

## QUICK-GRIP™ WORKHOLDING

- TEN-SECOND COLLET CHANGES
- 0.0002" TIR OR BETTER
- PARALLEL GRIP COLLETS WITH A WIDE RANGE
- MOST COMPACT CHUCKS IN THE INDUSTRY
- IN-STOCK FOR SAME-DAY SHIPPING





Optimize everything.



## The Most Advanced Collet Chucks Available for Today's CNC Lathes



- Ten-Second Collet Changes Slash Setup Times.
- ✓ Industry-Leading Gripping Range 0.062" (0.080" for QG-100).
- ✓ Ultra-Precision Accuracy 0.0002" TIR Guaranteed.
- Extreme Grip Force = Most Aggressive Chip Removal Rates and Fastest Cycle Times.
- Maximum Rigidity Produces Superior Part Finishes.
- ✓ Best Tool Clearance Critical For Live Tooling.
- Exclusive Royal Risk-Free Performance Guarantee.
- In-Stock for Same-Day Shipping.



## **Three Unique Models For All Applications**



#### Accu-Length™

- · Our best-selling model.
- Fixed-position collet maintains precise z-axis part positioning – critical for secondary operations.
- Usually the best choice for main spindles, and always required for sub-spindles to ensure proper part transfer.



#### Pull-to-a-Stop

- Pullback design, however z-axis part positioning can be controlled with an included internal stop.
- Stop is easily removed for bar work.
- Often used in robot-load applications where workpiece confirmation is required.



#### **Pullback**

- Most economical choice, but limited primarily to first operation, main-spindle applications.
- No ability to control z-axis part position.

**NOTE** – In order to provide our customers with the best possible service, Royal maintains a huge inventory of Quick-Grip™ CNC Collet Chucks, plus more than 375 unique drawtube connector models – enabling same-day shipping on virtually all collet chuck orders.





## Big Benefit #1

## **Ten-Second Collet Changes**

With the Royal Quick-Grip™ CNC Collet Chuck, collet changes take just seconds. Here's how it works:



 The unique collets are constructed of hardened steel segments securely joined together by vulcanized rubber. Each collet contains an annular hook and groove configuration on the rear section of its outer diameter.



The installation tool incorporates steel pins that align with reamed holes on the collet face. When these pins engage the face holes and the trigger on the tool is actuated, the collet becomes temporarily compressed.



3. In its compressed state, the collet can then be inserted into the collet chuck, where the hooks on the rear of the collet segments become axially aligned with a retaining groove in the chuck.



4. Releasing the installation tool allows the collet to spring open, seating the hooks in the groove and drawing the matching ID/OD tapers into full, positive contact. The collet is now installed.

#### REDUCED SETUP TIME = GREATER THROUGHPUT AND HIGHER PROFITS!





## **Big Benefit #2**

## **Ultra-Precision Accuracy – 0.0002" or Better**



While many users purchase the Royal Quick-Grip™ CNC Collet Chuck for its lightning-fast collet changes and wide gripping range, another major benefit of this system is its extreme accuracy.

With CNC collet chucks, there are several factors which affect overall system accuracy. These include:

- Accuracy and tolerance of chuck mount (taper angle, gage line diameter, squareness of mounting flange, etc.)
- Tolerance and fit between chuck components (body to mounting adapter, closing sleeve to chuck bore, etc.)
- Accuracy and tolerance of collets (OD collet angle, bore sizing, concentricity of ID to OD, etc.)

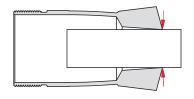
The manufacturing processes for Royal CNC collet chucks and collets have all been fully optimized to achieve the absolute tightest tolerances and highest accuracies. While we guarantee our chucks at 0.0002" TIR between the A-mount taper and collet chuck closing sleeve, they often run at 0.00005" or better! Round-bore collet accuracy is also guaranteed to be within 0.0002" TIR.

This means that out of the box, with absolutely no indicating in, you can expect to achieve a Quick-Grip™ total system accuracy of 0.0004" TIR or better. We know of no other collet chuck manufacturer that can consistently produce such an exact level of precision.

How much time do you waste boring jaws? The Royal Quick-Grip™ pays for itself in no time.

## **Big Benefit #3**

## Industry-Leading Gripping Range — 0.062"/0.080"



#### **Spring-Type Collet**

With a spring-type collet, unless the bore is exactly sized to the workpiece diameter there will be reduced contact, resulting in compromised accuracy and grip force.



#### Quick-Grip Collet

With a Quick-Grip™ collet, the segments always remain parallel to the workpiece, helping to maintain optimum accuracy and grip force.

Royal Quick-Grip<sup>TM</sup> Collets have a much wider collapse range than conventional spring collets. A spring-type collet can only be compressed by up to 0.005" before there is a sharp drop off in both grip force and accuracy due to the changing angle of the gripping surface.

However, with the unique design of the Royal Quick-Grip™ collet, each collet segment is bonded to the adjacent segments with vulcanized rubber. This ensures that **the collet segments always remain parallel to the workpiece** as the collet is compressed, giving the Quick-Grip™ collet a full collapse range of .062" (nominal diameter +/- .031). For the QG-100, this range is even greater — 0.080"!

#### Advantages of this system include:

- ☐ The ability to compensate for oversized and undersized bar stock.
- □ Superior accuracy and grip force by remaining parallel to the workpiece, each collet segment makes contact over its entire length.
   With old-technology spring collets, over-collapsing results in just a narrow ring of contact near the collet face.
- □ The wide range of the Royal Quick-Grip™ collet provides the ability to clear larger diameters in order to grip on smaller diameters. This "over the shoulder" feature offers second-op advantages over traditional spring collets.





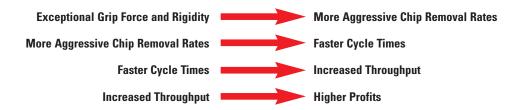
## Big Benefit #4

### **Slash Cycle Times and Boost Throughput**

#### Royal Quick-Grip™ Offers Unmatched Grip Force and Rigidity

The parallel-grip functionality of Royal Quick-Grip™ Collets provides extremely high grip force by maintaining workpiece contact over the entire length of each collet segment (see image on previous page). Additionally, the design and construction of all Royal Quick-Grip™ CNC Collet Chucks has been optimized for rock-solid rigidity.

