

Think threads with YAMAWA

Our technical expertise continues to create high quality, high performance products while protecting the environment.

For more than 90 years, YAMAWA has continued to develop superior technical expertise as a pioneer in the tap and die industry.

The Yamawa employees technological know-how throughout its history has helped to produce many of the diverse products that have supported our growth over the years. We have established a flexible production system and a research and development system geared to the needs of our customers.

We remain committed to the development of high-quality, high-performance products, while continuing to refine and advance our technical capabilities.

YAMAWA's Unique Capabilities

Tap production involves the grinding of many features on a tap blank to produce a finished precision tool. For many years, YAMAWA has recognized the need to build these precision tap grinding machines "in-house" as a means of achieving greater tool precision and higher quality tools. Today, YAMAWA makes more than 90% of its own production machines, thereby controlling tap quality from cutoff to final laser marking and measurement. Machines manufactured include machine tools to thread, flute grind, chamfer, machine tap squares, OD grind, and machines to measure all of the tap's critical elements such as thread pitch diameter. The self-reliance at YAMAWA allows us to control product quality and production capabilities by custom engineering machines not readily available in the open market. At YAMAWA, we understand how to make taps, tap manufacturing machines and tap measuring equipment.

Research and Development

To achieve maximum tapping efficiency, we analyze materials to be tapped in detail. After carefully selecting a tap base material we thoroughly control heat treatment and design. This allows us to develop and supply taps that are ideally suited to specific application. In addition to the basic tap research taking place at our technical research center, we also have a test center where we conduct performance and durability tests on the taps produced at Yamwa to evaluate tool performance with the goal of continuous improvement.

ISO9001

Equipped with many measuring machines manufactured in-house, YAMAWA maintains a rigorous quality system that includes inspection of both the machine stage and finished goods. This quality control system has received widespread acclaim, along with numerous awards. In 1996, the Yonezawa Plant stepped ahead of our competitors by receiving ISO9001. The Fukushima Plant and Aizu Plant were ISO9001 certified in 2000. The Tsutsumi plant was certified with ISO9001 in 2011. The head quarters were certified with ISO9001 in 2012.

ISO14001

Yamawa is proud to announce the certification of ISO14001 for all manufacturing facilities and operations. Our aim is to preserve the environment for future generations under the themes as an ecological friendly while producing the best screw threads available today. Yamawa recognizes that enterprise activities have a major influence on the earth's environments and as a large corporation we proceed with the protection and continuous improvement of the environment. Yamawa decreases the burden on environment, and respects the environmental rules as it continues to pursue an environment friendly enterprise.

Yonezawa Plant (ISO9001: 1996) (ISO14001: 2003)



Yonezawa is the main manufacturing plant of the Yamawa Group, this location is equipped with production lines and is the Quality Control Center. The plant obtained ISO 9001 certification in 1996. Of the four Yamawa plants, the Yonezawa location has the longest history of manufacturing and the highest production capacity. Products include roll taps, spiral pointed, pipe and hand taps.

The Yonezawa Plant stepped ahead of our competitors by receiving ISO 9001 before any other cutting tool manufacturing in Japan.

Fukushima Plant (ISO9001: 2000) (ISO14001: 2002)



The Fukushima plant provides both tap production lines and in house facilities for the manufacturing of specialized production machine tools to produce the exceptional high quality cutting tools . This plant develops and manufactures special tap and die production equipment. It also supplies these machines to our other manufacturing sites. Products include spiral fluted taps, dies and combined drill/countersinks as, well as production machinery.

Aizu Plant (ISO9001: 2000) (ISO14001: 2002)



Equipped with the most sophisticated machine tools available, this plant is famous for its automation and robotized labor saving manufacturing processes. The plant is designed for mass production of the highest quality cutting tools and screw thread tools. Products include spiral fluted taps and carbide taps.

Tsutsumi Plant (ISO9001: 2011) (ISO14001: 2011)



The Tsutsumi plant is the main tool blank manufacturing operation of Yamawa group. This location is also the testing center where Yamawa executes the innovation in metal machining and performance tests of the products for the Yamawa group.

Head Office (ISO9001: 2012) (ISO14001: 2003)



Head office and export department. Address: Nakajima Gold Building, No. 13-10,

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Quality, Consistency, Performance and Product Development. All of the 800 Yamawa employees are committed to these principles and these are reflected in each tool we produce.

TAP INDEX

Z-PRO PO	P4 Economical High Performance Spiral Point
Z-PRO SP	P12 Economical High Performance Spiral Flute
Z-PRO HT	P20 Economical High Performance Hand Taps
MHSL	P36 Metric SL Series
AXE	P37 Metric ST Series
ZELX MOLD	P38 Hand Taps for Hard to Machine Materials
IHT	P39 I Series HT
"TA"	P40
	"TA" Tap Adapter



The Z-PRO Series is designed for carbon steels, alloyed steels, irons, brass and free machining materials, including stainless steel that require the most economical tool life. They are ideal for materials that produce stringy chips, such as steels, stainless steels and plastics.

Spiral Pointed taps are recommended for tapping through holes.

Economical High Performance Taps For Metric threads



*Z-PRO PO have a Bright Surface Treatment

*AVAILABLE IN TIN AND TICN COATING ON REQUEST

Custom Blend High Vanadium HSS

Plug Style (3 to 5 threads chamfered) DIN lengths with ANSI shank dimensions.

Z-PRO Series PO

Metric Sizes

Size Flutes D3 D4 D5 D6 D7 Length of Neck (~Thread+ Neck) Overal (~Thread+ Neck) Length of Neck (~Thread+ Neck)	N · 1			Pitch Dia	meter Limit / EDP	Numbers	1110 0011001 0		Dimensions	
M2x 0.4 3 PS2.0E3NEB — — — .314 .382 1.772 M2.2 x 0.45 3 PS2.0E3NEB — — — .314 .382 1.772 M2.5 x 0.45 3 PS2.0E3NEB — — — .354 .693 2.205 M2.6 x 0.45 3 PS2.0E3NEB — — — .354 .693 2.205 M3.5 x 0.6 3 PS3.0G3NEB — — — .433 .768 2.205 M3.5 x 0.6 3 — PS3.0HANEB — — .433 .767 2.205 M4 x 0.7 4 — PS4.0IANEB — — .512 .827 2.48 M5 x 0.8 4 — PS5.0KANEB — — .591 .984 3.15 M6 x 1 4 — PS7.0JANEB — — .591 .181 3.15 M7 x 0.5 4 — PS7.0JAN	Nominal	No. of	D3				D7	Length	Neck Length	Length
M2.2x0.45 3 PS2.2F3NEB — — .314 .382 1.772 M2.5x0.45 3 PS2.5F3NEB — — — .354 .693 2.205 M2.6x0.45 3 PS2.6F3NEB — — — .354 .693 2.205 M3x0.5 3 PS3.0G3NEB — — — .433 .768 2.205 M4x0.7 4 — PS4.014NEB — — .512 .827 2.48 M5x0.8 4 — PS5.0K4NEB — — .591 .984 .315 M6x1 4 — PS5.0K4NEB — — .591 .181 3.15 M7x0.75 4 — PS7.0J4NEB — — .748 1.315 3.543 M8x0.75 4 — PS7.0J4NEB — — .748 1.315 3.543 M8x1 4 — PS8.0J4NEB — — .748 1.315 3.543 M8x0.75 4 — PS8.0J4N		Flutes							-	
M2.5 x 0.45 3 PS2.5F3NEB — — — .354 .693 2.205 M2.6 x 0.45 3 PS2.6F3NEB — — — .354 .693 2.205 M3 x 0.5 3 PS3.0G3NEB — — — .433 .768 2.205 M4 x 0.7 4 — PS4.014NEB — — .512 .827 2.48 M5 x 0.8 4 — PS5.0K4NEB — — .591 .984 3.15 M6 x 1 4 — PS5.0K4NEB — — .591 .181 3.15 M7 x 0.5 4 — PS7.0JANEB — — .748 1.315 3.543 M7 x 0.5 4 — PS7.0JANEB — — .748 1.315 3.543 M8 x 0.75 4 — PS8.0JANEB — — .748 1.382 3.543 M8 x 1.25 4 — PS8.0JANE	M2 x 0.4	3	PS2.0E3NEB	_	_	_	_	.314	.382	1.772
M3.6.5.0.45 3 PS3.0G3NEB — — — — — — — — — — — — — — — — — — —	M2.2 x 0.45	3	PS2.2F3NEB	_	_	_	_	.314	.382	1.772
M3 x 0.5 3 PS3.0G3NEB — — — .433 .768 2.205 M3.5 x 0.6 3 — PS3.5H4NEB — — .433 .787 2.205 M4 x 0.7 4 — PS4.0I4NEB — — .512 .827 2.48 M5 x 0.8 4 — PS5.0K4NEB — — .591 .198 3.15 M6 x 1 4 — — PS6.0M5NEB — — .591 .181 3.15 M6 x 1 4 — — PS6.0M5NEB — — .748 1.315 3.543 M7 x 0.5 4 — — PS7.0M5NEB — — .748 1.315 3.543 M8 x 0.5 4 — — PS8.0M5NEB — — .748 1.382 3.543 M8 x 1.25 4 — — PS8.0M5NEB — — .748 1.382 3.543 <	M2.5 x 0.45	3	PS2.5F3NEB	_	_	_	_	.354	.693	2.205
M3.5 x 0.6 3	M2.6 x 0.45	3	PS2.6F3NEB	_	_	_	_	.354		
M4 x0.7 4 — PS4.014NEB — — .512 .827 2.48 M5 x0.8 4 — PS5.0KANEB — — .591 .984 3.15 M6 x1 4 — — PS6.0M5NEB — — .591 1.181 3.15 M7 x0.75 4 — PS7.0J4NEB — — .748 1.315 3.543 M7 x1 4 — PS7.0G4NEB — — .394 1.315 3.543 M8 x0.75 4 — PS8.0J4NEB — — .748 1.382 3.543 M8 x1 4 — PS8.0G4NEB — — .748 1.382 3.543 M8 x1 4 — — PS8.0M5NEB — .748 1.382 3.543 M9 x1 4 — — PS8.0N5NEB — .748 1.382 3.543 M9 x1 4 — —	M3 x 0.5	3	PS3.0G3NEB	_	_	_	_	.433	.768	2.205
M5 x 0.8 4 — PS5.0K4NEB — — .591 .984 3.15 M6 x 1 4 — — PS6.0M5NEB — — .591 1.181 3.15 M7 x 0.75 4 — PS7.0JANEB — — .748 1.315 3.543 M7 x 1 4 — — PS7.0JANEB — — .748 1.315 3.543 M8 x 0.75 4 — PS8.0JANEB — — .748 1.382 3.543 M8 x 1.5 4 — PS8.0JANEB — — .748 1.382 3.543 M8 x 1.25 4 — — PS8.0M5NEB — — .748 1.382 3.543 M9 x 1.25 4 — — PS9.0M5NEB — — .748 1.382 3.543 M10 X 0.75 4 — PS9.0M5NEB — — .748 1.382 3.543	M3.5 x 0.6	3		PS3.5H4NEB	_	_	_	.433	.787	2.205
M6x1 4 — PS6.0M5NEB — .591 1.181 3.15 M7x0.75 4 — PS7.0J4NEB — — .748 1.315 3.543 M7x0.5 4 — PS7.0G4NEB — — .394 1.315 3.543 M8x0.75 4 — PS8.0J4NEB — — .748 1.382 3.543 M8x0.5 4 — PS8.0G4NEB — — .394 1.382 3.543 M8x1 4 — — PS8.0M5NEB — .748 1.382 3.543 M9x1 4 — — PS9.0M5NEB — .748 1.382 3.543 M9x1.25 4 — — PS9.0M5NEB — .748 1.382 3.543 M10 X 0.75 4 — PS010M5NEB — .748 1.382 3.543 M10 x 1.25 4 — — PS010M5NEB —	M4 x 0.7	4	_	PS4.0I4NEB	_	_	_	.512	.827	2.48
M7x0.75 4 — PS7.0J4NEB — — .748 1.315 3.543 M7x0.5 4 — PS7.0G4NEB — — .394 1.315 3.543 M8x0.75 4 — PS8.0J4NEB — — .748 1.382 3.543 M8x0.5 4 — PS8.0J4NEB — — .748 1.382 3.543 M8x1 4 — — PS8.0M5NEB — — .748 1.382 3.543 M9x1 4 — — PS9.0M5NEB — — .748 1.382 3.543 M9x1.25 4 — — PS9.0M5NEB — — .748 1.382 3.543 M9x1.25 4 — — PS9.0M5NEB — — .748 1.382 3.543 M10 X 0.75 4 — PS010J4NEB — — .512 1.929 3.937 M10 x 1.	M5 x 0.8	4	_	PS5.0K4NEB	_	_	_	.591	.984	3.15
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M7x1 4 — PS8.0JANEB — .748 1.315 3.543 M8x0.75 4 — PS8.0JANEB — — .748 1.382 3.543 M8x0.5 4 — PS8.0G4NEB — — .394 1.382 3.543 M8x1 4 — — PS8.0M5NEB — .748 1.382 3.543 M9x1.25 4 — — PS9.0M5NEB — .748 1.382 3.543 M10 X 0.75 4 — PS010JANEB — .748 1.382 3.543 M10 X 1.25 4 — — PS010M5NEB — .748 1.382 3.543 M10 x 1.25 4 — — PS010M5NEB — .748 1.382 3.543 M10 x 1.5 4 — PS010JANEB — .748 1.382 3.543 M10 x 1.5 4 — — PS010M5NEB — .	M7 x 0.75	4	_	PS7.0J4NEB	_	_	_	.748	1.315	3.543
M8x0.75 4 — PS8.0J4NEB — — .748 1.382 3.543 M8x0.5 4 — PS8.0G4NEB — — .394 1.382 3.543 M8x1 4 — — PS8.0M5NEB — .748 1.382 3.543 M8x1.25 4 — — PS9.0M5NEB — .748 1.382 3.543 M9x1 4 — — PS9.0M5NEB — .748 1.382 3.543 M9x1.25 4 — — PS9.0N5NEB — .748 1.382 3.543 M10 X 0.75 4 — PS9.0N5NEB — .748 1.382 3.543 M10 x 1.25 4 — — PS9.0N5NEB — .748 1.382 3.543 M10 x 1.25 4 — — PS010M5NEB — .906 1.929 3.937 M10 x 1.25 4 — — —	M7 x 0.5	4	_	PS7.0G4NEB	_	_	_	.394	1.315	3.543
M8x0.5	M7 x 1	4	_	_	PS7.0M5NEB	_	_	.748	1.315	3.543
M8x1 4 — — PS8.0M5NEB — .748 1.382 3.543 M8x1.25 4 — — PS8.0N5NEB — .748 1.382 3.543 M9x1 4 — — PS9.0M5NEB — .748 1.382 3.543 M9x1.25 4 — — PS9.0N5NEB — .748 1.382 3.543 M10 X 0.75 4 — PS010JANEB — .748 1.382 3.543 M10 x 1 4 — — PS010M5NEB — .748 1.382 3.543 M10 x 1.25 4 — — PS010M5NEB — .512 1.929 3.937 M10 x 1.25 4 — — — PS010O6NEB — .906 1.929 3.937 M11 x 1.5 4 — — — PS011O6NEB — .906 1.929 3.937 M12 x 1.25 4 — — — PS012N6NEB — 1.024 2.126 4.331	M8 x 0.75	4	_	PS8.0J4NEB	_	_	_	.748	1.382	3.543
M8x1.25	M8 x 0.5	4	_	PS8.0G4NEB	_	_	_	.394	1.382	3.543
M9x1	M8 x 1	4	_	_	PS8.0M5NEB	_	_	.748	1.382	3.543
M9x1.25 4 — PS9.0N5NEB — .748 1.382 3.543 M10 X 0.75 4 — PS010J4NEB — — .512 1.929 3.937 M10 x 1 4 — — PS010M5NEB — — .906 1.929 3.937 M10 x 1.25 4 — — PS010N5NEB — — .906 1.929 3.937 M10 x 1.5 4 — — — PS010O6NEB — .906 1.929 3.937 M11 x 1.5 4 — — — PS011O6NEB — .906 1.929 3.937 M12 x 1 4 — — — PS012M5NEB — — 1.024 2.126 4.331 M12 x 1.25 4 — — — PS012N6NEB — 1.024 2.126 4.331 M12 x 1.5 4 — — — — PS012O6NEB — <	M8 x 1.25	4	_	_	PS8.0N5NEB	_	_	.748	1.382	3.543
M10 X 0.75 4 — PS010J4NEB — — .512 1.929 3.937 M10 x 1 4 — — PS010M5NEB — — .906 1.929 3.937 M10 x 1.25 4 — — PS010N5NEB — — .906 1.929 3.937 M10 x 1.5 4 — — — PS010O6NEB — .906 1.929 3.937 M11 x 1.5 4 — — — PS011O6NEB — .906 1.929 3.937 M12 x 1 4 — — PS012M5NEB — — 1.024 2.126 4.331 M12 x 1.25 4 — — — PS012O6NEB — 1.024 2.126 4.331 M12 x 1.5 4 — — — PS012O6NEB — 1.024 2.126 4.331	M9 x 1	4	_	_	PS9.0M5NEB	_	_	.748	1.382	3.543
M10x1 4 — — PS010M5NEB — — .906 1.929 3.937 M10x1.25 4 — — PS010N5NEB — — .906 1.929 3.937 M10x1.5 4 — — — PS010O6NEB — .906 1.929 3.937 M11x1.5 4 — — — PS011O6NEB — .906 1.929 3.937 M12x1 4 — — PS012M5NEB — — 1.024 2.126 4.331 M12x1.25 4 — — — PS012O6NEB — 1.024 2.126 4.331 M12x1.5 4 — — — PS012O6NEB — 1.024 2.126 4.331	M9 x 1.25	4	_	_	PS9.0N5NEB	_	_	.748	1.382	3.543
M10x1 4 — — PS010M5NEB — — .906 1.929 3.937 M10x1.5 4 — — — PS010O6NEB — .906 1.929 3.937 M11x1.5 4 — — — PS011O6NEB — .906 1.929 3.937 M12x1 4 — — PS012M5NEB — — 1.024 2.126 4.331 M12x1.25 4 — — — PS012O6NEB — 1.024 2.126 4.331 M12x1.5 4 — — — PS012O6NEB — 1.024 2.126 4.331	M10 X 0.75	4	_	PS010J4NEB	_	_	_	.512	1.929	3.937
M10x1.25 4 — — — PS010O6NEB — .906 1.929 3.937 M11x1.5 4 — — — PS011O6NEB — .906 1.929 3.937 M12x1 4 — — PS012M5NEB — — 1.024 2.126 4.331 M12x1.25 4 — — — PS012N6NEB — 1.024 2.126 4.331 M12x1.5 4 — — — PS012O6NEB — 1.024 2.126 4.331	M10 x 1	4	_	_	PS010M5NEB	_	_	.906	1.929	3.937
M11x1.5 4 — — PS011O6NEB — .906 1,929 3,937 M12x1 4 — — PS012M5NEB — — 1.024 2.126 4.331 M12x1.25 4 — — — PS012N6NEB — 1.024 2.126 4.331 M12x1.5 4 — — — PS012O6NEB — 1.024 2.126 4.331	M10 x 1.25	4	_	_	PS010N5NEB	_	_	.906	1.929	3.937
M12x1 4 — — PS012M5NEB — — 1.024 2.126 4.331 M12x1.25 4 — — — PS012N6NEB — 1.024 2.126 4.331 M12x1.5 4 — — — PS012O6NEB — 1.024 2.126 4.331	M10 x 1.5	4	_	_	_	PS010O6NEB	_	.906	1.929	3.937
M12 x 1.25	M11 x 1.5	4	_	_	_	PS011O6NEB	_	.906	1.929	3.937
M12 x 1.5 4 — — PS012O6NEB — 1.024 2.126 4.331	M12 x 1	4	_	_	PS012M5NEB	_	_	1.024	2.126	4.331
7	M12 x 1.25	4	_	_	_	PS012N6NEB	_	1.024	2.126	4.331
M12 x 1.75 4 — — PS012P6NEB — 1.024 2.126 4.331	M12 x 1.5	4	_	_		PS012O6NEB		1.024	2.126	4.331
	M12 x 1.75	4	_			PS012P6NEB		1.024	2.126	4.331





Economical High Performance Taps
For Metric Threads

PO



*Z-PRO PO have a Bright Surface Treatment

The Z-PRO Series is designed for carbon steels, alloyed steels, irons, brass and free machining materials, including stainless steel that require the most economical tool life. They are ideal for materials that produce stringy chips, such as steels, stainless steels and plastics.

