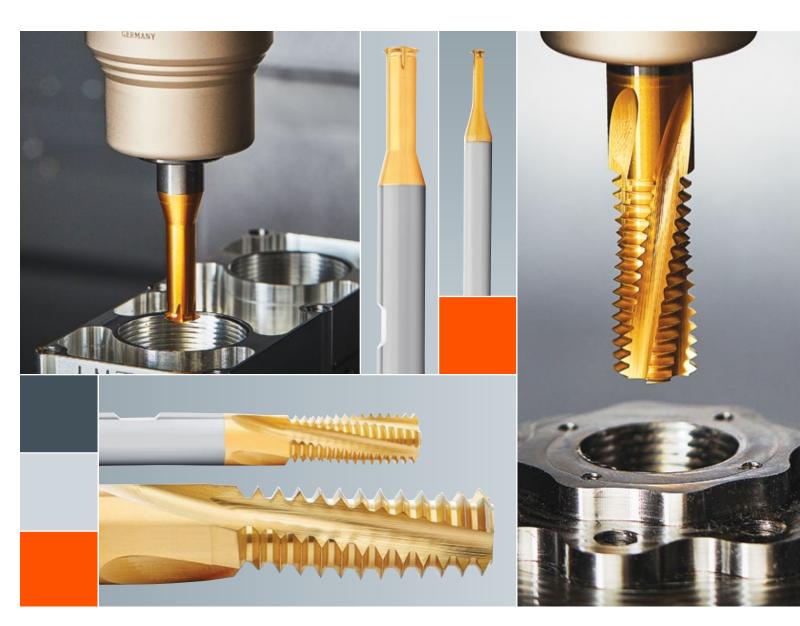


COMPLETE METALWORKING SOLUTIONS

(800) 991-4225 www.ahbinc.com ISO Certified customerservice@ahbinc.com







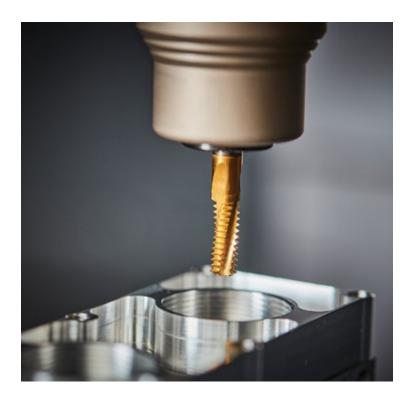
Introducing



EMUGE-FRANKEN, developer of MultiTAP,™ the industry's leading high performance multi-purpose tap, has introduced MultiTHREAD MILL, a cost effective universal thread milling solution for job shop manufacturers.

MultiTHREAD features a proprietary TIN T21 coating developed by EMUGE and is offered in a complete size and thread style range in either Full Form or Single Plane types.

EMUGE MultiTHREAD MILLS are an ideal general-purpose thread milling solution designed to cut a wide range of standard materials very efficiently.