This combination of tremendous grip force and outstanding rigidity results in something that every manufacturer strives for – the ability to **drastically** increase speeds, feeds and depth of cut, without sacrificing part accuracy or surface finish.



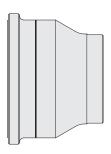
Many Royal Quick-Grip™ users have told us that they have made back their investment in just a few short weeks thanks to such a significant increase in throughput over their previous three-jaw chucks and older-style collet chucks.

## **Big Benefit #5**

## **Most Compact Collet Chucks in the Industry**

Royal Accu-Length™ CNC Collet Chucks have been optimized for tool clearance and rigidity. Short lengths maximize the usable space inside the machining envelope, while extremely compact nose diameters reduce tool interference and enable machining to take place closer to the spindle.

Compact (Standard Length/Compact Nose Diameter)



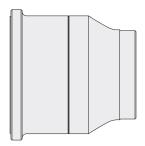
The traditional length ensures that these chucks can accommodate most machine drawtubes, while a greatly reduced nose diameter offers the **best tool clearance in the industry**.

#### Ultra-Compact (Compact Length/Compact Nose Diameter)



These are the smallest collet chucks available. Often mounted on sub-spindles, Royal's Ultra-Compact CNC Collet Chucks make a great choice when maximum z-axis capacity is the primary requirement.

## Extended-Length (Longer Length/Compact Nose Diameter)

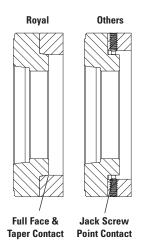


Royal stocks a few chuck models in extended-length versions to accommodate a handful of machines with limited z-axis travel. As a rule, it is usually best to choose the shortest chuck model possible for your machine.



## **Big Benefit #6**

## **Exclusive Royal Bolt & Go™ Mounting Advantage**



All Royal CNC Collet Chucks mount quickly, easily, and accurately due to our exclusive Bolt & Go™ mounting interface.

Many Royal chuck models mount directly to the lathe spindle without the need for an adapter plate. However, for models that do use a plate, a precision—ground tapered fit between the plate's male pilot and chuck body's female recess ensures a consistent, near-perfect fit without the need for any adjustment. This precision fit also enhances overall system rigidity by providing both face and taper contact.

Other chuck manufacturers use a less precise approach. Instead of providing a near-perfect tapered interface between the chuck body and plate, they rely on a loose fit between a male cylindrical pilot on the plate and an oversized bore within the chuck body. Because there is clearance between these two components, jack screws located around the circumference must be used to radially true-up the chuck on the plate. This process of using the jack screws and an indicator to dial out the runout each time a chuck is mounted wastes valuable production time. The rigidity of this design is also significantly less due to the limited point-contact provided by the screws against the pilot as compared to the full-contact tapered fit of the Royal Bolt & Go<sup>TM</sup> interface.

Knock 30 Minutes Off Your Setup Time with Royal Bolt & Go™

## **Big Benefit #7**

## **Risk-Free Performance Guarantee**



In addition to providing superior quality, service, support, and deliveries, Royal CNC Collet Chucks also carry an industry exclusive risk-free performance guarantee. This no-risk guarantee allows our customers to run a collet chuck on the toughest jobs in their shop for 45-days, and if they are not 100% satisfied with its performance, we will take it back and arrange for a full refund through their distributor.

When you buy a CNC collet chuck from Royal Products, you can have **complete confidence** that we will not let you down. For over 75 years, Royal has been recognized as one of the most reliable and trusted suppliers in the metalworking industry. We are here for you today, and we'll be here for you tomorrow.





## **Big Benefit #8**

## **Precision-Made in USA**

#### ISO 9001:2015 Certified

- Every Royal CNC collet chuck is completely manufactured in our modern factory on state-of-the-art automated CNC equipment.
- □ All chucks, sleeves, adapter plates, collets, etc., come off of our gantry-loaded multi-tasking machines complete - eliminating the accuracy and quality issues often associated with multiple setups/operations.
- All grinding takes place on precision Swiss-made CNC grinders that enable multiple features to be ground in a single setup, resulting in near-perfect tolerances and ensuring absolute consistency from part to part.
- Royal Products is an ISO9001:2015 registered company dedicated to continuous improvement. Every process is documented and followed down to the smallest detail for consistent quality - every time.



## **Big Benefit #9**

## **Outstanding Support**



Royal maintains a fleet of fully-equipped mobile showrooms designed to bring solutions to our customers' doorsteps. To schedule a visit to your company, please visit royalproducts.com.

- □ Royal's knowledgeable team of applications engineers makes it very easy for you to do business with us. When you call Royal, the person you speak with will be a workholding expert, and if we can't offer you the best solution for your application, we'll do our best to recommend a company that can – even if it's a competitor!
- Royal CNC Collet Chucks are sold through a select network of the country's top industrial and machine tool distributors. We also have strong relationships with all of the major machine tool builders and importers to make sure that our products seamlessly interface with their machines.
- With over forty factory-trained account managers strategically located throughout North America, our highly-qualified field support team is always ready and willing to serve you.

## Big Benefit #10 We Make it Easy

- ☐ All Royal CNC collet chucks include everything needed for installation, (even the hex keys). We strive to give our customers "the mint on the pillow" treatment.
- ☐ Through the past thirty years of gathering machine tool specifications and working closely with all of the major machine tool builders, Royal Products has developed a huge database of drawtube specifications, virtually eliminating the need for a customer to ever measure a machine.
- □ We now stock over 375 of the most common drawtube connector models, and non-stock connectors are made very quickly from semi-finished blanks.
- ☐ All Royal CNC collet chucks come packaged in specially designed heavy-gage boxes with form-fitting foam inserts to provide complete protection of all contents.







