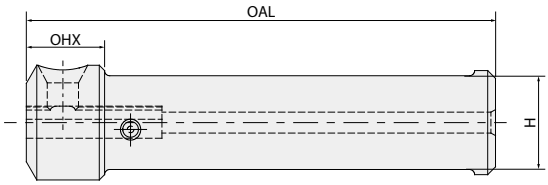
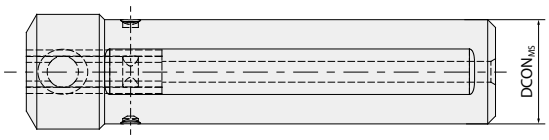
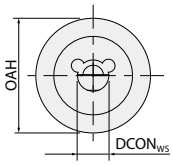
Boring ToolHolder

Holder NEW







Scale	Insert Size ($DCON_{WS}$)	Designation	EDP	$DCON_{MS}$	OAL	H	OAH	OHX
Metric (mm)	4	NCHI - 12.4	ZBR0400012	12	70	10	15.5	14
		NCHI - 16.4	ZBR0400016	16	75	14	17.5	
		NCHI - 20.4	ZBR0400020	20	90	18	20	
		NCHI - 22.4	ZBR0400022	22	110	20	22	
		NCHI - 25.4	ZBR0400025	25	110	23	25	
	6	NCHI - 12.6	ZBR0600012	12	70	10	16.5	
		NCHI - 16.6	ZBR0600016	16	75	14	18.5	
		NCHI - 20.6	ZBR0600020	20	90	18	22	
		NCHI - 22.6	ZBR0600022	22	110	20	22	
		NCHI - 25.6	ZBR0600025	25	110	23	25	

Overview

At present, as demand for small parts (camera lens, mobile phone parts) and medical instruments (implants) increases, demand for small-diameter products capable of high-precision processing is increasing.

Application

- Turning of Small Bore Components
- Internal Turning(Boring), Grooving and Threading

Features

- Minimum Diameter(Boring & Profiling series) : Ø 1 mm
- Internal Coolant for Longer Tool life and Enhanced Chip Evacuation
- Secure Connection Design: Pin + Slant Positioning
- 10 Geometries for Various Applications

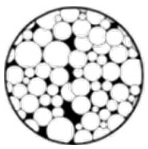
Benefits

- Reduced Machine Down Time
- Lower Machining Cost

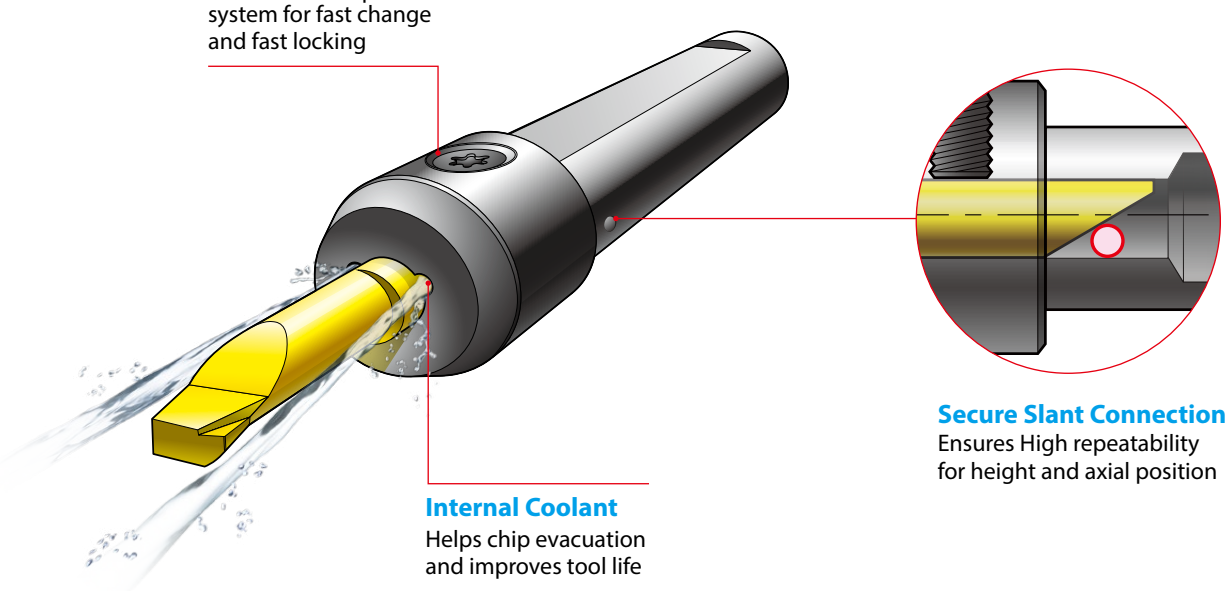
YG812 - Micro Grain Carbide Grade

P10 - P20 | M20 - M30
K20 - K30 | S10 - S25

Submicron Grade Carbide Substrate Material for high toughness and wear resistance realizes high precision machining



Advantages of Nanocut



Code Keys - Boring Tool & Holder

Boring Tool

NC	BP	4	R	-	10.	04	-	005	-	YG812
Nanocut	Series: BP – Boring & Profiling	Connection Diameter (DCON) (4 mm)	Tool Direction: R – Right Hand, L – Left Hand		Minimum Bore Diameter (DMIN) (1 mm)	Usable Length (LU) (4 mm)		Corner Radius (RE) (0.05 mm)		Grade

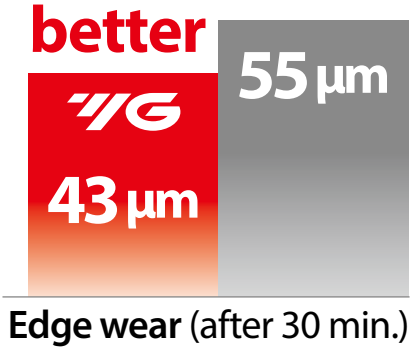
Holder

NC	H	I	-	16.	04	(i)
Nanocut	Holder	I – Internal		$DCON_{MS}$	$DCON_{WS}$	Inch

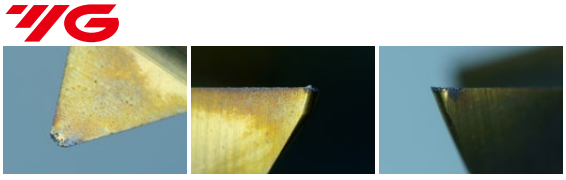
Success Story

Cutting Conditions

Size	Ø 6 mm, R 0.2 mm
Work Material	SCM440 (HRc 20)
Cutting Speed	100 m/min.
RPM	637 rev./min.
Feed per Revolution	0.1 mm/rev.
Boring Depth	Axial: 10 mm Radial: 0.15 mm
Coolant	Wet Cut
Operation	Boring
Machine	Turn Mill



Edge wear (after 30 min.)



Competitor