April 2021
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NPA

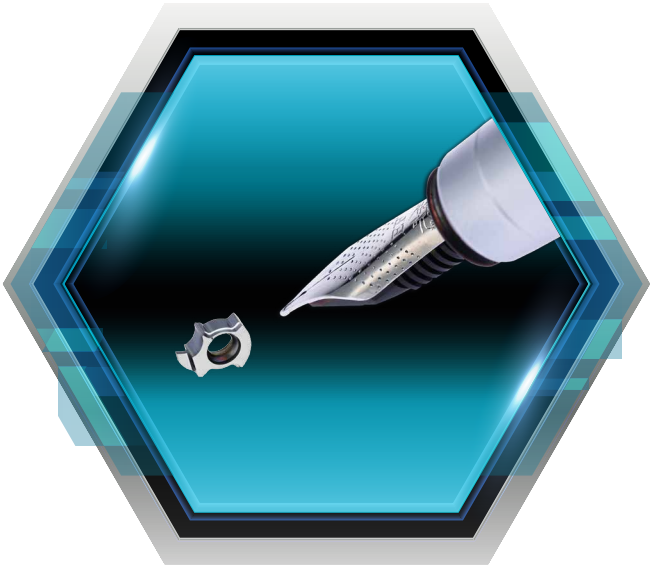
New Product Announcement No. 2021-10

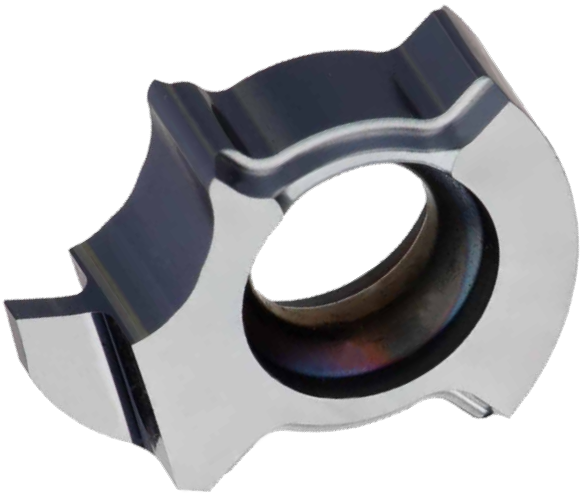
expansion

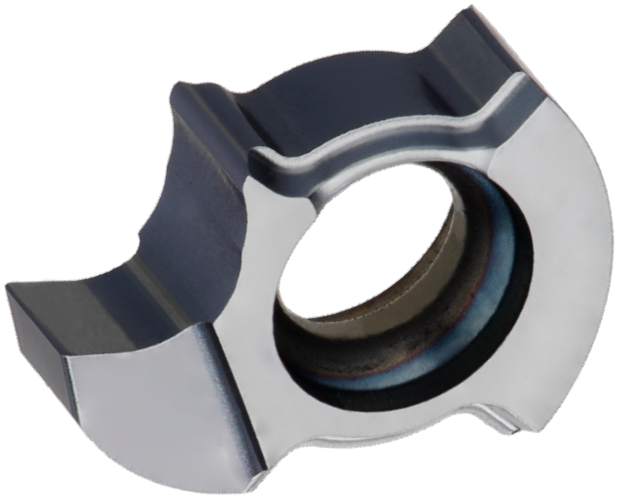
Speed to Feed

MINIRUSH
INTERNAL GROOVING

TT8020 Grade for TMIS 8... Inserts







ADVANCE MACHINING
TaeguTec Industry 4.0

INDUSTRY 4.0
TaeguTec
Member IMC Group

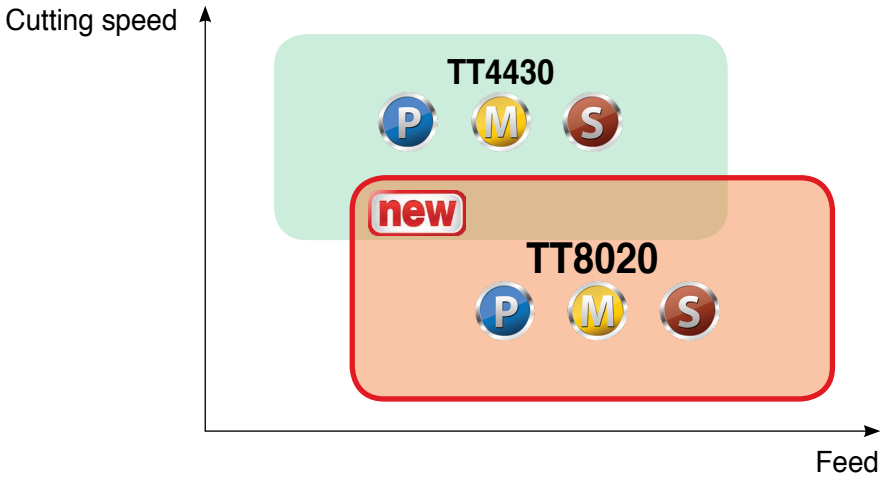
KEY POINT

TaeguTec has added the TT8020 grade to the MINI-I-RUSH line.

Taegutec has added the high toughness TT8020 grade to the MINI-I-RUSH line that has been providing excellent tool life and surface finish for small diameter grooving applications.