## HOW TO CHOOSE THE RIGHT QUICK-GRIP™ CNC COLLET CHUCK

#### **Chuck Style**

Royal offers three Quick-Grip™ Collet Chuck styles to suit virtually all CNC lathes and applications. If you're unsure which style is the best choice for your needs, the guidelines below should be helpful.



#### **Accu-Length**

- Our best selling model.
- Fixed position collet maintains precise z-axis part positioning – critical for secondary operations.
- Usually the best choice for main spindles, and always required for sub-spindles to ensure proper part transfer.



#### Pull-to-a-Stop

- Pullback design, however z-axis part positioning can be controlled with an internal included stop.
- ☐ Stop is easily removed for bar work.
- Often used in robot-load applications where workpiece confirmation is required.



#### **Pullback**

- Most economical choice, but limited primarily to first operation, main-spindle applications.
- No ability to control z-axis part position.

#### Capacity

It is typical practice to size a collet chuck according to the I.D. bore of the CNC lathe's drawtube. When the drawtube thru capacity falls between chuck models, it is usually best to choose a chuck with a slightly larger capacity than the drawtube bore to ensure you don't limit the jobs your machine can handle.

For machines with second spindles, sometimes the capacity of the second spindle is less than that of the main spindle. In cases like this, most customers choose the same chuck model for both spindles so they can standardize on collets.

CHUCK MODEL	MAX BAR CAPACITY
QG-32	1.28"
QG-42	1.68"
QG-52	2.03"
QG-65	2.66"
QG-80	3.28"
QG-100	4.03"

#### **Spindle Mount**

All CNC lathes have industry-standard spindle mounting specifications. Simply match the spindle mount of your machine (found in your owner's manual) to the spindle mount of the collet chuck.

#### **Drawtube Connector**

In our never-ending quest to provide our customers with the best possible service, every Royal CNC Collet Chuck includes a custom-machined drawtube connector to ensure seamless, hassle-free installation.

Royal stocks over 375 unique drawtube connector models, enabling same-day shipping on virtually all collet chuck orders.



## ROYAL QUICK-GRIPTM ACCU-LENGTHTM CNC COLLET CHUCKS











- Royal's best-selling CNC Collet Chuck great for both main and sub-spindles
- ✓ 10-second collet changes.
- ✓ Widest collet gripping range 0.062" (0.080" for QG-100).
- ✓ Extremely accurate 0.0002" TIR.
- ✓ Parallel workpiece gripping.
- ✓ Exclusive Bolt & Go<sup>™</sup> mounting feature no need to tap/indicate for accuracy.
- Compact and ultra-compact models to suit all machines and applications.
- ✓ Nose diameter optimized for superior tool clearance.
- In-stock for same-day shipping.











### ROYAL QUICK-GRIPTM ACCU-LENGTHTM **CNC COLLET CHUCKS**

#### Bolt & Go™

Our exclusive Bolt & Go™ mounting feature is standard on all Royal Quick-Grip™ Collet Chuck models. Bolt & Go™ enables chucks to be mounted very quickly and ensures maximum accuracy and rigidity. See page 10 for additional information.

#### **Extremely Fast Collet Changes**

Changing collets on a Royal Quick-Grip™ CNC Collet Chuck takes just a few seconds. A unique hook and groove design for securing collets is used instead of traditional threads.

#### Wide Gripping Range

Royal Quick-Grip™ Collets have a 0.062" gripping range (+/- 0.031"), enabling them to accommodate undersized and oversized bar stock. This range is even larger for the QG-100 - 0.080"

#### **Completely Sealed**

Lubricated for life, these chucks incorporate multiple O-ring seals to keep contaminants out and prevent chip pack-up on bore-thru applications.

## **High Accuracy**

Royal Quick-Grip™ CNC Collet Chucks are very accurate - runout on the closing angle is guaranteed to be within 0.0002" TIR.

#### High RPM

All Royal Quick-Grip™ Collet Chucks are balanced by design for high-speed operation, and can often be run at higher speeds than conventional 3-jaw chucks because they are less affected by centrifugal force.

#### Low-Profile

Royal Quick-Grip™ CNC Collet Chucks have smaller nose diameters than other quickchange collet chucks for superior tool clearance.



#### **Collet Compatibility**

Royal Quick-Grip™ Collet Chucks can sometimes utilize other brands of quick-change collets. Call Royal to verify.



All chuck components, except for the drawtube connector, are hardened to Rc 61-63 for high rigidity and durability.

#### **Coolant Slinger**

All bodies incorporate an oversized flange to protect the machine tool spindle bearings from coolant penetration.

#### **Shortest Length**

Royal Quick-Grip™ CNC Collet Chucks are among the shortest chucks available, providing maximum work envelope utilization. This is especially important for smaller machines with limited z-axis travel.

## **Dead-Length Operation**

Royal Quick-Grip™ Accu-Length™ CNC Collet Chucks incorporate dead length operation to eliminate part pullback. With this design, the collet is held stationary in the chuck body and a tapered sleeve pushes forward to compress it, resulting in precise z-axis workpiece positioning.

#### **Easy Installation**

Royal Quick-Grip™ Collet Chucks include all mounting hardware, mounting wrenches, and a custom-machined drawtube connector to ensure hassle-free installation.

#### **Specials**

If you have a special application that goes beyond the scope of our standard line, we will be happy to design and build a custom system to meet your needs. Please contact a Royal applications engineer to discuss your requirements.

