

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	D _s	K	ℓ _k

ANSI

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

Z-PRO
HVPO

Z-PRO Hybrid Value Spiral Pointed Taps for Steels

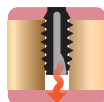


Specification

HSS

OX

Oxide



■ Chip ejection efficiency is improved and cutting resistance is reduced by the unique cutting edge shape, achieving a good internal thread and improved durability.

■ Proper tool projection length is secured, achieving a good supply of tapping fluid.

Tapping Speeds depending on Materials

Low carbon steels
低炭素鋼
3~12
(m/min)

Medium carbon steels
中炭素鋼
3~12
(m/min)

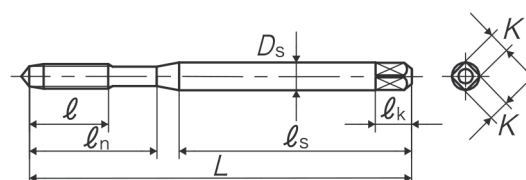
High carbon steels
高炭素鋼
3~12
(m/min)

Alloy steels
合金鋼
3~12
(m/min)

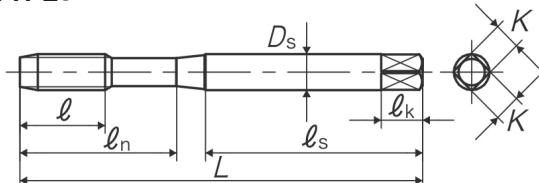
Stainless steels
ステンレス鋼
~5
(m/min)

Cast steels
鋳鋼
3~12
(m/min)

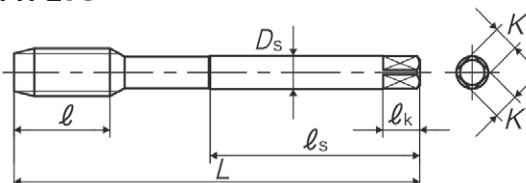
TYPE: 1



TYPE: 2



TYPE: 3



Segment : 1E

Size	Class	Code	Chamfer	L (inch)	ℓ (inch)	ℓ _n (inch)	ℓ _s (inch)	D _s (inch)	K (inch)	ℓ _k (inch)	No. of flutes	TYPE
For Metric Threads												
M3 × 0.5	D4	5113101035	5P	2.205	0.433	0.736	1.339	0.141	0.11	0.187	3	1
M3 × 0.35	D3	5113101036	5P	2.205	0.256	0.736	1.339	0.141	0.11	0.187	3	1
M3.5 × 0.6	D4	5113101038	5P	2.205	0.433	0.748	1.339	0.141	0.11	0.187	3	1
M4 × 0.7	D5	5113101042	5P	2.48	0.512	0.815	1.535	0.168	0.131	0.25	3	1
M4 × 0.5	D4	5113101043	5P	2.48	0.354	0.815	1.535	0.168	0.131	0.25	3	1
M5 × 0.8	D5	5113101049	5P	2.756	0.551	0.984	1.654	0.194	0.152	0.25	3	1
M5 × 0.5	D4	5113101051	5P	2.756	0.354	0.984	1.654	0.194	0.152	0.25	3	1
M6 × 1	D6	5113101055	5P	3.15	0.591	1.181	1.713	0.255	0.191	0.312	3	1
M6 × 0.75	D5	5113101056	5P	3.15	0.591	1.181	1.713	0.255	0.191	0.312	3	1
M6 × 0.5	D4	5113101057	5P	3.15	0.354	1.181	1.713	0.255	0.191	0.312	3	1
M7 × 1	D6	5113101060	5P	3.543	0.748	1.339	1.831	0.318	0.238	0.375	3	2
M8 × 1.25	D7	5113101064	5P	3.543	0.748	1.378	1.831	0.318	0.238	0.375	3	2
M8 × 1	D6	5113101065	5P	3.543	0.748	1.378	1.831	0.318	0.238	0.375	3	2
M10 × 1.5	D7	5113101078	5P	3.937	0.906	1.535	2.126	0.381	0.286	0.437	3	2
M10 × 1.25	D6	5113101079	5P	3.937	0.906	1.535	2.126	0.381	0.286	0.437	3	2
M10 × 1	D6	5113101080	5P	3.937	0.906	1.535	2.126	0.381	0.286	0.437	3	2
M12 × 1.75	D8	5113101088	5P	4.331	1.024	-	2.205	0.367	0.275	0.437	3	3

