NPA

NEW

New Product Announcement

Member IMC Group Ingersoll Cutting Tools

PARTING & GROOVING

Series

TDXC

Features

Double-Ended

Compatible with all T-Clamp Ultra+ Holders

Applications

External Turning, Grooving & Parting

Internal Turning & Grooving

Face Turning & Grooving

Insert Widths

2,3,4,5, and 6 mm

Grades

TT6080 – PVD coated for maximum wear resistance.

TT9080 – PVD coated for general purpose in variety of materials

TT8020 – PVD coated with very tough substrate for difficult applications

K10 – uncoated for aluminum alloys and non-ferrous materials

Materials

- Steel
- Stainless Steel
- Cast Iron
- Non-Ferrous
- Super Alloys

TCLAMP™

Multi-purpose TDXC Insert for Grooving and Turning Applications

» Reinforced edge allows for higher feeds when grooving (compared to TDXU)

» Consistent machining performance, even in interrupted cuts

» Full compatible with existing T-Clamp Ultra+ holders

See it in action! »

WINSFEED™ ADVANCED MACHINING

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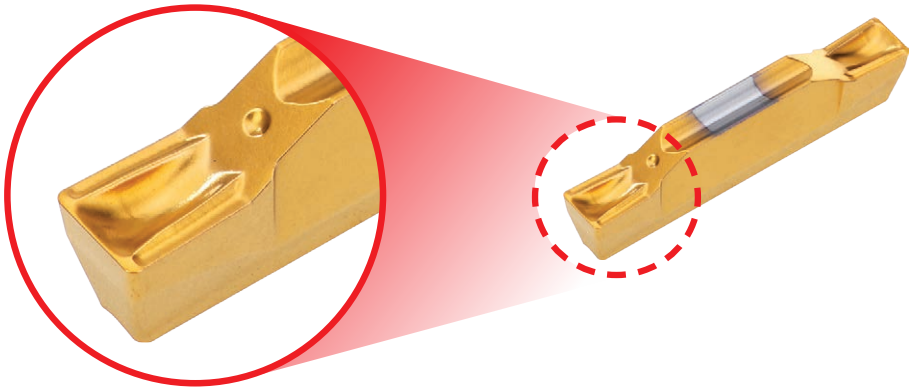
Ingersoll introduces the new TDXC type insert, a new multipurpose grooving and turning line

With a strong cutting edge allowing for high-feed parting and grooving applications, this double-ended insert's built-in chip breaker is also capable of turning.

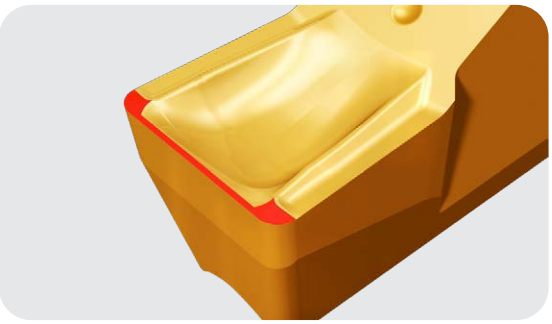
Features & Benefits

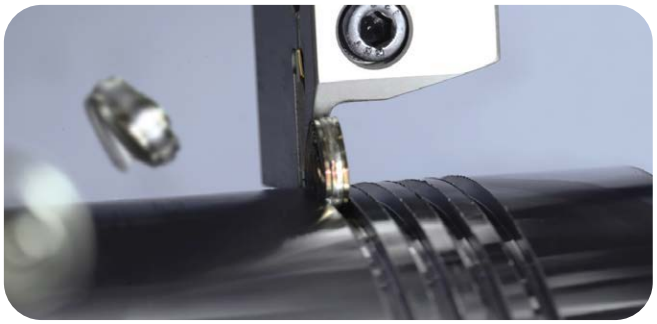
- Multi-purpose chip breaker for grooving, parting and turning
- Reinforced edge for high feed grooving and parting applications
- Stable machining performance in both interrupted and unstable conditions
- Optimized turning chip breaker according to depth of cut
- Available in 2, 3, 4, 5 and 6 mm width sizes
- Compatible with existing standard holders and optimal performance with COOL-BURST (high-pressure) type holders