Note – Collets and installation tool sold separately

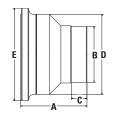


## ROYAL QUICK-GRIPTM ACCU-LENGTHTM CNC COLLET CHUCKS









### **Royal Quick-Grip™ Accu-Length™ CNC Collet Chucks**

		•			•										
SPINDLE Type	COLLET Type	MAX CA Bar	PACITY SLUG <sup>3</sup>	CHUCK STYLE	A OVERALL LENGTH	B Nose Diameter	C Nose Length	D Body Diameter	E Flange Diameter	CHUCK WEIGHT (lbs.)	MAX Drawbar Force (Ibs.)	MAX CLAMPING FORCE (lbs.)	MAX RPM	PART NUMBER	PRICE <sup>1</sup>
A2-4	QG-32	1.28	1.80	UC	4.40	3.56	0.75	5.63	6.35	18	5,620	15,740	7,000		\$4,530
A2-5	QG-32	1.28	1.80	UC	4.53	3.56	0.75	5.63	6.35	17	5,620	15,740	7,000	46193	4,530
A2-6	QG-32	1.28	1.80	UC	4.53	3.56	0.75	5.63	7.25	20	5,620	15,740	7,000	46194	4,530
110 MM	QG-32	1.28	1.80	UC	4.18	3.56	0.75	5.63	5.63	16	5,620	15,740	7,000	46195	4,530
140 MM	QG-32	1.28	1.80	UC	4.18	3.56	0.75	5.63	6.35	16	5,620	15,740	7,000	46196	4,530
A2-5	QG-42	1.66	2.62	С	4.60	4.00	0.75	5.70	6.45	19	7,865	17,980	6,000	46100	4,530
A2-5	QG-42	1.66	2.62	UC	4.00	4.00	0.75	5.70	6.45	15	7,865	17,980	6,000	46105	4,530
A2-6	QG-42	1.66	2.62	UC	4.45	4.00	0.75	6.20	7.25	21	7,865	17,980	6,000	46110	4,530
140 MM	QG-42	1.66	2.62	UC	3.95	4.00	0.75	5.70	5.70	15	7,865	17,980	6,000	46115	4,530
A2-5	QG-52	2.03	2.57	С	4.80	4.36	0.75	6.10	6.85	24	7,865	17,980	6,000	46116	4,530
A2-5	QG-52	2.03	2.57	UC	4.20	4.36	0.75	6.10	6.10	18	7,865	17,980	6,000	46117	4,530
A2-6	QG-52	2.03	2.57	UC	4.60	4.36	0.75	6.20	7.25	23	7,865	17,980	6,000	46118	4,530
110 MM	QG-52	2.03	2.57	UC	4.20	4.36	0.75	6.10	6.10	17	7,865	17,980	6,000	46121	4,530
140 MM	QG-52	2.03	2.57	UC	4.20	4.36	0.75	6.10	6.10	19	7,865	17,980	6,000	46119	4,530
A2-5	QG-65	2.66	3.40	С	4.80	4.91	0.87	6.55	7.25	27	10,115	23,600	6,000	46120	5,120
A2-5	QG-65	2.66	3.40	UC	4.50	4.91	0.87	6.55	6.55	24	10,115	23,600	6,000	46125	5,120
A2-6	QG-65	2.66	3.40	С	5.33	4.91	0.87	6.55	7.25	31	10,115	23,600	6,000	46130	5,120
A2-6	QG-65	2.66	3.40	UC	4.65	4.91	0.87	6.55	7.25	24	10,115	23,600	6,000	46135	5,120
A2-6	QG-65	2.66	3.40	EL <sup>2</sup>	7.00	4.91	0.87	6.55	7.25	45	10,115	23,600	6,000	46140	5,120
A2-8	QG-65	2.66	3.40	C	5.50	4.91	0.87	8.00	9.45	45	10,115	23,600	6,000	46145	5,760
110 MM	QG-65	2.66	3.40	UC	4.45	4.91	0.87	6.55	6.55	25	10,115	23,600	6,000	46150	5,590
140 MM A2-5	QG-65 QG-80	2.66	3.40	UC C	4.80	4.91	0.87	6.55	7.45	29	10,115	23,600	6,000	46155	5,590
A2-5 A2-6	QG-80	3.28	4.00 4.00	C	4.95	5.63 5.63	0.87	7.45 7.45	7.45 7.45	33 35	11,240 11,240	25,850 25,850	5,000 5,000	46160 46165	5,950 5,950
A2-6	QG-80	3.28	4.00	EL <sup>2</sup>	7.00	5.63	0.87	7.45	7.45	58	11,240	25,850	5,000	46166	5,950
A2-8	QG-80	3.28	4.00	С	5.20	5.63	0.87	8.00	9.45	43	11,240	25,850	5,000	46170	5,950
140 MM	QG-80	3.28	4.00	C	4.75	5.63	0.87	7.45	7.45	34	11,240	25,850	5,000	46175	5,950
A2-6	QG-100	4.03	5.15	С	6.18	7.00	0.87	9.40	9.40	76	14,610	33,720	5,000	46180	8,610
A2-8	QG-100	4.03	5.15	С	6.43	7.00	0.87	9.40	10.75	89	14,610	33,720	5,000	46185	8,720
A2-11	QG-100	4.03	5.15	С	6.68	7.00	0.87	9.40	12.50	93	14,610	33,720	5,000	46190	10,190

<sup>&</sup>lt;sup>1</sup> Includes drawtube connector. Collets and installation tool sold separately.

 $C\!\!=\!\!Compact,\,UC\!\!=\!\!UItra\text{-}Compact,\,EL\!\!=\!\!Extended\text{-}Length$ 



<sup>&</sup>lt;sup>2</sup> Extended-length – for use on machines where z-axis turret travel is limited.

<sup>&</sup>lt;sup>3</sup> Slug capacity requires counterboring of collets. See page 42 details.



## ROYAL QUICK-GRIP™ PULL-TO-A-STOP CNC COLLET CHUCKS

**Extremely Fast Collet Changes** 

#### Bolt & Go™

Our exclusive Bolt & Go™ mounting feature is standard on all Royal Quick-Grip™ Collet Chuck models. Bolt & Go™ enables chucks to be mounted very quickly and ensures maximum accuracy and rigidity. See page 10 for additional information.

#### Changing c

Changing collets on a Royal Quick-Grip™ CNC Collet Chuck takes just a few seconds. A unique hook and groove design for securing collets is used instead of traditional threads.

#### Wide Gripping Range

Royal Quick-Grip™ Collets have a 0.062" gripping range (+/- 0.031"), enabling them to accommodate undersized and oversized bar stock. This range is even larger for the QG-100 − 0.080".