Spiral Pointed taps are recommended for tapping through holes.

*AVAILABLE IN TIN AND TICN COATING ON REQUEST

Custom Blend High Vanadium HSS

Plug Style (3 to 5 threads chamfered) DIN lengths with ANSI shank dimensions.

Dirvicingui	5 WILII I L	1101 SHallk ulli	-PRO Series PO			ic Sizes			
Nominal	No. of		Pitch Dia	meter Limit / EDP	Numbers			Dimensions	
Size	Flutes	D5	D6	D7	D 8	D9	Length	Neck Length	Length
			I					(=Thread + Neck)	
M14 x 1	4	PS014M5NEB	_	_	_	_	1.024	2.126	4.331
M14 x 1.25	4	_	PS014N6NEB	_	_	_	1.024	2.126	4.331
M14 x 1.5	4	_	PS014O6NEB	_	_		1.024	2.126	4.331
M14x2	4	_	_	PS014Q7NEB	_	_	1.024	2.126	4.331
M16 x 1	4	PS016M5NEB	_	_	_	_	1.024	2.126	4.331
M16 x 1.5	4	_	PS016O6NEB	_	_	_	1.024	2.126	4.331
M16 x 2	4	_	_	PS016Q7NEB	_	_	1.024	2.126	4.331
M18 x 1	4	PS018M5NEB	_	_	_	_	.945	2.402	4.921
M18 x 1.5	4	_	PS018O6NEB	_	_	_	.945	2.402	4.921
M18 x 2	4	_	_	PS018Q7NEB	_	_	1.299	2.402	4.921
M18 x 2.5	4	_	_	PS018R7NEB	_	_	1.299	2.402	4.921
M20 x 1	4	PS020M5NEB	_	_	_	_	.945	2.717	5.512
M20 x 1.5	4	_	PS020O6NEB	_	_	_	.945	2.717	5.512
M20 x 2	4	_	_	PS020Q7NEB	_	_	1.299	2.717	5.512
M20 x 2.5	4	_	_	PS020R7NEB	_	_	1.299	2.717	5.512
M22x 1	4	PS022M5NEB	_	_	_	_	.945	2.717	5.512
M22 x 1.5	4	_	PS022O6NEB	_	_	_	.945	2.717	5.512
M22 x 2	4	_	_	PS022Q7NEB	_	_	1.299	2.717	5.512
M22 x 2.5	4	_	_	PS022R7NEB	_	_	1.299	2.717	5.512
M24 x 1	4	PS024M5NEB	_	_	_	_	1.063	3.071	6.299
M24 x 1.5	4	_	PS024O6NEB	_	_	_	1.063	3.071	6.299
M24x2	4	_	_	PS024Q7NEB	_	_	1.063	3.071	6.299
M24x3	4	_	_	_	PS024S8NEB	_	1.457	3.071	6.299
M25 x 1.5	4	_	PS025O6NEB	_	_	_	1.063	3.071	6.299
M26 x 1.5	4	_	PS026O6NEB	_	_	_	1.063	3.465	7.087
M27 x 1	4	PS027M5NEB	_	_	_	_	1.063	3.465	7.087

P

Z

Z-PRO

The Z-PRO Series is designed for carbon steels, alloyed steels, irons, brass and free machining materials, including stainless steel that require the most economical tool life. They are ideal for the materials that produce stringy chips, such as steels, stainless steels, and plastics.

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Custom Blend High Vanadium HSS

Plug Style (3 to 5 threads chamfered) DIN lengths with ANSI shank dimensions.

Z-PRO Series PO Metric Sizes

2 II Trongeno	********	or shank difficits	101101		D: :				
Nominal	No. of		Pitch Dia	meter Limit / EDP	Numbers			Dimensions	
Size	Flutes	D5	D6	D7	D8	D9	Length of Thread	Neck Length (=Thread + Neck)	Length
			PS027O6NEB		_	_		3.465	7.087
M2 7x 1.5	4	_	F302/OONEB		_	_	1.063	3.465	
M27 x 2	4	_	_	PS027Q7NEB	_	_	1.063		7.087
M27 x 3	4	_			PS027S8NEB	_	1.732	3.465	7.087
M28 x 1	4	PS028M5NEB	_	_	_	_	1.063	3.465	7.087
M28 x 1.5	4	_	PS028O6NEB	_	_	_	1.063	3.465	7.087
M28 x 2	4		_	PS028Q7NEB	_	_	1.063	3.465	7.087
M30 x 1	4	PS030M5NEB	_	_	_	_	1.063	3.465	7.087
M30 x 1.5	4	_	PS030O6NEB	_	_	_	1.063	3.465	7.087
M30 x 2	4	_	_	PS030Q7NEB	_	_	1.063	3.465	7.087
M30 x 3.5	4	_	_	_	_	PS030T9NEB	1.732	3.465	7.087
M32 x 1	4	PS032M5NEB	_	_	_	_	1.063	3.465	7.087
M32 x 1.5	4	_	PS032O6NEB	_	_	_	1.063	3.465	7.087
M32 x 2	4	_	_	PS032Q7NEB	_	_	1.063	3.465	7.087
M33 x 1	4	PS033M5NEB	_	_	_	_	1.142	3.465	7.087
M33 x 1.5	4	_	PS033O6NEB	_	_	_	1.142	3.465	7.087
M33 x 2	4	_	_	PS033Q7NEB	_	_	1.142	3.465	7.087
M33 x 3.5	4	_	_	_	_	PS033T9NEB	1.181	3.465	7.087
M36 x 1	4	PS036M5NEB	_	_	_	_	1.142	3.858	7.784
M36 x 1.5	4	_	PS036O6NEB	_	_	_	1.142	3.858	7.874
M36 x 2	4	_	_	PS036Q7NEB	_	_	1.142	3.858	7.874
M36 x 3	4	_	_	_	PS036S8NEB	_	2.047	3.858	7.874
M36 x 4	4	_	_	_	_	PS036U9NEB	2.047	3.858	7.874
M39 x 1	4	PS039M5NEB	_	_	_	_	1.142	3.858	7.874
M39 x 1.5	4	_	PS039O6NEB	_	_	_	1.142	3.858	7.874
M39 x 2	4	_	_	PS039Q7NEB	_	_	1.142	3.858	7.874
M39 x 3	4	_	_	_	PS039S8NEB	_	2.047	3.858	7.874



Economical High Performance Taps
For Metric Threads

PO



*Z-PRO PO have a Bright Surface Treatment

Spiral Pointed taps are recommended for tapping through holes.

The Z-PRO Series is designed for carbon steels, alloyed steels, irons, brass and free machining

materials, including stainless steel that require the

most economical tool life. They are ideal for the materials that produce stringy chips, such as steels,

*AVAILABLE IN TIN AND TICN COATING ON REQUEST

Custom Blend High Vanadium HSS

Plug Style (3 to 5 threads chamfered)

DIN lengths with ANSI shank dimensions.

Z-PRO Series PO

stainless steels, and plastics.

Metric Sizes

Dividiguis	WILLIAM	or smallk um	nensions.				Z-1 IX	O Series I O		Wich	COIZES
Nominal	No. of			Pitch Diamete	r Limit / E	DP Numbers			Ι	Dimensions	
Size	Flutes	D5	D6	D7	D8	D9	D10	D11	Length of Thread (Neck Length =Thread + Neck)	Length Overall
M39 x 4	4	_		_	_	PS039U9NEB	-	_	2.047	3.858	7.874
M42 x 1	4	PS042M5N	EB —	_	_	_	_	_	1.142	3.858	7.874
M42 x 1.5	4	_	PS042O6NE	ЕВ —	_	_	_	_	1.142	3.858	7.874
M42 x 2	4	_	_	PS042Q7NEB	_	_	_	_	1.142	3.858	7.874
M42 x 4.5	4	_	_	_	_	- 1	PS042VONI	ЕВ —	2.323	3.858	7.874
M45 x 1	4	PS045M5N	ЕВ —	_	_	_	_	_	1.22	4.252	8.661
M45 x 1.5	4	_	PS045O6NE	ъ —	_	_	_	_	1.22	4.252	8.661
M45 x 2	4	_	_	PS045Q7NEB	· —	_	_	_	1.22	4.252	8.661
M45 x 3	4	_	_	_ :	PS045S8N	NEB —	_	_	2.323	4.252	8.661
M45 x 4.5	4	_	_	_	_	_ :	PS045VONI	EВ —	2.323	4.252	8.661
M48 x 1	4	_	PS048M6NI	EB —	_	_	_	_	1.22	4.803	9.843
M48 x 1.5	4	_	_	PS048O7NEF	3 —	_	_	_	1.22	4.803	9.843
M48 x 2	4	_	_	PS048Q7NEB	_	_	_	_	1.22	4.803	9.843
M48 x 3	4	_	_	_	_	PS048S9NEB	-	_	2.559	4.803	9.843
M48 x 5	4	_	_	_	_	_	— 1	PS048W-NEB	2.559	4.803	9.843

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Z-PRO

The Z-PRO Series is designed for carbon steels, alloyed steels, irons, brass and free machining materials, including stainless steel that require the most economical tool life. They are ideal for the materials that produce stringy chips, such as steels, stainless steels and plastics.

Spiral Pointed taps are recommended for tapping through holes.

Economical High Performance Taps For Metric Threads



Z-PRO PO have an Oxide Surface Treatment Custom Blend High Vanadium HSS

Plug Style (3 to 5 threads chamfered)

DIN lengths with ANSI shank dimensions Z-PRO Series PO Metric Sizes

DIN length	is with A	NSI shank din	nensions.	<u>Z</u> -	PRO Series PO			ic Sizes	
Nominal	No. of		Pitch Dia	meter Limit / EDP	Numbers			Dimensions	
Size	Flutes	D3	D4	D5	D6	D7	Length of Neck	Neck Length (=Thread + Neck)	Length Overall
M2 x 0.4	3	PS2.0E3NEX	_	_	_	_	.314	.382	1.772
M2.2 x 0.45	3	PS2.2F3NEX	_	_	_	_	.314	.382	1.772
M2.5 x 0.45	3	PS2.5F3NEX	_	_	_	_	.354	.693	2.205
M2.6 x 0.45	3	PS2.6F3NEX	_	_	_	_	.354	.693	2.205
M3 x 0.5	3	PS3.0G3NEX	_	_	_	_	.433	.768	2.205
M3.5 x 0.6	3	_	PS3.5H4NEX	_	_	_	.433	.787	2.205
M4x0.7	4	_	PS4.0I4NEX	_	_	_	.512	.827	2.48
M5 x 0.8	4	_	PS5.0K4NEX	_	_	_	.591	.984	3.15
M6 x 1	4	_	_	PS6.0M5NEX	_	_	.591	1.181	3.15
M7 x 0.75	4	_	PS7.0J4NEX	_	_	_	.748	1.315	3.543
M7 x 0.5	4	_	PS7.0G4NEX	_	_	_	.394	1.315	3.543
M7 x 1	4	_	_	PS7.0M5NEX	_	_	.748	1.315	3.543
M8 x 0.75	4	_	PS8.0J4NEX	_	_	_	.748	1.382	3.543
M8 x 0.5	4	_	PS8.0G4NEX	_	_	_	.394	1.382	3.543
M8 x 1	4	_	_	PS8.0M5NEX	_	_	.748	1.382	3.543
M8 x 1.25	4	_	_	PS8.0N5NEX	_	_	.748	1.382	3.543
M9 x 1	4	_	_	PS9.0M5NEX	_	_	.748	1.382	3.543
M9 x 1.25	4	_	_	PS9.0N5NEX	_	_	.748	1.382	3.543
M10 X 0.75	4	_	PS010J4NEX	_	_	_	.512	1.929	3.937
M10 x 1	4	_	_	PS010M5NEX	_	_	.906	1.929	3.937
M10 x 1.25	4	_	_	PS010N5NEX	_	_	.906	1.929	3.937
M10 x 1.5	4	_	_	_	PS010O6NEX	_	.906	1.929	3.937
M11 x 1.5	4	_	_	_	PS011O6NEX	_	.906	1.929	3.937
M12 x 1	4	_	_	PS012M5NEX	_	_	1.024	2.126	4.331
M12 x 1.25	4	_	_	_	PS012N6NEX	_	1.024	2.126	4.331
M12 x 1.5	4	_	_	_	PS012O6NEX	_	1.024	2.126	4.331
M12 x 1.75	4	_	_	_	PS012P6NEX	_	1.024	2.126	4.331





Economical High Performance Taps For Metric Threads



Z-PRO PO have an Oxide Surface Treatment Custom Blend High Vanadium HSS

The Z-PRO Series is designed for carbon steels, alloyed steels, irons, brass and free machining materials, including stainless steel that require the most economical tool life. They are ideal for the materials that produce stringy chips, such as steels, stainless steels and plastics.

Spiral Pointed taps are recommended for tapping through holes.

Plug Style (3 to 5 threads chamfered) DIN lengths with ANSI shank dimensions.

Z-PRO Series PO

Metric Sizes

DIN lengths	with Ain	51 snank dimens	L-	PRO Series PO			ic Sizes		
Nominal	No. of		Pitch Dia	meter Limit / EDP			Dimensions		
Size	Flutes	D5	D 6	D7	D 8	D9	Length	Neck Length	Length
			ı	<u> </u>		1	1.024	(=Thread + Neck) 2.126	4.331
M14 x 1	4	PS014M5NEX	_	_	_	_	1.024	2.126	4.331
M14 x 1.25	4	_	PS014N6NEX	_	_	_			4.331
M14 x 1.5	4	_	PS014O6NEX	_			1.024	2.126	4.331
M14 x 2	4	_	_	PS014Q7NEX	_	_	1.024	2.126	4.331
M16 x 1	4	PS016M5NEX	_	_	_	_	1.024	2.126	4.331
M16 x 1.5	4		PS016O6NEX	_	_	_	1.024	2.126	4.331
M16 x 2	4	_	_	PS016Q7NEX	_	_	1.024	2.126	4.331
M18 x 1	4	PS018M5NEX	_	_	_	_	.945	2.402	4.921
M18 x 1.5	4	_	PS018O6NEX	_	_	_	.945	2.402	4.921
M18 x 2	4	_	_	TS018Q7NEB5	_	_	1.299	2.402	4.921
M18 x 2.5	4	_	_	TS018R7NEB5	_	_	1.299	2.402	4.921
M20 x 1	4	PS020M5NEX	_	_	_	_	.945	2.717	5.512
M20 x 1.5	4	_	PS020O6NEX	_	_	_	.945	2.717	5.512
M20 x 2	4	_	_	PS020Q7NEX	_	_	1.299	2.717	5.512
M20 x 2.5	4	_	_	PS020R7NEX	_	_	1.299	2.717	5.512
M22x 1	4	PS022M5NEX	_	_	_	_	.945	2.717	5.512
M22 x 1.5	4	_	PS022O6NEX	_	_	_	.945	2.717	5.512
M22 x 2	4	_	_	PS022Q7NEX	_	_	1.299	2.717	5.512
M22 x 2.5	4	_	_	PS022R7NEX	_	_	1.299	2.717	5.512
M24 x 1	4	PS024M5NEX	_	_	_	_	1.063	3.071	6.299
M24 x 1.5	4	_	PS024O6NEX	_	_	_	1.063	3.071	6.299
M24 x 2	4	_	_	PS024Q7NEX	_	_	1.063	3.071	6.299
M24 x 3	4	_	_	_	PS024S8NEX	_	1.457	3.071	6.299
M25 x 1.5	4	_	PS025O6NEX	_	_	_	1.063	3.071	6.299
M26 x 1.5	4	_	PS026O6NEX	_			1.063	3.465	7.087
M27 x 1	4	PS027M5NEX	_	_	_	_	1.063	3.465	7.087

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Z-PRO

The Z-PRO Series is designed for carbon steels, alloyed steels, irons, brass and free machining materials, including stainless steel that require the most economical tool life. They are ideal for the materials that produce stringy chips, such as steels, stainless steels and plastics.

