

③ Spiral Pointed Tap Series for through hole

Overall length	Thread length	Thread + Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓ_n	ℓ_s	Ds	K	ℓ_k

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① Spiral Fluted Taps (for blind hole)

② Spiral Fluted Taps (for through hole)

③ Spiral Pointed Taps (for through hole)

④ Hand Taps

⑤ Cemented Carbide Taps

⑥ Roll Taps

⑦ Special Thread Taps Simple inspection tools

⑧ Pipe Taps

⑨ Thread Mills Premium Thread Mills

⑩ Dies

⑪ Center Drills Centering Tools

⑫ Precision Machinery/ Medical Surgical Instruments

ANSI

③-7

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Z-PRO
VUPO

Z-PRO Coated Spiral Pointed Taps



Specification

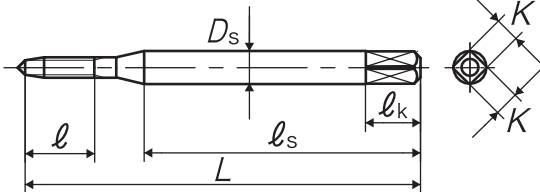


- Durability is improved by premium powder HSS and special coating.
- Chip ejection efficiency is improved and cutting resistance is reduced by the unique cutting edge shape, achieving a good internal thread and long tool life.

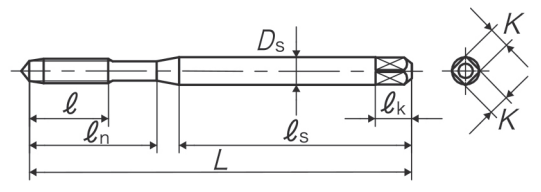
Tapping Speeds depending on Materials

Low carbon steels 低炭素鋼 10~30 (m/min)	Medium carbon steels 中炭素鋼 10~30 (m/min)	High carbon steels 高炭素鋼 10~30 (m/min)	Alloy steels 合金鋼 10~30 (m/min)	Stainless steels ステンレス鋼 5~15 (m/min)	Tool steels 工具鋼 5~15 (m/min)	Ductile cast irons 強靱鑄鉄 10~35 (m/min)
Wrought aluminum アルミ圧延材 10~35 (m/min)	Aluminum alloy castings アルミ合金鑄物 10~35 (m/min)					

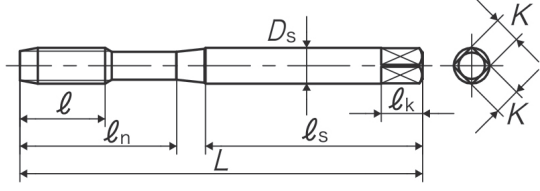
TYPE:1



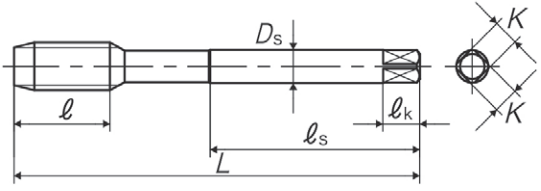
TYPE:2



TYPE:3



TYPE:4



Segment : 1F

Size	Class	Code	Chamfer	L (inch)	ℓ (inch)	ℓ_n (inch)	ℓ_s (inch)	Ds (inch)	K (inch)	ℓ_k (inch)	No. of flutes	TYPE
For Metric Threads												
M2 × 0.4	D4	5102101021	5P	1.772	0.314	-	1.161	0.141	0.11	0.187	2	1
M2.2 × 0.45	D4	5102101024	5P	1.772	0.314	-	1.161	0.141	0.11	0.187	2	1
M2.3 × 0.4	D4	5102101026	5P	1.772	0.314	-	1.161	0.141	0.11	0.187	2	1
M2.5 × 0.45	D4	5102101029	5P	2.205	0.354	0.693	1.28	0.141	0.11	0.187	2	2
M2.6 × 0.45	D4	5102101032	5P	2.205	0.354	0.709	1.28	0.141	0.11	0.187	2	2
M3 × 0.5	D4	5102101035	5P	2.205	0.433	0.736	1.339	0.141	0.11	0.187	3	2
M3 × 0.35	D4	5102101036	5P	2.205	0.256	0.736	1.339	0.141	0.11	0.187	3	2
M4 × 0.7	D5	5102101042	5P	2.48	0.512	0.815	1.535	0.168	0.131	0.25	3	2
M4 × 0.5	D4	5102101043	5P	2.48	0.354	0.815	1.535	0.168	0.131	0.25	3	2
M5 × 0.8	D5	5102101049	5P	2.756	0.551	0.984	1.654	0.194	0.152	0.25	3	2
M5 × 0.5	D4	5102101051	5P	2.756	0.354	0.984	1.654	0.194	0.152	0.25	3	2
M6 × 1	D6	5102101055	5P	3.15	0.591	1.181	1.713	0.255	0.191	0.312	3	2
M6 × 0.75	D6	5102101056	5P	3.15	0.591	1.181	1.713	0.255	0.191	0.312	3	2