#### **Completely Sealed**

Lubricated for life, these chucks incorporate multiple 0-ring seals to keep contaminants out and prevent chip pack-up on bore-thru applications.

#### Low-Profile

Royal Quick-Grip™ CNC Collet Chucks

are very accurate - runout on the closing

angle is guaranteed to be within 0.0002" TIR.

**High Accuracy** 

Royal Quick-Grip™ CNC Collet Chucks have smaller nose diameters than other quickchange collet chucks for superior tool clearance.

#### High RPM

All Royal Quick-Grip<sup>TM</sup> Collet Chucks are balanced by design for high-speed operation, and can often be run at higher speeds than conventional 3-jaw chucks because they are less affected by centrifugal force.

#### Collet Compatibility

Royal Quick-Grip™ Collet Chucks can sometimes utilize other brands of quick-change collets. Call Royal to verify.



All bodies incorporate an oversized flange to protect the machine tool spindle bearings from coolant penetration.

#### Two-Chucks In One

The Royal Quick-Grip™ Pull-to-a-Stop CNC Collet Chuck includes a removable stop for precise, consistent workpiece positioning. The pullback action of the collet draws the workpiece securely against the stop, eliminating any chance of z-axis part movement and enabling very aggressive cutting.

When thru-hole capacity is required for bar feeding applications, simply remove the stop and the chuck will function as a normal pullback-style collet chuck.

### Heavy-Duty Construction

All chuck components, except for the drawtube connector, are hardened to Rc 61-63 for high rigidity and durability.

#### **Shortest Length**

**Coolant Slinger** 

Royal Quick-Grip™ CNC Collet Chucks are among the shortest chucks available, providing maximum work envelope utilization. This is especially important for smaller machines with limited z-axis travel.

 $\label{eq:Note-Collets} \mbox{Note} - \mbox{Collets and installation tool sold separately}$ 

#### Easy Installation

Royal Quick-Grip™ Collet Chucks include all mounting hardware, mounting wrenches, and a custom-machined drawtube connector to ensure hassle-free installation.

#### **Specials**

If you have a special application that goes beyond the scope of our standard line, we will be happy to design and build a custom system to meet your needs. Please contact a Royal applications engineer to discuss your requirements.



## ROYAL QUICK-GRIP™ PULL-TO-A-STOP CNC COLLET CHUCKS

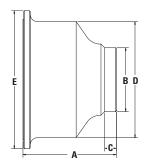




- ✓ Same great features as our Accu-Length™ Quick-Grip™ models, except that the collet is not fixed – it moves axially upon opening and closing.
- Adjustable stop guarantees precise, consistent z-axis part positioning and enables very aggressive cutting.
- ✓ Ideal for high-volume, robot-load applications in which the part needs to locate against a shoulder and air-sensing / position confirmation is required.
- Also a great choice for any CNC lathe equipped with a servo-driven bar feeder – simply remove the included stop for full thru-capacity.
- In-stock for same-day shipping.



Chuck includes removable standard stop.





### Royal Quick-Grip™ Pull-to-a-Stop CNC Collet Chucks

SPINDLE	COLLET	MAX (	CAPACITY	A OVERALL	B Nose	C Nose	D Body	E Flange	CHUCK WEIGHT	MAX Drawbar	MAX CLAMPING	MAX	PART	
TYPE	TYPE	BAR	SLUG <sup>3</sup>	LENGTH	DIAMETER	LENGTH	DIAMETER	DIAMETER	(lbs.)	FORCE (lbs.)	FORCE (lbs.)	RPM	NUMBER	PRICE <sup>1</sup>
A2-5	QG-42	1.66	2.62	5.10	3.54	0.62	6.00	6.70	21	7,865	17,980	6,000	46010	\$4,840
A2-6	QG-42	1.66	2.62	5.50	3.54	0.62	6.25	7.45	25	7,865	17,980	6,000	46012	4,840
A2-5	QG-52	2.03	2.57	5.25	3.63	0.62	6.19	6.95	21	7,865	17,980	6,000	46028	4,840
A2-6	QG-52	2.03	2.57	5.65	3.63	0.67	6.19	7.25	22	7,865	17,980	6,000	46030	4,840
A2-5	QG-65	2.66	3.40	5.50	4.37	0.80	6.70	7.62	28	10,115	23,600	6,000	46014	5,530
A2-6	QG-65	2.66	3.40	6.00	4.37	0.80	6.70	7.62	29	10,115	23,600	6,000	46016	5,530
A2-6	QG-65	2.66	3.40	7.00 <sup>2</sup>	4.37	0.80	6.70	7.62	35	10,115	23,600	6,000	46017	5,530
A2-8	QG-65	2.66	3.40	6.40	4.37	0.80	7.95	9.45	45	10,115	23,600	6,000	46018	5,530
A2-6	QG-80	3.28	4.00	6.00	4.96	0.80	8.00	8.75	44	11,240	25,850	5,000	46020	6,070
A2-8	QG-80	3.28	4.00	6.40	4.96	0.80	8.00	9.45	47	11,240	25,850	5,000	46022	6,070
A2-6	QG-100	4.03	5.15	7.08	6.30	0.80	9.40	9.40	88	14,610	33,720	5,000	46023	7,250
A2-8	QG-100	4.03	5.15	7.33	6.30	0.80	9.40	10.75	95	14,610	33,720	5,000	46024	7,250
A2-11	QG-100	4.03	5.15	7.58	6.30	0.80	9.40	12.50	102	14,610	33,720	5,000	46026	7.870

<sup>&</sup>lt;sup>1</sup> Includes drawtube connector. Collets and installation tool sold separately.

<sup>&</sup>lt;sup>3</sup> Slug capacity requires counterboring of collets. See page 42 details.



<sup>&</sup>lt;sup>2</sup> Extended-length – for use on machines where z-axis turret travel is limited.



