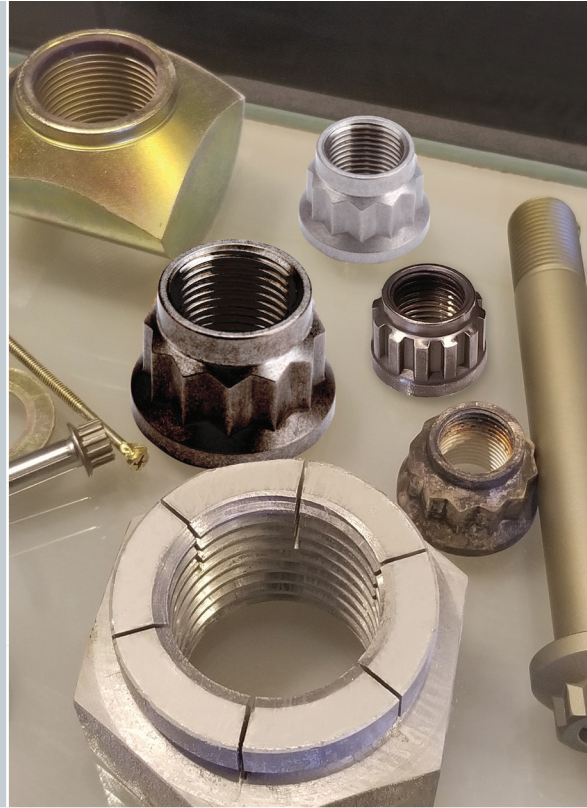


NEW

# EMUGE



## AERO-HSF TAPS FOR AEROSPACE FASTENERS

# HSF TAPS FOR AEROSPACE FASTENER SOLUTIONS

Aircraft components are often required to withstand extreme shock, G-force, vibration and thermal stress, making it crucial that the selected fasteners are of the highest quality. **Now you can assure the highest quality by using the industry's best – Emuge.** Emuge Aero-HSF Series Taps are designed specifically for the aerospace fastener industry and provide unmatched performance, thread quality and tool life. Aero-HSF Taps were developed for high speed tapping applications in a wide range of materials that are common in the aerospace fastener industry.