Think threads with
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・ This product is different from JIS products in shape and dimensions, please be careful when using.

Overall length	Thread length	Thread + Neck length	Shank length	Shank dia.	Size of square	Length of square
L	ℓ	ℓn	ℓs	Ds	K	ℓk

Size	Class	Code	Chamfer	L (inch)	ℓ (inch)	ℓn (inch)	ℓs (inch)	Ds (inch)	K (inch)	ℓk (inch)	No. of flutes	TYPE
M6 × 0.5	D4	5102101057	5P	3.15	0.354	1.181	1.713	0.255	0.191	0.312	3	2
M8 × 1.25	D7	5102101064	5P	3.543	0.748	1.378	1.831	0.318	0.238	0.375	3	3
M8 × 1	D6	5102101065	5P	3.543	0.748	1.378	1.831	0.318	0.238	0.375	3	3
M10 × 1.5	D8	5102101078	5P	3.937	0.906	1.535	2.126	0.381	0.286	0.437	3	3
M10 × 1.25	D7	5102101079	5P	3.937	0.906	1.535	2.126	0.381	0.286	0.437	3	3
M10 × 1	D6	5102101080	5P	3.937	0.906	1.535	2.126	0.381	0.286	0.437	3	3
M12 × 1.75	D8	5102101088	5P	4.331	1.024	-	2.205	0.367	0.275	0.437	3	4
M12 × 1.5	D8	5102101089	5P	4.331	1.024	-	2.205	0.367	0.275	0.437	3	4
M12 × 1.25	D7	5102101090	5P	4.331	1.024	-	2.205	0.367	0.275	0.437	3	4
M14 × 2	D9	5102101100	5P	4.331	1.024	-	2.205	0.429	0.322	0.5	3	4
M14 × 1.5	D8	5102101102	5P	4.331	1.024	-	2.205	0.429	0.322	0.5	3	4
M16 × 2	D9	5102101114	5P	4.331	1.024	-	2.205	0.48	0.36	0.562	3	4
M16 × 1.5	D8	5102101116	5P	4.331	1.024	-	2.205	0.48	0.36	0.562	3	4
M18 × 2.5	D9	5102101128	5P	4.921	1.299	-	2.52	0.542	0.406	0.625	3	4
M18 × 1.5	D8	5102101130	5P	4.921	0.945	-	2.52	0.542	0.406	0.625	3	4
M20 × 2.5	D9	5102101141	5P	5.512	1.299	-	2.795	0.652	0.489	0.687	3	4
M20 × 1.5	D8	5102101144	5P	5.512	0.945	-	2.795	0.652	0.489	0.687	3	4
M22 × 2.5	D9	5102101156	5P	5.512	1.299	-	2.795	0.697	0.523	0.75	3	4
M22 × 1.5	D8	5102101158	5P	5.512	0.945	-	2.795	0.697	0.523	0.75	3	4
M24 × 3	D10	5102101167	5P	6.299	1.457	-	3.228	0.76	0.57	0.75	3	4
M24 × 1.5	D8	5102101170	5P	6.299	1.063	-	3.228	0.76	0.57	0.75	3	4
For Unified Threads												
No.5-40UNC	GH2	5102103021	5P	2.205	0.433	0.736	1.339	0.141	0.11	0.187	2	2
No.5-44UNF	GH2	5102103022	5P	2.205	0.433	0.736	1.339	0.141	0.11	0.187	2	2
No.6-32UNC	GH3	5102103023	5P	2.205	0.433	0.748	1.339	0.141	0.11	0.187	2	2
No.6-40UNF	GH2	5102103024	5P	2.205	0.433	0.748	1.339	0.141	0.11	0.187	2	2