## ROYAL QUICK-GRIP™ PULLBACK CNC COLLET CHUCKS

**Extremely Fast Collet Changes** 

Changing collets on a Royal Quick-Grip™

CNC Collet Chuck takes just a few seconds.

A unique hook and groove design for securing

collets is used instead of traditional threads.

#### Bolt & Go™

Our exclusive Bolt & Go™ mounting feature is standard on all Royal Quick-Grip™ Collet Chuck models. Bolt & Go™ enables chucks to be mounted very quickly and ensures maximum accuracy and rigidity. See page 10 for additional information.

#### **Completely Sealed**

Lubricated for life, these chucks incorporate multiple 0-ring seals to keep contaminants out and prevent chip pack-up on bore-thru applications.

#### High RPM

All Royal Quick-Grip™ Collet Chucks are balanced by design for high-speed operation, and can often be run at higher speeds than conventional 3-jaw chucks because they are less affected by centrifugal force.

#### **Coolant Slinger**

All bodies incorporate an oversized flange to protect the machine tool spindle bearings from coolant penetration.

#### **Shortest Length**

Royal Quick-Grip™ CNC Collet Chucks are among the shortest chucks available, providing maximum work envelope utilization. This is especially important for smaller machines with limited z-axis travel.

### Specials

If you have a special application that goes beyond the scope of our standard line, we will be happy to design and build a custom system to meet your needs. Please contact a Royal applications engineer to discuss your requirements.

Heavy-Duty Construction
All chuck components, including
the drawtube connector, are
hardened to Rc 61-63 for
high rigidity and durability.

#### Wide Gripping Range

Royal Quick-Grip<sup>TM</sup> Collets have a 0.062" gripping range (+/- 0.031"), enabling them to accommodate undersized and oversized bar stock. This range is even larger for the 0G-100-0.080".

#### **High Accuracy**

Royal Quick-Grip™ CNC Collet Chucks are very accurate – runout on the closing angle is guaranteed to be within 0.0002" TIR.

#### Low-Profile

Royal Quick-Grip™ CNC Collet Chucks have smaller nose diameters than other quick-change collet chucks for superior tool clearance.



#### **Collet Compatibility**

Royal Quick-Grip™ Collet Chucks can sometimes utilize other brands of quick-change collets. Call Royal to verify.

#### **Easy Installation**

Royal Quick-Grip™ Collet Chucks include all mounting hardware, mounting wrenches, and a custom-machined drawtube connector to ensure hassle-free installation.

Note - Collets and installation tool sold separately

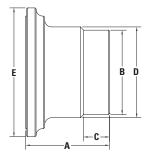


## ROYAL QUICK-GRIP™ PULLBACK CNC COLLET CHUCKS





- Traditional pullback design collet is pulled into chuck to close, pushed out to open.
- ✓ No collet stop capability, therefore this chuck style is typically used only on jobs where holding precise axial position is not critical.
- ✓ Includes many of the same features of our QG Accu-Length™ models, including:
  - 10-second collet changes
  - 0.0002" TIR accuracy on closing angle
  - Wide 0.062" collet range (0.080" for QG-100)
  - Compact dimensions for superior clearance
- In-stock for same-day shipping.





### **Royal Quick-Grip™ Pullback CNC Collet Chucks**

SPINDLE	COLLET	MAX CA	APACITY	A OVERALL	B NOSE	C Nose	D BODY	E Flange	CHUCK WEIGHT	MAX Drawbar	MAX CLAMPING	MAX	PART	
TYPE	TYPE	BAR	SLUG <sup>2</sup>	LENGTH	DIAMETER	LENGTH	DIAMETER	DIAMETER	(lbs.)	FORCE (lbs.)	FORCE (lbs.)	RPM	NUMBER	PRICE <sup>1</sup>
A2-5	QG-42	1.66	2.62	4.45	4.11	3.50	5.25	6.45	11	7,865	17,980	6,000	44020	\$2,860
A2-6	QG-42	1.66	2.62	4.35	4.11	1.50	4.38	7.45	13	7,865	17,980	6,000	44022	3,050
A2-5	QG-65	2.66	3.40	4.30	4.88	1.50	6.45	6.45	19	10,115	23,600	6,000	44028	3,260
A2-6	QG-65	2.66	3.40	4.85	4.88	1.50	5.25	7.45	17	10,115	23,600	6,000	44030	3,260
A2-8	QG-65	2.66	3.40	5.00	4.88	1.50	5.72	9.45	25	10,115	23,600	6,000	44032	3,990
A2-6	QG-80	3.28	4.00	4.85	5.47	1.25	5.68	7.45	25	11,240	25,850	5,000	44034	4,090
A2-8	QG-80	3.28	4.00	5.00	5.47	1.25	5.72	9.45	25	11,240	25,850	5,000	44036	4,090

<sup>&</sup>lt;sup>1</sup> Includes drawtube connector. Collets and installation tool sold separately.

<sup>&</sup>lt;sup>2</sup> Slug capacity requires counterboring of collets. See page 42 details.



Check out the Royal Quick-Grip™ CNC Collet Chuck Video at www.colletchucks.com





## ROYAL QUICK-GRIPTM POWER-BLOCKTM COLLET FIXTURES

### **Hydraulic or Pneumatic Actuation**

#### **Extremely Fast Collet Changes**

Changing collets on a Royal Quick-Grip™
Power-Block™ takes just a few seconds.
A unique hook and groove design for securing collets is used instead of traditional threads.

#### **Tool Clearance Optimized**

Slim nose diameter offers better tool clearance compared to vises and other prismatic workholding devices.

#### **Extreme Grip Force**

The gripping segments of Royal Quick-Grip™ collets always remain parallel to the workpiece over their full length, ensuring grip force is evenly distributed. This is a significant advantage for thin-walled parts that are susceptible to crushing.