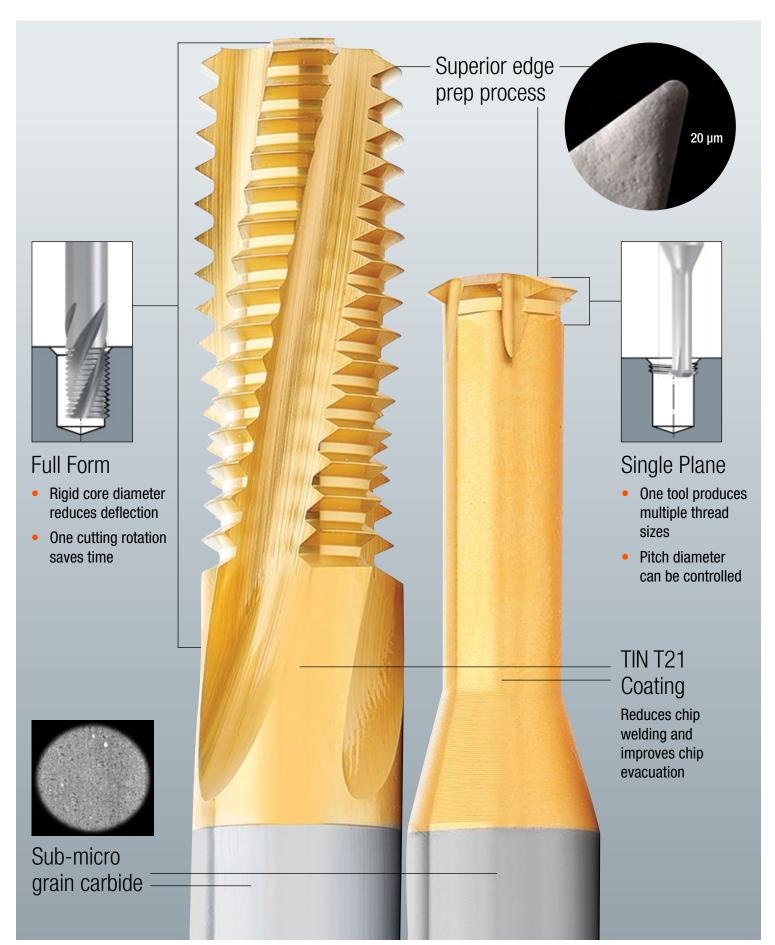
ADVANTAGES OF MultiTHREAD MILLS:

- Save costs reduce cycle times and operations while eliminating broken taps / scrapped parts
- One tool for both thru and blind holes
- One tool for right or left-hand threads
- Versatile: machines a wide range of materials
- Broad line of tool types/sizes in stock
- High process security / control
- Improved thread accuracy, quality and finish
- Affordable and reliable thread making solution



Made in Germany by EMUGE-FRANKEN







MultiTHREAD™ Full Form

MultiTHREAD Full Form tools redefine the measure of value in solid carbide thread mills. **This new tooling line for applications 1 1/8" and under,** assures quality threads, versatility and ease-of-use in a wide range of standard materials.

This Series is designed and priced to offer a superior level of value for any size machine shop. When combined with the latest CNC technology and smart controllers, outstanding flexibility, process control, tool life and part quality can be realized.



Exceptional balance of performance benefits and price are achieved by combining select design elements:

- Sub-micro grain carbide with stateof-the-art grinding techniques
- Specially engineered multiple-spiral flutes eliminate chatter
- Large cutter diameter with high profile correction ensures true-to-gage threads
- Extended milling portion allows for length-of-cut to 2XD

- Enlarged flute space for efficient chip evacuation
- End mill type shank with clamping flat for secure tool holding
- TIN T21 coating reduces chip welding and improves material flow away from cutting edge

2XD - TIN T21 COATED - 15° HELIX - SOLID

	Tool Size		Thread Size		Cutter	Cut	#	Overall	Shank	EDP No.	
	1001 3128	UNC	UNF	M	Dia.	Length	Flutes	Length	Dia.	LDF NO.	
	10	10-24	-	-	0.136	0.395	3	2 1/2"	1/4"	GFR15105.5007	
	1/4	1/4-20	_	-	0.185	0.524	3	2 1/2"	1/4"	GFR15105.5009	
	5/16	5/16-18	-	-	0.242	0.637	3	2 1/2"	1/4"	GFR15105.5010	
	3/8	3/8-16	_	_	0.301	0.780	3	2 1/2"	5/16"	GFR15105.5011	
	7/16	7/16-14	-	-	0.354	0.891	3	3"	3/8"	GFR15105.5012	
	1/2	1/2-13	-	-	0.371	1.036	3	3"	3/8"	GFR15105.5013	
	5/8	5/8-11	-	-	0.496	1.316	4	3 3/4"	1/2"	GFR15105.5015	
	3/4	3/4-10	_	-	0.621	1.548	4	4 1/4"	5/8"	GFR15105.5016	
INCH	7/8	7/8-9	-	-	0.621	1.829	4	4 1/4"	5/8"	GFR15105.5017	
_	1"-8 & 1 1/8-8	1"-8 & 1 1/8-8	_	-	0.746	2.058	4	4 3/4"	3/4"	GFR15105.5018	
	10	-	10-32	-	0.150	0.390	3	2 1/2"	1/4"	GFR15105.5041	
	1/4	-	1/4-28	-	0.203	0.517	3	2 1/2"	1/4"	GFR15105.5043	
	5/16	-	5/16-24	-	0.246	0.644	3	2 1/2"	1/4"	GFR15105.5044	
	3/8	_	3/8-24	-	0.309	0.769	3	2 1/2"	5/16"	GFR15105.5045	
	7/16	-	7/16-20	-	0.371	0.874	3	3"	3/8"	GFR15105.5046	
	1/2	_	1/2-20	_	0.371	1.023	3	3"	3/8"	GFR15105.5047	
	3/4	-	3/4-16	-	0.621	1.530	4	4 1/4"	5/8"	GFR15105.5050	
	6	-	_	M6	0.189	0.491	3	2 1/2"	1/4"	GFR15105.0060	
METRIC	8	-	_	M8	0.246	0.663	3	2 1/2"	1/4"	GFR15105.0080	
ME	10	_	_	M10	0.309	0.796	3	2 1/2"	5/16"	GFR15105.0100	
	12	-	-	M12	0.371	0.997	3	3"	3/8"	GFR15105.0112	





