

# 1 Spiral Fluted Tap Series for blind hole

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

- 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

# ANSI

## ZELX NI SP



Spiral Fluted Taps for Nickel Base Alloys

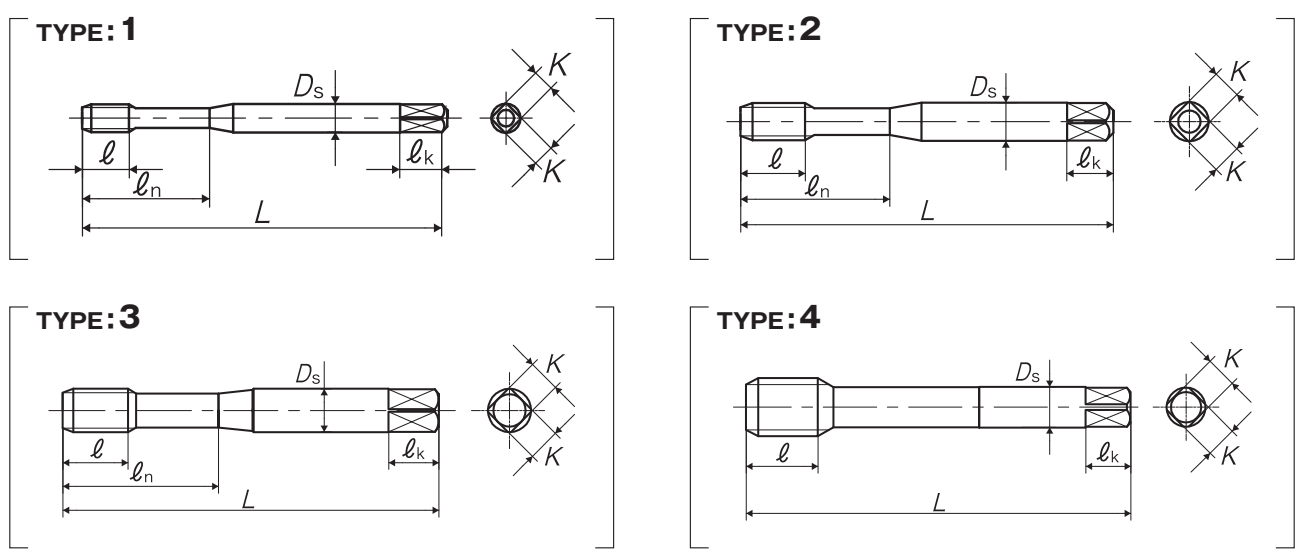
### Specification



ZELX NI SP is the spiral fluted tap for nickel base alloys which, with nickel as main composition, have much higher corrosion resistance and much higher heat resistance than steels.

### Tapping Speed depending on Materials

Medium carbon steels 中炭素鋼	High carbon steels 高炭素鋼	Stainless steels ステンレス鋼	Nickel base alloys ニッケル基合金
5~15 (m/min)	5~15 (m/min)	5~15 (m/min)	5~10 (m/min)



Segment : 1D

Size	Class	Code	Chamfer	L (inch)	ℓ (inch)	ℓn (inch)	Ds (inch)	K (inch)	ℓk (inch)	No. of flutes	TYPE
For Metric Threads											
M2.5 × 0.45	D3	Y88320	3P	1.812	0.157	0.5	0.141	0.11	0.187	3	1
M3 × 0.5	D3	Y88321	3P	1.937	0.197	0.625	0.141	0.11	0.187	3	1
M3.5 × 0.6	D4	Y88322	3P	2	0.276	0.687	0.141	0.11	0.187	3	1
M4 × 0.7	D4	Y88323	3P	2.125	0.276	0.75	0.168	0.131	0.25	3	1
M5 × 0.8	D4	Y88324	3P	2.375	0.354	0.875	0.194	0.152	0.25	3	1
M6 × 1	D5	Y88325	3P	2.5	0.433	1	0.255	0.191	0.312	3	2
M7 × 1	D5	Y88326	3P	2.718	0.433	1.125	0.318	0.238	0.375	3	3
M8 × 1.25	D5	Y88328	3P	2.718	0.472	1.125	0.318	0.238	0.375	3	3
M8 × 1	D5	Y88327	3P	2.718	0.472	1.125	0.318	0.238	0.375	3	3
M10 × 1.5	D6	Y88330	3P	2.937	0.512	1.25	0.381	0.286	0.437	3	3
M10 × 1.25	D5	Y88329	3P	2.937	0.472	1.25	0.381	0.286	0.437	3	3
M12 × 1.75	D6	Y88332	3P	3.375	0.591	-	0.367	0.275	0.437	3	4
M12 × 1.25	D5	Y88331	3P	3.375	0.551	-	0.367	0.275	0.437	3	4
For Unified Threads											
No.2-56UNC	GH2	Y87523	3P	1.75	0.157	0.437	0.141	0.11	0.187	3	1
No.4-40UNC	GH2	Y87501	3P	1.875	0.236	0.562	0.141	0.11	0.187	3	1
No.4-40UNC	GH2	Y87583	1.5P	1.875	0.236	0.562	0.141	0.11	0.187	3	1