**Completely Sealed** 

Lubricated for life, these fixtures

incorporate multiple O-ring seals

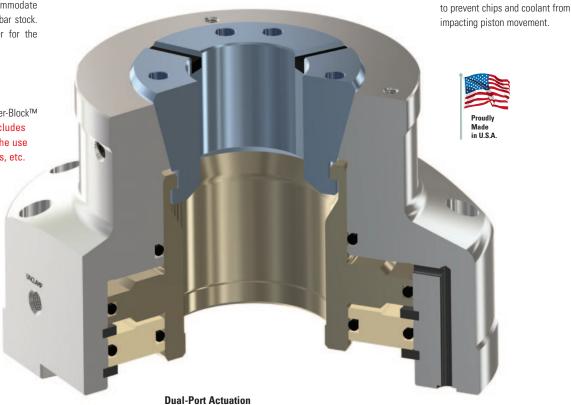
#### **Wide Gripping Range**

Royal Quick-Grip<sup>TM</sup> Collets have a 0.062" gripping range (+/- 0.031"), enabling them to accommodate undersized and oversized bar stock. This range is even larger for the 0G-100-0.080".

#### **Flexible**

The face of the Royal Power-Block™ is precision-ground and includes tapped holes, enabling the use of custom stops, locators, etc.

### **Great for 5th-Axis Applications!**



#### **Heavy-Duty Construction**

Body and piston are hardened to Rc 61-63 for maximum rigidity and durability.

#### Low Maintenance

Oversized evacuation slots on all four sides enable chips to be easily flushed clear on bore-thru applications.

#### **Precision Mounting**

Internal bore and external OD are both precision-ground, offering flexibility while ensuring accurate, repeatable mounting to plates, tombstones, etc.

All units are equipped with ports on both

the side and bottom surface of the fixture,

offering actuation flexibility for both

fixed and rotary table applications.

#### Custom Collet Profiles

One of the greatest advantages of this workholding system is in Royal's ability to supply custom collet profiles for odd-shaped second-op gripping. See examples on page 43.



Note - Collets and installation tool sold separately



## ROYAL QUICK-GRIPTM POWER-BLOCKTM COLLET FIXTURES

### **Hydraulic or Pneumatic Actuation**

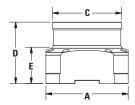


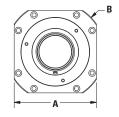






When paired with a custom-profile Quick-Grip<sup>TM</sup> collet, the Royal Power-Block<sup>TM</sup> can help you optimize your workholding for parts that aren't well-suited to traditional vises or prismatic fixtures. See page 43 for examples.





- Royal Power-Block™ Collet Fixtures bring the full functionality of our Quick-Grip™ CNC Collet Chucks to your vertical and horizontal machining centers.
- □ These fixtures incorporate many of the same great features as our Quick-Grip™ CNC Collet Chucks, including ten-second collet changes and the use of parallel-grip collets with a full 0.062" clamping range (0.080" for QG-100).
- □ A great alternative to traditional vises and fixtures especially for long, thin parts, or those with asymmetrical external features.
- □ Units are designed to be actuated via hydraulic pressure, and may also be actuated pneumatically for lighter-duty applications (contact Royal for details).
- □ Engineered for use in both stationary and rotary-table applications. **Caution not** for use on lathes or grinders above 60 rpm!
- ☐ Heavy-duty all steel construction with a large double-acting piston for high clamping force.
- Configured with both side and bottom ports for plumbing flexibility.
- Multiple units can be plumbed in series for single-source actuation.
- Mounting face is precision-ground for perpendicularity to centerline.
- Ideal for high-production vertical and horizontal milling applications.
- □ For use with Royal Quick-Grip<sup>TM</sup> collets and installation tools (pages 26-44).

#### Power-Block™ Grip Force Specifications\*

MODEL	MAX INPUT Hydraulic Pressure (psi.)	MAX AXIAL FORCE (lbs.)	MAX CLAMPING FORCE (lbs.)
QG-42	580	7,865	17,980
QG-52	580	7,865	17,980
QG-65	580	10,115	23,600
QG-80	580	11,240	25,850
QG-100	580	14,610	33,720

<sup>\*</sup>Contact Royal for pneumatic actuation specifications.

#### **Royal Quick-Grip™ Power-Block™ Collet Fixtures**

MODEL	CAPA (ROUND)	CITY (SQUARE)	A (SQUARE)	B (OUTER DIA.)	С	D	E	FIXTURE Weight (lbx.)	PART Number	PRICE*
QG-42	1.66	1.16	6.06	6.89	4.13	4.72	3.56	25	43960	\$3,445
QG-52	2.00	1.37	6.06	6.89	4.13	4.72	3.56	25	43962	3,445
QG-65	2.66	1.78	6.85	8.27	4.92	5.12	3.36	33	43964	3,715
QG-80	3.28	2.03	7.34	8.46	6.30	5.12	3.00	38	43954	4,175
QG-100	4.03	2.78	9.02	10.63	8.46	5.51	3.38	66	43956	5,745

<sup>\*</sup>Collets and installation tool sold separately.





## ROYAL QUICK-GRIP™ POWER-BLOCK™ RISERS



- □ These risers are designed specifically for Royal Power-Block™ Collet Fixtures and have multiple uses, including:
  - Enhancing chip evacuation for thru-hole machining applications.
- □ Surface ground within 0.0002" parallelism.
- Manufactured from semi-hard 4140 steel for toughness, yet it is still easily machineable for customization.
- □ Thickness held within 0.0005" tolerance for accurate interchangeability.
- □ Tapped center hole enables easy installation of a depth stop.
- 20mm wide keyway on bottom surface provides secure engagement with machining center tables and rotary tables.
- Flexible mounting:
  - Milled flats allow for the use of hold-down clamps.
  - Bolt directly to the machine table.
  - Secure with T-nuts.
- □ Risers also available for Royal Key-Operated Power-Block™ Fixtures. Please contact one of our applications engineers for information.
- ☐ In stock for same-day shipping.

