

## Industrial Quality STI Hand Taps

For Unified and Metric threads

# STI HT



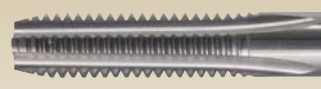
"available while supplies last"  
Vanadium High Speed Steel Taps  
For Tapping Steels, Irons, Brass and Plastics  
STI taps are special taps used to prepare holes for the installation of helical coil wire thread inserts.

\*1 See blank type on page 97.

## Carbide Taps for Cast Irons

For Unified and Metric threads

# ZELX CARB CI



ZELX® Performance Quality Carbide Hand Taps  
Micro Grain Carbide  
For Cast Irons, Hard Plastics, Fiberglass, Cast Brass, Cobalt, Chrome Alloys Steels

\*1 See blank type on page 97.

Unit : inch

Size	Class	Chamfer	Code No.	L	ℓ	D <sub>s</sub>	Number of flutes	*1 Blank type
No.2 - 56UNC	H2	1.5P	Y80781	1.88	0.563	0.141	3	Ub
		5P	Y80780					
No.4 - 40UNC	H2	1.5P	Y80785	2	0.688	0.141	3	Ub
		5P	Y80784					
No.6 - 32UNC	H3	1.5P	Y80817	2.38	0.875	0.194	3	Ub
		5P	Y80816					
No.8 - 32UNC	H3	1.5P	Y80821	2.38	0.938	0.22	3	Ub
		5P	Y80820					
No.10 - 24UNC	H2	1.5P	Y80801	2.5	1	0.255	4	Ub
		5P	Y80800					
No.10 - 32UNF	H2	1.5P	Y80803	2.5	1	0.255	3	Ub
		5P	Y80802					
	H3	1.5P	Y80827					
		5P	Y80826					
1/4 - 20UNC	H3	1.5P	Y81881	2.72	1.125	0.318	3	Ub
		5P	Y81880					
1/4 - 28UNF	H2	1.5P	Y81863	2.72	1.125	0.318	3	Ub
		5P	Y81862					
5/16 - 18UNC	H3	1.5P	Y81885	2.94	1.25	0.381	4	Ub
		5P	Y81884					
5/16 - 24UNF	H2	1.5P	Y81867	2.94	1.25	0.381	4	Ub
		5P	Y81866					
3/8 - 16UNC	H3	1.5P	Y81889	3.38	1.656	0.367	4	Ub
		5P	Y81888					
7/16 - 14UNC	H3	5P	Y81892	3.59	1.656	0.429	4	Ub
7/16 - 20UNF	H3	5P	Y81894	3.38	1.656	0.367	4	Ub
	H4	1.5P	Y81901					
1/2 - 13UNC	H3	5P	Y81896	3.81	1.81	0.48	4	Ub
1/2 - 20UNF	H3	5P	Y81898	3.59	1.656	0.429	4	Ub

Unit : inch

Size	Class	Chamfer	Code No.	L	ℓ	D <sub>s</sub>	Number of flutes	*1 Blank type
No.10 - 24UNC	H3	1.5P	Y83807	2.38	0.88	0.194	4	Ub
		5P	Y83806					
No.10 - 32UNF	H3	1.5P	Y83809	2.38	0.88	0.194	4	Ub
		5P	Y83808					
1/4 - 20UNC	H3	1.5P	Y83811	2.5	1	0.255	4	Ub
		5P	Y83810					
	H5	1.5P	Y83861					
		5P	Y83860					
1/4 - 28UNF	H3	1.5P	Y83813	2.5	1	0.255	4	Ub
		5P	Y83812					
	H5	1.5P	Y83863					
		5P	Y83862					
5/16 - 18UNC	H3	1.5P	Y83815	2.72	1.13	0.318	4	Ub
		5P	Y83814					
	H5	1.5P	Y83865					
		5P	Y83864					
5/16 - 24UNF	H3	1.5P	Y83817	2.72	1.13	0.318	4	Ub
		5P	Y83816					
	H5	1.5P	Y83867					
		5P	Y83866					
3/8 - 16UNC	H3	1.5P	Y83819	2.94	1.25	0.381	4	Ub
		5P	Y83818					
	H5	1.5P	Y83869					
		5P	Y83868					
3/8 - 24UNF	H3	1.5P	Y83821	2.94	1.25	0.381	4	Ub
		5P	Y83820					
	H5	1.5P	Y83871					
		5P	Y83870					
7/16 - 14UNC	H3	1.5P	Y83823	3.16	1.44	0.323	4	Ub
		5P	Y83822					
	H5	1.5P	Y83873					
		5P	Y83872					
7/16 - 20UNF	H3	1.5P	Y83825	3.16	1.44	0.323	4	Ub
		5P	Y83824					

