

Overall length	Thread length	Shank dia.	Size of square	Length of square
L	ℓ	Ds	K	ℓ_k

5

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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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⑤-6

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ZELX CARB AL

Carbide Taps for Light Alloys



Specification

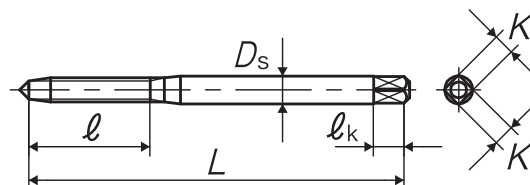


■ZELX CARB AL is the carbide tap suitable for tapping aluminum castings (AC), aluminum die castings (ADC), and zinc die castings (ZDC). For volume production.

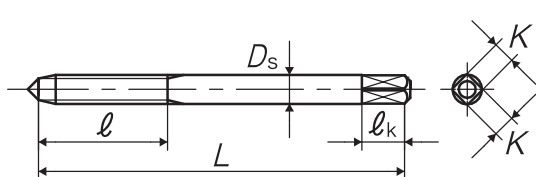
Tapping Speed depending on Materials

Aluminum alloy castings アルミ合金鋳物	Zinc alloy castings 亜鉛合金鋳物
10~20 (m/min)	10~20 (m/min)

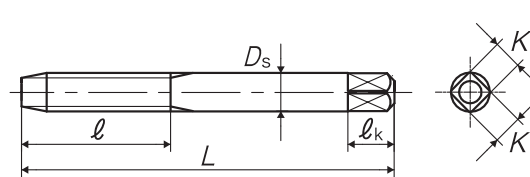
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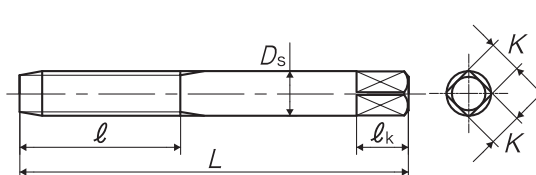
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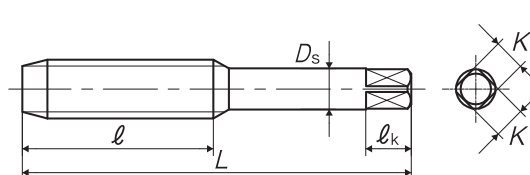
TYPE:3



TYPE:4



TYPE:5



Segment : 1L

Size	Class	Code	Chamfer	L (inch)	ℓ (inch)	Ds (inch)	K (inch)	ℓ_k (inch)	No. of flutes	TYPE
For Metric Threads										
M3 × 0.5	D3	Y71000	4P	1.937	0.625	0.141	0.11	0.187	3	1
M3 × 0.5	D3	Y71001	1.5P	1.937	0.625	0.141	0.11	0.187	3	1
M4 × 0.7	D4	Y71002	4P	2.125	0.75	0.168	0.131	0.25	3	2
M4 × 0.7	D4	Y71003	1.5P	2.125	0.75	0.168	0.131	0.25	3	2
M5 × 0.8	D4	Y71004	4P	2.375	0.875	0.194	0.152	0.25	3	2
M5 × 0.8	D4	Y71005	1.5P	2.375	0.875	0.194	0.152	0.25	3	2
M6 × 1	D5	Y71006	4P	2.5	1	0.255	0.191	0.312	3	3
M6 × 1	D5	Y71007	1.5P	2.5	1	0.255	0.191	0.312	3	3
M8 × 1.25	D5	Y71010	4P	2.718	1.125	0.318	0.238	0.375	3	4

5 Cemented Carbide Tap Series

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

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ZELX CARB AL Carbide Taps for Light Alloys

- 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/Metal Surgical Instruments

