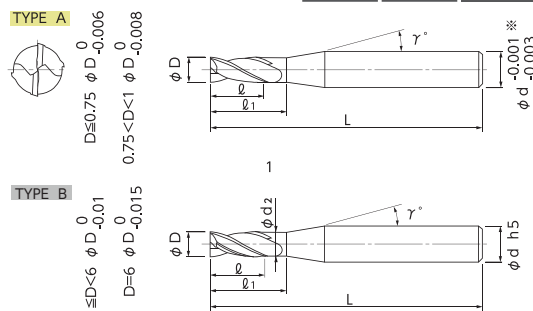


在斜面、曲面上均可稳定钻孔

Stable drilling is realized in various scenes such as inclined surface and curved surface



- 平底小径钻头，按不同规格研发出最优化的刀具设计！
- 孔径低于 $\phi 1$ 的微细钻孔领域，从 $\phi 0.1$ 起，以 0.05 为间隔做为标准品规格， $\phi 1$ 以上间隔为 0.1。
- 不论是斜面或曲面等加工面形状，都可进行稳定的钻孔加工。
- 可进行高效插铣加工，抑制毛刺发生。
- Small diameter drill with flat end profile, tool design developed and optimized for different sizes.
- Developed for the precise drilling field. Standardized every 0.05 sizes from $\phi 0.1 \sim \phi 0.95$, and every 0.1 for over $\phi 1$.
- Stable drilling is realized in various scenes such as inclined surface and curved surface!
- High efficient counter boring is available, also possible to reduce the back burr.

※ 柄径公差按 JIS 标准属于 h4，本公司按 -0.001mm ~ -0.003mm 的范围 [0.002mm] 进行生产。
Shank tolerance is h4 (JIS), NS TOOL produces within 0.002mm from -0.001mm ~ -0.003mm.

★ 返修对应（柄长须在 15mm 以上。详情请咨询本公司。）

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	(L1) 颈长 Under Neck Length	形状 Type	(d2) 颈径 Neck Dia.	(γ) 颈角 Neck Taper Angle	(d) 柄径 Shank Dia.	(L) 全长 Overall Length	定价(日元) Retail Price
04-00230-00010	0.1	0.2	0.3	A	—	9°	4	45	8,400
04-00230-00015	0.15	0.3	0.45		—	9°	4	45	9,000
04-00230-00020	0.2	0.4	0.6		—	9°	4	45	7,800
04-00230-00025	0.25	0.5	0.75		—	9°	4	45	8,300
04-00230-00030	0.3	0.6	0.9		—	9°	4	45	7,700
04-00230-00035	0.35	0.7	1.05		—	9°	4	45	8,200
04-00230-00040	0.4	0.8	1.2		—	9°	4	45	7,600
04-00230-00045	0.45	0.9	1.35		—	9°	4	45	8,000
04-00230-00050	0.5	1	1.5		—	9°	4	45	7,500
04-00230-00055	0.55	1.1	1.65		—	9°	4	45	7,500
04-00230-00060	0.6	1.2	1.8		—	9°	4	45	6,900
04-00230-00065	0.65	1.3	1.95		—	9°	4	45	7,500
04-00230-00070	0.7	1.4	2.1		—	9°	4	45	6,900
04-00230-00075	0.75	1.5	2.25		—	9°	4	45	7,500
04-00230-00080	0.8	1.6	2.4		—	9°	4	45	6,900
04-00230-00085	0.85	1.7	2.55		—	9°	4	45	7,500
04-00230-00090	0.9	1.8	2.7		—	9°	4	45	6,900
04-00230-00095	0.95	1.9	2.85		—	9°	4	45	7,500
04-00230-00100	1	2	3	B	0.95	9°	4	55	6,400
04-00230-00110	1.1	2.2	3.3		1.05	9°	4	55	6,400

订购方法
How to Order

请指定 MFD 直径(D)。
When you order, indicate MFD (D).

※(γ)为参考值。
※(γ) is reference value.

