

GUHRING Ratio drill without oil feed type 5515



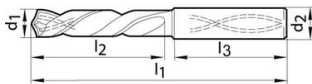
Design: Ultra-fine grain-solid carbide, DIN 6537, type RT 100 U.

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.

Characteristics

Cutting direction: Right

DIN standard: 6537L

Type: Twist drill

Coating: nanoFIRE

Point angle: 140 °

Diameter mm	Cutting length mm	Total length mm	Holding system	Material	Article
3	28	66	Cylindrical	Solid carbide	W90A-12120300
3.1	28	66	Cylindrical	Solid carbide	W90A-12120310
3.17	28	66	Cylindrical	Solid carbide	W90A-12120317
3.2	28	66	Cylindrical	Solid carbide	W90A-12120320
3.25	28	66	Cylindrical	Solid carbide	W90A-12120325
3.3	28	66	Cylindrical	Solid carbide	W90A-12120330
3.4	28	66	Cylindrical	Solid carbide	W90A-12120340
3.5	28	66	Cylindrical	Solid carbide	W90A-12120350
3.57	28	66	Cylindrical	Solid carbide	W90A-12120357
3.6	28	66	Cylindrical	Solid carbide	W90A-12120360
3.7	28	66	Cylindrical	Solid carbide	W90A-12120370
3.8	36	74	Cylindrical	Solid carbide	W90A-12120380
3.9	36	74	Cylindrical	Solid carbide	W90A-12120390
3.97	36	74	Cylindrical	Solid carbide	W90A-12120397
4	36	74	Cylindrical	Solid carbide	W90A-12120400
4.1	36	74	Cylindrical	Solid carbide	W90A-12120410
4.2	36	74	Cylindrical	Solid carbide	W90A-12120420
4.3	36	74	Cylindrical	Solid carbide	W90A-12120430
4.37	36	74	Cylindrical	Solid carbide	W90A-12120437
4.4	36	74	Cylindrical	Solid carbide	W90A-12120440
4.5	36	74	Cylindrical	Solid carbide	W90A-12120450
4.6	36	74	Cylindrical	Solid carbide	W90A-12120460
4.65	36	74	Cylindrical	Solid carbide	W90A-12120465
4.7	36	74	Cylindrical	Solid carbide	W90A-12120470
4.76	44	82	Cylindrical	Solid carbide	W90A-12120476

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Diameter	Cutting length	Total length	Holding system	Material	Article
mm	mm	mm			
4.8	44	82	Cylindrical	Solid carbide	W90A-12120480
4.9	44	82	Cylindrical	Solid carbide	W90A-12120490
5	44	82	Cylindrical	Solid carbide	W90A-12120500
5.1	44	82	Cylindrical	Solid carbide	W90A-12120510
5.16	44	82	Cylindrical	Solid carbide	W90A-12120516
5.2	44	82	Cylindrical	Solid carbide	W90A-12120520
5.3	44	82	Cylindrical	Solid carbide	W90A-12120530
5.4	44	82	Cylindrical	Solid carbide	W90A-12120540
5.5	44	82	Cylindrical	Solid carbide	W90A-12120550
5.55	44	82	Cylindrical	Solid carbide	W90A-12120555
5.56	44	82	Cylindrical	Solid carbide	W90A-12120556
5.6	44	82	Cylindrical	Solid carbide	W90A-12120560
5.7	44	82	Cylindrical	Solid carbide	W90A-12120570
5.8	44	82	Cylindrical	Solid carbide	W90A-12120580
5.9	44	82	Cylindrical	Solid carbide	W90A-12120590
5.95	44	82	Cylindrical	Solid carbide	W90A-12120595
6	44	82	Cylindrical	Solid carbide	W90A-12120600
6.1	53	91	Cylindrical	Solid carbide	W90A-12120610
6.2	53	91	Cylindrical	Solid carbide	W90A-12120620
6.3	53	91	Cylindrical	Solid carbide	W90A-12120630
6.35	53	91	Cylindrical	Solid carbide	W90A-12120635
6.4	53	91	Cylindrical	Solid carbide	W90A-12120640
6.5	53	91	Cylindrical	Solid carbide	W90A-12120650
6.6	53	91	Cylindrical	Solid carbide	W90A-12120660
6.7	53	91	Cylindrical	Solid carbide	W90A-12120670
6.75	53	91	Cylindrical	Solid carbide	W90A-12120675
6.8	53	91	Cylindrical	Solid carbide	W90A-12120680
6.9	53	91	Cylindrical	Solid carbide	W90A-12120690
7	53	91	Cylindrical	Solid carbide	W90A-12120700
7.1	53	91	Cylindrical	Solid carbide	W90A-12120710
7.14	53	91	Cylindrical	Solid carbide	W90A-12120714
7.2	53	91	Cylindrical	Solid carbide	W90A-12120720
7.3	53	91	Cylindrical	Solid carbide	W90A-12120730
7.4	53	91	Cylindrical	Solid carbide	W90A-12120740
7.5	53	91	Cylindrical	Solid carbide	W90A-12120750
7.54	53	91	Cylindrical	Solid carbide	W90A-12120754
7.6	53	91	Cylindrical	Solid carbide	W90A-12120760
7.7	53	91	Cylindrical	Solid carbide	W90A-12120770
7.8	53	91	Cylindrical	Solid carbide	W90A-12120780
7.9	53	91	Cylindrical	Solid carbide	W90A-12120790
7.94	53	91	Cylindrical	Solid carbide	W90A-12120794
8	53	91	Cylindrical	Solid carbide	W90A-12120800
8.1	61	103	Cylindrical	Solid carbide	W90A-12120810
8.2	61	103	Cylindrical	Solid carbide	W90A-12120820
8.3	61	103	Cylindrical	Solid carbide	W90A-12120830
8.33	61	103	Cylindrical	Solid carbide	W90A-12120833
8.4	61	103	Cylindrical	Solid carbide	W90A-12120840
8.5	61	103	Cylindrical	Solid carbide	W90A-12120850
8.6	61	103	Cylindrical	Solid carbide	W90A-12120860
8.7	61	103	Cylindrical	Solid carbide	W90A-12120870
8.73	61	103	Cylindrical	Solid carbide	W90A-12120873
8.8	61	103	Cylindrical	Solid carbide	W90A-12120880
8.9	61	103	Cylindrical	Solid carbide	W90A-12120890

