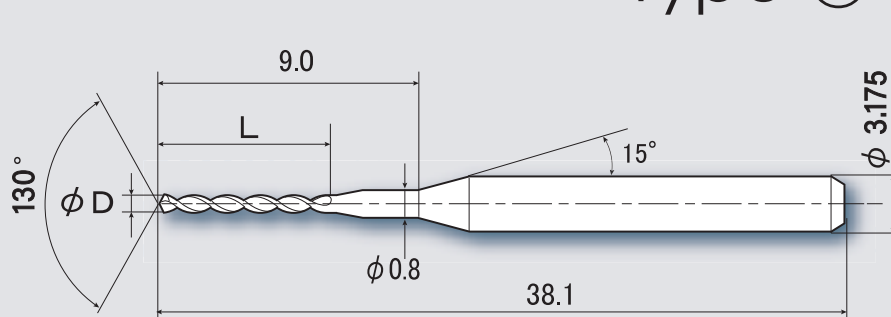


FMD

REGULAR
標準QFD
ENGINEERING DRILL®

QFD エンジニアリングドリル®

超微粒子超硬合金ドリル $\phi D: 0.020 \sim 0.095$
Made of only micro-grain carbide超硬一体ドリルで芯ブレを減少。
高精度微細加工を可能にします。Carbide One-piece drill reduce run-out on drilling.
Provide high-accuracy drilling.マイナス公差
Minus ToleranceENGINEERING DRILL®
Type-① ϕD 公差: $+0, -0.003\text{mm}$
 ϕD Tolerance

径 ϕD	型番 Description	溝長 L	形状 Type	定価 Unit Price
0.020	QFD-0020-MN0.25	0.25	①	¥20,000
0.025	QFD-0025-MN0.30	0.30	①	¥15,600
0.030	QFD-0030-MN0.35	0.35	①	¥14,400
0.035	QFD-0035-MN0.40	0.40	①	¥13,000
0.040	QFD-0040-MN0.50	0.50	①	¥12,600
0.045	QFD-0045-MN0.55	0.55	①	¥10,000
0.050	QFD-0050-MN0.60	0.60	①	¥9,130
0.055	QFD-0055-MN0.65	0.65	①	¥8,775
0.060	QFD-0060-MN0.70	0.70	①	¥7,500
0.065	QFD-0065-MN0.75	0.75	①	¥7,500
0.070	QFD-0070-MN0.85	0.85	①	¥7,200
0.075	QFD-0075-MN0.90	0.90	①	¥7,200
0.080	QFD-0080-MN0.96	0.96	①	¥6,000
0.085	QFD-0085-MN1.00	1.00	①	¥6,000
0.090	QFD-0090-MN1.10	1.10	①	¥5,600
0.095	QFD-0095-MN1.10	1.10	①	¥5,600

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QFD
ENGINEERING DRILL®

REGULAR
標準

QFD エンジニアリングドリル®

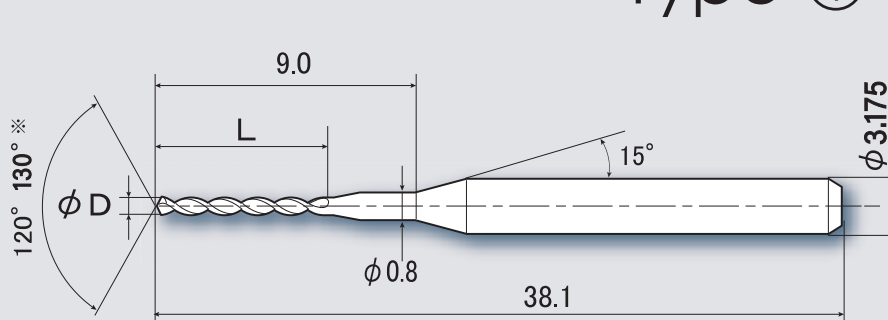
超微粒子超合金ドリルφD:0.020~0.390
Made of only micro-grain carbide

超硬一体ドリルで芯ブレを減少。
高精度微細加工を可能にします。

Carbide One-piece drill reduce run-out on drilling.
Provide high-accuracy drilling.

プラス公差
Plus Tolerance

ENGINEERING DRILL®
Type-①



φD 公差 : +0.003, -0mm
φD Tolerance

※Φ0.10未満

径 φD	型番 Description	溝長 L	形状 Type	定価 Unit Price
0.020	QFD-0020-PN0.25	0.25	①	¥20,000
0.025	QFD-0025-PN0.30	0.30	①	¥15,600
0.030	QFD-0030-PN0.35	0.35	①	¥14,400
0.035	QFD-0035-PN0.40	0.40	①	¥13,000
0.040	QFD-0040-PN0.50	0.50	①	¥12,600
0.045	QFD-0045-PN0.55	0.55	①	¥10,000
0.050	QFD-0050-PN0.60	0.60	①	¥9,130
0.055	QFD-0055-PN0.65	0.65	①	¥8,775
0.060	QFD-0060-PN0.70	0.70	①	¥7,500
0.065	QFD-0065-PN0.75	0.75	①	¥7,500
0.070	QFD-0070-PN0.85	0.85	①	¥7,200
0.075	QFD-0075-PN0.90	0.90	①	¥7,200
0.080	QFD-0080-PN0.96	0.96	①	¥6,000
0.085	QFD-0085-PN1.00	1.00	①	¥6,000
0.090	QFD-0090-PN1.10	1.10	①	¥5,600
0.095	QFD-0095-PN1.10	1.10	①	¥5,600
0.100	QFD-0100-PN1.20	1.20	①	¥3,250
0.110	QFD-0110-PN1.30	1.30	①	¥3,250
0.120	QFD-0120-PN1.40	1.40	①	¥3,250
0.130	QFD-0130-PN1.60	1.60	①	¥3,250
0.140	QFD-0140-PN1.70	1.70	①	¥3,250
0.150	QFD-0150-PN1.80	1.80	①	¥3,250
0.160	QFD-0160-PN1.90	1.90	①	¥3,250
0.170	QFD-0170-PN2.00	2.00	①	¥3,250
0.180	QFD-0180-PN2.20	2.20	①	¥3,250
0.190	QFD-0190-PN2.30	2.30	①	¥3,250
0.200	QFD-0200-PN2.40	2.40	①	¥3,250