Spiral Pointed taps are recommended for tapping through holes.

Economical High Performance Taps
For Metric threads

PO-OX



Z-PRO PO have an Oxide Surface Treatment Custom Blend High Vanadium HSS

Plug Style (3 to 5 threads chamfered)

DIN lengths with ANSI shank dimensions.

Z-PRO Series PO

Metric Sizes

Nominal	No. of			meter Limit / EDP	Numbers			Dimensions	
Size	Flutes	D5	D6	D7	D8	D9	Length of Thread	Neck Length (=Thread + Neck)	Length Overall
M2 7x 1.5	4	_	PS027O6NEX		_		1.063	3.465	7.087
M27 x 2	4	_	_	PS027Q7NEX	_	_	1.063	3.465	7.087
M27 x 3	4	_	_	_	PS027S8NEX	_	1.732	3.465	7.087
M28 x 1	4	PS028M5NEX	_	_	_	_	1.063	3.465	7.087
M28 x 1.5	4	_	PS028O6NEX	_	_	_	1.063	3.465	7.087
M28 x 2	4	_	_	PS028Q7NEX	_	_	1.063	3.465	7.087
M30 x 1	4	PS030M5NEX	_	_	_	_	1.063	3.465	7.087
M30 x 1.5	4	_	PS030O6NEX	_	_	_	1.063	3.465	7.087
M30 x 2	4	_	_	PS030Q7NEX	_	_	1.063	3.465	7.087
M30 x 3.5	4	_	_	_	_	PS030T9NEX	1.732	3.465	7.087
M32 x 1	4	PS032M5NEX	_	_	_	_	1.063	3.465	7.087
M32 x 1.5	4	_	PS032O6NEX	_	_	_	1.063	3.465	7.087
M32 x 2	4	_	_	PS032Q7NEX	_	_	1.063	3.465	7.087
M33 x 1	4	PS033M5NEX	_	_	_	_	1.142	3.465	7.087
M33 x 1.5	4	_	PS033O6NEX	_	_	_	1.142	3.465	7.087
M33 x 2	4	_	_	PS033Q7NEX	_	_	1.142	3.465	7.087
M33 x 3.5	4	_	_	_	_	PS033T9NEX	1.181	3.465	7.087
M36 x 1	4	PS036M5NEX	_	_	_	_	1.142	3.858	7.784
M36 x 1.5	4	_	PS036O6NEX	_	_	_	1.142	3.858	7.874
M36 x 2	4	_	_	PS036Q7NEX	_	_	1.142	3.858	7.874
M36 x 3	4	_	_	_	PS036S8NEX	_	2.047	3.858	7.874
M36 x 4	4	_	_	_	_	PS036U9NEX	2.047	3.858	7.874
M39 x 1	4	PS039M5NEX	_	_	_	_	1.142	3.858	7.874
M39 x 1.5	4	_	PS039O6NEX	_	_	_	1.142	3.858	7.874
M39 x 2	4	_	_	PS039Q7NEX	_	_	1.142	3.858	7.874
M39 x 3	4	_	_	_	PS039S8NEX	_	2.047	3.858	7.874

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Z-PRO



Economical High Performance Taps For Metric Threads



Z-PRO PO have an Oxide Surface Treatment Custom Blend High Vanadium HSS

The Z-PRO Series is designed for carbon steels, alloyed steels, irons, brass and free machining materials, including stainless steel that require the most economical tool life. They are ideal for the materials that produce stringy chips, such as steels, stainless steels and plastics.

Spiral Pointed taps are recommended for tapping trough holes.

Plug Style (3 to 5 threads chamfered) DIN lengths with ANSI shank dimensions.

Z-PRO Series PO

Metric Sizes

							23 110	O Scrice i O			
Nominal	No. of			Pitch Diamete	r Limit / E	DP Numbers			I	Dimensions	
Size	Flutes	D5	D6	D7	D8	D9	D10	D11	Length of Thread	Neck Length (=Thread + Neck)	Length Overall
M39 x 4	4	_	_	-	_	PS039U9NEX	_	_	2.047	3.858	7.874
M42 x 1	4	PS042M5NE	х —	_	_	_	_	_	1.142	3.858	7.874
M42 x 1.5	4	_	PS042O6NI	EX _	_	_	_	_	1.142	3.858	7.874
M42 x 2	4	_	_	PS042Q7NEX	к	_	_	_	1.142	3.858	7.874
M42 x 4.5	4	_	_	_	_	_ :	PS042VONI	ex —	2.323	3.858	7.874
M45 x 1	4	PS045M5NE	EX —	_	_	_	_	_	1.22	4.252	8.661
M45 x 1.5	4	_	PS045O6NI	EX —	_	_	_	_	1.22	4.252	8.661
M45 x 2	4	_	_	PS045Q7NE	x —	_	_	_	1.22	4.252	8.661
M45 x 3	4	_	_	_	PS045S8N	NEX —	_	_	2.323	4.252	8.661
M45 x 4.5	4	_	_	_	_	_	PS045VON	EX —	2.323	4.252	8.661
M48 x 1	4	_	PS048M6N	ex —	_	_	_	_	1.22	4.803	9.843
M48 x 1.5	4	_	_	PS048O7NE	x _	_	_	_	1.22	4.803	9.843
M48 x 2	4	_	_	PS048Q7NEX	х —	_	_		1.22	4.803	9.843
M48 x 3	4	_	_	_	_	PS048S9NEX	_	_	2.559	4.803	9.843
M48 x 5	4	_	_	_	_	_	_	PS048W-NEX	2.559	4.803	9.843

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Z-PRO

The Z-PRO Series is designed for carbon steels, alloyed steels, irons, brass and free machining materials, including stainless steel that require the most economical tool life. They are ideal for materials that produce stringy chips, such as steels, stainless steels and plastics.

Spiral Fluted Bottoming taps are recommended for tapping blind holes where the chips are pulled out of the hole towards the tap shank instead of pushing them to the bottom of the hole.

Economical High Performance Taps For Metric Threads



*Z-PRO SP have a Bright Surface Treatment

*AVAILABLE IN TIN AND TICN COATING ON REQUEST

Custom Blend High Vanadium HSS

Bottoming Style (2.5 threads chamfered) DIN lengths with ANSI shank dimensions.

Z-PRO Series SP	Metric Sizes

DIN lengtl	hs with <i>P</i>	ANSI shank dii	mensions.			Z-PRO Series SP			ric Sizes
Nominal	No. of		Pitch Dia	meter Limit / EDP	Numbers			Dimensions	
Size	Flutes	D3	D4	D5	D6	D7	Length of Neck	Neck Length (=Thread + Neck)	Length Overall
M2 x 0.4	3	SS2.0E3NEB	_	_	_	_	.314	.382	1.772
M2.2 x 0.45	3	SS2.2F3NEB	_	_	_	_	.314	.382	1.772
M2.5 x 0.45	3	SS2.5F3NEB	_	_	_	_	.354	.693	2.205
M2.6 x 0.45	3	SS2.6F3NEB	_	_	_	_	.354	.693	2.205
M3 x 0.5	3	SS3.0G3NEB	_	_	_	_	.433	.768	2.205
M3.5 x 0.6	3	_	SS3.5H4NEB	_	_	_	.433	.787	2.205
M4 x 0.7	4	_	SS4.0I4NEB	_	_	_	.512	.827	2.48
M5 x 0.8	4	_	SS5.0K4NEB	_	_	_	.591	.984	3.15
M6 x 1	4	_	_	SS6.0M5NEB	_	_	.591	1.181	3.15
M7 x 0.75	4	_	SS7.0J4NEB	_	_	_	.748	1.315	3.543
$M7 \times 0.5$	4	_	SS7.0G4NEB	_	_	_	.394	1.315	3.543
M7 x 1	4	_	_	SS7.0M5NEB	_	_	.748	1.315	3.543
M8 x 0.75	4	_	SS8.0J4NEB	_	_	_	.748	1.382	3.543
M8 x 0.5	4	_	SS8.0G4NEB	_	_	_	.394	1.382	3.543
M8 x 1	4	_	_	SS8.0M5NEB	_	_	.748	1.382	3.543
M8 x 1.25	4	_	_	SS8.0N5NEB	_	_	.748	1.382	3.543
M9 x 1	4	_	_	SS9.0M5NEB	_	_	.748	1.382	3.543
M9 x 1.25	4	_	_	SS9.0N5NEB	_	_	.748	1.382	3.543
M10 X 0.75	4	_	SS010J4NEB	_	_	_	.512	1.929	3.937
M10 x 1	4	_	_	SS010M5NEB	_	_	.906	1.929	3.937
M10 x 1.25	4	_	_	SS010N5NEB	_	_	.906	1.929	3.937
M10 x 1.5	4	_	_	_	SS010O6NEB	_	.906	1.929	3.937
M11 x 1.5	4	_	_	_	SS011O6NEB	_	.906	1.929	3.937
M12 x 1	4	_	_	SS012M5NEB	_	_	1.024	2.126	4.331
M12 x 1.25	4	_	_	_	SS012N6NEB	_	1.024	2.126	4.331
M12 x 1.5	4	_	_	_	SS012O6NEB	_	1.024	2.126	4.331
M12 x 1.75	4	_	_	_	SS012P6NEB	_	1.024	2.126	4.331

Z-PRC



Economical High Performance Taps For Metric Threads



*Z-PRO SP have a Bright Surface Treatment

Custom Blend High Vanadium HSS

*AVAILABLE IN TIN AND TICN COATING ON REQUEST

The Z-PRO Series is designed for carbon steels, alloyed steels, irons, brass and free machining materials, including stainless steel that require the most economical tool life. They are ideal for materials that produce stringy chips, such as steels, stainless steels, and plastics.

Spiral Fluted Bottoming taps are recommended for tapping blind holes where the chips are pulled out of the hole towards the tap shank instead of pushing them to the bottom of the hole.

Bottoming Style (2.5 threads chamfered)

DIN length	s with A	NSI shank Dir	nensions.		Z-	PRO Series SP		Metric	Sizes
Nominal	No. of		Pitch Dia	meter Limit / EDP	Numbers			Dimensions	
Size	Flutes	D5	D6	D7	D8	D9	Length of Thread	Neck Length (=Thread + Neck)	Length Overall
M14x1	4	SS014M5NEB	_	_	_	_	1.024	2.126	4.331
M14 x 1.25	4	_	SS014N6NEB	_	_	_	1.024	2.126	4.331
M14 x 1.5	4	_	SS014O6NEB	_	_	_	1.024	2.126	4.331
M14x2	4	_	_	SS014Q7NEB	_	_	1.024	2.126	4.331
M16 x 1	4	SS016M5NEB	_	_	_	_	1.024	2.126	4.331
M16 x 1.5	4	_	SS016O6NEB	_	_	_	1.024	2.126	4.331
M16 x 2	4	_	_	SS016Q7NEB	_	_	1.024	2.126	4.331
M18 x 1	4	SS018M5NEB	_	_	_	_	.945	2.402	4.921
M18 x 1.5	4	_	SS018O6NEB	_	_	_	.945	2.402	4.921
M18 x 2	4	_	_	SS018Q7NEB	_	_	1.299	2.402	4.921
M18 x 2.5	4	_	_	SS018R7NEB	_	_	1.299	2.402	4.921
M20 x 1	4	SS020M5NEB	_	_	_	_	.945	2.717	5.512
M20 x 1.5	4	_	SS020O6NEB	_	_	_	.945	2.717	5.512
M20 x 2	4	_	_	SS020Q7NEB	_	_	1.299	2.717	5.512
M20 x 2.5	4	_	_	SS020R7NEB	_	_	1.299	2.717	5.512
M22x 1	4	SS022M5NEB	_	_	_	_	.945	2.717	5.512
M22 x 1.5	4	_	SS022O6NEB	_	_	_	.945	2.717	5.512
M22 x 2	4	_	_	SS022Q7NEB	_	_	1.299	2.717	5.512
M22 x 2.5	4	_	_	SS022R7NEB	_	_	1.299	2.717	5.512
M24 x 1	4	SS024M5NEB	_	_	_	_	1.063	3.071	6.299
M24 x 1.5	4	_	SS024O6NEB	_	_	_	1.063	3.071	6.299
M24 x 2	4	_	_	SS024Q7NEB	_	_	1.063	3.071	6.299
M24x3	4	_	_	_	SS024S8NEB	_	1.457	3.071	6.299
M25 x 1.5	4	_	SS025O6NEB	_	_	_	1.063	3.071	6.299
M26 x 1.5	4	_	SS026O6NEB	_	_	_	1.063	3.465	7.087
M27 x 1	4	SS027M5NEB	_	_	_	_	1.063	3.465	7.087



The Z-PRO Series is designed for carbon steels, alloyed steels, irons, brass and free machining materials, including stainless steel that require the most economical tool life. They are ideal for materials that produce stringy chips, such as steels, stainless steels and plastics.

Spiral Fluted Bottoming taps are recommended for tapping blind holes where the chips are pulled out of the hole towards the tap shank instead of pushing them to the bottom of the hole.

Economical High Performance Taps For Metric Threads



*Z-PRO SP have a Bright Surface Treatment

*AVAILABLE IN TIN AND TICN COATING ON REQUEST

Custom Blend High Vanadium HSS

Bottoming Style (2.5 threads chamfered)

]	DIN lengths with ANSI shank Dimensions.	Z-PRO Series SP	Metric Sizes	
г	D. 1 D. V (DDD)		Dimensions	

Nominal	No. of		Pitch Dia	Dimensions					
Size	Flutes	D5	D6	D7	D8	D9	Length of Thread	Neck Length (=Thread + Neck)	Length Overall
M2 7x 1.5	4	_	SS027O6NEB	_	_	_	1.063	3.465	7.087
M27 x 2	4	_	_	SS027Q7NEB	_	_	1.063	3.465	7.087
M27 x 3	4	_	_	_	SS027S8NEB	_	1.732	3.465	7.087
M28 x 1	4	SS028M5NEB	_	_	_	_	1.063	3.465	7.087
M28 x 1.5	4	_	SS028O6NEB	_	_	_	1.063	3.465	7.087
M28 x 2	4	_	_	SS028Q7NEB	_	_	1.063	3.465	7.087
M30 x 1	4	SS030M5NEB	_	_	_	_	1.063	3.465	7.087
M30 x 1.5	4	_	SS030O6NEB	_	_	_	1.063	3.465	7.087
M30 x 2	4	_	_	SS030Q7NEB	_	_	1.063	3.465	7.087
M30 x 3.5	4	_	_	_	_	SS030T9NEB	1.732	3.465	7.087
M32 x 1	4	SS032M5NEB	_	_	_	_	1.063	3.465	7.087
M32 x 1.5	4	-	SS032O6NEB	_	_	_	1.063	3.465	7.087
M32 x 2	4	_	_	SS032Q7NEB	_	_	1.063	3.465	7.087
M33 x 1	4	SS033M5NEB	_	_	_	_	1.142	3.465	7.087
M33 x 1.5	4	_	SS033O6NEB	_	_	_	1.142	3.465	7.087
M33 x 2	4	_	_	SS033Q7NEB	_	_	1.142	3.465	7.087
M33 x 3.5	4	_	_	_	_	SS033T9NEB	1.181	3.465	7.087
M36 x 1	4	SS036M5NEB	_	_	_	_	1.142	3.858	7.784
M36 x 1.5	4	_	SS036O6NEB	_	_	_	1.142	3.858	7.874
M36 x 2	4	_	_	SS036Q7NEB	_	_	1.142	3.858	7.874
M36 x 3	4	_	_	_	SS036S8NEB	_	2.047	3.858	7.874
M36 x 4	4	_	_	_	_	SS036U9NEB	2.047	3.858	7.874
M39 x 1	4	SS039M5NEB	_	_	_	_	1.142	3.858	7.874
M39 x 1.5	4		SS039O6NEB	_	_	_	1.142	3.858	7.874
M39 x 2	4	_	_	SS039Q7NEB	_	_	1.142	3.858	7.874
M39 x 3	4	_	_	_	SS039S8NEB	_	2.047	3.858	7.874









Economical High Performance Taps

For Metric Threads

SP



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*AVAILABLE IN TIN AND TICN COATING ON REQUEST

Custom Blend High Vanadium HSS

The Z-PRO Series is designed for carbon steels, alloyed steels, irons, brass and free machining materials, including stainless steel that require the most economical tool life. They are ideal for materials that produce stringy chips, such as steels, stainless steels, and plastics.

Spiral Fluted Bottoming taps are recommended for tapping blind holes where the chips are pulled out of the hole towards the tap shank instead of pushing them to the bottom of the hole.

Bottoming Style (2.5 threads chamfered) DIN lengths with ANSI shank Dimensions.

Z-PRO Series SP

Metric Sizes

Nominal	No. of]	Pitch Diamete	r Limit / El	DP Numbers]	Dimensions	
Size	Flutes	D5	D6	D7	D8	D9	D10	D11	Length of Thread	Neck Length (=Thread + Neck)	Length Overall
M39 x 4	4	_	_	_	_	SS039U9NEB	_	_	2.047	3.858	7.874
M42 x 1	4	SS042M5NE	В —	_	_	_	_	_	1.142	3.858	7.874
M42 x 1.5	4	_	SS042O6NE	в —	_	_	_	_	1.142	3.858	7.874
M42 x 2	4	_	<u> </u>	SS042Q7NEB	-	_	_	_	1.142	3.858	7.874
M42 x 4.5	4	_	_		_	_ :	SS042VONE	ъ –	2.323	3.858	7.874
M45 x 1	4	SS045M5NE	в —	_	_	_	_	_	1.22	4.252	8.661
M45 x 1.5	4	_	SS045O6NE	в —	_	_	_	_	1.22	4.252	8.661
M45 x 2	4	_	_	SS045Q7NEE	3 —	_	_	_	1.22	4.252	8.661
M45 x 3	4	_	_	_	SS045S8N	ЕВ —	_	_	2.323	4.252	8.661
M45 x 4.5	4	_	_	_	_	_	SS045VONE	ев —	2.323	4.252	8.661
M48 x 1	4	_	SS048M6NE	в —	_	_	_	_	1.22	4.803	9.843
M48 x 1.5	4	_	_	SS048O7NEF	3 —	_	_	_	1.22	4.803	9.843
M48 x 2	4	_	_	SS048Q7NEB	_	_	_	_	1.22	4.803	9.843
M48 x 3	4	_	_	_	_	SS048S9NEB	_	_	2.559	4.803	9.843
M48 x 5	4	_	_	_	_	_	_ s	SS048W-NEB	2.559	4.803	9.843



The Z-PRO Series is designed for carbon steels, alloyed steels, irons, brass and free machining materials, including stainless steel that require the most economical tool life. They are ideal for materials that produce stringy chips, such as steels, stainless steels, plastics.

