



EMUGE

NPT / NPTF

SKIP TOOTH TAPER PIPE TAPS

NPT / NPTF

Skip Tooth Taper Pipe Taps

Featuring a flute form with variable skip tooth geometry, an advanced flute design optimizes chip flow and clearance and lowers tapping torque – ideal for materials that produce long, stringy chip formations such as aluminum, carbon steels, stainless and mold steels.

- **Optimized chip back flow**
- **Enlarged chip space**
- **Lower tapping torque**
- **Longer tap life**

Unlike straight UN screw threads, taper pipe threads have a much higher volume of chip removal in the tapping process, especially when the pre-tapped hole is only straight-drilled without taper reaming. The high level of metal removal with taper pipe threads often causes premature failure of conventional pipe taps due to severe chipping of the cutting teeth or total breakage due to chip clogging. Emuge NPT/NPTF Taps significantly improve chip flow, produce longer tap life, provide better thread finish and gaging, and higher production rates due to less machine downtime.



Emuge NPT / NPTF Taps are available in two overall lengths.

The standard ANSI length and the longer DIN length allows for additional reach and chip clearance. Taps are offered in bright finish for wrought aluminum materials and TiN coated for steel materials. TiCN coating is available upon request.

- **Made of HSS-E material** for improved tap life
- **Extra length series** for improved reach, chip clearance, and delivery of coolant
- **Advanced flute design** with variable skip tooth geometry for optimized chip flow and chip clearance
- **PVD coated** for improved tap life and thread finish
- **Newly developed geometry** designed to eliminate severe teeth chipping and breakage problems
- **Longer DIN length** is ideal on CNC machines with rigid (Synchronous) tapping capabilities

- **Precision ground** to produce internal NPT / NPTF pipe threads to close tolerance on thread dimensions and limits of size
- **Excellent surface quality on the thread flanks**, for consistently tight, leak-free joints at assembly
- **Significantly longer tap life** and reduced part rejects due to rough/torn threads

Ask about our NPT / NPTF Taper Reamers

For Preparation of Tapered Holes

Form A
Straight Flute



Form B
Spiral Flute



SKIP TOOTH PIPE TAPS – Standard Length

	Size (in)	T.P.I.	ANSI OAL	ANSI Shank Width	ANSI Square Width	Bright Finish	TIN Coated	Coolant Fed TICN Coated
						EDP No.	EDP No.	EDP No.
NPT	1/16	27	2.125"	0.3125"	0.2340"	AW493000.5763	AW493100.5763	AW889300.5763
	1/8	27	2.125"	0.4375"	0.3280"	AW493000.5764	AW493100.5764	AW889300.5764
	1/4	18	1.125"	0.5625"	0.4210"	AW493000.5765	AW493100.5765	AW889300.5765
	3/8	18	2.437"	0.7000"	0.5310"	AW493000.5766	AW493100.5766	AW889300.5766
	1/2	14	3.125"	0.6875"	0.5150"	AW493000.5767	AW493100.5767	AW889300.5767
	3/4	14	3.250"	0.9063"	0.6790"	AW493000.5768	AW493100.5768	AW889300.5768
	1"	11 1/2	3.750"	1.1250"	0.8430"	AW493000.5769	AW493100.5769	AW889300.5769
NPTF	1/16	27	2.125"	0.3125"	0.2340"	AW493000.5782	AW493100.5782	AW889300.5782
	1/8	27	2.125"	0.4375"	0.3280"	AW493000.5783	AW493100.5783	AW889300.5783
	1/4	18	1.125"	0.5625"	0.4210"	AW493000.5784	AW493100.5784	AW889300.5784
	3/8	18	2.437"	0.7000"	0.5310"	AW493000.5785	AW493100.5785	AW889300.5785
	1/2	14	3.125"	0.6875"	0.5150"	AW493000.5786	AW493100.5786	AW889300.5786
	3/4	14F	3.250"	0.9063"	0.6790"	AW493000.5787	AW493100.5787	AW889300.5787
	1"	11 1/2	3.750"	1.1250"	0.8430"	AW493000.5788	AW493100.5788	AW889300.5788

SKIP TOOTH PIPE TAPS – Long Length

	Size (in)	T.P.I.	DIN OAL	ANSI Shank Width	ANSI Square Width	Bright Finish	TIN Coated
						EDP No.	EDP No.
NPT	1/16	27	3.543"	0.3125"	0.2340"	CW493000.5763	CW493100.5763
	1/8	27	3.937"	0.4375"	0.3280"	CW493000.5764	CW493100.5764
	1/4	18	3.937"	0.5625"	0.4210"	CW493000.5765	CW493100.5765
	3/8	18	4.331"	0.7000"	0.5310"	CW493000.5766	CW493100.5766
	1/2	14	5.512"	0.6875"	0.5150"	CW493000.5767	CW493100.5767
	3/4	14	5.512"	0.9063"	0.6790"	CW493000.5768	CW493100.5768
NPTF	1/16	27	3.543"	0.3125"	0.2340"	CW193000.5782	CW193100.5782
	1/8	27	3.937"	0.4375"	0.3280"	CW193000.5783	CW193100.5783
	1/4	18	3.937"	0.5625"	0.4210"	CW193000.5784	CW193100.5784
	3/8	18	4.331"	0.7000"	0.5310"	CW193000.5785	CW193100.5785
	1/2	14	5.512"	0.6875"	0.5150"	CW193000.5786	CW193100.5786
	3/4	14	5.512"	0.9063"	0.6790"	CW193000.5787	CW193100.5787

TAPER REAMERS – HSS – 1:16 Taper

	Size (in)	OAL (mm)	Flute Length (mm)	Shank Dia (mm)	# Flutes	Straight Flute Form A	Spiral Flute Form B (7° LH)
						EDP No.	EDP No.
NPT / NPTF	1/16	70	17	6	6	G0037165.5763	G0037175.5763
	1/8	70	17	7	6	G0037165.5764	G0037175.5764
	1/4	80	27	11	6	G0037165.5765	G0037175.5765
	3/8	85	27	12	8	G0037165.5766	G0037175.5766
	1/2	95	35	16	8	G0037165.5767	G0037175.5767
	3/4	105	35	20	10	G0037165.5768	G0037175.5768
	1"	130	43	24	10	G0037165.5769	G0037175.5769
	1 1/4	140	44	32	12	G0037165.5770	G0037175.5770
	1 1/2	150	45	36	12	G0037165.5771	G0037175.5771
	2"	160	46	45	14	G0037165.5772	G0037175.5772



Ask about our Precision Fixed Limit Thread Gages

Emuge's comprehensive line of thread gages consist of GO / NO-GO plug gages and thread depth plug gages. A Certificate of Accuracy is furnished with each gage.



NPT

Size (in)	EDP No.
1/16-27	L0500100.5763
1/8-27	L0500100.5764
1/4-18	L0500100.5765
3/8-18	L0500100.5766
1/2-14	L0500100.5767
3/4-14	L0500100.5768
1"-11-1/2	L0500100.5769

NPTF

Size (in)	EDP No.
1/16-27	L0520100.5782
1/8-27	L0520100.5783
1/4-18	L0520100.5784
3/8-18	L0520100.5785
1/2-14	L0520100.5786
3/4-14	L0520100.5787

For more information:

www.emuge.com/products/gages/npt-nptf

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Emuge Corp. has been the product technology and performance leader in its field for 100 years. Emuge manufactures an extensive line of taps, drills, thread mills, end mills, toolholders, clamping devices and other rotary cutting tools, over 40,000 items sold through distributors worldwide.