

# **ROYAL I.D. WORKHOLDING SYSTEMS**



# I.D. GRIPPING IS OFTEN OVERLOOKED AS A WORKHOLDING OPTION, YET IN MANY SITUATIONS IT IS THE BEST CHOICE:



Allows for full access to the entire length of the workpiece so all external surfaces can be turned in a single operation, guaranteeing perfect concentricity.



On sub-spindle machines, I.D. gripping on the second spindle eliminates the risk of surface damage that can be caused by second-op O.D. gripping on a previously-turned diameter.



For many parts, the engagement-length of an I.D. bore can be greater than what is available for O.D. gripping, resulting in superior rigidity and torque transmission.



I.D. systems tend to be more streamlined than O.D. systems, enabling better part access – especially important for use on machines with live tooling.









**Full Range of In-Stock** Standards, Plus Quick **Delivery on Specials** Ranging up to 24"

# **Royal I.D. Workholding Systems**

### **Specials Available**

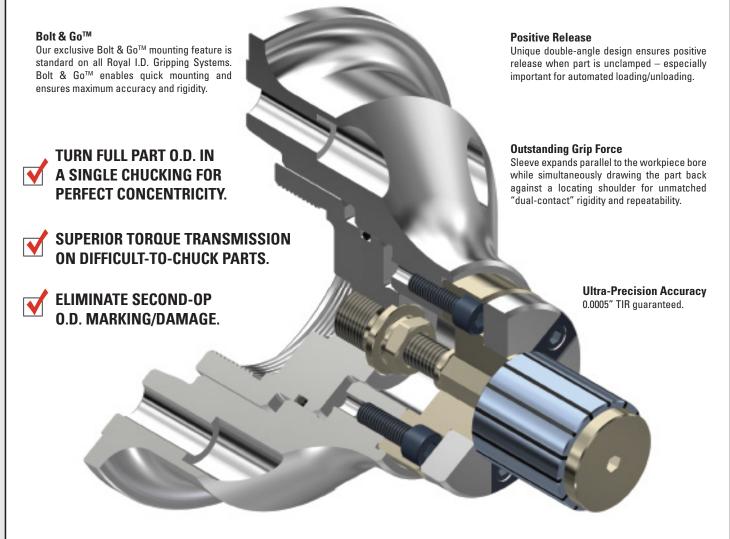
In addition to our off-the-shelf standard line, specials are available in custom configurations ranging up to 24" diameter.

# Same-Day Shipping

Royal stocks the components for same-day shipping on all models ranging from 0.5'' - 3.25'' diameter.

#### **Easy Installation**

Royal I.D. Workholding Systems include all mounting hardware, wrenches, and custom-machined drawtube connectors to ensure hassle-free installation.



### **Low Profile**

Streamlined design for optimum tool clearance. Great for live tooling applications.

### Wide Expansion Range

Sleeves have a broad .032" expansion range, enabling many bore sizes to be covered with a single sleeve.

## **Sealed Construction**

All Royal expanding sleeves are fully sealed for complete protection against coolant and chip penetration.

**Contact Your Select Royal Products Distributor:**