No.8-32UNC	GH3	5102103029	5P	2.48	0.512	0.827	1.535	0.168	0.131	0.25	2	2
No.8-36UNF	GH2	5102103030	5P	2.48	0.512	0.827	1.535	0.168	0.131	0.25	2	2
No.10-24UNC	GH3	5102103039	5P	2.756	0.551	0.945	1.654	0.194	0.152	0.25	2	2
No.10-32UNF	GH3	5102103041	5P	2.756	0.551	0.945	1.654	0.194	0.152	0.25	2	2
No.12-24UNC	GH3	5102103047	5P	3.15	0.591	0.984	1.953	0.22	0.165	0.281	2	2
No.12-28UNF	GH3	5102103048	5P	3.15	0.591	0.984	1.953	0.22	0.165	0.281	2	2
1/4-20UNC	GH5	5102103058	5P	3.15	0.591	1.181	1.713	0.255	0.191	0.312	3	2
1/4-28UNF	GH4	5102103062	5P	3.15	0.591	1.181	1.713	0.255	0.191	0.312	3	2
5/16-18UNC	GH5	5102103071	5P	3.543	0.748	1.378	1.831	0.318	0.238	0.375	3	3
5/16-24UNF	GH4	5102103074	5P	3.543	0.748	1.378	1.831	0.318	0.238	0.375	3	3
3/8-16UNC	GH5	5102103082	5P	3.937	0.906	1.535	2.028	0.381	0.286	0.437	3	3
3/8-24UNF	GH4	5102103085	5P	3.937	0.906	1.535	2.028	0.381	0.286	0.437	3	3
7/16-14UNC	GH5	5102103098	5P	3.937	0.906	-	2.008	0.323	0.242	0.406	3	4
7/16-20UNF	GH5	5102103101	5P	3.937	0.906	-	2.008	0.323	0.242	0.406	3	4
1/2-13UNC	GH5	5102103111	5P	4.331	1.024	-	2.205	0.367	0.275	0.437	3	4
1/2-20UNF	GH5	5102103115	5P	4.331	1.024	-	2.205	0.367	0.275	0.437	3	4
9/16-12UNC	GH5	5102103126	5P	4.331	1.024	-	2.205	0.429	0.322	0.5	3	4
9/16-18UNF	GH5	5102103129	5P	4.331	1.024	-	2.205	0.429	0.322	0.5	3	4
5/8-11UNC	GH5	5102103138	5P	4.331	1.024	-	2.205	0.48	0.36	0.562	3	4
5/8-18UNF	GH5	5102103142	5P	4.331	1.024	-	2.205	0.48	0.36	0.562	3	4
3/4-10UNC	GH5	5102103161	5P	4.921	1.299	-	2.52	0.59	0.442	0.687	3	4
3/4-16UNF	GH5	5102103164	5P	4.921	1.299	-	2.52	0.59	0.442	0.687	3	4
7/8-9UNC	GH6	5102103181	5P	5.512	1.299	-	2.795	0.697	0.523	0.75	3	4
7/8-14UNF	GH6	5102103184	5P	5.512	1.299	-	2.795	0.697	0.523	0.75	3	4

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Spiral Fluted Taps
(for blind hole)

①

Spiral Fluted Taps
(for through hole)

②

Spiral Pointed Taps
(for through hole)

③

Hand Taps

④

Cemented
Carbide Taps

⑤

Roll Taps

⑥

Special Thread Taps
Simple Inspection Tools

⑦

Pipe Taps

⑧

Thread Mills
Premium Thread Mills

⑨

Dies

⑩

Center Drills
Centering Tools

⑪

Precision Machinery/
Metal Surgical Instruments

⑫

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③-8

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