2XD - TIN T21 COATED - 15° HELIX - COOLANT FED

	Tool		Thread Size		Cutter	Cut	#	Overall	Shank	EDD No.	
	Size	UNC	UNF	M	Dia.	Length	Flutes	Length	Dia.	EDP No.	
	1/4	1/4-20	-	-	0.185	0.524	3	2 1/2"	1/4"	GFR35105.5009	
	5/16	5/16-18	_	-	0.242	0.637	3	2 1/2"	1/4"	GFR35105.5010	
	3/8	3/8-16	-	-	0.301	0.780	3	2 1/2"	5/16"	GFR35105.5011	
	7/16	7/16-14	_	-	0.354	0.891	3	3"	3/8"	GFR35105.5012	
	1/2	1/2-13	-	-	0.371	1.036	3	3"	3/8"	GFR35105.5013	
	5/8	5/8-11	_	-	0.496	1.316	4	3 3/4"	1/2"	GFR35105.5015	
	3/4	3/4-10	-	-	0.621	1.548	4	4 1/4"	5/8"	GFR35105.5016	
	7/8	7/8-9	-	-	0.621	1.829	4	4 1/4"	5/8"	GFR35105.5017	
INCH	1" & 1 1/8	1"-8 & 1 1/8-8	-	-	0.746	2.058	4	4 3/4"	3/4"	GFR35105.5018	
ž	10	-	10-32	-	0.150	0.390	3	2 1/2"	1/4"	GFR35105.5041	
	1/4	-	1/4-28	-	0.203	0.517	3	2 1/2"	1/4"	GFR35105.5043	
	5/16	_	5/16-24	_	0.246	0.644	3	2 1/2"	1/4"	GFR35105.5044	
	3/8	-	3/8-24	-	0.309	0.769	3	2 1/2"	5/16"	GFR35105.5045	
	7/16	_	7/16-20	-	0.371	0.874	3	3"	3/8"	GFR35105.5046	
	1/2	-	1/2-20	-	0.371	1.023	3	3"	3/8"	GFR35105.5047	
	9/16 & 5/8	_	9/16-18 & 5/8-18	-	0.496	1.138	4	3 3/4"	1/2"	GFR35105.5048	
	3/4	-	3/4-16	-	0.621	1.530	4	4 1/4"	5/8"	GFR35105.5050	
	7/8 & 1"	_	7/8-14 & 1"-14	_	0.621	1.817	4	4 1/4"	5/8"	GFR35105.5051	
	6	-	-	M6	0.189	0.491	3	2 1/2"	1/4"	GFR35105.0060	
	8	_	_	M8	0.246	0.663	3	2 1/2"	1/4"	GFR35105.0080	
C	10	-	-	M10	0.309	0.796	3	2 1/2"	5/16"	GFR35105.0100	
METRIC	12	_	_	M12	0.371	0.997	3	3"	3/8"	GFR35105.0112	
Σ	14	-	-	M14	0.457	1.140	4	3 3/4"	1/2"	GFR35105.0114	
	16	-	_	M16	0.496	1.280	4	3 3/4"	1/2"	GFR35105.0116	
	20	-	-	M20	0.621	1.595	4	4 1/4"	5/8"	GFR35105.0120	