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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 dia.	Size of square	Length of square
L	ℓ	ℓn	Ds	K	ℓk

Size	Class	Code	Chamfer	L (inch)	ℓ (inch)	ℓn (inch)	Ds (inch)	K (inch)	ℓk (inch)	No. of flutes	TYPE
No.4-40UNC	GH3	Y87502	3P	1.875	0.236	0.562	0.141	0.11	0.187	3	1
No.4-40UNC	GH3	Y87002	1.5P	1.875	0.236	0.562	0.141	0.11	0.187	3	1
No.4-40UNC	GH4	Y87512	3P	1.875	0.236	0.562	0.141	0.11	0.187	3	1
No.4-40UNC	GH5	Y87534	3P	1.875	0.236	0.562	0.141	0.11	0.187	3	1
No.4-40UNC	GH5	Y87072	1.5P	1.875	0.236	0.562	0.141	0.11	0.187	3	1
No.5-40UNC	GH2	Y87504	3P	1.937	0.236	0.625	0.141	0.11	0.187	3	1
No.6-32UNC	GH2	Y87006	1.5P	2	0.276	0.687	0.141	0.11	0.187	3	1
No.6-32UNC	GH3	Y87505	3P	2	0.276	0.687	0.141	0.11	0.187	3	1
No.6-32UNC	GH3	Y87005	1.5P	2	0.276	0.687	0.141	0.11	0.187	3	1
No.6-32UNC	GH4	Y87508	3P	2	0.276	0.687	0.141	0.11	0.187	3	1
No.6-32UNC	GH5	Y87535	3P	2	0.276	0.687	0.141	0.11	0.187	3	1
No.6-32UNC	GH5	Y87035	1.5P	2	0.276	0.687	0.141	0.11	0.187	3	1
No.6-32UNC	GH6	Y87559	3P	2	0.276	0.687	0.141	0.11	0.187	3	1
No.6-32UNC	GH7	Y87565	3P	2	0.276	0.687	0.141	0.11	0.187	3	1
No.8-32UNC	GH2	Y87506	3P	2.125	0.276	0.75	0.168	0.131	0.25	3	1
No.8-32UNC	GH3	Y87507	3P	2.125	0.276	0.75	0.168	0.131	0.25	3	1
No.8-32UNC	GH3	Y87580	1.5P	2.125	0.276	0.75	0.168	0.131	0.25	3	1
No.8-32UNC	GH4	Y87529	3P	2.125	0.276	0.75	0.168	0.131	0.25	3	1
No.8-32UNC	GH5	Y87537	3P	2.125	0.276	0.75	0.168	0.131	0.25	3	1
No.8-32UNC	GH5	Y87037	1.5P	2.125	0.276	0.75	0.168	0.131	0.25	3	1
No.8-32UNC	GH6	Y87560	3P	2.125	0.276	0.75	0.168	0.131	0.25	3	1
No.8-32UNC	GH7	Y87567	3P	2.125	0.276	0.75	0.168	0.131	0.25	3	1
No.10-24UNC	GH3	Y87509	3P	2.375	0.354	0.875	0.194	0.152	0.25	3	1
No.10-24UNC	GH3	Y87009	1.5P	2.375	0.354	0.875	0.194	0.152	0.25	3	1
No.10-24UNC	GH5	Y87539	3P	2.375	0.354	0.875	0.194	0.152	0.25	3	1
No.10-24UNC	GH5	Y87039	1.5P	2.375	0.354	0.875	0.194	0.152	0.25	3	1
No.10-32UNF	GH2	Y87511	3P	2.375	0.276	0.875	0.194	0.152	0.25	3	1
No.10-32UNF	GH3	Y87510	3P	2.375	0.276	0.875	0.194	0.152	0.25	3	1
No.10-32UNF	GH3	Y81556	1.5P	2.375	0.276	0.875	0.194	0.152	0.25	3	1
No.10-32UNF	GH4	Y87530	3P	2.375	0.276	0.875	0.194	0.152	0.25	3	1
No.10-32UNF	GH5	Y87540	3P	2.375	0.276	0.875	0.194	0.152	0.25	3	1
No.10-32UNF	GH5	Y87040	1.5P	2.375	0.276	0.875	0.194	0.152	0.25	3	1
No.10-32UNF	GH6	Y87561	3P	2.375	0.276	0.875	0.194	0.152	0.25	3	1
No.10-32UNF	GH7	Y87570	3P	2.375	0.276	0.875	0.194	0.152	0.25	3	1
1/4-20UNC	GH3	Y87513	3P	2.5	0.433	1	0.255	0.191	0.312	3	2
1/4-20UNC	GH3	Y87013	1.5P	2.5	0.433	1	0.255	0.191	0.312	3	2
1/4-20UNC	GH5	Y87543	3P	2.5	0.433	1	0.255	0.191	0.312	3	2
1/4-20UNC	GH5	Y87043	1.5P	2.5	0.433	1	0.255	0.191	0.312	3	2
1/4-28UNF	GH3	Y87514	3P	2.5	0.354	1	0.255	0.191	0.312	3	2
1/4-28UNF	GH3	Y87579	1.5P	2.5	0.354	1	0.255	0.191	0.312	3	2
1/4-28UNF	GH4	Y87531	3P	2.5	0.354	1	0.255	0.191	0.312	3	2
1/4-28UNF	GH4	Y87031	1.5P	2.5	0.354	1	0.255	0.191	0.312	3	2
1/4-28UNF	GH5	Y87544	3P	2.5	0.354	1	0.255	0.191	0.312	3	2
1/4-28UNF	GH5	Y87443	1.5P	2.5	0.354	1	0.255	0.191	0.312	3	2
1/4-28UNF	GH6	Y87562	3P	2.5	0.354	1	0.255	0.191	0.312	3	2
1/4-28UNF	GH7	Y87574	3P	2.5	0.354	1	0.255	0.191	0.312	3	2
5/16-18UNC	GH3	Y87515	3P	2.718	0.472	1.125	0.318	0.238	0.375	3	3
5/16-18UNC	GH3	Y87015	1.5P	2.718	0.472	1.125	0.318	0.238	0.375	3	3
5/16-18UNC	GH5	Y87545	3P	2.718	0.472	1.125	0.318	0.238	0.375	3	3
5/16-18UNC	GH5	Y87045	1.5P	2.718	0.472	1.125	0.318	0.238	0.375	3	3