Spiral Fluted Bottoming taps are recommended for tapping blind holes where the chips are pulled out of the hole towards the tap shank instead of pushing them to the bottom of the hole.

Economical High Performance Taps For Metric Threads



Z-PRO SP have an Oxide Surface Treatment Custom Blend High Vanadium HSS

Bottoming Style (2.5 threads chamfered) DIN lengths with ANSI shank dimensions.

Z-PRO Series SP

Metric Sizes

Nominal	No. of		Pitch Dia	meter Limit / EDP	Numbers			Dimensions	
Size	Flutes	D3	D4	D5	D6	D7	Length of Neck	Neck Length (=Thread + Neck)	Length Overall
M2 x 0.4	3	SS2.0E3NEX	_	_	_	_	.314	.382	1.772
M2.2 x 0.45	3	SS2.2F3NEX	_	_	_	_	.314	.382	1.772
M2.5 x 0.45	3	SS2.5F3NEX	_	_	_	_	.354	.693	2.205
M2.6 x 0.45	3	SS2.6F3NEX	_	_	_	_	.354	.693	2.205
M3 x 0.5	3	SS3.0G3NEX	_	_	_	_	.433	.768	2.205
M3.5 x 0.6	3	_	SS3.5H4NEX	_	_	_	.433	.787	2.205
M4x0.7	4	_	SS4.0I4NEX	_	_	_	.512	.827	2.48
M5 x 0.8	4	_	SS5.0K4NEX	_	_	_	.591	.984	3.15
M6 x 1	4	_	_	SS6.0M5NEX	_	_	.591	1.181	3.15
M7 x 0.75	4	_	SS7.0J4NEX	_	_	_	.748	1.315	3.543
M7 x 0.5	4	_	SS7.0G4NEX	_	_	_	.394	1.315	3.543
M7 x 1	4	_	_	SS7.0M5NEX	_	_	.748	1.315	3.543
M8 x 0.75	4	_	SS8.0J4NEX	_	_	_	.748	1.382	3.543
M8 x 0.5	4	_	SS8.0G4NEX	_	_	_	.394	1.382	3.543
M8 x 1	4	_	_	SS8.0M5NEX	_	_	.748	1.382	3.543
M8 x 1.25	4	_	_	SS8.0N5NEX	_	_	.748	1.382	3.543
M9 x 1	4	_	_	SS9.0M5NEX	_	_	.748	1.382	3.543
M9 x 1.25	4	_	_	SS9.0N5NEX	_	_	.748	1.382	3.543
M10 X 0.75	4	_	SS010J4NEX	_	_	_	.512	1.929	3.937
M10 x 1	4	_	_	SS010M5NEX	_	_	.906	1.929	3.937
M10 x 1.25	4	_	_	SS010N5NEX	_	_	.906	1.929	3.937
M10 x 1.5	4	_	_	_	SS010O6NEX	_	.906	1.929	3.937
M11 x 1.5	4	_	_	_	SS011O6NEX	_	.906	1.929	3.937
M12 x 1	4	_	_	SS012M5NEX	_	_	1.024	2.126	4.331
M12 x 1.25	4	_	_	_	SS012N6NEX	_	1.024	2.126	4.331
M12 x 1.5	4	_			SS012O6NEX	_	1.024	2.126	4.331
M12 x 1.75	4	_	_	_	SS012P6NEX	_	1.024	2.126	4.331

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Z-PRO









Economical High Performance Taps

For Metric Threads



Z-PRO SP have an Oxide Surface Treatment Custom Blend High Vanadium HSS

The Z-PRO Series is designed for carbon steels, alloyed steels, irons, brass and free machining materials, including stainless steel that require the most economical tool life. They are ideal for materials that produce stringy chips, such as steels, stainless steels and plastics.

Spiral Fluted Bottoming taps are recommended for tapping blind holes where the chips are pulled out of the hole towards the tap shank instead of pushing them to the bottom of the hole.

Bottoming Style (2.5 threads chamfered) DIN lengths with ANSI shank dimensions

7-PRO Series SP

Metric Sizes

DIN lengths	with AN	ISI shank dimen	sions.		\mathbf{Z}	-PRO Series SP		Metri	ic Sizes
Nominal	No. of		Pitch Dia	meter Limit / EDP	Numbers			Dimensions	
Size	Flutes	D5	D6	D7	D8	D9	Length of Thread	Neck Length (=Thread + Neck)	Length Overall
M14x1	4	SS014M5NEX	_	_	_	_	1.024	2.126	4.331
M14 x 1.25	4	_	SS014N6NEX	_	_	_	1.024	2.126	4.331
M14 x 1.5	4	_	SS014O6NEX	_	_	_	1.024	2.126	4.331
M14x2	4	_	_	SS014Q7NEX	_	_	1.024	2.126	4.331
M16 x 1	4	SS016M5NEX	_	_	_	_	1.024	2.126	4.331
M16 x 1.5	4	_	SS016O6NEX	_	_	_	1.024	2.126	4.331
M16 x 2	4	_	_	SS016Q7NEX	_	_	1.024	2.126	4.331
M18 x 1	4	SS018M5NEX	_	_	_	_	.945	2.402	4.921
M18 x 1.5	4	_	SS018O6NEX	_	_	_	.945	2.402	4.921
M18 x 2	4	_	_	SS018Q7NEX	_	_	1.299	2.402	4.921
M18 x 2.5	4	_	_	SS018R7NEX	_	_	1.299	2.402	4.921
M20 x 1	4	SS020M5NEX	_	_	_	_	.945	2.717	5.512
M20 x 1.5	4	_	SS020O6NEX	_	_	_	.945	2.717	5.512
M20 x 2	4	_	_	SS020Q7NEX	_	_	1.299	2.717	5.512
M20 x 2.5	4	_	_	SS020R7NEX	_	_	1.299	2.717	5.512
M22x 1	4	SS022M5NEX	_	_	_	_	.945	2.717	5.512
M22 x 1.5	4	_	SS022O6NEX	_	_	_	.945	2.717	5.512
M22 x 2	4	_	_	SS022Q7NEX	_	_	1.299	2.717	5.512
M22 x 2.5	4	_	_	SS022R7NEX	_	_	1.299	2.717	5.512
M24 x 1	4	SS024M5NEX	_	_	_	_	1.063	3.071	6.299
M24 x 1.5	4	_	SS024O6NEX	_	_	_	1.063	3.071	6.299
M24 x 2	4	_	_	SS024Q7NEX	_	_	1.063	3.071	6.299
M24x3	4	_	_	_	SS024S8NEX	_	1.457	3.071	6.299
M25 x 1.5	4	_	SS025O6NEX	_	_	_	1.063	3.071	6.299
M26 x 1.5	4	_	SS026O6NEX	_	_	_	1.063	3.465	7.087
M27 x 1	4	SS027M5NEX	_	_	_	_	1.063	3.465	7.087



The Z-PRO Series is designed for carbon steels, alloyed steels, irons, brass and free machining materials, including stainless steel that require the most economical tool life. They are ideal for materials that produce stringy chips, such as steels, stainless steels and plastics.

Spiral Fluted Bottoming taps are recommended for tapping blind holes where the chips are pulled out of the hole towards the tap shank instead of pushing them to the bottom of the hole.

Economical High Performance Taps

For Metric Threads

SP-OX



Z-PRO SP have an Oxide Surface Treatment
Custom Blend High Vanadium HSS

Bottoming Style (2.5 threads chamfered)

DIN lengths with ANSI shank dimensions.

7 L	\mathbf{p}	Series	CD
Z-I	NO	Series	31

Metric Sizes

Size Flutes D5 D6	SS028Q7NEX — SS028Q7NEX — SS028Q7NEX — SS028Q7NEX — SS030Q7NEX	Numbers D8	D9	Length of Thread 1.063 1.063 1.732 1.063 1.063 1.063	Dimensions Neck Length (=Thread + Neck) 3.465 3.465 3.465 3.465 3.465 3.465	7.087 7.087 7.087 7.087 7.087 7.087
Size Flutes D5 D6 M2 7x 1.5 4 — SS027O6NEX M27x 2 4 — — M27x 3 4 — — M28x 1 4 SS028M5NEX — M28x 1.5 4 — SS028O6NEX M28x 2 4 — —	SS027Q7NEX — — — — — SS028Q7NEX — —	_ _	D9	1.063 1.063 1.732 1.063 1.063 1.063 1.063	(=Thread + Neck) 3.465 3.465 3.465 3.465 3.465 3.465	Overall 7.087 7.087 7.087 7.087 7.087 7.087
M2 7x 1.5	SS027Q7NEX — — — — SS028Q7NEX — —	SS027S8NEX — — — — — — — — — —	- - - - - - -	1.063 1.063 1.732 1.063 1.063 1.063	3.465 3.465 3.465 3.465 3.465 3.465	7.087 7.087 7.087 7.087 7.087 7.087
M27 x 2	SS027Q7NEX — — — — SS028Q7NEX — —	SS02758NEX	- - - - - -	1.063 1.732 1.063 1.063 1.063 1.063	3.465 3.465 3.465 3.465 3.465	7.087 7.087 7.087 7.087 7.087
M27x3 4 — — M28x1 4 SS028M5NEX — M28x1.5 4 — SS028O6NEX M28x2 4 — —	SS028Q7NEX	SS027S8NEX	- - - - -	1.732 1.063 1.063 1.063	3.465 3.465 3.465 3.465	7.087 7.087 7.087 7.087
M28 x 1	 SS028Q7NEX 	SS027S8NEX		1.063 1.063 1.063	3.465 3.465 3.465	7.087 7.087 7.087
M28 x 1.5 4 — SS028O6NEX M28 x 2 4 — —		_ _ _ _ _	_ 	1.063 1.063 1.063	3.465 3.465	7.087 7.087
M28x2 4 — —		_ 	_ _ _ _	1.063	3.465	7.087
		<u>–</u> – –		1.063		
M30 x 1 4 SS030M5NEX —	SS030Q7NEX		_ _		2.465	
	SS030Q7NEX	_	_	ı	3.465	7.087
M30 x 1.5 4 — SS030O6NEX	SS030Q7NEX			1.063	3.465	7.087
M30 x 2 4 — —		_	_	1.063	3.465	7.087
M30 x 3.5 4 — —	_	_	SS030T9NEX	1.732	3.465	7.087
M32 x 1 4 SS032M5NEX —	_	_	_	1.063	3.465	7.087
M32 x 1.5 4 — SS032O6NEX	_	_	_	1.063	3.465	7.087
M32x2 4 — —	SS032Q7NEX	_	_	1.063	3.465	7.087
M33 x 1 4 SS033M5NEX —	_	_	_	1.142	3.465	7.087
M33 x 1.5 4 — SS033O6NEX	_	_	_	1.142	3.465	7.087
M33 x 2 4 — — —	SS033Q7NEX	_	_	1.142	3.465	7.087
M33 x 3.5 4	_	_	SS033T9NEX	1.181	3.465	7.087
M36 x 1 4 SS036M5NEX —	_	_	_	1.142	3.858	7.784
M36 x 1.5 4 — SS036O6NEX	_	_	_	1.142	3.858	7.874
M36 x 2 4 — — —	SS036Q7NEX	_	_	1.142	3.858	7.874
M36x3 4 — —	_	SS036S8NEX	_	2.047	3.858	7.874
M36 x 4 4 — — —	_	_	SS036U9NEX	2.047	3.858	7.874
M39 x 1 4 SS039M5NEX —	_	_	_	1.142	3.858	7.874
M39 x 1.5 4 — SS039O6NEX	_	_	_	1.142	3.858	7.874
M39 x 2 4	SS039Q7NEX	_	_	1.142	3.858	7.874
M39x3 4 — — —	_	SS039S8NEX	_	2.047	3.858	7.874

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Z-PRO









Economical High Performance Taps

For Metric Threads

SP-OX



Z-PRO SP have an Oxide Surface Treatment

Custom Blend High Vanadium HSS

The Z-PRO Series is designed for carbon steels, alloyed steels, irons, brass and free machining materials, including stainless steel that require the most economical tool life. They are ideal for materials that produce stringy chips, such as steels, stainless steels and plastics.

Spiral Fluted Bottoming taps are recommended for tapping blind holes where the chips are pulled out of the hole towards the tap shank instead of pushing them to the bottom of the hole.

Bottoming Style (2.5 threads chamfered) DIN lengths with ANSI shank dimensions.

Z-PRO Series SP

Metric Sizes

U											
Nominal	No. of			Pitch Diamete	er Limit / E	DP Numbers]	Dimensions	
Size	Flutes	D5	D6	D7	D8	D9	D10	D11	Length of Thread	Neck Length (=Thread + Neck)	Length Overall
M39 x 4	4	_	_	_	_	SS039U9NEX	_	_	2.047	3.858	7.874
M42 x 1	4	SS042M5NE	X _	_	_	_	_	_	1.142	3.858	7.874
M42 x 1.5	4	_	SS042O6NE	х —	_	_	_	_	1.142	3.858	7.874
M42 x 2	4	_	_ :	SS042Q7NEX	<u> </u>	_	_	_	1.142	3.858	7.874
M42 x 4.5	4	_	_	_	_	_ :	SS042VONE	EX -	2.323	3.858	7.874
M45 x 1	4	SS045M5NE	x —	_	_	_	_	_	1.22	4.252	8.661
M45 x 1.5	4	_	SS045O6NE	x —	_	_	_	_	1.22	4.252	8.661
M45 x 2	4	_	_	SS045Q7NEX	x —	_	_	_	1.22	4.252	8.661
M45 x 3	4	_	_	_	SS045S8N	ex —	_	_	2.323	4.252	8.661
M45 x 4.5	4	_	_	_	_		SS045VONE	EX —	2.323	4.252	8.661
M48 x 1	4	_	SS048M6NE	x —	_	_	_	_	1.22	4.803	9.843
M48 x 1.5	4	_	_	SS048O7NEX	х —	_	_	_	1.22	4.803	9.843
M48 x 2	4	_	_	SS048Q7NEX	<u> </u>	_	_	_	1.22	4.803	9.843
M48 x 3	4	_	_	_	_	SS048S9NEX	_	_	2.559	4.803	9.843
M48 x 5	4	_	_	_	_	_	— 9	SS048W-NEX	2.559	4.803	9.843



For Tapping Steels, Irons, Brass and Plastics

Z-PRO HT are manufactured from YMW's own high speed steel for maximum toughness and wear life.

Z-PRO HT are the most popular style of general purpose taps for tapping under power or by hand.

Economical High Performance Hand Taps For Metric Threads Z-PRO HT



*Z-PRO HT have a Bright Surface Treatment

*AVAILABLE IN TIN AND TICN COATING ON REQUEST

Custom Blend High Vanadium HSS

Plug Style (5 threads chamfered)

DIN lengths with ANSI shank dimensions.

7	PR	0	Series	TH

TB /T		C •
- IVI	etric	Size

Nominal	No. of	INST SHAHK UIII		neter Limit / EDP		RO Sches III		Dimensions	ic Sizes
Size	Flutes	D3	D4	D5	D6	D7	Length of Neck	Neck Length (=Thread + Neck)	Length Overall
M2 x 0.4	3	TS2.0E3NEB5	_	_	_	_	.314	.382	1.772
M2.2 x 0.45	3	TS2.2F3NEB5	_	_	_	_	.314	.382	1.772
M2.5 x 0.45	3	TS2.5F3NEB5	_	_	_	_	.354	.693	2.205
M2.6 x 0.45	3	TS2.6F3NEB5	_	_	_	_	.354	.693	2.205
M3 x 0.5	3	TS3.0G3NEB5	_	_	_	_	.433	.768	2.205
M3.5 x 0.6	3	_	TS3.5H4NEB5	_	_	_	.433	.787	2.205
M4 x 0.7	4	_	TS4.0I4NEB5	_	_	_	.512	.827	2.48
M5 x 0.8	4	_	TS.0K4NEB5	_	_	_	.591	.984	3.15
M6 x 1	4	_	_	TS6.0M5NEB5	_	_	.591	1.181	3.15
M7 x 0.75	4	_	TS7.0J4NEB5	_	_	_	.748	1.315	3.543
M7 x 0.5	4	_	TS7.0G4NEB5	_	_	_	.394	1.315	3.543
M7 x 1	4	_	_	TS7.0M5NEB5	_	_	.748	1.315	3.543
M8 x 0.75	4	_	TS8.0J4NEB5	_	_	_	.748	1.382	3.543
M8 x 0.5	4	_	TS8.0G4NEB5	_	_	_	.394	1.382	3.543
M8 x 1	4	_	_	TS8.0M5NEB5	_	_	.748	1.382	3.543
M8 x 1.25	4	_	_	TS8.0N5NEB5	_	_	.748	1.382	3.543
M9 x 1	4	_	_	TS9.0M5NEB5	_	_	.748	1.382	3.543
M9 x 1.25	4	_	_	TS9.0N5NEB5	_	_	.748	1.382	3.543
M10 X 0.75	4	_	TS010J4NEB5	_	_	_	.512	1.929	3.937
M10 x 1	4	_	_	TS010M5NEB5	_	_	.906	1.929	3.937
M10 x 1.25	4	_	_	TS010N5NEB5	_	_	.906	1.929	3.937
M10 x 1.5	4	_	_	_	TS010O6NEB5	_	.906	1.929	3.937
M11 x 1.5	4		_	_	TS011O6NEB5	_	.906	1.929	3.937
M12 x 1	4	_	_	TS012M5NEB5	_	_	1.024	2.126	4.331
M12 x 1.25	4	_	_	_	TS012N6NEB5	_	1.024	2.126	4.331
M12 x 1.5	4	_			TS012O6NEB5		1.024	2.126	4.331
M12 x 1.75	4		_	_	TS012P6NEB5	_	1.024	2.126	4.331

Z-PRO



Economical High Performance Hand Taps

For Metric Threads Z-PRO HT



*Z-PRO HT have a Bright Surface Treatment

For Tapping Steels, Irons, Brass and Plastics

Z-PRO HT are manufactured from YMW's own high speed steel for maximum toughness and wear life.