MultiTHREAD™ Single Plane

A Complete Line of 2XD Solid Carbide Thread Mills, Plus 3XD Sizes for Maximum Reach



Miniature size thread mills provide a high-quality, dependable threading solution for a variety of materials.

Standard sizes provide manufacturers a ready tooling solution which allows for quick adaptation to a variety of threading requirements in a wide range of materials.

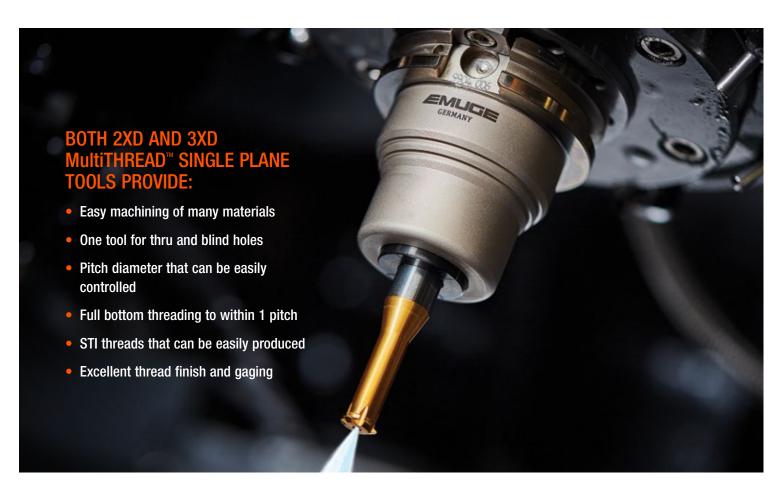
- TIN T21 coating reduces chip welding and improves material flow away from cutting edge
- Requiring only 8 stock standard tool sizes,
 #10 1/4 5/16 3/8 7/16 1/2 5/8 3/4,
 it is now possible to produce 100+ commonly produced screw thread designations
- In addition, MultiTHREAD tools provide total control over pitch diameter limits including 2B ● 3B ● 3BG ● and all oversize variants
- One tool produces multiple thread sizes