径	型番	溝長	形状	定価
φD	Description	L	Type	Unit Price
0.210	QFD-0210-PN2.50	2.50	①	¥3,250
0.220	QFD-0220-PN2.60	2.60	①	¥3,250
0.230	QFD-0230-PN2.80	2.80	①	¥3,250
0.240	QFD-0240-PN2.90	2.90	①	¥3,250
0.250	QFD-0250-PN3.00	3.00	①	¥3,250
0.260	QFD-0260-PN3.10	3.10	①	¥3,250
0.270	QFD-0270-PN3.20	3.20	①	¥3,250
0.280	QFD-0280-PN3.30	3.30	①	¥3,250
0.290	QFD-0290-PN3.50	3.50	①	¥3,250
0.300	QFD-0300-PN3.60	3.60	①	¥3,250
0.310	QFD-0310-PN3.70	3.70	①	¥3,250
0.320	QFD-0320-PN3.80	3.80	①	¥3,250
0.330	QFD-0330-PN4.00	4.00	①	¥3,250
0.340	QFD-0340-PN4.10	4.10	①	¥3,250
0.350	QFD-0350-PN4.20	4.20	①	¥3,250
0.360	QFD-0360-PN4.30	4.30	①	¥3,250
0.370	QFD-0370-PN4.40	4.40	①	¥3,250
0.380	QFD-0380-PN4.60	4.60	①	¥3,250
0.390	QFD-0390-PN4.70	4.70	①	¥3,250

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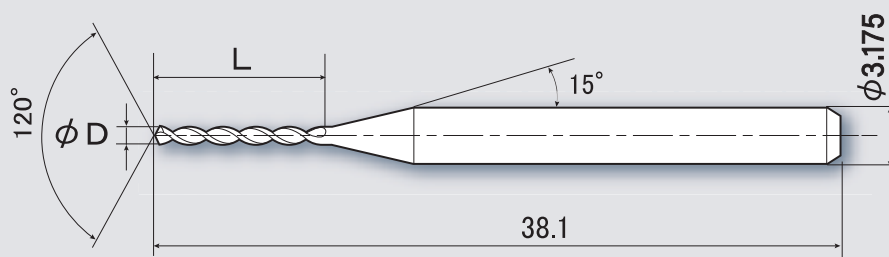
QFD エンジニアリングドリル®

超微粒子超硬合金ドリル $\phi D: 0.400 \sim 0.700$

Made of only micro-grain carbide

超硬一体ドリルで芯ブレを減少。
高精度微細加工を可能にします。

Carbide One-piece drill reduce run-out on drilling.
Provide high-accuracy drilling.

プラス公差
Plus ToleranceENGINEERING DRILL®
Type-②

ϕD 公差 : +0.003, -0mm
 ϕD Tolerance

径 ϕD	型番 Description	溝長 L	形状 Type	定価 Unit Price
0.400	QFD-0400-PN4.80	4.80	②	¥3,250
0.410	QFD-0410-PN4.90	4.90	②	¥3,250
0.420	QFD-0420-PN5.00	5.00	②	¥3,250
0.430	QFD-0430-PN5.20	5.20	②	¥3,250
0.440	QFD-0440-PN5.30	5.30	②	¥3,250
0.450	QFD-0450-PN5.40	5.40	②	¥3,250
0.460	QFD-0460-PN5.50	5.50	②	¥3,250
0.470	QFD-0470-PN5.60	5.60	②	¥3,250
0.480	QFD-0480-PN5.80	5.80	②	¥3,250
0.490	QFD-0490-PN5.90	5.90	②	¥3,250
0.500	QFD-0500-PN6.00	6.00	②	¥3,250
0.510	QFD-0510-PN6.10	6.10	②	¥3,250
0.520	QFD-0520-PN6.20	6.20	②	¥3,250
0.530	QFD-0530-PN6.30	6.30	②	¥3,250
0.540	QFD-0540-PN6.40	6.40	②	¥3,250
0.550	QFD-0550-PN6.60	6.60	②	¥3,250
0.560	QFD-0560-PN6.70	6.70	②	¥3,250
0.570	QFD-0570-PN6.80	6.80	②	¥3,250
0.580	QFD-0580-PN6.90	6.90	②	¥3,250
0.590	QFD-0590-PN7.00	7.00	②	¥3,250

径	型番	溝長	形状	定価
φD	Description	L	Type	Unit Price
0.600	QFD-0600-PN7.20	7.20	②	¥3,250
0.610	QFD-0610-PN7.30	7.30	②	¥3,250
0.620	QFD-0620-PN7.40	7.40	②	¥3,250
0.630	QFD-0630-PN7.50	7.50	②	¥3,250
0.640	QFD-0640-PN7.60	7.60	②	¥3,250
0.650	QFD-0650-PN7.80	7.80	②	¥3,250
0.660	QFD-0660-PN7.90	7.90	②	¥3,250
0.670	QFD-0670-PN8.00	8.00	②	¥3,250
0.680	QFD-0680-PN8.10	8.10	②	¥3,250
0.690	QFD-0690-PN8.20	8.20	②	¥3,250
0.700	QFD-0700-PN8.40	8.40	②	¥3,250

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