Z-PRO HT are the most popular style of general purpose taps for tapping under power or by hand.

*AVAILABLE IN TIN AND TICN COATING ON REQUEST

Custom Blend High Vanadium HSS

Plug Style (5 threads chamfered)

DIN lengths with ANSI shank dimensions.

Z-PRO Series HT	Metric Sizes
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Dirvicingth	.5 *********	1 101 shank dhii	C 1131 0 113.			1 RO Selles II			ic bizes
Nominal	No. of		Pitch Dian	neter Limit / EDP	Numbers			Dimensions	
Size	Flutes	D5	D6	D7	D8	D9	Length of Thread	Neck Length (=Thread + Neck)	Length Overall
M14x1	4	TS014M5NEB5	_	_	_	_	1.024	2.126	4.331
M14 x 1.25	4	_	TS014N6NEB5	_	_	_	1.024	2.126	4.331
M14 x 1.5	4	_	TS014O6NEB5	_	_	_	1.024	2.126	4.331
M14x2	4	_	_	TS014Q7NEB5	_	_	1.024	2.126	4.331
M16 x 1	4	TS016M5NEB5	_	_	_	_	1.024	2.126	4.331
M16 x 1.5	4	_	TS016O6NEB5	_	_	_	1.024	2.126	4.331
M16 x 2	4	_	_	TS016Q7NEB5	_	_	1.024	2.126	4.331
M18 x 1	4	TS018M5NEB5	_	_	_	_	.945	2.402	4.921
M18 x 1.5	4	_	TS018O6NEB5	_	_	_	.945	2.402	4.921
M18x2	4	_	_	TS018Q7NEB5	_	_	1.299	2.402	4.921
M18 x 2.5	4	_	_	TS018R7NEB5	_	_	1.299	2.402	4.921
M20 x 1	4	TS020M5NEB5	_	_	_	_	.945	2.717	5.512
M20 x 1.5	4	_	TS020O6NEB5	_	_	_	.945	2.717	5.512
M20 x 2	4	_	_	TS020Q7NEB5	_	_	1.299	2.717	5.512
M20 x 2.5	4	_	_	TS020R7NEB5	_	_	1.299	2.717	5.512
M22x 1	4	TS022M5NEB5	_	_	_	_	.945	2.717	5.512
M22 x 1.5	4	_	TS022O6NEB5	_	_	_	.945	2.717	5.512
M22 x 2	4	_	_	TS022Q7NEB5	_	_	1.299	2.717	5.512
M22 x 2.5	4	_	_	TS022R7NEB5	_	_	1.299	2.717	5.512
M24 x 1	4	TS024M5NEB5	_	_	_	_	1.063	3.071	6.299
M24 x 1.5	4	_	TS024O6NEB5	_	_	_	1.063	3.071	6.299
M24 x 2	4	_	_	TS024Q7NEB5	_	_	1.063	3.071	6.299
M24 x 3	4	_	_	_	TS024S8NEB5	_	1.457	3.071	6.299
M25 x 1.5	4	_	TS025O6NEB5	_	_	_	1.063	3.071	6.299
M26 x 1.5	4	_	TS026O6NEB5	_	_	_	1.063	3.465	7.087
M27 x 1	4	TS027M5NEB5	_	_	_	_	1.063	3.465	7.087



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Custom Blend High Vanadium HSS

Plug Style (5 threads chamfered)

DIN lengths with ANSI shank dimensions.

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No. of Flutes D5	DIN lengti	is with A	INSI shank dim	ensions.		<i>L</i> -	rko senes n i			ic Sizes
Number N	Nominal	No. of		Pitch Diar	Dimensions					
M2 7x 1.5	Size		D5	D6	D7	D8	D 9			Length
M27x2 4 — — TS027Q7NEB5 — 1.063 3.465 7.08 M27x3 4 — — — TS027S8NEB5 — 1.732 3.465 7.08 M28x1 4 — TS028O6NEB5 — — 1.063 3.465 7.08 M28x1.5 4 — TS028O6NEB5 — — 1.063 3.465 7.08 M28x2 4 — — TS028Q7NEB5 — — 1.063 3.465 7.08 M30x1.5 4 — TS030O6NEB5 — — 1.063 3.465 7.08 M30x2.5 4 — — TS030Q7NEB5 — — 1.063 3.465 7.08 M32x1 4 TS032M5NEB5 — — — TS030Q7NEB5 — — 1.063 3.465 7.08 M32x1.5 4 — — TS032Q7NEB5 — — 1.063 3	Size	Flutes						of I hread		
M27x3 4 — — TS027S8NEB5 — 1.732 3.465 7.08 M28x1 4 TS028M5NEB5 — — — 1.063 3.465 7.08 M28x1.5 4 — TS028O6NEB5 — — 1.063 3.465 7.08 M30x1 4 TS030M5NEB5 — — — 1.063 3.465 7.08 M30x1.5 4 — TS030O6NEB5 — — — 1.063 3.465 7.08 M30x2.2 4 — — TS030Q7NEB5 — — 1.063 3.465 7.08 M32x1 4 TS032M5NEB5 — — — TS030T9NEB5 1.732 3.465 7.08 M32x1.5 4 — TS032O6NEB5 — — 1.063 3.465 7.08 M33x1.5 4 — TS033O6NEB5 — — 1.1063 3.465 7.08 M33x1.5 <td>M2 7x 1.5</td> <td>4</td> <td>_</td> <td>TS027O6NEB5</td> <td>_</td> <td>_</td> <td>_</td> <td>1.063</td> <td></td> <td>7.087</td>	M2 7x 1.5	4	_	TS027O6NEB5	_	_	_	1.063		7.087
M28x1 4 TS028M5NEB5 — — — 1.063 3.465 7.08 M28x1.5 4 — TS028O6NEB5 — — — 1.063 3.465 7.08 M28x2 4 — — TS028Q7NEB5 — — 1.063 3.465 7.08 M30x1 4 TS030M5NEB5 — — — 1.063 3.465 7.08 M30x2 4 — TS030O6NEB5 — — 1.063 3.465 7.08 M30x3,5 4 — — — — TS032M5NEB5 — — 1.063 3.465 7.08 M32x15 4 — TS032O6NEB5 — — — 1.063 3.465 7.08 M33x15 4 — TS032O6NEB5 — — — 1.063 3.465 7.08 M33x15 4 — TS033O6NEB5 — — — 1.142	M27 x 2	4	_	_	TS027Q7NEB5	_	_	1.063		7.087
M28 x 1.5 4 — TS028O6NEB5 — — 1.063 3.465 7.08 M28 x 2 4 — — TS028Q7NEB5 — — 1.063 3.465 7.08 M30 x 1 4 TS030M5NEB5 — — — — 1.063 3.465 7.08 M30 x 1.5 4 — — TS030Q7NEB5 — — 1.063 3.465 7.08 M30 x 3.5 4 — — — — TS030Q7NEB5 — — 1.063 3.465 7.08 M32 x 1.5 4 — — TS032Q6NEB5 — — — 1.063 3.465 7.08 M32 x 2 4 — — TS032Q7NEB5 — — — 1.063 3.465 7.08 M33 x 1.5 4 — TS033Q6NEB5 — — — 1.142 3.465 7.08 M33 x 2 4 — — <td>M27 x 3</td> <td>4</td> <td></td> <td>_</td> <td>_</td> <td>TS027S8NEB5</td> <td>_</td> <td>1.732</td> <td>3.465</td> <td>7.087</td>	M27 x 3	4		_	_	TS027S8NEB5	_	1.732	3.465	7.087
M28x2 4 — TS028Q7NEB5 — 1.063 3.465 7.08 M30x1 4 TS030M5NEB5 — — — 1.063 3.465 7.08 M30x1.5 4 — TS030Q6NEB5 — — 1.063 3.465 7.08 M30x2 4 — — — — 1.063 3.465 7.08 M32x1 4 — — — — 1.063 3.465 7.08 M32x1.5 4 — — — — 1.063 3.465 7.08 M32x2 4 — TS032O6NEB5 — — 1.063 3.465 7.08 M33x1 4 TS033M5NEB5 — — — 1.142 3.465 7.08 M33x2.5 4 — TS033O6NEB5 — — — 1.142 3.465 7.08 M33x2.5 4 — — TS033Q7NEB5 —	M28 x 1	4	TS028M5NEB5	_	_	_	_	1.063	3.465	7.087
M30x1 4 TS030M5NEB5 — — — — 1.063 3.465 7.08 M30x1.5 4 — TS030Q6NEB5 — — 1.063 3.465 7.08 M30x2 4 — — — — TS030Q7NEB5 — — 1.063 3.465 7.08 M32x1 4 — — — — — 1.063 3.465 7.08 M32x1.5 4 — — — — — 1.063 3.465 7.08 M32x2 4 — TS032Q6NEB5 — — — 1.063 3.465 7.08 M33x1 4 TS033M5NEB5 — — — 1.163 3.465 7.08 M33x2 4 — TS033Q6NEB5 — — — 1.142 3.465 7.08 M36x1 4 — — — — — — —	M28 x 1.5	4	_	TS028O6NEB5	_	_	_	1.063	3.465	7.087
M30x1.5 4 — TS030O6NEB5 — — 1.063 3.465 7.08 M30x2.2 4 — — TS030Q7NEB5 — — 1.063 3.465 7.08 M30x3.5 4 — — — — TS030T9NEB5 1.732 3.465 7.08 M32x1.5 4 — — — — — 1.063 3.465 7.08 M32x2.1.5 4 — — — — 1.063 3.465 7.08 M33x1 4 TS033M5NEB5 — — — 1.142 3.465 7.08 M33x1.5 4 — TS033O6NEB5 — — — 1.142 3.465 7.08 M33x2 4 — — TS033Q7NEB5 — — 1.142 3.465 7.08 M36x1 4 TS036M5NEB5 — — — TS033T9NEB5 1.181 3.465 7.08	M28 x 2	4	-	_	TS028Q7NEB5	_	_	1.063	3.465	7.087
M30 x 2 4 — TS030Q7NEB5 — 1.063 3.465 7.08 M30 x 3.5 4 — — — TS030T9NEB5 1.732 3.465 7.08 M32 x 1 4 TS032M5NEB5 — — 1.063 3.465 7.08 M32 x 1.5 4 — TS032O6NEB5 — — 1.063 3.465 7.08 M33 x 1 4 TS033M5NEB5 — — — 1.142 3.465 7.08 M33 x 1.5 4 — TS033O6NEB5 — — 1.142 3.465 7.08 M33 x 2 4 — — TS033Q7NEB5 — — 1.142 3.465 7.08 M36 x 1 4 TS036M5NEB5 — — — 1.142 3.465 7.08 M36 x 1 4 TS036ONEB5 — — — 1.142 3.858 7.87 M36 x 2 4 — — TS	M30 x 1	4	TS030M5NEB5	_	_	_	_	1.063	3.465	7.087
M30 x 3.5 4 — — — TS030T9NEB5 1.732 3.465 7.08 M32 x 1 4 TS032M5NEB5 — — — 1.063 3.465 7.08 M32 x 1.5 4 — TS032O6NEB5 — — 1.063 3.465 7.08 M33 x 1 4 TS033M5NEB5 — — — 1.142 3.465 7.08 M33 x 1.5 4 — TS033O6NEB5 — — — 1.142 3.465 7.08 M33 x 2.5 4 — — TS033Q7NEB5 — — 1.142 3.465 7.08 M33 x 3.5 4 — — — TS033Q7NEB5 — — 1.142 3.465 7.08 M36 x 1 4 TS036M5NEB5 — — — 1.142 3.858 7.87 M36 x 2 4 — — TS036Q7NEB5 — — 1.142 3.858 7.87 </td <td>M30 x 1.5</td> <td>4</td> <td>_</td> <td>TS030O6NEB5</td> <td></td> <td>_</td> <td>_</td> <td>1.063</td> <td>3.465</td> <td>7.087</td>	M30 x 1.5	4	_	TS030O6NEB5		_	_	1.063	3.465	7.087
M32 x1 4 TS032M5NEB5 — — — 1.063 3.465 7.08 M32 x1.5 4 — TS032O6NEB5 — — 1.063 3.465 7.08 M33 x1 4 TS033M5NEB5 — — — 1.142 3.465 7.08 M33 x1.5 4 — TS033O6NEB5 — — — 1.142 3.465 7.08 M33 x2.5 4 — — TS033Q7NEB5 — — 1.142 3.465 7.08 M36 x1.5 4 — — — TS033Q7NEB5 — — 1.142 3.465 7.08 M36 x1.5 4 — — — — TS033Q7NEB5 — — 1.142 3.858 7.87 M36 x1.5 4 — — TS036ONEB5 — — — 1.142 3.858 7.87 M36 x2 4 — — — TS036ONEB5 <td>M30 x 2</td> <td>4</td> <td>_</td> <td>_</td> <td>TS030Q7NEB5</td> <td>_</td> <td>_</td> <td>1.063</td> <td>3.465</td> <td>7.087</td>	M30 x 2	4	_	_	TS030Q7NEB5	_	_	1.063	3.465	7.087
M32 x 1.5 4 — TS032O6NEB5 — — 1.063 3.465 7.08 M32 x 2 4 — — TS032Q7NEB5 — — 1.063 3.465 7.08 M33 x 1 4 TS033M5NEB5 — — — 1.142 3.465 7.08 M33 x 1.5 4 — TS033O6NEB5 — — — 1.142 3.465 7.08 M33 x 2.5 4 — — TS033Q7NEB5 — — 1.142 3.465 7.08 M36 x 1 4 TS036M5NEB5 — — — TS033T9NEB5 1.181 3.465 7.08 M36 x 1.5 4 — — — — 1.142 3.858 7.87 M36 x 2 4 — — TS036Q7NEB5 — — 1.142 3.858 7.87 M36 x 3 4 — — — TS036Q7NEB5 — — 2.047	M30 x 3.5	4	_	_	_	_	TS030T9NEB5	1.732	3.465	7.087
M32 x 2 4 — — TS032Q7NEB5 — — 1.063 3.465 7.08 M33 x 1 4 TS033M5NEB5 — — — 1.142 3.465 7.08 M33 x 1.5 4 — TS033O6NEB5 — — — 1.142 3.465 7.08 M33 x 3.5 4 — — — — TS033Q7NEB5 — — 1.142 3.465 7.08 M36 x 1 4 TS036M5NEB5 — — — 1.142 3.858 7.78 M36 x 1.5 4 — TS036O6NEB5 — — — 1.142 3.858 7.87 M36 x 2 4 — — TS036Q7NEB5 — — 1.142 3.858 7.87 M36 x 3 4 — — — TS036Q7NEB5 — — 1.142 3.858 7.87 M39 x 1 4 TS039M5NEB5 — — <td< td=""><td>M32 x 1</td><td>4</td><td>TS032M5NEB5</td><td>_</td><td>_</td><td>_</td><td>_</td><td>1.063</td><td>3.465</td><td>7.087</td></td<>	M32 x 1	4	TS032M5NEB5	_	_	_	_	1.063	3.465	7.087
M33 x 1 4 TS033M5NEB5 — — — — 1.142 3.465 7.08 M33 x 1.5 4 — TS033O6NEB5 — — 1.142 3.465 7.08 M33 x 2 4 — — TS033Q7NEB5 — — 1.142 3.465 7.08 M33 x 3.5 4 — — — TS033T9NEB5 1.181 3.465 7.08 M36 x 1 4 TS036M5NEB5 — — TS033T9NEB5 1.181 3.465 7.08 M36 x 1.5 4 — TS036O6NEB5 — — 1.142 3.858 7.87 M36 x 2 4 — — TS036Q7NEB5 — — 1.142 3.858 7.87 M36 x 3 4 — — — TS036S8NEB5 — 2.047 3.858 7.87 M39 x 1 4 TS039M5NEB5 — — — 1.142 3.858 7.87 M39 x 1.5 4 — — — — — 1.142	M32 x 1.5	4	-	TS032O6NEB5	_	_	_	1.063	3.465	7.087
M33 x 1.5 4 — TS033O6NEB5 — — 1.142 3.465 7.08 M33 x 2 4 — — TS033Q7NEB5 — — 1.142 3.465 7.08 M33 x 3.5 4 — — — — TS033T9NEB5 1.181 3.465 7.08 M36 x 1 4 TS036M5NEB5 — — — 1.142 3.858 7.78 M36 x 1.5 4 — TS036O6NEB5 — — — 1.142 3.858 7.87 M36 x 2 4 — — TS036Q7NEB5 — — 1.142 3.858 7.87 M36 x 3 4 — — — TS036S8NEB5 — 2.047 3.858 7.87 M39 x 1 4 TS039M5NEB5 — — — 1.142 3.858 7.87 M39 x 1 4 — — — — 1.142 3.858 7.87 M39 x 1 4 — — — — — 1.142 <	M32 x 2	4	_	_	TS032Q7NEB5	_	_	1.063	3.465	7.087
M33 x 2 4 — — TS033Q7NEB5 — — 1.142 3.465 7.08 M33 x 3.5 4 — — — — TS033T9NEB5 1.181 3.465 7.08 M36 x 1 4 TS036M5NEB5 — — — 1.142 3.858 7.78 M36 x 1.5 4 — TS036O6NEB5 — — — 1.142 3.858 7.87 M36 x 2 4 — — — TS036Q7NEB5 — — 1.142 3.858 7.87 M36 x 3 4 — — — TS036S8NEB5 — 2.047 3.858 7.87 M39 x 1 4 TS039M5NEB5 — — — 1.142 3.858 7.87 M39 x 1.5 4 — TS039O6NEB5 — — — 1.142 3.858 7.87 M39 x 2 4 — — TS039Q7NEB5 — — 1.142 3.858 7.87	M33 x 1	4	TS033M5NEB5	_	_	_	_	1.142	3.465	7.087
M33 x 3.5 4 — — — TS033T9NEB5 1.181 3.465 7.08 M36 x 1 4 TS036M5NEB5 — — — 1.142 3.858 7.78 M36 x 1.5 4 — TS036O6NEB5 — — 1.142 3.858 7.87 M36 x 2 4 — — TS036Q7NEB5 — — 1.142 3.858 7.87 M36 x 3 4 — — — TS036S8NEB5 — 2.047 3.858 7.87 M39 x 1 4 TS039M5NEB5 — — — 1.142 3.858 7.87 M39 x 1.5 4 — TS039O6NEB5 — — — 1.142 3.858 7.87 M39 x 2 4 — — TS039Q7NEB5 — — 1.142 3.858 7.87	M33 x 1.5	4	_	TS033O6NEB5	_	_	_	1.142	3.465	7.087
M36x1 4 TS036M5NEB5 — — — 1.142 3.858 7.78 M36x1.5 4 — TS036O6NEB5 — — — 1.142 3.858 7.87 M36x2 4 — — TS036Q7NEB5 — — 1.142 3.858 7.87 M36x3 4 — — — TS036S8NEB5 — 2.047 3.858 7.87 M36x4 4 — — — — TS036U9NEB5 2.047 3.858 7.87 M39x1 4 TS039M5NEB5 — — — 1.142 3.858 7.87 M39x2 4 — — TS039Q7NEB5 — — 1.142 3.858 7.87	M33 x 2	4	_	_	TS033Q7NEB5	_	_	1.142	3.465	7.087
M36x1.5 4 — TS036O6NEB5 — — — 1.142 3.858 7.87 M36x2 4 — — TS036Q7NEB5 — — 1.142 3.858 7.87 M36x3 4 — — — TS036S8NEB5 — 2.047 3.858 7.87 M36x4 4 — — — — TS036U9NEB5 2.047 3.858 7.87 M39x1 4 TS039M5NEB5 — — — 1.142 3.858 7.87 M39x2 4 — — TS039Q7NEB5 — — 1.142 3.858 7.87	M33 x 3.5	4	_	_	_	_	TS033T9NEB5	1.181	3.465	7.087
M36x2 4 — — TS036Q7NEB5 — — 1.142 3.858 7.87 M36x3 4 — — — TS036S8NEB5 — 2.047 3.858 7.87 M36x4 4 — — — — TS036U9NEB5 2.047 3.858 7.87 M39x1 4 TS039M5NEB5 — — — 1.142 3.858 7.87 M39x1.5 4 — TS039Q6NEB5 — — 1.142 3.858 7.87 M39x2 4 — — TS039Q7NEB5 — — 1.142 3.858 7.87	M36 x 1	4	TS036M5NEB5	_	_	_	_	1.142	3.858	7.784
M36 x 3 4 — — — TS036S8NEB5 — 2.047 3.858 7.87 M36 x 4 4 — — — — TS036U9NEB5 2.047 3.858 7.87 M39 x 1 4 TS039M5NEB5 — — — — 1.142 3.858 7.87 M39 x 1.5 4 — TS039O6NEB5 — — — 1.142 3.858 7.87 M39 x 2 4 — — TS039Q7NEB5 — — 1.142 3.858 7.87	M36 x 1.5	4	_	TS036O6NEB5	_	_	_	1.142	3.858	7.874
M36 x 4 4 — — — TS036U9NEB5 2.047 3.858 7.87 M39 x 1 4 TS039M5NEB5 — — — 1.142 3.858 7.87 M39 x 1.5 4 — TS039O6NEB5 — — — 1.142 3.858 7.87 M39 x 2 4 — — TS039Q7NEB5 — — 1.142 3.858 7.87	M36 x 2	4	_	_	TS036Q7NEB5	_	_	1.142	3.858	7.874
M39 x 1 4 TS039M5NEB5 — — — 1.142 3.858 7.87 M39 x 1.5 4 — TS039O6NEB5 — — 1.142 3.858 7.87 M39 x 2 4 — — TS039Q7NEB5 — — 1.142 3.858 7.87 M39 x 2 4 — — TS039Q7NEB5 — — 1.142 3.858 7.87	M36 x 3	4	_	_		TS036S8NEB5	_	2.047	3.858	7.874
M39 x 1.5 4 — TS039O6NEB5 — — 1.142 3.858 7.87 M39 x 2 4 — — TS039Q7NEB5 — — 1.142 3.858 7.87	M36 x 4	4	_	_	_	_	TS036U9NEB5	2.047	3.858	7.874
M39 x 2	M39 x 1	4	TS039M5NEB5	_	_	_	_	1.142	3.858	7.874
1300 21123	M39 x 1.5	4	_	TS039O6NEB5	_	_	_	1.142	3.858	7.874
M39 x 3 4 TS039S8NEB5 - 2.047 3.858 7.8	M39 x 2	4	_	_	TS039Q7NEB5	_	_	1.142	3.858	7.874
210.11	M39 x 3	4	_	_	_	TS039S8NEB5	_	2.047	3.858	7.874

