

NEW EMUGE Z-TAPS

Efficient, Economical Threading of Stainless & More.

Featuring Advanced Geometry and New GLT-1 Multi-layered Coating.



Emuge has introduced “Z-Taps”, a new program with an extensive line of taps featuring design and engineering that make them ideal for stainless steels, high strength alloys, tool steels and cast steels $\leq 30Rc$.

Emuge Z-Taps are designed with an advanced chamfer geometry and rake / flute form. **GLT-1**, a newly developed multi-layered coating, produces a **consistent, controllable chip formation that is released smoothly for fast and efficient chip removal**. GLT-1 is uniquely structured with advanced heat resistance characteristics, along with an outer anti-friction layer. These elements synergistically combine to produce exceptional wear resistance and sliding

properties that result in **improved tool life, reduced torque, optimized chip evacuation and superior thread finish**.

Emuge Z-Taps also feature an increased number of flutes and a shortened thread section to reduce friction, and a lower cutting torque to **reduce the occurrence of tap breakage and enable higher cutting speeds**.

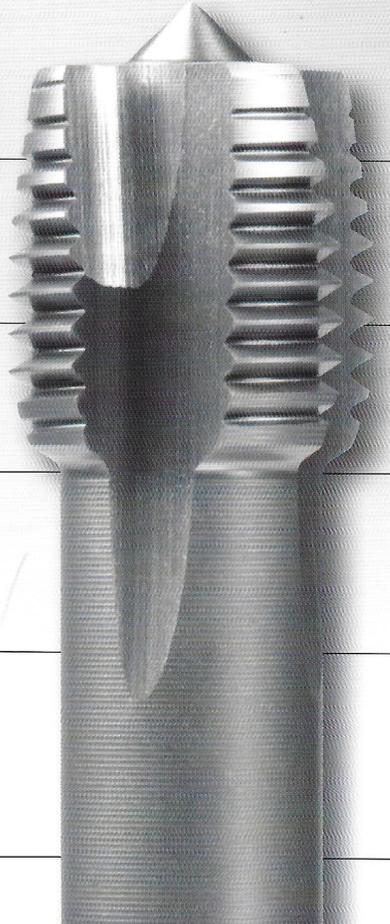
- Available in through-hole and blind-hole designs for thread lengths up to 3xD.
- Blind-hole taps offer two chamfer designs - full bottoming (1.5-2 threads) and modified bottoming (2-3 threads).
- DIN length available for improved chip clearance in hard-to-reach tapping applications.
- For optimal results, recommended on CNC machines with synchronous spindles utilizing emulsion coolant lubrication and synchronous tap holders such as Emuge Softsynchro® Holders.
- A full line of sizes from no. 4 to 3/4"
- Available in UNC, UNF and Metric Fine and Coarse, 160 sku's in total.



Z geometry benefits

**Ideal For Stainless, High Strength Alloys,
Tool and Cast Steels $\leq 30Rc$**

Austenitic Stainless Steels such as 304, 316, etc. have high ductility, low yield stress and relatively high ultimate tensile strength, requiring a special tap. **NEW EMUGE Z-TAPS!**

		
	Z-Geometry with special relief and rake angles for tough long-chipping materials	
	Advanced chamfer geometry for optimized tool life	
	Increased number of flutes with high 45° helix angle	
	Shortened thread section for less friction	
	Unique cutting geometry and flute form for efficient chip control	
		

TOOL KRIB
SUPPLY COMPANY

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*Supplying & Supporting Cutting Tools, Abrasives, Tool & Work Holding and Precision
Measuring for the Metalworking Industry*

Emuge Softsyncro® Tap Holders

TOOL-KRIB
SUPPLY COMPANY

Increase tool life & thread quality with our unique design

Featuring patented constructional separation of the
transmission of torque and axial force.

The EMUGE collet holder type **KSN/HD/Softsyncro®** makes the optimum use of a synchronous spindle possible, with the *best imaginable tool life and thread surface quality.*

- Freedom from rotational play in the C-axis due to **form-positive transmission of torque by means of steel balls.**
- **Soft minimum length compensation on tension and compression**, with axial force transmission by means of pre-tensioned elastomer springs that are coolant resistant.
- Patented elastomer springs which, by means of their absorption characteristics, **prevent axial pressure forces that act negatively on the tap flank surfaces.**
- Minimum length compensation system **automatically corrects for small pitch errors** between synchronized spindle and tap lead during feed cycle and critically when spindle reverses direction of rotation to exit.
- Precision ball grooves minimize rolling friction on torque transmission balls to **guarantee precise micro correction of lead errors in a rigid tapping cycle**, even under the most demanding machining conditions.



Tap Extension Holders

Can't reach?

Try a tap extension holder from Emuge.

Why buy special extra-length taps when a holder will solve the problem?

Many sizes available.

Visit Emuge.com for more information.

Available in:

- Spiral Flute & Spiral Point Styles
- Inch & Metric Sizes
4-40 thru 3/4-16 & 3 x 0.5mm thru 20 x 1.5mm
- Solid & Coolant Thru Bodies

All Standard and Stocked in Massachusetts



Z-Taps Materials & Cutting Speed Recommendations

Hardness range: <=30 HRC <=300 BHN

Main Steel Groups	Examples	Cutting Speed - SFM	
300 Series Stainless	316, 304, 321	15	50
400 Series Stainless	420, 440C	15	50
17-4 Ph Cond. A	17-4 Ph annealed	15	25
Alloy Steels	4140, 4340, 8620	25	65
Valve & Pump Steels		25	65
Cast & Forged Steels		25	65
Mold & Tool Steels	P20, H13, D2, S7	15	50



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EMUGE

HIGH PERFORMANCE TOOLS

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Emuge Corp. has been the product technology and performance leader in their field for nearly 100 years. Emuge manufactures an extensive line of taps, thread mills, end mills, toolholders, clamping devices and other rotary cutting tools, over 100,000 items sold through distributors worldwide. Emuge also offers end-user technical support through a network of in-the-field engineers and in-house product specialists, all with extensive tooling and application experience.

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