加工案例
Machining Case

M-041

钻头
Drill

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	(ℓ ₁)颈长 Under Neck Length	形状 Type	(d ₂)颈径 Neck Dia.	(γ)颈角 Neck Taper Angle	(d)柄径 Shank Dia.	(L)全长 Overall Length	定价(日元) Retail Price
04-00230-00120	1.2	2.4	3.6	B	1.15	9°	4	55	6,400
04-00230-00130	1.3	2.6	3.9		1.25	9°	4	55	6,400
04-00230-00140	1.4	2.8	4.2		1.35	9°	4	55	6,400
04-00230-00150	1.5	3	4.5		1.45	9°	4	55	6,400
04-00230-00160	1.6	3.2	4.8		1.55	9°	4	55	6,400
04-00230-00170	1.7	3.4	5.1		1.65	9°	4	55	6,400
04-00230-00180	1.8	3.6	5.4		1.75	9°	4	55	6,400
04-00230-00190	1.9	3.8	5.7		1.84	9°	4	55	6,400
★ 04-00230-00200	2	4	6		1.94	9°	4	55	5,700
★ 04-00230-00210	2.1	4.2	6.3		2	9°	4	60	5,700
★ 04-00230-00220	2.2	4.4	6.6		2.1	9°	4	60	5,700
★ 04-00230-00230	2.3	4.6	6.9		2.2	9°	4	60	5,700
★ 04-00230-00240	2.4	4.8	7.2		2.3	9°	4	60	5,700
★ 04-00230-00250	2.5	5	7.5		2.4	9°	4	60	5,700
★ 04-00230-00260	2.6	5.2	7.8		2.45	9°	4	60	5,700
★ 04-00230-00270	2.7	5.4	8.1		2.55	9°	4	60	5,700
★ 04-00230-00280	2.8	5.6	8.4		2.65	9°	4	60	5,700
★ 04-00230-00290	2.9	5.8	8.7		2.75	9°	4	60	5,700
★ 04-00230-00300	3	6	9		2.85	9°	6	60	5,900
★ 04-00230-00310	3.1	6.2	9.3		2.9	9°	6	60	6,400
★ 04-00230-00320	3.2	6.4	9.6		3	9°	6	60	6,400
★ 04-00230-00330	3.3	6.6	9.9		3.1	9°	6	60	6,400
★ 04-00230-00340	3.4	6.8	10.2		3.2	9°	6	60	6,400
★ 04-00230-00350	3.5	7	10.5		3.3	9°	6	60	6,400
★ 04-00230-00360	3.6	7.2	10.8		3.4	9°	6	60	6,700
★ 04-00230-00370	3.7	7.4	11.1		3.5	9°	6	60	6,700
★ 04-00230-00380	3.8	7.6	11.4		3.6	9°	6	60	6,700
★ 04-00230-00390	3.9	7.8	11.7		3.7	9°	6	60	6,700
★ 04-00230-00400	4	8	12		3.8	9°	6	60	6,700
★ 04-00230-00410	4.1	8.2	12.3		3.9	9°	6	60	7,200
★ 04-00230-00420	4.2	8.4	12.6		4	9°	6	60	7,200
★ 04-00230-00430	4.3	8.6	12.9		4.1	9°	6	60	7,200
★ 04-00230-00440	4.4	8.8	13.2		4.2	9°	6	60	7,200
★ 04-00230-00450	4.5	9	13.5		4.3	9°	6	60	7,200
★ 04-00230-00460	4.6	9.2	13.8		4.4	9°	6	60	7,700
★ 04-00230-00470	4.7	9.4	14.1		4.5	9°	6	60	7,700
★ 04-00230-00480	4.8	9.6	14.4		4.6	9°	6	60	7,700
★ 04-00230-00490	4.9	9.8	14.7		4.7	9°	6	60	7,700
★ 04-00230-00500	5	10	15		4.8	9°	6	60	7,700
★ 04-00230-00510	5.1	10.2	15.3		4.9	9°	6	60	8,100
★ 04-00230-00520	5.2	10.4	15.6		5	9°	6	60	8,100
★ 04-00230-00530	5.3	10.6	15.9		5.1	9°	6	60	8,100
★ 04-00230-00540	5.4	10.8	16.2		5.2	9°	6	60	8,100
★ 04-00230-00550	5.5	11	16.5		5.3	9°	6	60	8,100
★ 04-00230-00560	5.6	11.2	16.8		5.4	9°	6	60	8,500
★ 04-00230-00570	5.7	11.4	17.1		5.5	9°	6	60	8,500
★ 04-00230-00580	5.8	11.6	17.4		5.6	9°	6	60	8,500
★ 04-00230-00590	5.9	11.8	17.7		5.7	9°	6	60	8,500
★ 04-00230-00600	6	12	18		5.8	—	6	60	8,500