Z

Z-PRO



Economical High Performance Hand Tans

For Metric Threads
7-PRO HT



*Z-PRO HT have a Bright Surface Treatment

For Tapping Steels, Irons, Brass and Plastics

Z-PRO HT are manufactured from YMW's own high speed steel for maximum toughness and wear life.

Z-PRO HT are the most popular style of general purpose taps for tapping under power or by hand.

*AVAILABLE IN TIN AND TICN COATING ON REQUEST

Custom Blend High Vanadium HSS

Plug Style (5 threads chamfered)

DIN lengths with ANSI shank dimensions.

Z-PRO Series HT

Metric Sizes

Divienguis with Aivi shank unitensions.							Z-r KO	Series III		Metri	ic Sizes
Nominal	No. of		Pitch Diameter Limit / EDP Numbers							Dimensions	
Size	Flutes	D5	D6	D7	D8	D9	D10	D11	Length of Thread	Neck Length (=Thread + Neck)	Length Overall
M39 x 4	4	_	_	_	_	TS039U9NEB	5 —	_	2.047	3.858	7.874
M42 x 1	4	TS042M5NE	EB5 —	_	_	_	_	_	1.142	3.858	7.874
M42 x 1.5	4	_	TS042O6NI	EB5 —	_	_	_	_	1.142	3.858	7.874
M42 x 2	4	_	_	TS042Q7NEI	В5 —	_	_	_	1.142	3.858	7.874
M42 x 4.5	4	_	_	_	_	— т	ΓS042VON	NEB5 —	2.323	3.858	7.874
M45 x 1	4	TS045M5NI	EB5 —	_	_	_	_	_	1.22	4.252	8.661
M45 x 1.5	4	_	TS045O6NI	EB5 —	_	_	_	_	1.22	4.252	8.661
M45 x 2	4	_	_	TS045Q7NE	B5 —	_	_	_	1.22	4.252	8.661
M45 x 3	4	_	_	_	TS045S8N	EB5	_	_	2.323	4.252	8.661
M45 x 4.5	4	_	_	_	_	<u> </u>	ΓS045VON	NEB5 —	2.323	4.252	8.661
M48 x 1	4	_	TS048M6N	ЕВ5 —	_	_	_	_	1.22	4.803	9.843
M48 x 1.5	4	_	_	TS048O7NE	в5 —	_	_	_	1.22	4.803	9.843
M48 x 2	4	_	_	TS048Q7NEI	B5 —	_	_	_	1.22	4.803	9.843
M48 x 3	4	_	_	_	_	TS048S9NEB	5 —	_	2.559	4.803	9.843
M48 x 5	4	_	_	_	_	_	_	TS048W-NEB5	2.559	4.803	9.843



For Tapping Steels, Irons, Brass and Plastics

Z-PRO HT are manufactured from YMW's own high speed steel for maximum toughness and wear life.

Z-PRO HT are the most popular style of general purpose taps for tapping under power or by hand.

Economical High Performance Hand Taps For Metric Threads



Z-PRO HT have an Oxide Surface Treatment Custom Blend High Vanadium HSS

Plug Style (5 threads chamfered)

DIN lengths with ANSI dimensions.

7	P	R	\cap	Se	eries	H	Т

Metric Sizes

Nominal	No. of		Pitch Dia	neter Limit / EDP	Numbers			Dimensions	
Size	Flutes	D3	D4	D5	D6	D7	Length of Neck	Neck Length (=Thread + Neck)	Length Overall
M2 x 0.4	3	TS2.0E3NEX5	_	_		_	.314	.382	1.772
M2.2 x 0.45	3	TS2.2F3NEX5	_	_	_	_	.314	.382	1.772
M2.5 x 0.45	3	TS2.5F3NEX5	_	_	_	_	.354	.693	2.205
M2.6 x 0.45	3	TS2.6F3NEX5	_	_	_	_	.354	.693	2.205
M3 x 0.5	3	TS3.0G3NEX5	_	_	_	_	.433	.768	2.205
M3.5 x 0.6	3	_	TS3.5H4NEX5	_	_	_	.433	.787	2.205
M4 x 0.7	4	_	TS4.0I4NEX5	_	_	_	.512	.827	2.48
M5 x 0.8	4	_	TS.0K4NEX5	_	_	_	.591	.984	3.15
M6 x 1	4	_	_	TS6.0M5NEX5	_	_	.591	1.181	3.15
M7 x 0.75	4		TS7.0J4NEX5	_	_	_	.748	1.315	3.543
M7 x 0.5	4	_	TS7.0G4NEX5	_	_	_	.394	1.315	3.543
M7 x 1	4	_	_	TS7.0M5NEX5	_	_	.748	1.315	3.543
M8 x 0.75	4	_	TS8.0J4NEX5	_	_	_	.394	1.382	3.543
M8 x 0.5	4	_	TS8.0G4NEX5	_	_	_	.394	1.382	3.543
M8 x 1	4	_	_	TS8.0M5NEX5	_	_	.748	1.382	3.543
M8 x 1.25	4	_	_	TS8.0N5NEX5	_	_	.748	1.382	3.543
M9 x 1	4	_	_	TS9.0M5NEX5	_	_	.748	1.382	3.543
M9 x 1.25	4	_	_	TS9.0N5NEX5	_	_	.748	1.382	3.543
M10 X 0.75	4	_	TS010J4NEX5	_	_	_	.512	1.929	3.937
M10 x 1	4	_	_	TS010M5NEX5	_	_	.906	1.929	3.937
M10 x 1.25	4	_	_	TS010N5NEX5	_	_	.906	1.929	3.937
M10 x 1.5	4	_	_	_	TS010O6NEX5	_	.906	1.929	3.937
M11 x 1.5	4	_	_	_	TS011O6NEX5	_	.906	1.929	3.937
M12 x 1	4	_	_	TS012M5NEX5	_	_	1.024	2.126	4.331
M12 x 1.25	4	_	_	_	TS012N6NEX5	_	1.024	2.126	4.331
M12 x 1.5	4	_	_		TS012O6NEX5	_	1.024	2.126	4.331
M12 x 1.75	4	_	_		TS012P6NEX5	_	1.024	2.126	4.331







Economical High Performance Hand Taps

For Metric Threads



Z-PRO HT have an Oxide Surface Treatment

Custom Blend High Vanadium HSS

For Tapping Steels, Irons, Brass and Plastics

Z-PRO HT are manufactured from YMW's own high speed steel for maximum toughness and wear life.

Z-PRO HT are the most popular style of general purpose taps for tapping under power or by hand.

Plug Style (5 threads chamfered)

DIN lengths with ANSI dimensions.

Z-PRO Series HT

Metric Sizes

211 110119	5 WILLII I K	1851 dimension			L -	PKO Senes H I			C Sizes
Nominal	No. of		Pitch Dian		Dimensions				
Size	Flutes	D5	D6	D7	D8	D9	Length of Thread	Neck Length (=Thread + Neck)	Length Overall
M14x1	4	TS014M5NEX5	_	_	_	_	1.024	2.126	4.331
M14 x 1.25	4	_	TS014N6NEX5	_	_	_	1.024	2.126	4.331
M14 x 1.5	4	_	TS014O6NEX5	_	_	_	1.024	2.126	4.331
M14x2	4	_	_	TS014Q7NEX5	_	_	1.024	2.126	4.331
M16 x 1	4	TS016M5NEX5	_	_	_	_	1.024	2.126	4.331
M16 x 1.5	4	_	TS016O6NEX5	_	_	_	1.024	2.126	4.331
M16 x 2	4	_	_	TS016Q7NEX5	_	_	1.024	2.126	4.331
M18 x 1	4	TS018M5NEX5	_	_	_	_	.945	2.402	4.921
M18 x 1.5	4	_	TS018O6NEX5	_	_	_	.945	2.402	4.921
M18 x 2	4	_	_	TS018Q7NEX5	_	_	1.299	2.402	4.921
M18 x 2.5	4	_	_	TS018R7NEX5	_	_	1.299	2.402	4.921
M20 x 1	4	TS020M5NEX5	_	_	_	_	.945	2.717	5.512
M20 x 1.5	4	_	TS020O6NEX5	_	_	_	.945	2.717	5.512
M20 x 2	4	_	_	TS020Q7NEX5	_	_	1.299	2.717	5.512
M20 x 2.5	4	_	_	TS020R7NEX5	_	_	1.299	2.717	5.512
M22x 1	4	TS022M5NEX5	_	_	_	_	.945	2.717	5.512
M22 x 1.5	4	_	TS022O6NEX5	_	_	_	.945	2.717	5.512
M22 x 2	4	_	_	TS022Q7NEX5	_	_	1.299	2.717	5.512
M22 x 2.5	4	_	_	TS022R7NEX5	_	_	1.299	2.717	5.512
M24 x 1	4	TS024M5NXB5	_	_	_	_	1.063	3.071	6.299
M24 x 1.5	4	_	TS024O6NEX5	_	_	_	1.063	3.071	6.299
M24 x 2	4	_	_	TS024Q7NEX5	_	_	1.063	3.071	6.299
M24x3	4	_	_	_	TS024S8NEX5	· _	1.457	3.071	6.299
M25 x 1.5	4	_	TS025O6NEX5	_	_	_	1.063	3.071	6.299
M26 x 1.5	4	_	TS026O6NEX5	_	_	_	1.063	3.465	7.087
M27 x 1	4	TS027M5NEX5	_	_	_	_	1.063	3.465	7.087

H

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Z-PRO



For Tapping Steels, Irons, Brass and Plastics

Z-PRO HT are manufactured from YMW's own high speed steel for maximum toughness and wear life.

Z-PRO HT are the most popular style of general purpose taps for tapping under power or by hand.

Economical High Performance Hand Taps

For Metric Threads



Z-PRO HT have an Oxide Surface Treatment

Custom Blend High Vanadium HSS

Plug Style (5 threads chamfered)

DIN lengt	hs with A	ANSI dimension	ns.		Z	Z-PRO Series HT		Metr	ic Sizes
Nominal	No. of		Pitch Diar	I	Dimensions				
Size	Flutes	D5	D6	D7	D8	D9	Length of Thread (Neck Length (=Thread + Neck)	Length Overall
M2 7x 1.5	4	_	TS027O6NEX5	_	_	_	1.063	3.465	7.087
M27 x 2	4	_	_	TS027Q7NEX5	_	_	1.063	3.465	7.087
M27 x 3	4	_	_	_	TS027S8NEX	5 —	1.732	3.465	7.087
M28 x 1	4	TS028M5NEX5	_	_	_	_	1.063	3.465	7.087
M28 x 1.5	4	_	TS028O6NEX5	_	_	_	1.063	3.465	7.087
M28 x 2	4	_	_	TS028Q7NEX5	_	_	1.063	3.465	7.087
M30 x 1	4	TS030M5NEX5	_	_	_	_	1.063	3.465	7.087
M30 x 1.5	4	_	TS030O6NEX5	_	_	_	1.063	3.465	7.087
M30 x 2	4	_	_	TS030Q7NEX5	_	_	1.063	3.465	7.087
M30 x 3.5	4	_	_	_	_	TS030T9NEX5	1.732	3.465	7.087
M32 x 1	4	TS032M5NEX5	_	_	_	_	1.063	3.465	7.087
M32 x 1.5	4	_	TS032O6NEX5	_	_	_	1.063	3.465	7.087
M32 x 2	4	_	_	TS032Q7NEX5	_	_	1.063	3.465	7.087
M33 x 1	4	TS033M5NEX5	_	_	_	_	1.142	3.465	7.087
M33 x 1.5	4	_	TS033O6NEX5	_	_	_	1.142	3.465	7.087
M33 x 2	4	_	_	TS033Q7NEX5	_	_	1.142	3.465	7.087
M33 x 3.5	4	_	_	_	_	TS033T9NEX5	1.181	3.465	7.087
M36 x 1	4	TS036M5NEX5	_	_	_	_	1.142	3.858	7.784
M36 x 1.5	4	_	TS036O6NEX5	_	_	_	1.142	3.858	7.874
M36 x 2	4	_	_	TS036Q7NEX5	_	_	1.142	3.858	7.874
M36 x 3	4	_	_	_	TS036S8NEX	₅ –	2.047	3.858	7.874
M36 x 4	4	_	_	_	_	TS036U9NEX5	2.047	3.858	7.874
M39 x 1	4	TS039M5NEX5	_	_	_	_	1.142	3.858	7.874
M39 x 1.5	4	_	TS039O6NEX5	_	_	_	1.142	3.858	7.874
M39 x 2	4	_	_	TS039Q7NEX5	_	_	1.142	3.858	7.874
M39 x 3	4	_	_	_	TS039S8NEX5	_	2.047	3.858	7.874

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Z-PRC



Economical High Performance Hand Taps

For Metric Threads

Z-PRO HT have an Oxide Surface Treatment

Custom Blend High Vanadium HSS

Plug Style (5 threads chamfered)

DIN lengths with ANSI dimensions.

For Tapping Steels, Irons, Brass and Plastics

Z-PRO HT are manufactured from YMW's own high speed steel for maximum toughness and wear

Z-PRO HT are the most popular style of general purpose taps for tapping under power or by hand.