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Spiral Fluted Taps  
(for blind hole) ①Spiral Fluted Taps  
(for through hole) ②Spiral 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 ⑪Precision Machinery/  
Metal Surgical Instruments ⑫

ANSI

①-170

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Think threads with  
**YAMAWA**

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- ⑫ Precision Machinery/ Medical Surgical Instruments

## ZELX NI SP Spiral Fluted Taps for Nickel Base Alloys

Size	Class	Code	Chamfer	L (inch)	ℓ (inch)	ℓn (inch)	Ds (inch)	K (inch)	ℓk (inch)	No. of flutes	TYPE
5/16-24UNF	GH3	Y87516	3P	2.718	0.394	1.125	0.318	0.238	0.375	3	3
5/16-24UNF	GH3	Y87577	1.5P	2.718	0.394	1.125	0.318	0.238	0.375	3	3
5/16-24UNF	GH4	Y87532	3P	2.718	0.394	1.125	0.318	0.238	0.375	3	3
5/16-24UNF	GH4	Y87032	1.5P	2.718	0.394	1.125	0.318	0.238	0.375	3	3
5/16-24UNF	GH5	Y87546	3P	2.718	0.394	1.125	0.318	0.238	0.375	3	3
5/16-24UNF	GH6	Y87563	3P	2.718	0.394	1.125	0.318	0.238	0.375	3	3
5/16-24UNF	GH7	Y87576	3P	2.718	0.394	1.125	0.318	0.238	0.375	3	3
3/8-16UNC	GH3	Y87517	3P	2.937	0.551	1.25	0.381	0.286	0.437	3	3
3/8-16UNC	GH3	Y87017	1.5P	2.937	0.551	1.25	0.381	0.286	0.437	3	3
3/8-16UNC	GH5	Y87547	3P	2.937	0.551	1.25	0.381	0.286	0.437	3	3
3/8-16UNC	GH5	Y87047	1.5P	2.937	0.551	1.25	0.381	0.286	0.437	3	3
3/8-24UNF	GH3	Y87518	3P	2.937	0.394	1.25	0.381	0.286	0.437	3	3
3/8-24UNF	GH3	Y87575	1.5P	2.937	0.394	1.25	0.381	0.286	0.437	3	3
3/8-24UNF	GH4	Y87533	3P	2.937	0.394	1.25	0.381	0.286	0.437	3	3
3/8-24UNF	GH4	Y87033	1.5P	2.937	0.394	1.25	0.381	0.286	0.437	3	3
3/8-24UNF	GH5	Y87548	3P	2.937	0.394	1.25	0.381	0.286	0.437	3	3
3/8-24UNF	GH5	Y87048	1.5P	2.937	0.394	1.25	0.381	0.286	0.437	3	3
3/8-24UNF	GH6	Y87564	3P	2.937	0.394	1.25	0.381	0.286	0.437	3	3
3/8-24UNF	GH7	Y87578	3P	2.937	0.394	1.25	0.381	0.286	0.437	3	3
7/16-14UNC	GH3	Y87519	3P	3.156	0.591	-	0.323	0.242	0.406	3	4
