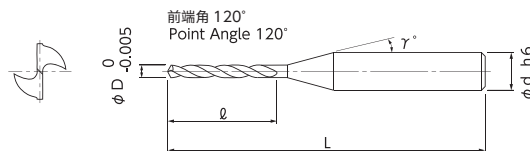


小径钻头。

Miniature pivot drill. Maximum flute length is $L/D \approx 16$ 

- 采用无限涂层，实现了长时间安定的孔加工！
- 适用于精密零件加工的高精度规格。直径公差精度 $0 \sim -0.005\text{mm}$ 。
- Stable and long-life drill realized by MUGEN COATING.
- High accuracy suitable for precision machining. Tolerance of diameter: $0/-0.005\text{mm}$.

单位 [规格: mm / 价格: 日元]
Unit [Size: mm / Retail Price: JPY]

产品代码 Code No.	(D)直径 Dia.	(L)槽长 Flute Length	(γ)颈角 Neck Taper Angle	(d)柄径 Shank Dia.	(L)全长 Overall Length	定价(日元) Retail Price
04-00200-00100	0.1	1.2	15°	3	38	6,300
04-00200-00110	0.11	1.2	15°	3	38	6,300
04-00200-00120	0.12	1.4	15°	3	38	6,300
04-00200-00130	0.13	1.4	15°	3	38	6,300
04-00200-00140	0.14	1.4	15°	3	38	6,300
04-00200-00150	0.15	1.8	15°	3	38	5,400
04-00200-00160	0.16	1.8	15°	3	38	5,700
04-00200-00170	0.17	1.8	15°	3	38	5,700
04-00200-00180	0.18	2.1	15°	3	38	5,700
04-00200-00190	0.19	2.1	15°	3	38	5,700
04-00200-00200	0.2	2.4	15°	3	38	4,600
04-00200-00210	0.21	2.4	15°	3	38	5,300
04-00200-00220	0.22	2.6	15°	3	38	5,300
04-00200-00230	0.23	2.6	15°	3	38	5,300
04-00200-00240	0.24	2.6	15°	3	38	5,300
04-00200-00250	0.25	3	15°	3	38	5,300
04-00200-00260	0.26	3	15°	3	38	4,900
04-00200-00270	0.27	3	15°	3	38	4,900
04-00200-00280	0.28	3.3	15°	3	38	4,900
04-00200-00290	0.29	3.3	15°	3	38	4,900
04-00200-00300	0.3	5	15°	3	38	4,100
04-00200-00310	0.31	5	15°	3	38	4,900
04-00200-00320	0.32	5	15°	3	38	4,900
04-00200-00330	0.33	5	15°	3	38	4,900
04-00200-00340	0.34	5	15°	3	38	4,900
04-00200-00350	0.35	5	15°	3	38	4,400
04-00200-00360	0.36	5	15°	3	38	4,900
04-00200-00370	0.37	5	15°	3	38	4,900
04-00200-00380	0.38	5	15°	3	38	4,900
04-00200-00390	0.39	5	15°	3	38	4,900

产品代码 Code No.	(D)直径 Dia.	(L)槽长 Flute Length	(γ)颈角 Neck Taper Angle	(d)柄径 Shank Dia.	(L)全长 Overall Length	定价(日元) Retail Price
04-00200-00400	0.4	6	15°	3	38	4,100
04-00200-00410	0.41	6	15°	3	38	4,900
04-00200-00420	0.42	6	15°	3	38	4,900
04-00200-00430	0.43	6	15°	3	38	4,900
04-00200-00440	0.44	6	15°	3	38	4,900
04-00200-00450	0.45	6	15°	3	38	4,400
04-00200-00460	0.46	6	15°	3	38	4,900
04-00200-00470	0.47	6	15°	3	38	4,900
04-00200-00480	0.48	6	15°	3	38	4,900
04-00200-00490	0.49	6	15°	3	38	4,900
04-00200-00500	0.5	6	15°	3	38	4,400
04-00200-00510	0.51	6	15°	3	38	4,400
04-00200-00520	0.52	6	15°	3	38	4,400
04-00200-00530	0.53	6	15°	3	38	4,400
04-00200-00540	0.54	6	15°	3	38	4,400
04-00200-00550	0.55	6	15°	3	38	3,600
04-00200-00560	0.56	6	15°	3	38	4,400
04-00200-00570	0.57	6	15°	3	38	4,400
04-00200-00580	0.58	6	15°	3	38	4,400
04-00200-00590	0.59	6	15°	3	38	4,400
04-00200-00600	0.6	7	15°	3	38	3,000
04-00200-00610	0.61	7	15°	3	38	4,400
04-00200-00620	0.62	7	15°	3	38	4,400
04-00200-00630	0.63	7	15°	3	38	4,400
04-00200-00640	0.64	7	15°	3	38	4,400
04-00200-00650	0.65	7	15°	3	38	3,600
04-00200-00660	0.66	7	15°	3	38	4,400
04-00200-00670	0.67	7	15°	3	38	4,400
04-00200-00680	0.68	7	15°	3	38	4,400
04-00200-00690	0.69	7	15°	3	38	4,400

订购方法
How to Order

请指定MDR-R 直径(D)。
When you order, indicate MDR-R (D).