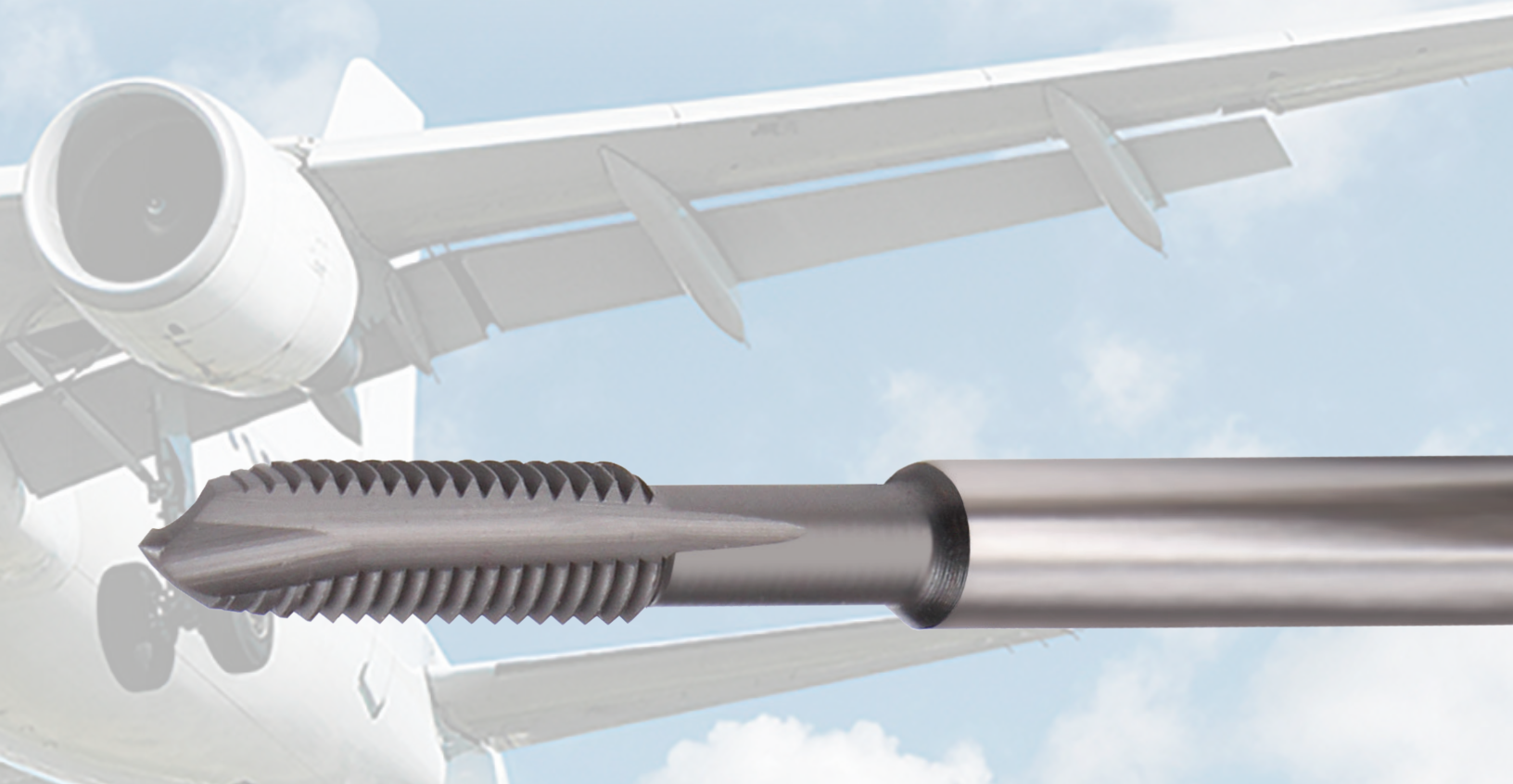
## Features:

- Uniquely suited to threading aerospace fasteners in high speed production
- Premium HSS-E
- Increased wear resistance in highly abrasive materials
- Spiral Point with B-Chamfer
- For through-hole applications
- Proprietary GLT-1 anti-friction coating improves wear resistance for extended tap life
- Standard ANSI shank and length
- Specialized geometry for fastener materials such as A286, 17-4PH, 15-5 PH, 304, 304L, 303 and others
- Wide range of aerospace materials

*Emuge quality, performance, and reliability – the gold standard in taps*

## AERO-HSF PLUG TAPS - GLT-1 COATING

	Tap Size	Pitch	H3	H4	
UNC	6	32	AX321008.5005	AX321007.5005	
	8	32	AX321008.5006	AX321003.5006	
	10	24	AX321003.5007	AX321004.5007	
	1/4	20	AX321008.5009	AX321004.5009	
	5/16	18	AX321003.5010	AX321004.5010	
	3/8	16	AX321003.5011	AX321004.5011	
	7/16	14	AX321003.5012	AX321004.5012	
	1/2	13	AX321003.5013	AX321004.5013	
	5/8	11	AX321001.5015	-	
	3/4	10	AX321001.5016	-	
	7/8	9	-	-	
UNF	6	40	AX321001.5039	AX321002.5039	
	8	36	AX321003.5040	AX321004.5040	
	10	32	AX321013.5041	AX321009.5041	
	12	28	AX321003.5042	AX321004.5042	
	1/4	28	AX321010.5043	AX321014.5043	
	5/16	24	AX321007.5044	AX321008.5044	
	3/8	24	AX321003.5045	AX321004.5045	
	7/16	20	AX321003.5046	AX321004.5046	
	1/2	20	AX321009.5047	AX321004.5047	
	9/16	18	AX321003.5048	-	
	5/8	18	AX321003.5049	-	
	3/4	16	AX321010.5050	-	
	7/8	14	-	-	
1	12	-	-		