Due to the grade's toughness, it provides advantages; it prevents sudden breakage caused by chips, excellent performance in low-speed machining and excellent performance even in unstable machining conditions.

With the introduction of the high toughness TT8020 grade, the MINI-I-RUSH line can be applied to a wide variety of materials and applications.



Features

- TT8020 high toughness grade
- Suitable for low-speed and unstable machining
- Prevents sudden breakage during machining

Availability

In stock

Price

Available in the GAL system

Sincerely,
TaeguTec

Bae-dae-wi
Non-Rotating General PM

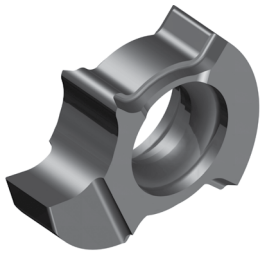
Sincerely,
TaeguTec

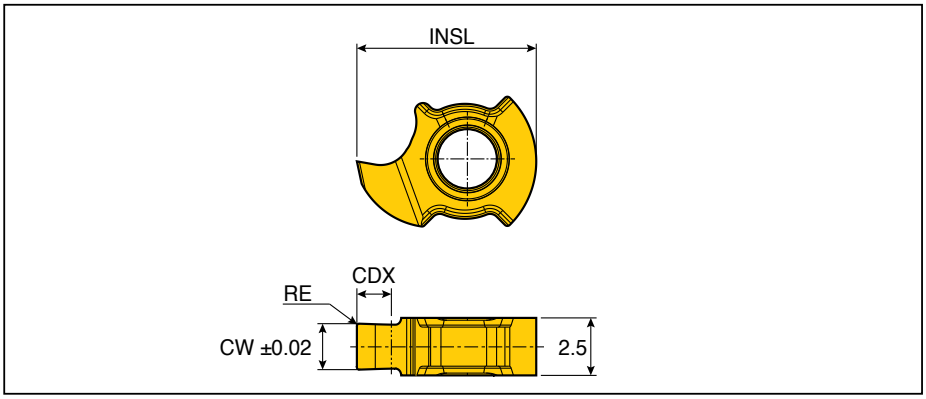
Cha-byung-jae
T-Clamp & Threading Product Manager

TMIS 8

MINIRUSH INTERNAL GROOVING

Precise inserts for internal shallow grooving on small diameter





Designation		Feed (mm/rev)	Dimension (mm)				Grade	
			CW	RE	CDX	INSL	TT4430	new TT8020
TMIS	**8-0.50-0.00**	0.01-0.03	0.50	0.00	0.70	7.8	●	●
	8-1.00-0.00	0.01-0.03	1.00	0.00	1.50	7.8	●	●
	8-1.50-0.05	0.01-0.03	1.50	0.05	1.50	7.8	●	●
	8-2.00-0.10	0.01-0.03	2.00	0.10	1.50	7.8	●	●

●: Standard items

Recommended Cutting Conditions

ISO	Material		Condition	Tensile strength (N/mm^2)	Hardness HB	Material No.	Cutting speed Vc(m/min)	
							TT4430	TT8020
P	Non-alloy steel, cast steel, free cutting steel	<0.25%C	Annealed	420	125	1	100-130	80-110
		>=0.25%C	Annealed	650	190	2	60-90	50-80
		<0.55%C	Quenched and tempered	850	250	3		
		>=0.55%C	Annealed	750	220	4	60-100	50-90
			Quenched and tempered	1000	300	5		
	Low alloy steel and cast steel (less than 5% of alloying elements)		Annealed	600	200	6	60-100	40-70
			Quenched and tempered	930	275	7	70-100	40-60
				1000	300	8		
				1200	350	9	60-80	30-50
	High alloy steel, cast steel and tool steel		Annealed	680	200	10	60-80	30-50
			Quenched and tempered	1100	325	11	50-70	30-40
M	Stainless steel and cast steel		Ferritic / martensitic	680	200	12	50-110	40-80
			Martensitic	820	240	13		
			Austenitic	600	180	14	40-110	30-80
K	Gray cast iron (GG)		Ferritic		160	15		
			Pearlitic		250	16		
	Cast iron nodular (GGG)		Ferritic		180	17		
			Pearlitic		260	18		
	Malleable cast iron		Ferritic		130	19		
			Pearlitic		230	20		
N	Aluminum - wrought alloy		Not cureable		60	21		
			Cured		100	22		
	Aluminum-cast, alloyed	<=12% Si	Not cureable		75	23		
			Cured		90	24		
		>12% Si	High temp.		130	25		
	Copper alloys	>1% Pb	Free cutting		110	26		
			Brass		90	27		
			Electrolitic copper		100	28		
	Non-metallic		Duroplastics, fiber plastics			29		
			Hard rubber			30		
S	High temp. alloys	Fe based	Annealed		200	31	20-30	15-25
			Cured		280	32	15-25	10-15
		Ni or Co based	Annealed		250	33	15-20	10-15
			Cured		350	34	15-20	10-15
			Cast		320	35	15-20	10-15
	Titanium, Ti alloys			Rm 400		36	80-100	60-80
			Alpha+beta alloys cured	Rm 1050		37	20-40	15-30

Steel Stainless steel Cast iron Nonferrous High temp. alloys