2XD - TIN T21 COATED - 0° HELIX

	Tool	Thread Size									Cutter	Cut	#	Overall	Shank	Shank	EDP No.
	Size	UNC	UNF	STI UNC	STI UNF	UNEF	UNJC	UNJF	M	MJ	Dia.	Length	Flutes	Length	Dia.	Type	EDI 140.
	0	-	0-80	-	-	-	-	0-80	1.6 x .35	1.6 x .35	0.045	0.125	1	1 5/8"	1/8"	НА	GFS13705.5033 •
	1	1-64	1-72	_	_	_	1-64	1-72	2 x .4	2 x .4	0.056	0.146	3	1 5/8"	1/8"	НА	GFS23705.5000 •
	2	2-56	2-64	1-64	_	-	2-56	2-64	2.5 x .45	2.5 x .45	0.064	0.172	3	1 5/8"	1/8"	HA	GFS23705.5001 •
IZES	4	4-40	4-48	2-56	_	_	4-40	4-48	_	_	0.081	0.224	3	1 5/8"	1/8"	HA	GFS23705.5003 •
ÆS	STI 4	-	-	4-40	4-48	-	-	-	_	-	0.117	0.295	3	1 5/8"	1/8"	HA	GFS23705.5611 •
MINIATURE SIZES	5	5-40	5-44	_	_	_	5-40	5-44	3 x .5	3 x .5	0.095	0.250	3	1 5/8"	1/8"	HA	GFS23705.5004 •
Z	6	6-32	6-40	-	_	-	6-32	6-40	_	-	0.100	0.276	3	1 5/8"	1/8"	HA	GFS23705.5005 •
	STI 6	-	-	6-32	6-40	-	-	-	5 x .8	5 x .8	0.143	0.364	3	2 1/2"	1/4"	НВ	GFS23105.5613 •
	8	8-32	8-36	-	-	-	8-32	8-36	4 x .7	4 x .7	0.124	0.328	3	1 5/8"	1/8"	HA	GFS23705.5006 •
	STI 8	_	_	8-32	8-36	1/4-32	-	_	-	_	0.167	0.415	3	2 1/2"	1/4"	НВ	GFS23105.5614 •
	10	10-24	10-32	10-24	10-32	-	10-24	10-32	-	-	0.136	0.380	3	2 1/2"	1/4"	НВ	GFS23105.5007 •
	1/4	1/4-20	1/4-28	1/4-20	1/4-28	5/16-32	1/4-20	1/4-28	6 x 1	6 x 1	0.185	0.500	3	2 1/2"	1/4"	HB	GFS23105.5009 •
ZES	5/16	5/16-18	5/16-24	5/16-18	5/16-24	3/8-32	5/16-18	5/16-24	8 x 1.25	8 x 1.25	0.242	0.625	4	2 1/2"	1/4"	НВ	GFS33105.5010 A
S OS	3/8	3/8-16	3/8-24	3/8-16	3/8-24	7/16-28	3/8-16	3/8-24	10 x 1.5	10 x 1.5	0.301	0.750	5	2 1/2"	5/16"	НВ	GFS33105.5011
STANDARD SIZES	7/16	7/16-14	7/16-20	7/16-14	7/16-20	1/2-28	7/16-14	7/16-20	12 x 1.75	12 x 1.75	0.354	0.875	5	3"	3/8"	НВ	GFS33105.5012
STA	1/2	1/2-13	1/2-20	1/2-13	1/2-20	5/8-24	1/2-13	1/2-20	14 x 2	14 x 2	0.407	1.000	5	3 3/4"	1/2"	НВ	GFS33105.5013
	5/8	5/8-11	5/8-18	5/8-11	5/8-18	3/4-20	5/8-11	5/8-18	16 x 2	16 x 2	0.512	1.250	5	3 3/4"	1/2"	НВ	GFS33105.5015
	3/4	3/4-10	3/4-16	3/4-10	3/4-16	7/8-20	3/4-10	3/4-16	20 x 2.5	20 x 2.5	0.630	1.500	6	4 1/4"	5/8"	НВ	GFS33105.5016

[•] With external flood coolant only • With external flood coolant or axial internal coolant hole (MINIATURE SIZES EXTERNAL COOLANT ONLY) Shank Types: HA-Straight shank without clamping flat, HB-Straight shank with Weldon clamping flat