7-PRO Series HT Metric Sizes

Din lengths with ANSI dimensions.							Z-PK	O Series H I		Metri	ic Sizes
Nominal	No. of			I	Dimensions						
Size	Flutes	D5	D6	D7	D8	D9	D10	D11	Length of Thread	Neck Length =Thread + Neck)	Length Overall
M39 x 4	4	_	_	_	_	TS039U9NEX	5 —	_	2.047	3.858	7.874
M42 x 1	4	TS042M5N	EX5	_	_	_	_	_	1.142	3.858	7.874
M42 x 1.5	4	_	TS042O6N	EX5 —	_	_	_	_	1.142	3.858	7.874
M42 x 2	4	_	_	TS042Q7NF	EX5 —	_	_	_	1.142	3.858	7.874
M42 x 4.5	4	_	_	_	_	<u> </u>	ΓS042VON	EX5 —	2.323	3.858	7.874
M45 x 1	4	TS045M5N	EX5 —	_	_	_	_	_	1.22	4.252	8.661
M45 x 1.5	4	_	TS045O6N	EX5 —	_	_	_	_	1.22	4.252	8.661
M45 x 2	4	_	_	TS045Q7N1	EX5 —	_	_	_	1.22	4.252	8.661
M45 x 3	4	_	_	_	TS045S8N	EX5 —	_	_	2.323	4.252	8.661
M45 x 4.5	4	_	_	_	_		ΓS045VON	IEX5 —	2.323	4.252	8.661
M48 x 1	4	_	TS048M6N	EX5 —	_	_	_	_	1.22	4.803	9.843
M48 x 1.5	4	_	_	TS048O7N	EX5 —	_	_	_	1.22	4.803	9.843
M48 x 2	4	_	_	TS048Q7NF	EX5 —	_	_	_	1.22	4.803	9.843
M48 x 3	4	_	_	_	_	TS048S9NEX	5 —	_	2.559	4.803	9.843
M48 x 5	4	_	_	_	_	_	_	TS048W-NEX5	2.559	4.803	9.843

H T

ES BR (15) II I Z-PRO

For Tapping Steels, Irons, Brass and Plastics

Z-PRO HT are manufactured from YMW's own high speed for maximum toughness and wear life.

 $Z\mbox{-}PRO$ HT are the most popular style of general purpose taps for tapping under power or by hand.

Economical High Performance Hand Taps For Metric Threads



*Z-PRO PO have a Bright Surface Treatment

*AVAILABLE IN TIN AND TICN COATING ON REQUEST

Custom Blend High Vanadium HSS

Bottoming Style (1.5 threads chamfered)

DIN lengths with ANSI dimensions.

7-	PR	0	Series	HT

Metric Sizes

Nominal	No. of	LI VOI dimension	Pitch Dian		Dimensions				
Size	Flutes	D3	D4	D5	D6	D7	Length of Neck	Neck Length (=Thread + Neck)	Length Overall
M2 x 0.4	3	TS2.0E3NEBA			_	_	.314	.382	1.772
M2.2 x 0.45	3	TS2.2F3NEBA	_	_	_	_	.314	.382	1.772
M2.5 x 0.45	3	TS2.5F3NEBA	_	_	_	_	.354	.693	2.205
M2.6 x 0.45	3	TS2.6F3NEBA	_	_	_	_	.354	.693	2.205
M3 x 0.5	3	TS3.0G3NEBA	_	_	_	_	.433	.768	2.205
M3.5 x 0.6	3	_	TS3.5H4NEBA	_	_	_	.433	.787	2.205
M4 x 0.7	4	_	TS4.0I4NEBA	_	_	_	.512	.827	2.48
M5 x 0.8	4	_	TS5.0K4NEBA	_	_	_	.591	.984	3.15
M6 x 1	4	_	_	TS6.0M5NEBA	_	_	.591	1.181	3.15
M7 x 0.75	4	_	TS7.0J4NEBA	_	_	_	.748	1.315	3.543
M7 x 0.5	4	_	TS7.0G4NEBA	_	_	_	.394	1.315	3.543
M7 x 1	4	_	_	TS7.0M5NEBA	_	_	.748	1.315	3.543
M8 x 0.75	4	_	TS8.0J4NEBA	_	_	_	.394	1.382	3.543
M8 x 0.5	4	_	TS8.0G4NEBA	_	_	_	.394	1.382	3.543
M8 x 1	4	_	_	TS8.0M5NEBA	_	_	.748	1.382	3.543
M8 x 1.25	4	_	_	TS8.0N5NEBA	_	_	.748	1.382	3.543
M9 x 1	4	_	_	TS9.0M5NEBA	_	_	.748	1.382	3.543
M9 x 1.25	4	_	_	TS9.0N5NEBA	_	_	.748	1.382	3.543
M10 X 0.75	4	_	TS010J4NEBA	_	_	_	.512	1.929	3.937
M10 x 1	4	_	_	TS010M5NEBA	_	_	.906	1.929	3.937
M10 x 1.25	4	_	_	TS010N5NEBA	_	_	.906	1.929	3.937
M10 x 1.5	4	_	_	_	TS010O6NEBA	_	.906	1.929	3.937
M11 x 1.5	4	_	_	_	TS011O6NEBA	_	.906	1.929	3.937
M12 x 1	4	_	_	TS012M5NEBA	_	_	1.024	2.126	4.331
M12 x 1.25	4	_	_	_	TS012N6NEBA	_	1.024	2.126	4.331
M12 x 1.5	4	_	_	_	TS012O6NEBA	_	1.024	2.126	4.331
M12 x 1.75	4			_	TS012P6NEBA	_	1.024	2.126	4.331



Economical High Performance For Metric Threads



*Z-PRO PO have a Bright Surface Treatment

For Tapping Steels, Irons, Brass and Plastics

Z-PRO HT are manufactured from YMW own high speed for maximum toughness and wear life.

Z-PRO HT are the most popular style general purpose taps for tapping under power or by hand.

*AVAILABLE IN TIN AND TICN COATING ON REQUEST

Custom Blend High Vanadium HSS

Bottoming Style (1.5 threads chamfered)

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DIN lengths with ANSI dimensions.		Z-PRO Series HT

DIN length	•	Z-PRO Series HT	Γ Metric Sizes						
Nominal	No. of		Pitch Dian	neter Limit / EDP	Numbers			Dimensions	
Size	Flutes	D5	D6	D7	D8	D9	Length of Thread	Neck Length (=Thread + Neck)	Length Overall
M14x1	4	TS014M5NEBA	_	_	_	_	1.024	2.126	4.331
M14 x 1.25	4	_	TS014N6NEBA	_	_	_	1.024	2.126	4.331
M14 x 1.5	4	_	TS014O6NEBA	_	_	_	1.024	2.126	4.331
M14 x 2	4	_	_	TS014Q7NEBA	_	_	1.024	2.126	4.331
M16 x 1	4	TS016M5NEBA	_	_	_	_	1.024	2.126	4.331
M16 x 1.5	4	_	TS016O6NEBA	_	_	_	1.024	2.126	4.331
M16 x 2	4	_	_	TS016Q7NEBA	_	_	1.024	2.126	4.331
M18 x 1	4	TS018M5NEBA	_	_	_	_	.945	2.402	4.921
M18 x 1.5	4	_	TS018O6NEBA	_	_	_	.945	2.402	4.921
M18 x 2	4	_	_	TS018Q7NEBA	_	_	1.299	2.402	4.921
M18 x 2.5	4	_	_	TS018R7NEBA	_	_	1.299	2.402	4.921
M20 x 1	4	TS020M5NEBA	_	_	_	_	.945	2.717	5.512
M20 x 1.5	4	_	TS020O6NEBA	_	_	_	.945	2.717	5.512
M20 x 2	4	_	_	TS020Q7NEBA	_	_	1.299	2.717	5.512
M20 x 2.5	4	_	_	TS020R7NEBA	_	_	1.299	2.717	5.512
M22x 1	4	TS022M5NEBA	_	_	_	_	.945	2.717	5.512
M22 x 1.5	4	_	TS022O6NEBA	_	_	_	.945	2.717	5.512
M22 x 2	4	_	_	TS022Q7NEBA	_	_	1.299	2.717	5.512
M22 x 2.5	4	_	_	TS022R7NEBA	_	_	1.299	2.717	5.512
M24 x 1	4	TS024M5NEBA	_	_	_	_	1.063	3.071	6.299
M24 x 1.5	4	_	TS024O6NEBA	_	_	_	1.063	3.071	6.299
M24 x 2	4	_	_	TS024Q7NEBA	_	_	1.063	3.071	6.299
M24x3	4	_	_	_	TS024S8NEB	A _	1.457	3.071	6.299
M25 x 1.5	4	_	TS025O6NEBA	_	_	_	1.063	3.071	6.299
M26 x 1.5	4	_	TS026O6NEBA	_	_	_	1.063	3.465	7.087
M27 x 1	4	TS027M5NEBA	_	_	_	_	1.063	3.465	7.087

S BR 15 II U Z-PRO

For Tapping Steels, Irons, Brass and Plastics

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Economical High Performance Hand Taps For Metric Threads



*Z-PRO HT have a Bright Surface Treatment

*AVAILABLE IN TIN AND TICN COATING ON REQUEST

Custom Blend High Vanadium HSS

Bottoming Style (1.5 threads chamfered)

DIN lengths with ANSI dimensions.

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//-	. L V	 Series	п

Metric Sizes

Nominal	No. of		Pitch Dian		Dimensions				
Size	Flutes	D5	D6	D7	D8	D9	Length of Thread	Neck Length (=Thread + Neck)	Length Overall
M2 7x 1.5	4	_	TS027O6NEBA		_	_	1.063	3.465	7.087
M27 x 2	4	_	_	TS027Q7NEBA	_	_	1.063	3.465	7.087
M27 x 3	4	_	_	_	TS027S8NEBA	_	1.732	3.465	7.087
M28 x 1	4	TS028M5NEBA	_	_	_	_	1.063	3.465	7.087
M28 x 1.5	4	_	TS028O6NEBA	_	_	_	1.063	3.465	7.087
M28 x 2	4	_	_	TS028Q7NEBA	_	_	1.063	3.465	7.087
M30 x 1	4	TS030M5NEBA	_	_	_		1.063	3.465	7.087
M30 x 1.5	4	_	TS030O6NEBA	_	_	_	1.063	3.465	7.087
M30 x 2	4	_	_	TS030Q7NEBA	_	_	1.063	3.465	7.087
M30 x 3.5	4	_	_	_	_	TS030T9NEBA	1.732	3.465	7.087
M32 x 1	4	TS032M5NEBA	_	_	_	_	1.063	3.465	7.087
M32 x 1.5	4	_	TS032O6NEBA	_	_	_	1.063	3.465	7.087
M32 x 2	4	_	_	TS032Q7NEBA	_	_	1.063	3.465	7.087
M33 x 1	4	TS033M5NEBA	_	_	_	_	1.142	3.465	7.087
M33 x 1.5	4	_	TS033O6NEBA	_	_	_	1.142	3.465	7.087
M33 x 2	4	_	_	TS033Q7NEBA	_	_	1.142	3.465	7.087
M33 x 3.5	4	_	_	_	_	TS033T9NEBA	1.181	3.465	7.087
M36 x 1	4	TS036M5NEBA	_	_	_	_	1.142	3.858	7.784
M36 x 1.5	4	_	TS036O6NEBA	_	_	_	1.142	3.858	7.874
M36 x 2	4	_	_	TS036Q7NEBA	_	_	1.142	3.858	7.874
M36 x 3	4	_	_		TS036S8NEBA	_	2.047	3.858	7.874
M36 x 4	4	_	_	_	_	TS036U9NEBA	2.047	3.858	7.874
M39 x 1	4	TS039M5NEBA	_	_	_	_	1.142	3.858	7.874
M39 x 1.5	4		TS039O6NEBA	_			1.142	3.858	7.874
M39 x 2	4	_	_	TS039Q7NEBA	_	_	1.142	3.858	7.874
M39 x 3	4			_	TS039S8NEBA	_	2.047	3.858	7.874

Z-PRC



9.843

4.803

Z

Economical High Performance Hand Taps
For Metric Threads

*Z-PRO HT have a Bright Surface Treatment

For Tapping Steels, Irons, Brass and Plastics

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Z-PRO HT are the most popular style general purpose taps for tapping under power or by hand.

TS048W-NEBA

*AVAILABLE IN TIN AND TICN COATING ON REQUEST

Custom Blend High Vanadium HSS

Bottoming Style (1.5 threads chamfered)

DIN lengths with ANSI dimensions. Z-PRO Series HT

DIN length	DIN lengths with ANSI dimensions. Z-PRO Series									Metri	ic Sizes
Nominal	No. of			Pitch Diamete	er Limit / E	DP Numbers			Dimensions		
Size	Flutes	D5	D6	D7	D8	D9	D10	D11	Length of Thread	Neck Length (=Thread + Neck)	Length Overall
M39 x 4	4	_	_	_	_	TS039U9NEB	A —	_	2.047	3.858	7.874
M42 x 1	4	TS042M5NE	CBA —	_	_	_	_	_	1.142	3.858	7.874
M42 x 1.5	4	-	TS042O6NI	ЕВА —	_	_	_	_	1.142	3.858	7.874
M42 x 2	4	_	_	TS042Q7NE	ва —	_	_	_	1.142	3.858	7.874
M42 x 4.5	4	l –	_		_	— т	ΓS042VONI	ЕВА —	2.323	3.858	7.874
M45 x 1	4	TS045M5NI	EBA —	_	_	_	_	_	1.22	4.252	8.661
M45 x 1.5	4	_	TS045O6NI	EBA —	_	_	_	_	1.22	4.252	8.661
M45 x 2	4	–	_	TS045Q7NE	BA —	_	_	_	1.22	4.252	8.661
M45 x 3	4	_	_	_	TS045S8N	NEBA	_	_	2.323	4.252	8.661
M45 x 4.5	4	_	_	_	_	<u> </u>	ΓS045VONI	ЕВА —	2.323	4.252	8.661
M48 x 1	4	_	TS048M6N	ЕВА —	_	_	_	_	1.22	4.803	9.843
M48 x 1.5	4	_	_	TS048O7NE	BA —	_	_	_	1.22	4.803	9.843
M48 x 2	4	_	_	TS048Q7NEI	ва —	_	_	_	1.22	4.803	9.843
M48 x 3	4	l –	_	_	_	TS048S9NEB	A —	_	2.559	4.803	9.843

M48 x 5

ox 15 II U Z-PRO

For Tapping Steels, Irons, Brass and Plastics

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Z-PRO HT are the most popular style of general purpose taps for tapping under power or by hand.

Economical High Performance Hand Taps For Metric Threads

Z-PRO HT have an Oxide Surface Treatment

Custom Blend High Vanadium HSS

Bottoming Style (1.5 threads chamfered)

DIN lengths with ANSI dimensions.

Z-PRO Series HT

Metric Sizes

Nominal	No. of	LI VOI dimension	Pitch Diar	Dimensions					
Size	Flutes	D3	D4	D5	D6	D7	Length of Neck	Neck Length (=Thread + Neck)	Length Overall
M2 x 0.4	3	TS2.0E3NEXA	_	_	_	_	.314	.382	1.772
M2.2 x 0.45	3	TS2.2F3NEXA	_	_	_	_	.314	.382	1.772
M2.5 x 0.45	3	TS2.5F3NEXA	_	_	_	_	.354	.693	2.205
M2.6 x 0.45	3	TS2.6F3NEXA	_	_	_	_	.354	.693	2.205
$M3 \times 0.5$	3	TS3.0G3NEXA	_	_	_	_	.433	.768	2.205
$M3.5 \times 0.6$	3	_	TS3.5H4NEXA	_	_	_	.433	.787	2.205
M4 x 0.7	4	_	TS4.0I4NEXA	_	_	_	.512	.827	2.48
M5 x 0.8	4	_	TS5.0K4NEXA	_	_	_	.591	.984	3.15
M6 x 1	4	_	_	TS6.0M5NEXA	_	_	.591	1.181	3.15
M7 x 0.75	4	_	TS7.0J4NEXA	_	_	_	.748	1.315	3.543
$M7 \times 0.5$	4	_	TS7.0G4NEXA	_	_	_	.394	1.315	3.543
M7 x 1	4	_	_	TS7.0M5NEXA	_	_	.748	1.315	3.543
M8 x 0.75	4	_	TS8.0J4NEXA	_	_	_	.394	1.382	3.543
$M8 \times 0.5$	4	_	TS8.0G4NEXA	_	_	_	.394	1.382	3.543
M8 x 1	4	_	_	TS8.0M5NEXA	_	_	.748	1.382	3.543
M8 x 1.25	4	_	_	TS8.0N5NEXA	_	_	.748	1.382	3.543
M9 x 1	4	_	_	TS9.0M5NEXA	_	_	.748	1.382	3.543
M9 x 1.25	4	_	_	TS9.0N5NEXA	_	_	.748	1.382	3.543
$\mathbf{M10X0.75}$	4	_	TS010J4NEXA	_	_	_	.512	1.929	3.937
M10 x 1	4	_	_	TS010M5NEXA	_	_	.906	1.929	3.937
M10 x 1.25	4	_	_	TS010N5NEXA	_	_	.906	1.929	3.937
M10 x 1.5	4	_	_	_	TS010O6NEXA	. –	.906	1.929	3.937
M11 x 1.5	4	_	_	_	TS011O6NEXA	_	.906	1.929	3.937
M12 x 1	4	_	_	TS012M5NEXA	_	_	1.024	2.126	4.331
M12 x 1.25	4	_	_	_	TS012N6NEXA	_	1.024	2.126	4.331
M12 x 1.5	4	_			TS012O6NEXA	_	1.024	2.126	4.331
M12 x 1.75	4	_	_	_	TS012P6NEXA	_	1.024	2.126	4.331



7.087

3.465

1.063

Economical High Performance Hand Taps

For Metric Threads

TS027M5NEXA

Z-PRO HT have an Oxide Surface Treatment Custom Blend High Vanadium HSS

For Tapping Steels, Irons, Brass and Plastics

Z-PRO HT are manufactured from YMW own high speed for maximum toughness and wear life.

Z-PRO HT are the most popular style general purpose taps for tapping under power or by hand.

