
7.1	53	91	Profile-cut	Cylindrical	Hard metal	12043498
7.14	53	91			Solid carbide	23409830
7.4	53	91			Solid carbide	23409831
7.5	53	91	Profile-cut	Cylindrical	Hard metal	23409832
7.54	53	91	Profile-cut	Cylindrical	Hard metal	23409833
7.8	53	91	Profile-cut	Cylindrical	Hard metal	23409834
7.9	53	91	Profile-cut	Cylindrical	Hard metal	12043503
7.94	53	91	Profile-cut	Cylindrical	Hard metal	23409835
8	53	91	Profile-cut	Cylindrical	Hard metal	23409836
8.1	53	103	Profile-cut	Cylindrical	Hard metal	12043504
8.2	61	103		Whistle notch	Solid carbide	12063548
8.33	61	103	Profile-cut	Cylindrical	Hard metal	23409837
8.4	61	103	Profile-cut	Cylindrical	Hard metal	12043506
8.5	61	103	Profile-cut	Cylindrical	Hard metal	23409838
8.6	61	103		Whistle notch	Solid carbide	12063551
8.7	61	103	Profile-cut	Cylindrical	Hard metal	12043507
8.73	61	103	Profile-cut	Cylindrical	Hard metal	23409839
8.8	61	103	Profile-cut	Cylindrical	Hard metal	23409840
9	61	103	Profile-cut	Cylindrical	Hard metal	23409841
9.13	61	103	Profile-cut	Cylindrical	Hard metal	23409842
9.3	61	103	Profile-cut	Cylindrical	Hard metal	23409843
9.5	61	103			Solid carbide	23409844
9.52	61	103			Solid carbide	23409845
9.8	61	103			Solid carbide	23409846
9.92	61	103			Solid carbide	23409847
10	61	103			Solid carbide	23409848
10.2	71	118			Solid carbide	23409849
10.3	71	118		Whistle notch	Solid carbide	12063562
10.32	71	118	Profile-cut	Cylindrical	Hard metal	23409850
10.4	71	118	Profile-cut	Cylindrical	Hard metal	12043517
10.5	71	118			Solid carbide	23409851
10.6	71	118	Profile-cut	Cylindrical	Hard metal	12043518

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Diameter	Cutting length	Total length	Model	Holding system	Material	Article
mm	mm	mm				
10.7	71	118	Profile-cut	Cylindrical	Hard metal	23409852
10.8	71	118	Profile-cut	Cylindrical	Hard metal	12043519
11	71	118	Profile-cut	Cylindrical	Hard metal	23409853
11.1	71	118	Profile-cut	Cylindrical	Hard metal	12043521
11.11	71	118	Profile-cut	Cylindrical	Hard metal	23409854
11.2	71	118	Profile-cut	Cylindrical	Hard metal	23409855
11.4	71	118	Profile-cut	Cylindrical	Hard metal	12043523
11.5	71	118	Profile-cut	Cylindrical	Hard metal	23409856
11.7	71	118	Profile-cut	Cylindrical	Hard metal	23409857
11.91	71	118			Solid carbide	23409858
12	71	118	Profile-cut	Cylindrical	Hard metal	23409859
12.5	77	124			Solid carbide	23409860
12.7	77	124	Profile-cut	Cylindrical	Hard metal	23409861
13	77	124			Solid carbide	23409862
13.5	77	124			Solid carbide	23409863
13.7	77	124	Profile-cut	Cylindrical	Hard metal	23409864
14	77	124	Profile-cut	Cylindrical	Hard metal	23409865
14.29	77	133			Solid carbide	23409866
14.5	83	133	Profile-cut	Cylindrical	Hard metal	23409867
14.7	83	133	Profile-cut	Cylindrical	Hard metal	23409868
15	83	133	Profile-cut	Cylindrical	Hard metal	23409869
15.2	83	133	Profile-cut	Cylindrical	Hard metal	12043529
15.5	83	133			Solid carbide	23409870
15.7	83	133			Solid carbide	23409871
16	83	133			Solid carbide	23409872
16.5	93	143	Profile-cut	Cylindrical	Hard metal	23409873
17	93	143			Solid carbide	23409874
17.5	93	143			Solid carbide	23409875
18	93	143	Profile-cut	Cylindrical	Hard metal	23409876
18.5	101	153			Solid carbide	23409877
19	61	103	Profile-cut	Cylindrical	Hard metal	12043509
19	101	153			Solid carbide	23409878
19.05	101	153	Profile-cut	Cylindrical	Hard metal	12043530
19.5	101	153	Profile-cut	Cylindrical	Hard metal	23409879
20	101	153	Profile-cut	Cylindrical	Hard metal	23409880
	28	66	Profile-cut	Cylindrical	Hard metal	12043479
	28	66	Profile-cut	Cylindrical	Hard metal	12043476
	36	74	Profile-cut	Cylindrical	Hard metal	12043481
	36	74	Profile-cut	Cylindrical	Hard metal	12043483
	44	82	Profile-cut	Cylindrical	Hard metal	12043490
	44	82	Profile-cut	Cylindrical	Hard metal	12043488
	44	82	Profile-cut	Cylindrical	Hard metal	12043486
	44	82	Profile-cut	Cylindrical	Hard metal	12043492
	44	82	Profile-cut	Cylindrical	Hard metal	12043489
	44	91	Profile-cut	Cylindrical	Hard metal	12043494
	44	91	Profile-cut	Cylindrical	Hard metal	12043493
	53	91	Profile-cut	Cylindrical	Hard metal	12043500
	53	91	Profile-cut	Cylindrical	Hard metal	12043499
	53	91	Profile-cut	Cylindrical	Hard metal	12043502
	53	91	Profile-cut	Cylindrical	Hard metal	12043501
	53	91	Profile-cut	Cylindrical	Hard metal	12043497
	53	103	Profile-cut	Cylindrical	Hard metal	12043505
	61	103	Profile-cut	Cylindrical	Hard metal	12043511

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Diameter mm	Cutting length mm	Total length mm	Model	Holding system	Material	Article
	61	103	Profile-cut	Cylindrical	Hard metal	12043508
	61	103	Profile-cut	Cylindrical	Hard metal	12043514
	61	103	Profile-cut	Cylindrical	Hard metal	12043513
	61	103	Profile-cut	Cylindrical	Hard metal	12043515
	61	103	Profile-cut	Cylindrical	Hard metal	12043512
	61	103	Profile-cut	Cylindrical	Hard metal	12043510
	61	118	Profile-cut	Cylindrical	Hard metal	12043516
	71	118	Profile-cut	Cylindrical	Hard metal	12043522
	71	118	Profile-cut	Cylindrical	Hard metal	12043525
	71	118	Profile-cut	Cylindrical	Hard metal	12043520
	71	118	Profile-cut	Cylindrical	Hard metal	12043526
	71	118	Profile-cut	Cylindrical	Hard metal	12043524
	77	124	Profile-cut	Cylindrical	Hard metal	12043527
	77	133	Profile-cut	Cylindrical	Hard metal	12043528

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