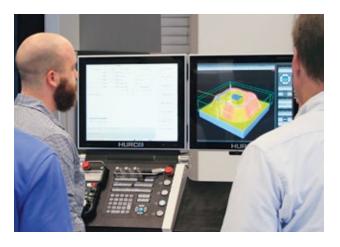




3XD - TIN T21 COATED - 0° HELIX

	Tool			Thread Size			Cutter	Cut	#	Overall	Shank Dia.	Shank	EDP No.
	Size	UNC	UNF	STI UNC	STI UNF	M	Dia.	Length	Flutes	Length		Туре	EDP NO.
ZES	2	2-56	2-64	2-56	2-64	M 2.2	0.067	0.258	3	1.625	1/8"	HA	GFS83705.5001 •
RESI	4	4-40	4-48	4-40	4-48	M 3	0.085	0.336	3	1.625	1/8"	HA	GFS83705.5003 •
MINIATURE SIZES	6	6-32	6-40	6-32	6-40	M 3.5	0.106	0.414	3	1.625	1/8"	HA	GFS83705.5005 •
N N	8	8-32	8-36	8-32	8-36	_	0.132	0.492	3	1.750	3/16"	HA	GFS83705.5006 •
	10	10-24	_	10-24	_	M 5	0.146	0.570	3	1.875	3/16"	HA	GFS83705.5007 •
		-	10-32	-	10-32	-	0.154	0.570	4	1.875	3/16"	HA	GFS83705.5041 •
	1/4	1/4-20	_	1/4-20	_	M 6	0.195	0.750	4	2.375	1/4"	HB	GFS83105.5009 •
		_	1/4-28	_	1/4-28	_	0.207	0.750	4	2.375	1/4"	HB	GFS83105.5043 •
S	5/16	5/16-18	-	5/16-18	_	M 8	0.248	0.937	4	2.563	5/16"	HB	GFS83105.5010 ▲
SIZI		-	5/16-24	-	5/16-24	-	0.260	0.937	5	2.563	5/16"	HB	GFS83105.5044 ▲
STANDARD SIZES	3/8	3/8-16	_	3/8-16	_	M 10	0.303	1.125	5	2.750	5/16"	HB	GFS83105.5011 ▲
IAND		_	3/8-24	_	3/8-24	_	0.323	1.125	5	2.875	3/8"	HB	GFS83105.5045 ▲
S	7/16	7/16-14	-	7/16-14	_	M 12	0.354	1.312	5	3.125	3/8"	HB	GFS83105.5012 ▲
	1/10	-	7/16-20	-	7/16-20	-	0.376	1.312	5	3.060	3/8"	HB	GFS83105.5046 ▲
	1/2	1/2-13	1/2-20	1/2-13	1/2-20	_	0.409	1.500	5	3.625	1/2"	HB	GFS83105.5013 ▲
	5/8	5/8-11	5/8-18	5/8-11	5/8-18	M 16	0.514	1.875	5	4.125	5/8"	HB	GFS83105.5015 ▲
	3/4	3/4-10	3/4-16	3/4-10	3/4-16	_	0.630	2.250	6	4.500	5/8"	HB	GFS83105.5016 ▲

[•] With external flood coolant only A With external flood coolant or axial internal coolant hole (MINIATURE SIZES EXTERNAL COOLANT ONLY)
Shank Types: HA-Straight shank without clamping flat, HB-Straight shank with Weldon clamping flat



Thread Milling Programming Support

- Remote or onsite support available.
- On-staff EMUGE CNC programmers develop machining cycles in conjunction with the most popular CAD/CAM providers.
- Dedicated application engineering and CAM software team assistance enables cost-effective and efficient manufacturing solutions as well as designs that allow for optimum performance.
- EMUGE-FRANKEN N.A. Technology Center also offers a test cut service that allows manufacturers to run test cuts on actual piece parts or sample materials and also 3-Axis and 5-Axis programming assistance along with programming simulations when required.

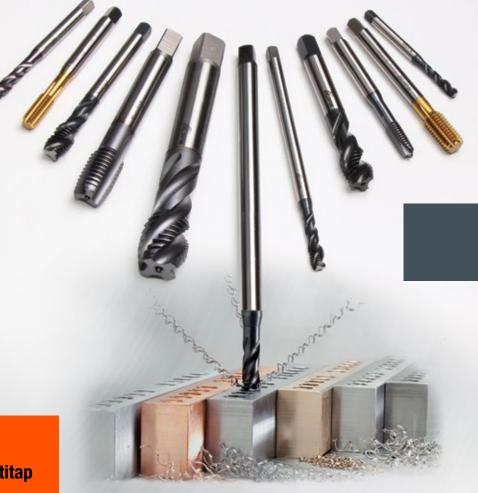
Also ask for the original EMUGE MultiTAP line of taps.



From cut taps to form taps, extended lengths to different coatings, EMUGE-FRANKEN, the developer and leader of the high performance multi-purpose tap, offers the broadest line in the industry.

To learn more, visit:

www.emuge.com/products/taps/multitap





1800 Century Drive, West Boylston, MA 01583

800-991-4225 • www.ahbinc.com

EMUGE-FRANKEN has been the product technology and performance leader in their field for over 100 years.

EMUGE-FRANKEN 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.