Bottoming Style (1.5 threads chamfered)

DIN length	s with A	NSI dimension	s.	Z	Z-PRO Series HT		Metri Dimensions	c Sizes	
Nominal	No. of		Pitch Dian	neter Limit / EDP	Numbers	pers			
Size	Flutes	D5	D6	D7	D8	D9	Length of Thread	Neck Length (=Thread + Neck)	Length Overall
M14x1	4	TS014M5NEXA	_	_	_	_	1.024	2.126	4.331
M14x 1.25	4	_	TS014N6NEXA	_	_	_	1.024	2.126	4.331
M14 x 1.5	4	_	TS014O6NEXA	_	_	_	1.024	2.126	4.331
M14x2	4	_	_	TS014Q7NEXA		_	1.024	2.126	4.331
M16 x 1	4	TS016M5NEXA	_	_	_	_	1.024	2.126	4.331
M16 x 1.5	4	_	TS016O6NEXA	_	_	_	1.024	2.126	4.331
M16 x 2	4	_	_	TS016Q7NEXA	_	_	1.024	2.126	4.331
M18 x 1	4	TS018M5NEXA	_	_	_	_	.945	2.402	4.921
M18 x 1.5	4	_	TS018O6NEXA	_	_	_	.945	2.402	4.921
M18 x 2	4	_	_	TS018Q7NEXA	_	_	1.299	2.402	4.921
M18 x 2.5	4	_	_	TS018R7NEXA	_	_	1.299	2.402	4.921
M20 x 1	4	TS020M5NEXA	_	_	_	_	.945	2.717	5.512
M20 x 1.5	4	_	TS020O6NEXA	_	_	_	.945	2.717	5.512
M20 x 2	4	_	_	TS020Q7NEXA	_	_	1.299	2.717	5.512
M20 x 2.5	4	_	_	TS020R7NEXA	_	_	1.299	2.717	5.512
M22x 1	4	TS022M5NEXA	_	_	_	_	.945	2.717	5.512
M22 x 1.5	4	_	TS022O6NEXA	_	_	_	.945	2.717	5.512
M22 x 2	4	_	_	TS022Q7NEXA	_	_	1.299	2.717	5.512
M22 x 2.5	4	_	_	TS022R7NEXA	_	_	1.299	2.717	5.512
M24 x 1	4	TS024M5NEXA	_	_	_	_	1.063	3.071	6.299
M24 x 1.5	4	_	TS024O6NEXA	_	_	_	1.063	3.071	6.299
M24 x 2	4	_	_	TS024Q7NEXA	_	_	1.063	3.071	6.299
M24x3	4	_	_	_	TS024S8NEX	XA _	1.457	3.071	6.299
M25 x 1.5	4	_	TS025O6NEXA	_	_	_	1.063	3.071	6.299
M26 x 1.5	4	_	TS026O6NEXA	_	_	_	1.063	3.465	7.087

CONTINUED ON NEXT PAGE

M27 x 1

ox 1.5 II II Z-PRO

For Tapping Steels, Irons, Brass and Plastics

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Economical High Performance Hand Taps For Metric Threads



Z-PRO HT have an Oxide Surface Treatment Custom Blend High Vanadium HSS

Bottoming Style (1.5 threads chamfered)

DIN lengths with ANSI dimensions.

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Metric Sizes

Nominal	No. of	101 4111101131011	Pitch Dian	ito series III	Dimensions				
Size	Flutes	D5	D6	D7	D8	D9	Length of Thread	Neck Length (=Thread + Neck)	Length Overall
M2 7x 1.5	4	_	TS027O6NEXA	_	_	_	1.063	3.465	7.087
M27 x 2	4	_	_	TS027Q7NEXA	_	_	1.063	3.465	7.087
M27 x 3	4	_	_	_	TS027S8NEXA	_	1.732	3.465	7.087
M28 x 1	4	TS028M5NEXA	_	_	_	_	1.063	3.465	7.087
M28 x 1.5	4	_	TS028O6NEXA	_	_	_	1.063	3.465	7.087
M28 x 2	4	_	_	TS028Q7NEXA	_	_	1.063	3.465	7.087
M30 x 1	4	TS030M5NEXA	_	_	_	_	1.063	3.465	7.087
M30 x 1.5	4	_	TS030O6NEXA	_	_	_	1.063	3.465	7.087
M30 x 2	4	_	_	TS030Q7NEXA	_	_	1.063	3.465	7.087
M30 x 3.5	4		_	_	_	TS030T9NEXA	1.732	3.465	7.087
M32 x 1	4	TS032M5NEXA	_	_	_	_	1.063	3.465	7.087
M32 x 1.5	4		TS032O6NEXA	_	_	_	1.063	3.465	7.087
M32 x 2	4	_	_	TS032Q7NEXA	_	_	1.063	3.465	7.087
M33 x 1	4	TS033M5NEXA	_	_	_	_	1.142	3.465	7.087
M33 x 1.5	4	_	TS033O6NEXA	_	_	_	1.142	3.465	7.087
M33 x 2	4	_	_	TS033Q7NEXA	_	_	1.142	3.465	7.087
M33 x 3.5	4	_	_	_	_	TS033T9NEXA	1.181	3.465	7.087
M36 x 1	4	TS036M5NEXA	_	_	_	_	1.142	3.858	7.784
M36 x 1.5	4	_	TS036O6NEXA	_	_	_	1.142	3.858	7.874
M36 x 2	4	_	_	TS036Q7NEXA	_	_	1.142	3.858	7.874
M36 x 3	4	_	_	_	TS036S8NEXA	_	2.047	3.858	7.874
M36 x 4	4	_	_	_	_	TS036U9NEXA	2.047	3.858	7.874
M39 x 1	4	TS039M5NEXA	_	_	_	_	1.142	3.858	7.874
M39 x 1.5	4	_	TS039O6NEXA	_	_	_	1.142	3.858	7.874
M39 x 2	4	_	_	TS039Q7NEXA	_	_	1.142	3.858	7.874
M39 x 3	4	_	_	_	TS039S8NEXA	_	2.047	3.858	7.874

Z

Z-PRO







Economical High Performance Hand Taps

For Metric Threads



Z-PRO HT have an Oxide Surface Treatment

Custom Blend High Vanadium HSS

For Tapping Steels, Irons, Brass and Plastics

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Bottoming Style (1.5 threads chamfered)

DIN lengths with ANSI dimensions.

Z-PRO Series HT

Metric Sizes

Nominal	No. of			Pitch Diamete	er Limit / I	EDP Numbers				Dimensions	
Size	Flutes	D5	D6	D7	D8	D9	D10	D11	Length of Thread	Neck Length (=Thread + Neck)	Length Overall
M39 x 4	4	_	_	_	_	TS039U9NEX	А —	_	2.047	3.858	7.874
M42 x 1	4	TS042M5N	EXA —	_	_	_	_	_	1.142	3.858	7.874
M42 x 1.5	4	-	TS042O6N1	EXA —	_	_	_	_	1.142	3.858	7.874
M42 x 2	4	_	_	TS042Q7NEX	ка —	_	_	_	1.142	3.858	7.874
M42 x 4.5	4	_	_		_	— т	ΓS042VOI	NEXA -	2.323	3.858	7.874
M45 x 1	4	TS045M5N	EXA —	_	_	_	_	_	1.22	4.252	8.661
M45 x 1.5	4	_	TS045O6N1	EXA —	_	_	_	_	1.22	4.252	8.661
M45 x 2	4	_	_	TS045Q7NEX	ΚΑ —	_	_	_	1.22	4.252	8.661
M45 x 3	4	_	_	_	TS045S8	NEXA —	_	_	2.323	4.252	8.661
M45 x 4.5	4	_	_	_	_	_ 7	ΓS045VO	NEXA —	2.323	4.252	8.661
M48 x 1	4	_	TS048M6N	EXA —	_	_	_	_	1.22	4.803	9.843
M48 x 1.5	4	_	_	TS048O7NEX	ΚΑ —	_	_	_	1.22	4.803	9.843
M48 x 2	4	_	_	TS048Q7NEX	A —	_	_	_	1.22	4.803	9.843
M48 x 3	4	_	_	_	_	TS048S9NEX	A —	_	2.559	4.803	9.843
M48 x 5	4	_	_	_	_	_	_	TS048W-NEXA	2.559	4.803	9.843













The MHSL Series taps are designed for Carbon Steels of mid range hardness and through hole applications.

A combination of HSS-CO (featuring wear resistance) and Yamawa's special coating, resulting in a highly durable tap.

Yamawa's MHSL special flute design results in excellent forward chip ejection.

MHSL superior cutting results in excellent surface finishes.

MHSL Series



MHSL has attained a very high durability in through hole tapping for steel products of mid range hardness used in the automotive industry.

DIN lengths with ANSI shank dimensions

Nominal	No. of	Pite	ch Diameter Limit / E	DP Numbers	Dimensions			
Size	Flutes	D5	D6	D7	Length of Thread	Neck Length (=Thread + Neck)	Length Overall	
M6 x 1	3	LS6.0MEFCL	_	_	.591	1.181	3.150	
M8 x 1.25	3	LS8.0NEFCL	_	_	.748	1.382	3.543	
M10 x 1.25	3	_	LS010MFFCL	_	.906	1.929	3.937	
M12 x 1.25	4	_	LS012NFFCL	_	1.024	2.126	4.331	
M14 x 1.5	4	_	_	LS014OHFCL	1.024	2.126	4.331	
M216x 1.5	4	_	_	LS016OHFCL	1.024	2.126	4.331	









AXE-HT Series

For Cast Aluminum



*AXE-HT have a TiN Surface Treatment

The AXE-HT Series are manufactured from premium HSS powder metals that feature high wear resistance and high heat durability properties along with a new cutting edge design, resulting in extended tool life.

The AXE-HT Series have a special TiN coating resulting in five times longer tool life compared to previous taps designed for Cast Aluminum.

AXE-HT taps offer a wider range of application, from mid range to high speed tapping.



DIN lengths with ANSI shank dimensions

Nominal	No. of	Pitch Diameter Lis	nit / EDP Numbers	Dimensions					
Size	Flutes	D5	D6	Length of Neck	Neck Length (=Thread + Neck)	Length Overall			
M6 x 1	3	TS6.0M5LPVA	_	.591	1.181	3.150			
M8 x 1.25	4	TS8.0N5LPVA	_	.748	1.382	3.543			
M10 x 1	4	_	TS010M6LPVA	.906	1.929	3.937			
M10 x 1.25	4	_	TS010N6LPVA	.906	1.929	3.937			
M10 x 1.5	4	_	TS010O6LPVA	.906	1.929	3.937			
M12 x 1.25	4	_	TS012N6LPVA	1.024	2.126	4.331			
M12 x 1.5	4	_	TS012O6LPVA	1.024	2.126	4.331			
M12 x 1.75	4	_	TS012P6LPVA	1.024	2.126	4.331			

D



Hand Taps for Hard-to-Machine Materials For Unified threads

MOLD HAND TAPS

Ideal for tapping mold steels, tool steels and gray cast irons, YMW offers this series of ZELX Mold Taps made of Cobalt High Speed Steel, ZELX Mold Hand Taps and Mold Pipe

Combined with specially designed geometry, Cobalt High Speed Steel improves the toughness of ZELX Taps for use in Prehardened Mold Steels. Furnished bright without surface treatment, taps can be surface treated upon request. **ZELX MOLD**



First Choice For Tapping Mold Steels

Ideal for tapping mold steels, tool steels and gray cast irons. (35 to 45 HRC) YMW offers this series of ZELX Mold Taps made of Cobalt High Speed Steel.

Plug Style

List 3114 Machine Screw sizes Fractional sizes (4 to 6 threads chamfered) 3124

Threads per inch				Pitch Diameter Li	mit/EDP Number	Dimensions		
Nominal Size	NC UNC	NF UNF	No. of Flutes	H2	Н3	Length of Thread	Length Overall	
4	40	_	3	389599	_	9/16	1-7/8	
5	40	_	3	389601	_	5/8	1-15/16	
6	32	_	3	_	389602	11/16	2	
8	32	_	3	_	389604	3/4	2-1/8	
10	24	_	3	_	389606	7/8	2-3/8	
10	_	32	3	_	389607	7/8	2-3/8	
1/4	20	_	3	_	389613	1	2-1/2	
1/4	_	28	3	_	389614	1	2-1/2	
5/16	18	_	4	_	389615	1-1/8	2-23/	
5/16	_	24	4	_	389616	1-1/8	2-23/	
3/8	16	_	4	_	389617	1-1	2-15/	
3/8	_	24	4	_	389618	1-1	2-15/	
7/16	14	_	4	_	389619	1-7/	3-5/32	
7/16	_	20	4	_	389620	1-7/	3-5/	
1/2	13	_	4	_	389621	1-21/	3-3	
1/2	_	20	4	_	389622	1-21/	3-3/8	
5/8	11	_	4	_	389625	1-13/	3-13/	
5/8	_	18	4	_	389626	1-13/16	3-13/	
3/4	10	_	4	_	389627	2	4-1/4	
3/4		16	4		389628	2	4-1/4	



MOLD HAND TAPS

Hand Taps for Hard-to-Machine Materials

For Metric Threads

Ideal for tapping mold steels, tool steels and gray cast irons, YMW offers this series of ZELX Mold Taps made of Cobalt High Speed Steel, ZELX Mold Hand Taps and Mold Pipe Taps.



ZELX MOLI

Plug Style

(4 to 6 thread	as chamfe	List	3114 Me	tric sizes				
Nominal	No. of	Pitc	h Diameter Limit / E	Dimensions				
Size	Flutes	D5	D6	D7	Length Neck Length of Thread (=Thread + Neck		Length) Overall	
M5 x 0.8	3	TS5.0K5DCB5	_	_	.591	.984	3.15	
M6 x 1	3	_	TS6.0M6DCB5	_	.591	1.181	3.15	
M8 x 1	4	_	TS8.0M6DCB5	_	.748	1.382	3.543	
M8 x 1.25	4	_	TS8.0N6DCB5	_	.748	1.382	3.543	
M10 x 1.25	4	_	TS010N6DCB5	_	.906	_	3.937	
M10 x 1.5	4	_	_	TS010O7DCB5	.906	_	3.937	
M12 x 1.75	4	_	_	TS012P7DCB5	1.024	_	4.331	

Ι











I Series HT For Unified threads



Designed for small batch quantity jobs that require the most economical tap. These taps are designed to tap steels and ferrous materials that produce stringy chips. They are also ideal for brass, plastics in through hole applications.

I Series HT available in blister packs.

Taps have oxide surface treatment

Plug Style (5 thread chamfer) Bottoming Style (2 thread chamfer)

Machine Screw sizes I Series HT Fractional sizes

Threads per Inch		EDP N	umbers	No. of	Dimensions		
Nominal Size	NC UNC	NF UNF	Plug	Bottoming	Flutes	Length of Thread	Length Overall
6	32	_	IAUN6JXHEX5R	IAUN6JXHEX2R	3	.374	2
8	32	_	IAUN8JXHEX5R	IAUN8JXHEX2R	3	.374	2-1/8
10	24	_	IAUNAMXHEX5R	IAUNAMXHEX2R	3	.512	2-3/8
1/4	20	_	IAU04NXHEX5R	IAU04NXHEX2R	3	.591	2-1/2
5/16	18	_	IAU05OXHEX5R	IAU05OXHEX2R	3	.669	2-3/4
3/8	16	_	IAUN06PXHEX5R	IAUN06PHEX2R	3	.748	2-15/16



AVAILABLE IN A CONVENIENT COUNTERTOP DISPLAY FOR WILL CALL AREAS AND CUSTOMER SERVICE COUNTERS.

EACH TAP IS INDIVIDUALLY WRAPPED IN A SHRINK WRAP BLISTER PACKAGING FOR EASIER HANDLING AND DISPLAY SALES.



The Yamawa "TA" positive drive quick change adapters allow the use of ANSI, DIN, and JIS style tap shanks in one toolholder. This means more styles of taps can be used with one tool holder thus reducing inventories of tapping toolholders.

The YAMAWA "TA" positive drive quick change tap adapter is interchangeable with other brands of tap adapters and toolholder manufacturers.









For ANSI style taps

For DIN style taps

For JIS style taps

Choose the Y	AMAWA "T	A" quick change tap	adapter for tl	ne shank (ΦDs) and t	he size o	f square	e (K) of	f your A	ANSI, I	OIN or	JIS tap	from c	hart be	elow.
Тар		Shank dia. (ΦDs) x Size of square (K)	Adaptable Tap Size												
specification			ANSI	(DIN371)	(DIN374) (DIN376)	JIS	ФD	к	Φd	Φd2	Φd1	£1	l 2	l 3	l 4
Unit of measu	irement inc	:h													
ANSI	6711246	.1410 x .110	No. 0 - No. 6							0.748					
	6711251	.1680 x .131	No. 8							0.748					
	6711257	.1940 x .152	No. 10							0.748	-		_		
	6711276	.2550 x .191	1/4"							0.748					
	6711289	.3180 x .238	5/16"				0.318	0.238	1.181	0.748	0.748	0.669	0.157	0.846	0.276
	6711301	.3810 x .286	3/8"							0.748					
	6711291	.3230 x .242	7/16"							0.748					
	6711298	.3670 x .275	1/2"							0.748					
	6711305	.4290 x .322	9/16"				0.429	0.322	1.181	0.748	0.748	0.669	0.157	0.846	0.276
Unit of measu				7			35	35	25					XI.	
DIN	6711244	3.5 x 2.7		M3	M5		3.5	2.7	30	19	19	17	4	21.5	7
	6711253	4.5 x 3.4		M4	M6		4.5	3.4	30	19	19	17	4	21.5	7
	6711268	6 x 4.9	ii	M5, M6	M8		6	4.9	30	19	19	17	4	21.5	7
	6711279(*)				M10		7	5.5	30	19	19	17	4	21.5	7
	6711287	8 x 6.2		M8			8	6.2	30	19	19	17	4	21.5	7
	6711294	9 x 7			M12		9	7	30	19	19	17	4	21.5	7
	6711302	10 x 8		M10			10	8	30	19	19	17	4	21.5	7
	6711308	11 x 9			M14		11	9	30	19	19	17	4	21.5	7
Unit of measu									721	-				7-	
JIS	6711320	4 x 3.2				M3	4	3.2	30	19	19	17	4	21.5	7
	6711260	5 x 4				M4	5	4	30	19	19	17	4	21.5	7
	6711313	5.5 x 4.5				M5	5.5	4.5	30	19	19	17	4	21.5	7
	6711266	6 x 4.5				M6	6	4.5	30	19	19	17	4	21.5	7
	6711317	6.2 x 5				M8	6.2	5	30	19	19	17	4	21.5	7
	6711279(*)					M10	7	5.5	30	19	19	17	4	21.5	7
	6711292	8.5 x 6.5	-			M12	8.5	6.5	30	19	19	17	4	21.5	7
	6711304	10.5 x 8				M14	10.5	8	30	19	19	17	4	21.5	7

^(*) Same product (The shank diameter and the size of square of a M10 tap are the same in both the JIS specifications and the DIN specifications.)



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