

## VC Collet Chuck Features

### ULTRA PERFORMANCE

**Extremely precise:** 0.00012" or less concentricity guarantee with any collet

**Extremely efficient:** Ideal for high-speed machining, thread milling, ultra precision reaming

**Flexible:** Covers sizes from 0.079" to 0.5"

**Extremely accurate:** Double the accuracy over ER Collet Chucks, with 10 times better repeatability

**8° versus 16° collet taper:** Double the gripping power of ER Collet Chucks



#### Coolant-Thru Disc:

A perfect seal is formed between the nut and the coolant-thru disk. Ideal for coolant-thru tools.



#### Coolant-Thru Capabilities:

Jet Coolant Splash with J-Type Nut



#### Slotted Disc:

The jet coolant pressure creates a tornado effect, ensuring efficient swarf disposal.



## VC Collet Chuck Features

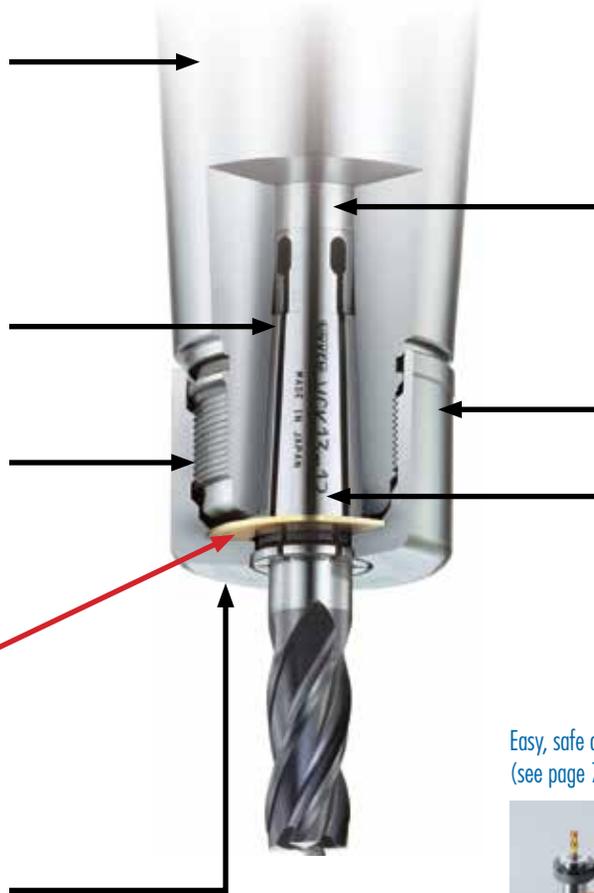
The thick wall design of the VC holder body improves cutting rigidity

8° internal taper collet for greater accuracy and clamping capability

The ground ion nitrided thread of collet chuck highly improves the torque and accuracy

**TIN BEARING NUT**  
(Hardness: HV2,200)  
US Patent 6923451  
Reduces friction to minimize runout caused by collet twisting

Collet compression force is perpendicular to the centerline of collet bore maximizing run out accuracy and gripping strength



Ground pilot helps centralize the collet while giving additional length support on the cutting tool

Symmetrical and simple external nut design without notches for ultra high speed rotation

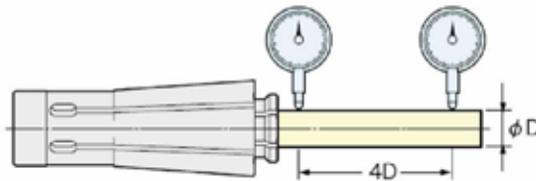
Extended Collet to minimize runout and to increase surface area contact of tooling

Easy, safe and reliable handling with GH wrench (see page 74)



### High Runout Accuracy:

**Within 0.00012" at 4 times the diameter of the cutting tool!**  
This produces better stability and improves surface finish and cutting tool life.



### VC Collet Range:



VCK6: 2-6mm (1/8"-1/4")  
VCK13: 3-12mm (1/8"-1/2")

### VC Collet vs. Others:



#### VCK Collet

- Runout: 0.0001"
- 170N.m gripping power



#### ER Collet

- Runout: 0.0004"
- 80N.m gripping power



#### TG Collet

- Runout: 0.0003"
- 100N.m gripping power