7/16-14UNC	GH3	Y87019	1.5P	3.156	0.591	-	0.323	0.242	0.406	3	4
7/16-14UNC	GH5	Y87549	3P	3.156	0.591	-	0.323	0.242	0.406	3	4
7/16-20UNF	GH3	Y87520	3P	3.156	0.472	-	0.323	0.242	0.406	3	4
7/16-20UNF	GH3	Y87573	1.5P	3.156	0.472	-	0.323	0.242	0.406	3	4
7/16-20UNF	GH5	Y87550	3P	3.156	0.472	-	0.323	0.242	0.406	3	4
7/16-20UNF	GH5	Y87050	1.5P	3.156	0.472	-	0.323	0.242	0.406	3	4
1/2-13UNC	GH3	Y87521	3P	3.375	0.63	-	0.367	0.275	0.437	3	4
1/2-13UNC	GH3	Y87500	1.5P	3.375	0.63	-	0.367	0.275	0.437	3	4
1/2-13UNC	GH5	Y87551	3P	3.375	0.63	-	0.367	0.275	0.437	3	4
1/2-13UNC	GH5	Y87051	1.5P	3.375	0.63	-	0.367	0.275	0.437	3	4
1/2-13UNC	GH7	Y87581	3P	3.375	0.63	-	0.367	0.275	0.437	3	4
1/2-20UNF	GH3	Y87522	3P	3.375	0.472	-	0.367	0.275	0.437	3	4
1/2-20UNF	GH3	Y87022	1.5P	3.375	0.472	-	0.367	0.275	0.437	3	4
1/2-20UNF	GH5	Y87552	3P	3.375	0.472	-	0.367	0.275	0.437	3	4
1/2-20UNF	GH7	Y87582	3P	3.375	0.472	-	0.367	0.275	0.437	3	4
9/16-18UNF	GH3	Y88554	3P	3.593	0.512	-	0.429	0.322	0.5	3	4
9/16-18UNF	GH5	Y88542	3P	3.593	0.512	-	0.429	0.322	0.5	3	4
5/8-11UNC	GH3	Y87525	3P	3.812	0.748	-	0.48	0.36	0.562	4	4
5/8-11UNC	GH3	Y87025	1.5P	3.812	0.748	-	0.48	0.36	0.562	4	4
5/8-11UNC	GH5	Y87555	3P	3.812	0.748	-	0.48	0.36	0.562	4	4
5/8-11UNC	GH7	Y87585	3P	3.812	0.748	-	0.48	0.36	0.562	4	4
5/8-18UNF	GH3	Y87526	3P	3.812	0.512	-	0.48	0.36	0.562	4	4
5/8-18UNF	GH3	Y81508	1.5P	3.812	0.512	-	0.48	0.36	0.562	4	4
5/8-18UNF	GH4	Y87536	3P	3.812	0.512	-	0.48	0.36	0.562	4	4
5/8-18UNF	GH5	Y87556	3P	3.812	0.512	-	0.48	0.36	0.562	4	4
5/8-18UNF	GH7	Y87586	3P	3.812	0.512	-	0.48	0.36	0.562	4	4
3/4-10UNC	GH3	Y87527	3P	4.25	0.827	-	0.59	0.442	0.687	4	4
3/4-10UNC	GH3	Y87027	1.5P	4.25	0.827	-	0.59	0.442	0.687	4	4
3/4-10UNC	GH5	Y87557	3P	4.25	0.827	-	0.59	0.442	0.687	4	4
3/4-16UNF	GH3	Y87528	3P	4.25	0.591	-	0.59	0.442	0.687	4	4
3/4-16UNF	GH5	Y87558	3P	4.25	0.591	-	0.59	0.442	0.687	4	4

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