November 2018 www.taegutec.com

1/6

NGUUS



new

New Specialized Chip Breaker Line for Specific Materials Launched

0

0

0

0

0

0



26

KEY POINT

TaeguTec has introduced a new T-CLAMP chip breaker product line focused on specific workpiece materials.

Two new chip breaker types: TDUF and TDV inserts

The **TDUF** chip breaker's unique shape is specifically designed for the machining of chrome-nickel alloy steel, low carbon steel and offers exceptional performance when machining bearing steel. Performance wise, the new insert demonstrates excellent chip control in low feed cutting conditions during machining.

For excellent performance in both stainless steel and mild steel machining, the **TDV** insert is especially suited because of its sharp cutting edges and wide chip grooves which generates a low cutting load during operations. The result is excellent chip segmenting, which prevents the occurrence of built-up-edges. As such, the **TDV** chip breaker is the perfect solution for small diameter workpieces, as well as tubes, because of superior chip control under low feed cutting conditions resulting in excellent tool life. The **TDV** line has one further advantage, it also generates a precision flat bottom surface in grooving applications.

TDUF Insert Features

- Suitable for the machining of chrome-nickel alloy steel and low carbon steel
- Exceptional performance in bearing steel machining
- Specialized for low feed cutting conditions
- Excellent chip control

TDV Insert Features

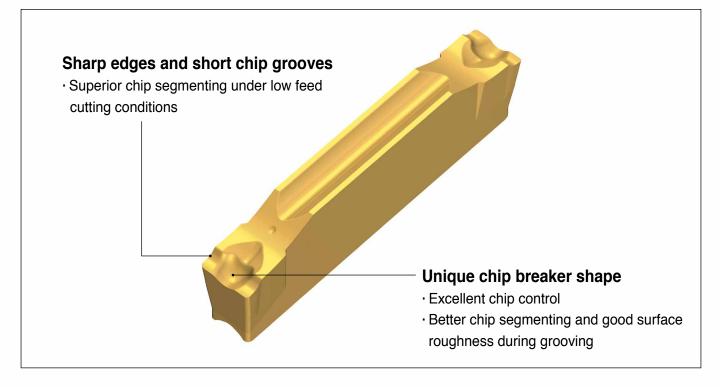
- Sharp cutting edges and a wide chip groove that generates low cutting load during operations
- Superior chip segmenting power, which reduces built-up-edges
- Excellent performance in stainless steel and mild steel machining
- Optimally designed for small size workpieces, and tubes, in low feed cutting conditions
- Capable of precision flat surfaces during grooving



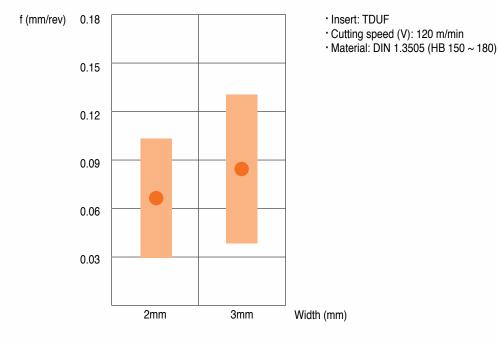


3/6

TDUF Insert



TDUF Insert Recommended Feed Range









TDUF chip segmenting and surface roughness comparison test 1

Bearing steel (DIN 1.3505), cutting speed=120 m/min

	TDUF 2		Compe	etitor A	Competitor B	
feed (mm/rev)	0.03	0.05	0.03	0.05	0.03	0.05
Chip	ě	Co		AND	°°	06
Surface	feed=0.03(mm/rev)		feed=0.03(mm/rev)		feed=0.03(mm/rev)	

TDUF chip segmenting comparison test 2

Low carbon steel (AISI 1020), cutting speed=150 m/min

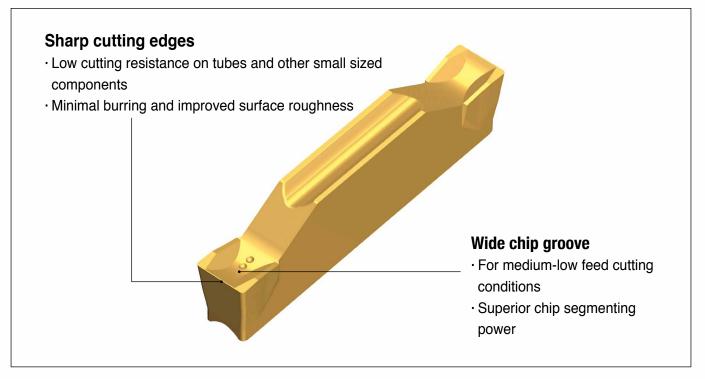
	TDUF 2			Competitor A			Competitor B		
feed (mm/rev)	0.03	0.05	0.08	0.03	0.05	0.08	0.03	0.05	0.08
Chip	9	(ک	ງງ	\$	Strater,	0 %	all have	and the second se	0

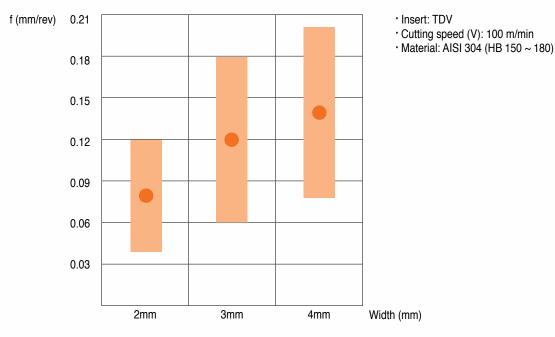




5/6

TDV Insert





TDV Insert Recommended Feed Range



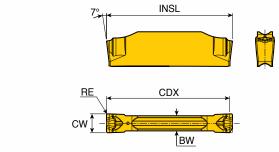


6/6

6

TDUF

Double ended inserts for parting and grooving with UF type chip breaker



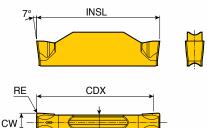
Size	Dimension (mm)						
Size	CW	RE	BW	INSL	CDX		
2	2	0.2	1.5	20	19		
3	3	0.2	2.4	20	19		

Insert		Insert	Feed (mm/rev)	Coated
	Designation	seat		TT9080
R.	TDUF 2	2	0.03-0.11	•
	3	3	0.04-0.13	•

•: Standard item

TDV

Double ended inserts for parting and grooving with V type chip breaker



Îвw

Cizo	Dimension (mm)						
Size	CW	RE	BW	INSL	CDX		
2	2	0.2	1.7	20	19		
3	3	0.2	2.4	20	19		
4	4	0.3	3.0	20	19		

Insert	Designation	Insert seat size	Feed (mm/rev)	Coated		
				TT9080	TT8020	
	TDV 2	2	0.04-0.12	•	•	
	3	3	0.06-0.18	•	•	
	4	4	0.08-0.20	•	•	

•: Standard item