※(γ)为参考值。
※(γ) is reference value.

单位 [规格: mm / 价格: 日元]
Unit [Size : mm / Retail Price : JPY]

产品代码 Code No.	(D)直径 Dia.	(ℓ)槽长 Flute Length	(γ)颈角 Neck Taper Angle	(d)柄径 Shank Dia.	(L)全长 Overall Length	定价(日元) Retail Price
04-00200-00700	0.7	8	15°	3	38	3,000
04-00200-00710	0.71	8	15°	3	38	4,400
04-00200-00720	0.72	8	15°	3	38	4,400
04-00200-00730	0.73	8	15°	3	38	4,400
04-00200-00740	0.74	8	15°	3	38	4,400
04-00200-00750	0.75	8	15°	3	38	3,600
04-00200-00760	0.76	8	15°	3	38	4,400
04-00200-00770	0.77	8	15°	3	38	4,400
04-00200-00780	0.78	8	15°	3	38	4,400
04-00200-00790	0.79	8	15°	3	38	4,400
04-00200-00800	0.8	8	15°	3	38	3,000
04-00200-00810	0.81	8	15°	3	38	4,400
04-00200-00820	0.82	8	15°	3	38	4,400
04-00200-00830	0.83	8	15°	3	38	4,400
04-00200-00840	0.84	8	15°	3	38	4,400
04-00200-00850	0.85	8	15°	3	38	3,600

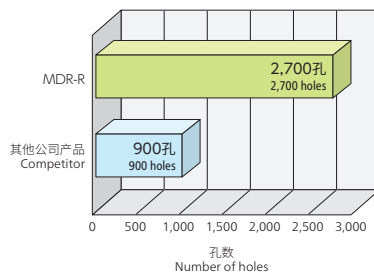
产品代码 Code No.	(D)直径 Dia.	(ℓ)槽长 Flute Length	(γ)颈角 Neck Taper Angle	(d)柄径 Shank Dia.	(L)全长 Overall Length	定价(日元) Retail Price
04-00200-00860	0.86	8	15°	3	38	4,400
04-00200-00870	0.87	8	15°	3	38	4,400
04-00200-00880	0.88	8	15°	3	38	4,400
04-00200-00890	0.89	8	15°	3	38	4,400
04-00200-00900	0.9	8	15°	3	38	3,000
04-00200-00910	0.91	8	15°	3	38	4,400
04-00200-00920	0.92	8	15°	3	38	4,400
04-00200-00930	0.93	8	15°	3	38	4,400
04-00200-00940	0.94	8	15°	3	38	4,400
04-00200-00950	0.95	8	15°	3	38	3,600
04-00200-00960	0.96	8	15°	3	38	4,400
04-00200-00970	0.97	8	15°	3	38	4,400
04-00200-00980	0.98	8	15°	3	38	4,400
04-00200-00990	0.99	8	15°	3	38	4,400
04-00200-01000	1	10	15°	3	38	3,000



加工案例 1 Machining Case 1

S50C 通孔加工 Through hole drilling

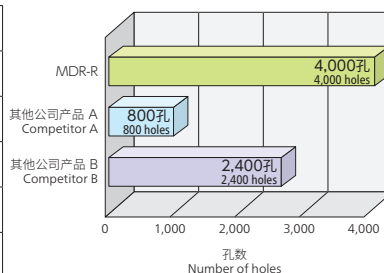
使用刀具 Tool	MDR-R φ1
主轴转速 Spindle speed	10,000 min ⁻¹
进给速度 Feed	500 mm/min
分级量 Step feed	0.5 mm
孔深 Depth of hole	9 mm(通孔) Through
冷却方式 Coolant	水溶性切削油 Water soluble fluid



加工案例 2 Machining Case 2

SUS304 通孔加工 Through hole drilling

使用刀具 Tool	MDR-R φ0.5
主轴转速 Spindle speed	7,000 min ⁻¹
进给速度 Feed	105 mm/min
分级量 Step feed	0.1 mm
孔深 Depth of hole	4 mm(通孔) Through
冷却方式 Coolant	水溶性切削油 Water soluble fluid



P 碳素钢
Carbon Steel

P 合金钢
Alloy Steel

P 调质钢
Prehardened Steel

M 不锈钢
Stainless Steel

N 铝合金
Aluminium Alloy

N 铜合金
Copper

钻头
Drill