# SK COLLET CHUCKS

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## SK Collet Chuck Features

# LEAN, TOUGH AND EFFICIENT

Lean: narrow body design allows access to tight spots Versatile: applicable for all milling, drilling, reaming and rigid tapping applications Flexible: covers sizes from 0.028" to 1" Accurate: two times more accurate than ER Collet Chucks, within 10 times better repeatability Extremely Precise: 0.0002" or less concentricity guarantee with on-size collets 8° versus 16° collet taper: double the gripping power over ER Collet Chucks Extremely Successful: over 1 million SK Collet Chucks and 15 million SK collets sold worldwide





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## **SK Collet Chuck Features**

#### **Increased Gripping Power**

The smaller the taper angle is, the better concentricity is obtained.

Our steep  $8^{\circ}$  collet seats deeper in the body of the holder, providing double the clamping force and precision than traditional  $16^{\circ}$  ER collets.







**GH Handle** Easy, safe and reliable handling with GH wrench (see page 36).



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## SK Collet

SK Collets can be used for all applications, from milling to reaming. Standard collets can be used in coolant thru applications (with coolant back-up screws).

# SK Collet vs. ER Collet

- A. Slim design allows for better clearance
- B. Force is parallel to centerline of toolholder
- **C.** Deeper seating creates greater accuracy
- **D.** Body and nut are flush for more rigidity



- **A.** Wide collet = wide nut = less clearance
- **B.** Force is angular to centerline of toolholder
- **C.** Shallow seating allows for collet rocking
- D. Body diameter is smaller than nut compromising rigidity

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# Superior SK Coolant System

Our Slim Chuck features a unique High-Pressure Coolant Collet System which allows for higher accuracy and gripping torque.

## SK Coolant thru options:









### **Slotted Disk:**

When the Coolant Nut is paired with the Slotted Disk, coolant is directed to the cutting edge of the cutting tool, making this combination **ideal for noncoolant-thru tools**. The jet coolant pressure creates a tornado effect, ensuring **efficient swarf dispersal**.

## SKG-12

**Back-up Screw for SK Collet Chuck** 



### SKG-12L



#### SKG16-12HGA



### SKG-18H



# Solid steel black oxide coated back up screws

- Accessible and adjustable from both ends
- Excellent for high feed drilling
- Allows cutter repeatability within .0002"
- Ultra High Pressure back up screw capable up to 1200 psi
- Solid steel black oxide coated back-up screws with plastic caps
- 80% thread engagement on fine thread to prevent coolant leakage
- External O-ring provides additional seal to prevent coolant build-up within the toolholder
- Plastic cap is chamfered to accommodate for different sizes
- Excellent for high pressure coolant or oil drilling applications
- Allows cutter repeatability within .0002"

### High Pressure Mechanically-Sealed \_\_\_\_ Collets are available

#### **Applications for SK J Type Nut:**

- Tap or specially designed cutting tool
- Burnishing drill for formed hole
- Oil hole drill for through hole drilling
- Cutting tool with coolant grooves
- Mechanical seal prevents dust and swarf entering inside the collet slots

#### **Coolant-Thru Disk:**

When the Coolant Nut is paired with the Coolant-Thru Disk, a perfect seal is formed around the cutting tool shank, making this combination ideal for Coolant-Thru tools.