Size	Class	Code	Chamfer	L (inch)	ℓ (inch)	Ds (inch)	K (inch)	ℓk (inch)	No. of flutes	TYPE
M8 × 1.25	D5	Y71011	1.5P	2.718	1.125	0.318	0.238	0.375	3	4
M8 × 1	D5	Y71008	4P	2.718	1.125	0.318	0.238	0.375	3	4
M8 × 1	D5	Y71009	1.5P	2.718	1.125	0.318	0.238	0.375	3	4
M10 × 1.5	D6	Y71014	4P	2.937	1.25	0.381	0.286	0.437	3	4
M10 × 1.5	D6	Y71015	1.5P	2.937	1.25	0.381	0.286	0.437	3	4
M10 × 1.25	D5	Y71012	4P	2.937	1.25	0.381	0.286	0.437	3	4
M10 × 1.25	D5	Y71013	1.5P	2.937	1.25	0.381	0.286	0.437	3	4
M12 × 1.75	D6	Y71020	4P	3.375	1.656	0.367	0.275	0.437	3	5
M12 × 1.75	D6	Y71021	1.5P	3.375	1.656	0.367	0.275	0.437	3	5
M12 × 1.5	D6	Y71018	4P	3.375	1.656	0.367	0.275	0.437	3	5
M12 × 1.5	D6	Y71019	1.5P	3.375	1.656	0.367	0.275	0.437	3	5
M12 × 1.25	D5	Y71016	4P	3.375	1.656	0.367	0.275	0.437	3	5
M12 × 1.25	D5	Y71017	1.5P	3.375	1.656	0.367	0.275	0.437	3	5
For Unified Threads										
No.5-40UNC	GH3	Y84800	4P	1.937	0.625	0.141	0.11	0.187	3	1
No.5-40UNC	GH3	Y84801	1.5P	1.937	0.625	0.141	0.11	0.187	3	1
No.6-32UNC	GH3	Y84802	4P	2	0.687	0.141	0.11	0.187	3	2
No.6-32UNC	GH3	Y84803	1.5P	2	0.687	0.141	0.11	0.187	3	2
No.8-32UNC	GH3	Y84804	4P	2.125	0.75	0.168	0.131	0.25	3	2
No.8-32UNC	GH3	Y84805	1.5P	2.125	0.75	0.168	0.131	0.25	3	2
No.10-24UNC	GH3	Y84806	4P	2.375	0.875	0.194	0.152	0.25	3	2
No.10-24UNC	GH3	Y84807	1.5P	2.375	0.875	0.194	0.152	0.25	3	2
No.10-32UNF	GH3	Y84808	4P	2.375	0.875	0.194	0.152	0.25	3	2
No.10-32UNF	GH3	Y84809	1.5P	2.375	0.875	0.194	0.152	0.25	3	2
1/4-20UNC	GH3	Y84810	4P	2.5	1	0.255	0.191	0.312	3	3
1/4-20UNC	GH3	Y84811	1.5P	2.5	1	0.255	0.191	0.312	3	3
1/4-20UNC	GH5	Y84860	4P	2.5	1	0.255	0.191	0.312	3	3
1/4-20UNC	GH5	Y84861	1.5P	2.5	1	0.255	0.191	0.312	3	3
1/4-28UNF	GH3	Y84812	4P	2.5	1	0.255	0.191	0.312	3	3
1/4-28UNF	GH3	Y84813	1.5P	2.5	1	0.255	0.191	0.312	3	3
1/4-28UNF	GH5	Y84862	4P	2.5	1	0.255	0.191	0.312	3	3
1/4-28UNF	GH5	Y84863	1.5P	2.5	1	0.255	0.191	0.312	3	3
5/16-18UNC	GH3	Y84814	4P	2.718	1.125	0.318	0.238	0.375	3	4
5/16-18UNC	GH3	Y84815	1.5P	2.718	1.125	0.318	0.238	0.375	3	4
5/16-18UNC	GH5	Y84864	4P	2.718	1.125	0.318	0.238	0.375	3	4
5/16-18UNC	GH5	Y84865	1.5P	2.718	1.125	0.318	0.238	0.375	3	4
5/16-24UNF	GH3	Y84816	4P	2.718	1.125	0.318	0.238	0.375	3	4
5/16-24UNF	GH3	Y84817	1.5P	2.718	1.125	0.318	0.238	0.375	3	4
5/16-24UNF	GH5	Y84866	4P	2.718	1.125	0.318	0.238	0.375	3	4
5/16-24UNF	GH5	Y84867	1.5P	2.718	1.125	0.318	0.238	0.375	3	4
3/8-16UNC	GH3	Y84818	4P	2.937	1.25	0.381	0.286	0.437	3	4
3/8-16UNC	GH3	Y84819	1.5P	2.937	1.25	0.381	0.286	0.437	3	4
3/8-16UNC	GH5	Y84868	4P	2.937	1.25	0.381	0.286	0.437	3	4
3/8-16UNC	GH5	Y84869	1.5P	2.937	1.25	0.381	0.286	0.437	3	4
3/8-24UNF	GH3	Y84820	4P	2.937	1.25	0.381	0.286	0.437	3	4
3/8-24UNF	GH3	Y84821	1.5P	2.937	1.25	0.381	0.286	0.437	3	4
3/8-24UNF	GH5	Y84870	4P	2.937	1.25	0.381	0.286	0.437	3	4
3/8-24UNF	GH5	Y84871	1.5P	2.937	1.25	0.381	0.286	0.437	3	4
7/16-14UNC	GH3	Y84822	4P	3.156	1.437	0.323	0.242	0.406	3	5
7/16-14UNC	GH3	Y84823	1.5P	3.156	1.437	0.323	0.242	0.406	3	5

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· This product is different from JIS products in shape and dimensions, please be careful when using.

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

5

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

⑤-8

ZELX CARB AL Carbide Taps for Light Alloys

Size	Class	Code	Chamfer	L (inch)	ℓ (inch)	Ds (inch)	K (inch)	ℓk (inch)	No. of flutes	TYPE
7/16-14UNC	GH5	Y84872	4P	3.156	1.437	0.323	0.242	0.406	3	5
7/16-14UNC	GH5	Y84873	1.5P	3.156	1.437	0.323	0.242	0.406	3	5
7/16-20UNF	GH3	Y84824	4P	3.156	1.437	0.323	0.242	0.406	3	5
7/16-20UNF	GH3	Y84825	1.5P	3.156	1.437	0.323	0.242	0.406	3	5
7/16-20UNF	GH5	Y84874	4P	3.156	1.437	0.323	0.242	0.406	3	5
7/16-20UNF	GH5	Y84875	1.5P	3.156	1.437	0.323	0.242	0.406	3	5
1/2-13UNC	GH3	Y84826	4P	3.375	1.656	0.367	0.275	0.437	3	5
1/2-13UNC	GH3	Y84827	1.5P	3.375	1.656	0.367	0.275	0.437	3	5
1/2-13UNC	GH5	Y84876	4P	3.375	1.656	0.367	0.275	0.437	3	5
1/2-13UNC	GH5	Y84877	1.5P	3.375	1.656	0.367	0.275	0.437	3	5
1/2-20UNF	GH3	Y84828	4P	3.375	1.656	0.367	0.275	0.437	3	5
1/2-20UNF	GH3	Y84829	1.5P	3.375	1.656	0.367	0.275	0.437	3	5
1/2-20UNF	GH5	Y84878	4P	3.375	1.656	0.367	0.275	0.437	3	5
1/2-20UNF	GH5	Y84879	1.5P	3.375	1.656	0.367	0.275	0.437	3	5

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Think threads with
YAMAWA