

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

DIN

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

DIN

Z-PRO HVPO

Z-PRO Hybrid Value Spiral Pointed Taps for Steels



Specification

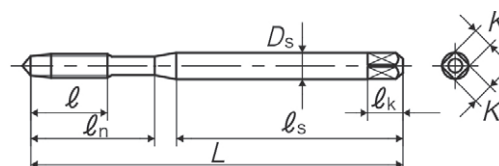


Tapping Speeds depending on Materials

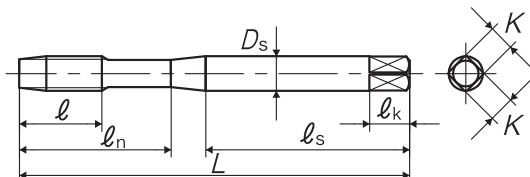
Low carbon steels 低炭素鋼	Medium carbon steels 中炭素鋼	High carbon steels 高炭素鋼	Alloy steels 合金鋼	Stainless steels ステンレス鋼	Cast steels 鋳鋼
3~12 (m/min)	3~12 (m/min)	3~12 (m/min)	3~12 (m/min)	~5 (m/min)	3~12 (m/min)

- 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.

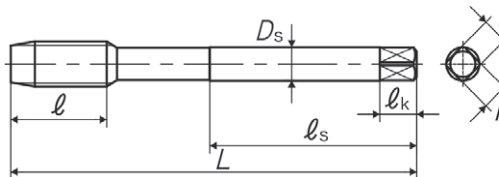
TYPE: 1



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	ISO2X	3113101035	5P	56	9	18	34	3.5	2.7	6	3	1
M3 × 0.35	ISO2X	3113101036	5P	56	6.5	18	34	3.5	2.7	6	3	1
M3.5 × 0.6	ISO2X	3113101038	5P	56	11	20	32.5	4	3	6	3	1
M4 × 0.7	ISO2X	3113101042	5P	63	13	21	38	4.5	3.4	6	3	1
M4 × 0.5	ISO2X	3113101043	5P	63	9	21	38	4.5	3.4	6	3	1
M5 × 0.8	ISO2X	3113101049	5P	70	14	25	39	6	4.9	8	3	1
M5 × 0.5	ISO2X	3113101051	5P	70	9	25	39	6	4.9	8	3	1
M6 × 1	ISO2X	3113101055	5P	80	15	30	45	6	4.9	8	3	1
M6 × 0.75	ISO2X	3113101056	5P	80	15	30	45	6	4.9	8	3	1
M6 × 0.5	ISO2X	3113101057	5P	80	9	30	45	6	4.9	8	3	1
M7 × 1	ISO2X	3113101060	5P	80	15	30	45	7	5.5	8	3	2
M7 × 0.75	ISO2X	3113101061	5P	80	13	-	41	5.5	4.3	7	3	3
M7 × 0.5	ISO2X	3113101062	5P	80	13	-	41	5.5	4.3	7	3	3
M8 × 1.25	ISO2X	3113101064	5P	90	19	35	47	8	6.2	9	3	2
M8 × 1	ISO2X	3113101065	5P	90	19	-	46	6	4.9	8	3	3
M8 × 0.75	ISO2X	3113101066	5P	80	19	-	41	6	4.9	8	3	3
M8 × 0.5	ISO2X	3113101067	5P	80	19	-	41	6	4.9	8	3	3

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
M9 × 1	ISO2X	3113101072	5P	90	19	-	46	7	5.5	8	3	3
M10 × 1.5	ISO2X	3113101078	5P	100	23	39	52.5	10	8	11	3	2
M10 × 1.25	ISO2X	3113101079	5P	100	23	-	51	7	5.5	8	3	3
M10 × 1	ISO2X	3113101080	5P	90	19	-	46	7	5.5	8	3	3
M12 × 1.75	ISO2X	3113101088	5P	110	26	-	56	9	7	10	3	3
M12 × 1.5	ISO2X	3113101089	5P	100	21	-	51	9	7	10	3	3
M12 × 1.25	ISO2X	3113101090	5P	100	21	-	51	9	7	10	3	3
M12 × 1	ISO2X	3113101091	5P	100	21	-	51	9	7	10	3	3
M14 × 2	ISO2X	3113101100	5P	110	26	-	56	11	9	12	3	3
M14 × 1.5	ISO2X	3113101102	5P	100	21	-	51	11	9	12	3	3
M16 × 2	ISO2X	3113101114	5P	110	26	-	56	12	9	12	3	3
M16 × 1.5	ISO2X	3113101116	5P	100	21	-	51	12	9	12	3	3
M18 × 2.5	ISO2X	3113101128	5P	125	33	-	64	14	11	14	3	3
M18 × 2	ISO2X	3113101129	5P	125	33	-	64	14	11	14	3	3
M18 × 1.5	ISO2X	3113101130	5P	110	24	-	56	14	11	14	3	3
M20 × 2.5	ISO2X	3113101141	5P	140	33	-	71	16	12	15	3	3
M20 × 2	ISO2X	3113101142	5P	140	33	-	71	16	12	15	3	3
M20 × 1.5	ISO2X	3113101144	5P	125	24	-	64	16	12	15	3	3
M20 × 1	ISO2X	3113101146	5P	125	24	-	64	16	12	15	3	3
M22 × 2.5	ISO2X	3113101156	5P	140	33	-	71	18	14.5	17	3	3
M22 × 2	ISO2X	3113101157	5P	140	33	-	71	18	14.5	17	3	3
M22 × 1.5	ISO2X	3113101158	5P	125	24	-	64	18	14.5	17	3	3
M24 × 3	ISO2X	3113101167	5P	160	37	-	82	18	14.5	17	3	3
M24 × 1.5	ISO2X	3113101170	5P	140	27	-	71	18	14.5	17	3	3
M27 × 1.5	ISO2X	3113101188	5P	140	27	-	71	20	16	19	4	3
M30 × 3.5	ISO2X	3113101199	5P	180	44	-	92	22	18	21	4	3
M30 × 3	ISO2X	3113101200	5P	180	44	-	92	22	18	21	4	3
M30 × 2	ISO2X	3113101201	5P	150	27	-	77	22	18	21	4	3
M30 × 1.5	ISO2X	3113101202	5P	150	27	-	77	22	18	21	4	3
M32 × 2	ISO2X	3113101207	5P	150	27	-	77	22	18	21	4	3
M32 × 1.5	ISO2X	3113101208	5P	150	27	-	77	22	18	21	4	3
M33 × 3.5	ISO2X	3113101211	5P	180	46	-	92	25	20	23	4	3
M33 × 3	ISO2X	3113101212	5P	180	46	-	92	25	20	23	4	3
M36 × 4	ISO2X	3113101225	5P	200	52	-	102	28	22	25	4	3
M36 × 3	ISO2X	3113101226	5P	200	52	-	102	28	22	25	4	3

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③-24