ANSI

③-17

Think threads with
YAMAWA

· 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
M12 × 1.5	D7	5113101089	5P	4.331	1.024	-	2.205	0.367	0.275	0.437	3	3
M12 × 1.25	D7	5113101090	5P	4.331	1.024	-	2.205	0.367	0.275	0.437	3	3
M12 × 1	D6	5113101091	5P	4.331	1.024	-	2.205	0.367	0.275	0.437	3	3
M14 × 2	D8	5113101100	5P	4.331	1.024	-	2.205	0.429	0.322	0.5	3	3
M14 × 1.5	D7	5113101102	5P	4.331	1.024	-	2.205	0.429	0.322	0.5	3	3
M16 × 2	D8	5113101114	5P	4.331	1.024	-	2.205	0.48	0.36	0.562	3	3
M16 × 1.5	D7	5113101116	5P	4.331	1.024	-	2.205	0.48	0.36	0.562	3	3
M18 × 2.5	D8	5113101128	5P	4.921	1.299	-	2.52	0.542	0.406	0.625	3	3
M18 × 2	D8	5113101129	5P	4.921	1.299	-	2.52	0.542	0.406	0.625	3	3
M18 × 1.5	D7	5113101130	5P	4.921	0.945	-	2.52	0.542	0.406	0.625	3	3
M20 × 2.5	D8	5113101141	5P	5.512	1.299	-	2.795	0.652	0.489	0.687	3	3
M20 × 2	D8	5113101142	5P	5.512	1.299	-	2.795	0.652	0.489	0.687	3	3
M20 × 1.5	D7	5113101144	5P	5.512	0.945	-	2.795	0.652	0.489	0.687	3	3
M20 × 1	D6	5113101146	5P	5.512	0.945	-	2.795	0.652	0.489	0.687	3	3
M22 × 2.5	D8	5113101156	5P	5.512	1.299	-	2.795	0.697	0.523	0.75	3	3
M22 × 2	D8	5113101157	5P	5.512	1.299	-	2.795	0.697	0.523	0.75	3	3
M22 × 1.5	D7	5113101158	5P	5.512	0.945	-	2.795	0.697	0.523	0.75	3	3
M24 × 3	D9	5113101167	5P	6.299	1.457	-	3.228	0.76	0.57	0.75	3	3
M24 × 1.5	D7	5113101170	5P	6.299	1.063	-	3.228	0.76	0.57	0.75	3	3
M25 × 1.5	D7	5113101177	5P	6.299	1.063	-	3.228	0.8	0.6	0.812	3	3
M26 × 3	D9	5113101181	5P	7.087	1.732	-	3.622	0.896	0.672	0.875	3	3
M27 × 3	D9	5113101186	5P	7.087	1.732	-	3.622	0.896	0.672	0.875	3	3
M27 × 1.5	D7	5113101188	5P	7.087	1.063	-	3.622	0.896	0.672	0.875	3	3
M30 × 3.5	D10	5113101199	5P	7.087	1.732	-	3.622	1.021	0.766	1	3	3
M30 × 3	D9	5113101200	5P	7.087	1.732	-	3.622	1.021	0.766	1	3	3
M30 × 2	D8	5113101201	5P	7.087	1.063	-	3.622	1.021	0.766	1	3	3
M30 × 1.5	D7	5113101202	5P	7.087	1.063	-	3.622	1.021	0.766	1	3	3
M32 × 2	D8	5113101207	5P	7.087	1.063	-	3.622	1.021	0.766	1	3	3
M32 × 1.5	D7	5113101208	5P	7.087	1.063	-	3.622	1.021	0.766	1	3	3
M33 × 3.5	D10	5113101211	5P	7.087	1.732	-	3.622	1.108	0.831	1.062	3	3
M33 × 3	D9	5113101212	5P	7.087	1.732	-	3.622	1.108	0.831	1.062	3	3
M36 × 4	D10	5113101225	5P	7.874	2.047	-	4.016	1.233	0.925	1.125	3	3
M36 × 3	D9	5113101226	5P	7.874	2.047	-	4.016	1.233	0.925	1.125	3	3

3

ANSI

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/
Medical Surgical Instruments

⑫

ANSI

③-18