### ZELX CARB CI Carbide Taps for Cast Irons

For Unified and Metric threads

Unit : inch

Size	Class	Chamfer	Code No.	L	ℓ	D <sub>s</sub>	Number of flutes	*1 Blank type
7/16 - 20UNF	H5	1.5P	Y83875	3.16	1.44	323	4	Ub
		5P	Y83874					
1/2 - 13UNC	H3	1.5P	Y83827	3.38	1.66	0.367	4	Ub
		5P	Y83826					
	H5	1.5P	Y83877					
		5P	Y83876					
1/2 - 20UNF	H3	1.5P	Y83829	3.38	1.66	0.367	4	Ub
		5P	Y83828					
	H5	1.5P	Y83879					
		5P	Y83878					
5/8 - 11UNC	H3	1.5P	Y83835	3.81	1.81	0.48	4	Ub
		5P	Y83834					
	H5	1.5P	Y83885					
		5P	Y83884					
5/8 - 18UNF	H3	1.5P	Y83837	3.81	1.81	0.48	4	Ub
		5P	Y83836					
	H5	1.5P	Y83887					
		5P	Y83886					

#### For Metric threads

Size	Class	Chamfer	Code No.	L	ℓ	D <sub>s</sub>	Number of flutes	*1 Blank type
M3 X 0.5	D3	1.5P	Y70001	1.94	0.63	0.141	3	Ub
		5P	Y70000					
M4 X 0.7	D4	1.5P	Y70003	2.13	0.75	0.168	4	Ub
		5P	Y70002					
M5 X 0.8	D4	1.5P	Y70005	2.38	0.88	0.194	4	Ub
		5P	Y70004					
M6 X 1	D5	1.5P	Y70007	2.5	1	0.255	4	Ub
		5P	Y70006					
M8 X 1	D5	1.5P	Y70009	2.72	1.13	0.318	4	Ub
		5P	Y70008					
M8 X 1.25	D5	1.5P	Y70011	2.72	1.13	0.318	4	Ub
		5P	Y70010					
M10 X 1.25	D5	1.5P	Y70013	2.94	1.25	0.381	3	Ub
		5P	Y70012					
M10 X 1.5	D6	1.5P	Y70015	2.94	1.25	0.381	4	Ub
		5P	Y70014					
M12 X 1.25	D5	1.5P	Y70017	3.38	1.66	0.367	4	Ub
		5P	Y70016					
M12 X 1.5	D6	5P	Y70018	3.38	1.66	0.367	4	Ub
		5P	Y70020					
M12 X 1.75	D6	1.5P	Y70021	3.38	1.66	0.367	3	Ub
		5P	Y70022					
M14 X 1.5	D6	5P	Y70022	3.59	1.66	0.429	4	Ub
		5P	Y70024					
M14 X 2	D7	1.5P	Y70025	3.59	1.66	0.429	4	Ub
		5P	Y70024					
M16 X 1.5	D6	1.5P	Y70027	3.81	1.81	0.48	4	Ub
		5P	Y70026					
M16 X 2	D7	1.5P	Y70029	3.81	1.81	0.48	4	Ub
		5P	Y70028					

### Carbide Taps for Non-Ferrous Materials

For Unified and Metric threads

## ZELX CARB AL



ZELX® Performance Quality Carbide Hand Taps  
Micro Grain Carbide  
For Aluminum Alloys, Zinc Die Castings, Copper Alloys  
and Soft Plastics

\*1 See blank type on page 97.

Unit : inch

Size	Class	Chamfer	Code No.	L	ℓ	D <sub>s</sub>	Number of flutes	*1 Blank type
No.5 - 40UNC	H3	1.5P	Y84801	1.94	0.63	0.141	3	Ub
		5P	Y84800					
No.6 - 32UNC	H3	1.5P	Y84803	2	0.69	0.141	3	Ub
		5P	Y84802					
No.8 - 32UNC	H3	1.5P	Y84805	2.13	0.75	0.168	3	Ub
		5P	Y84804					
No.10 - 24UNC	H3	1.5P	Y84807	2.38	0.88	0.194	3	Ub
		5P	Y84806					
No.10 - 32UNF	H3	1.5P	Y84809	2.38	0.88	0.194	3	Ub
		5P	Y84808					
1/4 - 20UNC	H3	1.5P	Y84811	2.5	1	0.255	3	Ub
		5P	Y84810					
	H5	1.5P	Y84861					
		5P	Y84860					
1/4 - 28UNF	H3	1.5P	Y84813	2.5	1	0.255	3	Ub
		5P	Y84812					
	H5	1.5P	Y84863					
		5P	Y84862					
5/16 - 18UNC	H3	1.5P	Y84815	2.72	1.13	0.318	3	Ub
		5P	Y84814					
	H5	1.5P	Y84865					
		5P	Y84864					
5/16 - 24UNF	H3	1.5P	Y84817	2.72	1.13	0.318	4	Ub
		5P	Y84816					
	H5	1.5P	Y84867				3	
		5P	Y84866					
3/8 - 16UNC	H3	1.5P	Y84819	2.94	1.25	0.381	3	Ub
		5P	Y84818					
	H5	1.5P	Y84869					
		5P	Y84868					