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Diameter	Cutting length	Total length	Holding system	Material	Article
mm	mm	mm			
9	61	103	Cylindrical	Solid carbide	W90A-12120900
9.1	61	103	Cylindrical	Solid carbide	W90A-12120910
9.13	61	103	Cylindrical	Solid carbide	W90A-12120913
9.2	61	103	Cylindrical	Solid carbide	W90A-12120920
9.25	61	103	Cylindrical	Solid carbide	W90A-12120925
9.3	61	103	Cylindrical	Solid carbide	W90A-12120930
9.4	61	103	Cylindrical	Solid carbide	W90A-12120940
9.5	61	103	Cylindrical	Solid carbide	W90A-12120950
9.52	61	103	Cylindrical	Solid carbide	W90A-12120952
9.6	61	103	Cylindrical	Solid carbide	W90A-12120960
9.7	61	103	Cylindrical	Solid carbide	W90A-12120970
9.8	61	103	Cylindrical	Solid carbide	W90A-12120980
9.9	61	103	Cylindrical	Solid carbide	W90A-12120990
9.92	61	103	Cylindrical	Solid carbide	W90A-12120992
10	61	103	Cylindrical	Solid carbide	W90A-12121000
10.1	71	118	Cylindrical	Solid carbide	W90A-12121010
10.2	71	118	Cylindrical	Solid carbide	W90A-12121020
10.3	71	118	Cylindrical	Solid carbide	W90A-12121030
10.32	71	118	Cylindrical	Solid carbide	W90A-12121032
10.4	71	118	Cylindrical	Solid carbide	W90A-12121040
10.5	71	118	Cylindrical	Solid carbide	W90A-12121050
10.6	71	118	Cylindrical	Solid carbide	W90A-12121060
10.7	71	118	Cylindrical	Solid carbide	W90A-12121070
10.8	71	118	Cylindrical	Solid carbide	W90A-12121080
10.9	71	118	Cylindrical	Solid carbide	W90A-12121090
11	71	118	Cylindrical	Solid carbide	W90A-12121100
11.1	71	118	Cylindrical	Solid carbide	W90A-12121110
11.11	71	118	Cylindrical	Solid carbide	W90A-12121111
11.2	71	118	Cylindrical	Solid carbide	W90A-12121120
11.3	71	118	Cylindrical	Solid carbide	W90A-12121130
11.4	71	118	Cylindrical	Solid carbide	W90A-12121140
11.5	71	118	Cylindrical	Solid carbide	W90A-12121150
11.6	71	118	Cylindrical	Solid carbide	W90A-12121160
11.7	71	118	Cylindrical	Solid carbide	W90A-12121170
11.8	71	118	Cylindrical	Solid carbide	W90A-12121180
11.9	71	118	Cylindrical	Solid carbide	W90A-12121190
11.91	71	118	Cylindrical	Solid carbide	W90A-12121191
12	71	118	Cylindrical	Solid carbide	W90A-12121200
12.2	77	124	Cylindrical	Solid carbide	W90A-12121220
12.5	77	124	Cylindrical	Solid carbide	W90A-12121250
12.7	77	124	Cylindrical	Solid carbide	W90A-12121270
13	77	124	Cylindrical	Solid carbide	W90A-12121300
13.5	77	124	Cylindrical	Solid carbide	W90A-12121350
13.7	77	124	Cylindrical	Solid carbide	W90A-12121370
14	77	124	Cylindrical	Solid carbide	W90A-12121400
14.2	83	133	Cylindrical	Solid carbide	W90A-12121420
14.29	83	133	Cylindrical	Solid carbide	W90A-12121429
14.5	83	133	Cylindrical	Solid carbide	W90A-12121450
14.7	83	133	Cylindrical	Solid carbide	W90A-12121470
15	83	133	Cylindrical	Solid carbide	W90A-12121500
15.2	83	133	Cylindrical	Solid carbide	W90A-12121520
15.5	83	133	Cylindrical	Solid carbide	W90A-12121550
15.7	83	133	Cylindrical	Solid carbide	W90A-12121570

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mm	mm	mm			
16	83	133	Cylindrical	Solid carbide	W90A-12121600
16.5	93	143	Cylindrical	Solid carbide	W90A-12121650
17	93	143	Cylindrical	Solid carbide	W90A-12121700
17.5	93	143	Cylindrical	Solid carbide	W90A-12121750
18	93	143	Cylindrical	Solid carbide	W90A-12121800
18.5	101	153	Cylindrical	Solid carbide	W90A-12121850
19	101	153	Cylindrical	Solid carbide	W90A-12121900
19.5	101	153	Cylindrical	Solid carbide	W90A-12121950
20	101	153	Cylindrical	Solid carbide	W90A-12122000

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