	H5	H6	H7	H8	H9	H10	H11	H12
	AX321003.5005	AX321006.5005	AX321004.5005	AX321005.5005	AX321009.5005	AX321010.5005	AX321011.5005	-
	AX321004.5006	AX321005.5006	AX321006.5006	AX321007.5006	AX321009.5006	AX321010.5006	AX321011.5006	-
	AX321005.5007	AX321006.5007	AX321007.5007	AX321008.5007	AX321009.5007	AX321010.5007	AX321002.5007	-
	AX321005.5009	AX321006.5009	AX321007.5009	AX321002.5009	AX321003.5009	AX321010.5009	AX321009.5009	-
	AX321005.5010	AX321006.5010	AX321007.5010	AX321008.5010	AX321001.5010	AX321002.5010	AX321009.5010	-
	AX321005.5011	AX321006.5011	AX321007.5011	AX321008.5011	AX321009.5011	AX321010.5011	AX321002.5011	-
	AX321005.5012	AX321006.5012	AX321007.5012	AX321008.5012	AX321009.5012	AX321001.5012	AX321002.5012	-
	AX321005.5013	AX321006.5013	AX321007.5013	AX321008.5013	AX321009.5013	AX321010.5013	AX321002.5013	-
	AX321002.5015	-	-	-	-	-	-	-
	AX321002.5016	-	-	-	-	-	-	-
	-	AX321001.5017	-	-	-	-	-	-
	AX321003.5039	AX321004.5039	AX321005.5039	AX321006.5039	AX321007.5039	AX321008.5039	AX321009.5039	-
	AX321005.5040	AX321001.5040	AX321007.5040	AX321008.5040	AX321009.5040	AX321002.5040	AX321006.5040	-
	AX321006.5041	AX321004.5041	AX321005.5041	AX321007.5041	AX321011.5041	AX321010.5041	AX321011.5041	AX321012.5041
	AX321005.5042	AX321001.5042	AX321007.5042	AX321008.5042	AX321009.5042	AX321002.5042	AX321006.5042	-
	AX321006.5043	AX321005.5043	AX321007.5043	AX321008.5043	AX321009.5043	AX321012.5043	AX321013.5043	AX321011.5043
	AX321005.5044	AX321006.5044	AX321002.5044	AX321003.5044	AX321004.5044	AX321010.5044	AX321009.5044	-
	AX321005.5045	AX321006.5045	AX321001.5045	AX321002.5045	AX321009.5045	AX321007.5045	AX321008.5045	-
	AX321005.5046	AX321001.5046	AX321007.5046	AX321002.5046	AX321009.5046	AX321008.5046	AX321006.5046	-
	AX321005.5047	AX321006.5047	AX321007.5047	AX321008.5047	AX321003.5047	AX321010.5047	AX321011.5047	-
	AX321005.5048	AX321006.5048	AX321007.5048	AX321004.5048	AX321001.5048	-	AX321002.5048	-
	AX321005.5049	AX321006.5049	AX321007.5049	AX321008.5049	AX321004.5049	AX321002.5049	AX321001.5049	-
	AX321005.5050	AX321006.5050	AX321007.5050	AX321008.5050	AX321009.5050	AX321003.5050	AX321004.5050	-
	-	AX321006.5051	AX321007.5051	AX321005.5051	AX321004.5051	AX321001.5051	AX321003.5051	AX321002.5051
	-	AX321001.5052	AX321007.5052	AX321006.5052	AX321005.5052	AX321004.5052	AX321003.5052	AX321002.5052



*Ask about our*

## KSN Tool Holders

Visit [emuge.com/products/KSNholders](http://emuge.com/products/KSNholders) for more information.

### KSN Quick-Change Holders

- Accommodates all Aero-HSF tap sizes
- Length compensation on tension / compression
- Patented pressure-point mechanism guarantees a safe start of the thread cutting process
- Front release feature protects against damage from excessive axial tension
- Uses EM quick-change adapters



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