Overall length	Length of thread part	Length of chamfer part	Shank diameter
L	ℓ	ℓ <sub>c</sub>	D <sub>s</sub>

**ZELX CARB AL Carbide Taps for Non-Ferrous Materials**  
For Unified and Metric threads

Unit : inch

Size	Class	Chamfer	Code No.	L	ℓ	D <sub>s</sub>	Number of flutes	*1 Blank type
3/8 - 24UNF	H3	1.5P	Y84821	2.94	1.25	0.381	3	Ub
		5P	Y84820					
	H5	1.5P	Y84871					
		5P	Y84870					
7/16 - 14UNC	H3	1.5P	Y84823	3.16	1.44	0.323	3	
		5P	Y84822					
	H5	1.5P	Y84873					
		5P	Y84872					
7/16 - 20UNF	H3	1.5P	Y84825	3.16	1.44	0.323	3	
		5P	Y84824					
	H5	1.5P	Y84875					
		5P	Y84874					
1/2 - 13UNC	H3	1.5P	Y84827	3.38	1.66	0.367	3	
		5P	Y84826					
	H5	1.5P	Y84877					
		5P	Y84876					
1/2 - 20UNF	H3	1.5P	Y84829	3.38	1.66	0.367	3	
		5P	Y84828					
	H5	1.5P	Y84879					
		5P	Y84878					

**For Metric threads**

Size	Class	Chamfer	Code No.	L	ℓ	D <sub>s</sub>	Number of flutes	*1 Blank type
M3 X 0.5	D3	5P	Y71000	1.94	0.63	0.141	3	Ub
M4 X 0.7	D4	1.5P	Y71003	2.13	0.75	0.168	3	
		5P	Y71002					
M5 X 0.8	D4	1.5P	Y71005	2.38	0.88	0.194	3	
		5P	Y71004					
M6 X 1	D5	1.5P	Y71007	2.5	1	0.255	3	
		5P	Y71006					
M8 X 1	D5	1.5P	Y71009	2.72	1.13	0.318	3	
		5P	Y71008					
M8 X 1.25	D5	1.5P	Y71011	2.72	1.13	0.318	3	
		5P	Y71010					
M10 X 1.25	D5	1.5P	Y71013	2.94	1.25	0.381	3	
		5P	Y71012					
M10 X 1.5	D6	1.5P	Y71015	2.94	1.25	0.381	3	
		5P	Y71014					
M12 X 1.25	D5	1.5P	Y71017	3.38	1.66	0.367	3	
		5P	Y71016					
M12 X 1.5	D6	1.5P	Y71019	3.38	1.66	0.367	3	
		5P	Y71018					
M12 X 1.75	D6	1.5P	Y71021	3.38	1.66	0.367	3	
		5P	Y71020					

**Industrial Quality Roll Taps**

For Unified and Metric threads

**ROLL**



"available while supplies last"  
Vanadium High Speed Steel Taps

\*1 See blank type on page 97.

\*2 "BR" of code No. stands for Bright finish taps

Unit : inch

Size	Class	Chamfer	*2 Code No.	L	ℓ	D <sub>s</sub>	Number of flutes	*1 Blank type
No.0 - 80UNF	H2	1.5P	Y87732	1.63	0.31	0.141	3	Ub
			Y87732BR					
No.1 - 64UNC	H2	1.5P	Y87734	1.69	0.38	0.141	3	
			Y87734BR					
No.1 - 72UNF	H2	1.5P	Y87736	1.69	0.38	0.141	3	
			Y87736BR					
No.2 - 56UNC	H2	1.5P	Y87738	1.75	0.44	0.141	4	
			Y87738BR					
	H3	1.5P	Y87776	1.75	0.44	0.141	4	
			Y87776BR					
No.2 - 64UNF	H2	1.5P	Y87740	1.75	0.44	0.141	4	
			Y87740BR					
	H3	1.5P	Y87778BR					
		4P	Y87778					
No.3 - 48UNC	H2	1.5P	Y87742	1.81	0.5	0.141	4	
			Y87742BR					
	H3	1.5P	Y87780					
			Y87780BR					
No.3 - 56UNF	H2	1.5P	Y87744	1.81	0.5	0.141	4	
			Y87744BR					
	H3	1.5P	Y87782					
			Y87782BR					
No.4 - 40UNC	H3	1.5P	Y87784	1.88	0.56	0.141	4	
			Y87784BR					
		4P	Y87783					
			Y87783BR					
	H5	1.5P	Y87857					
			Y87857BR					
		4P	Y87856					
			Y87856BR					