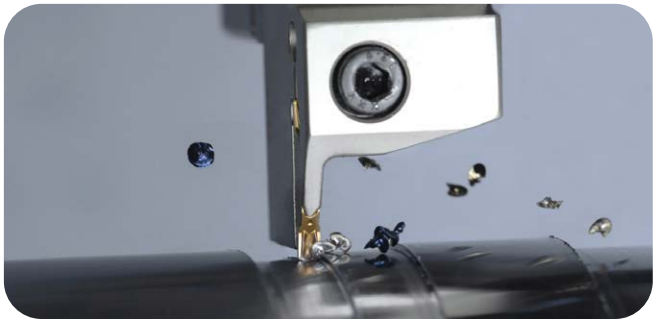
Features

• Reinforced front edge for stable cutting in parting and grooving operations

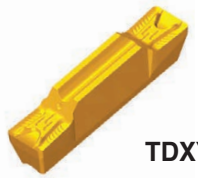




• Optimized chip breaker shape for excellent chip breaking in turning operations

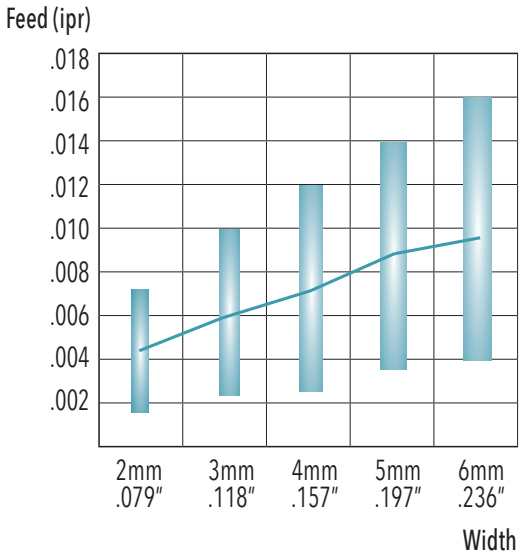


Multifunctional Chip Breaker Features

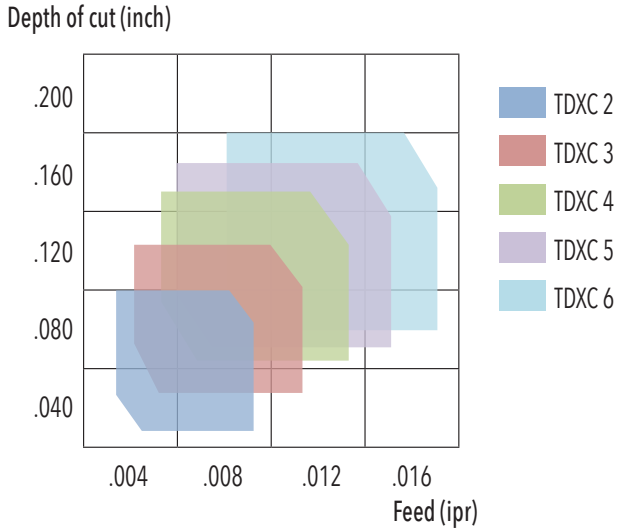
Chip breakers	Applications and Features
 TDXC	- Stable cutting edge and flat bottom surface machining in grooving and parting - Covers C-type chip breaker applications including a built-in chip breaker for turning applications - Medium-to-high feed range - Steel, cast iron, stainless steel and heat resistant alloys
 TDXY	- Suitable for wide groove side turning - Good chip control when face grooving and face turning - Flat bottom surface machining - Steel, cast iron, stainless steel and heat resistant alloys
 TDXU	- 1st choice for general purpose machining in groove-turn applications - Multifunctional chip breaker for external, internal and face machining - Low cutting force and good chip control - Medium-to-hign feed grooving, low-to-medium feed turning - Steel, stainless steel and heat resistant alloys
 TDXT	- 1st choice for turning and grooving of cast iron - Turning and grooving with various geometries - Cast iron and steel - High feed rate for turning

Recommended Application Range - TDXC Type

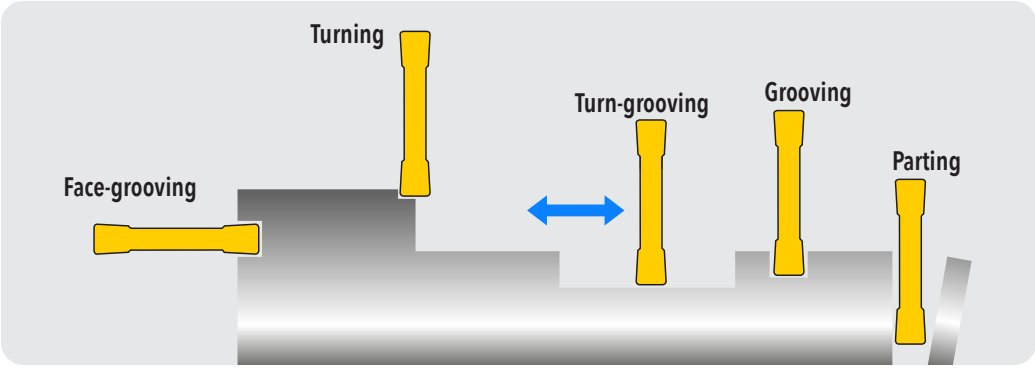
- Grooving



– Turning



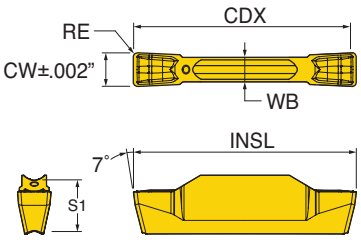
Wide Variety of Applications



OD Groove | OD Groove/ Turn | Parting | ID Groove/ Turn | Face Groove/ Turn

Series TDXC

DOUBLE-ENDED INSERTS FOR GROOVING, TURNING, FACE GROOVING & PARTING



Size	Dimensions (inch)					
	CW Cutting Width	RE Corner Radius	WB Body Width	INSL Insert Length	CDX Cutting Dep. Max.	S1 Thick. (Overall)
2	.079" (2 mm)	.012	.067	.79	.748	.185
3	.118" (3 mm)	.012	.087	.79	.748	.185
4	.157" (4 mm)	.016	.118	.79	.748	.185
5	.197" (5 mm)	.016	.157	.98	.945	.205
6	.236" (6 mm)	.016	.197	.98	.945	.205

Part Number	SSC Insert Seat Size	Turning				Grooving		Grade			
		ap (inch)		fn (ipr)		fn (ipr)		TT6080	TT9080	TT8020	K10
		Min.	Max.	Feed Min.	Feed Max.	Feed Min.	Feed Max.				
INCH											
TDXC 2E-0.3	2	.016	.047	.005	.007	.002	.007	•	•	•	•
TDXC 3E-0.3	3	.016	.070	.006	.007	.003	.010	•	•	•	•
TDXC 4E-0.4	4	.020	.094	.007	.009	.003	.012	•	•		•
TDXC 5E-0.4	5	.020	.118	.008	.012	.004	.014	•	•		•
TDXC 6E-0.4	6	.020	.142	.009	.014	.005	.016	•	•		•

For cutting speed guidelines and a list of recommended holders, please visit the eCatalog at www.ingersoll-imc.com.

• = Standard Items