### Royal Power-Block™ Risers

PRICE*	PART Number	С	В	A	FITS HYDRAULIC POWER-BLOCK™ MODEL
\$1,395	43970	1.75	6.89	6.06	QG-42
1,395	43970	1.75	6.89	6.06	QG-52
1,425	43972	1.75	8.27	6.85	QG-65
1,515	43974	1.75	8.46	7.34	QG-80
1,795	43976	1.75	10.63	9.02	QG-100

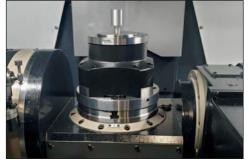
Made in U.S.A

<sup>\*</sup>Rise only. Order Power-Block™ and collets separately.

The Royal Power-Block™ In Action











#### ROYAL CUSTOM POWER-BLOCK™ WORKHOLDING



The Royal Power-Block™ offers unique production-enhancing opportunities for:

- 5th-Axis Applications
- Horizontal Machining Centers
- Multi-Station Rotary-Transfer Applications

Here is a sampling of how some of our customers have greatly improved productivity with Royal Power-Blocks™.

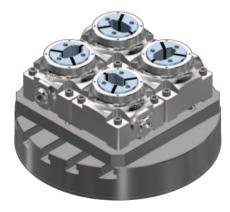


**Application:** Double-sided shaft-end machining on a horizontal machining center.

Capacity: 16 parts at one time.

#### **Unique Features:**

- □ 32 custom Small-Body Accu-Length™ Collet Fixtures mounted to a custom internally ported T-column.
- Gripping force supplied by internal die springs in each fixture.
- Pneumatically unclamped via a single intake port.
- □ This arrangement allows for all parts to be loaded and clamped off-line, so when the column travels into the machining center no air or hydraulic lines need to remain attached.

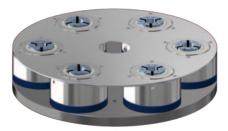


**Application:** "Tapered Oval" shaped part in a 5th-axis machining center.

Capacity: Four parts at one time.

#### **Unique Features:**

- □ Four standard Key-Operated Power-Blocks<sup>™</sup> mounted to the machine tool rotary table via a custom adapter plate.
- □ Four hardened and ground collets custom-machined according to the exact part profile.
- Customer experienced an increase in throughput of 236% over the multi-station vise that was previously being used.



Application: Six-station rotary-transfer machine.

Capacity: Five parts in process at one time. Sixth station used for load/unload.

#### **Unique Features:**

- Six custom Small-Body Accu-Length™ Hydraulic Power-Block™ Fixtures mounted to a custom plate.
- □ Six custom counter-bored collets for precise z-axis positioning.
- Custom chip-shield.
- Clamp/unclamp provided via a centrally located indexing hydraulic manifold (not shown).



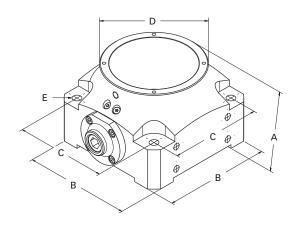


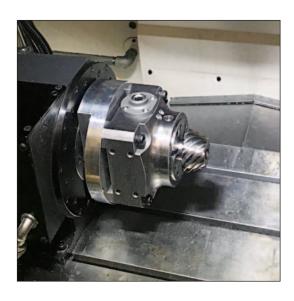
## ROYAL QUICK-GRIPTM POWER-BLOCKTM KEY-OPERATED COLLET FIXTURES



- Unit is mechanically actuated via an included hex key.
- Can be used in both stationary and rotary table applications. Caution not for use on lathes or grinders above 5 rpm!
- Many of the same great features as our Quick-Grip™ CNC Collet Chucks, including ten-second collet changes and parallel-grip collets with a full 0.062" clamping range (0.080" for QG-100).
- Pullback design with an internally threaded back plate enables the use of a stop rod.
- □ Fixture face is precision ground and includes tapped holes, enabling the use of custom stops, locators, etc.
- Bottom and all four sides are ground for both vertical and horizontal mounting.
- Ideal for high production 4th and 5th-axis applications.
- ☐ For use with Royal Quick-Grip<sup>TM</sup> collets and installation tools (pages 26-44).

### **Great for Job Shops!**





#### **Royal Quick-Grip™ Power-Block™ Key-Operated Collet Fixtures**

	CAPA	ACITY						MAX Tightening	MAX Clamping		
MODEL	ROUND	SQUARE	Α	В	C	D	E	TORQUE (ftlbs.)	FORCE (lbs.)	PART NUMBER	PRICE*
QG-42	1.66"	1.16"	3.94	5.12	3.94	3.94	0.43	42	5,125	43900	\$3,865
QG-52	2.03"	1.41"	3.94	5.12	3.94	3.94	0.43	42	5,125	43902	3,865
QG-65	2.66"	1.78"	3.94	5.91	4.72	4.72	0.43	42	6,430	43904	4,085
QG-80	3.28"	2.03"	4.33	6.50	5.31	5.31	0.51	57	7,420	43908	5,635
QG-100	4.03"	2.78"	4.33	7.87	6.69	6.50	0.51	57	9,375	43912	6,075

<sup>\*</sup>Collets and installation tool sold separately



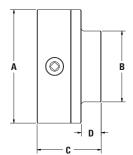
## ROYAL KEY-OPERATED QUICK-GRIP™ COLLET CHUCK FOR MANUAL LATHES







- Now you can enjoy the same great features of the Royal Quick-Grip™ CNC Collet Chuck on your manual engine lathes, including ten-second collet changes and parallel-grip collets with a full 0.062" clamping range.
- □ No hydraulic actuator needed chuck is operated with a traditional square-drive chuck key (included) via a side-access screw.
- In addition to manual lathe applications, this chuck can also be utilized on indexers, rotary tables, etc.
- By eliminating the drawtube and offering a full 2-5/8" thru capacity (compared to 1-1/16" of a 5C collet closer), users can make much better use of their lathe's spindle capacity.
- Very accurate 0.0005" TIR guaranteed!
- Balanced to 4,000 rpm.
- □ Superior gripping force up to 16,860 lbs.
- Order backplate separately. Other backplate styles available as custom order.
- □ For use with Royal QG-65 collets and installation tools (pages 26-44).
- Note this product is specifically designed for use on manual equipment not equipped with a hydraulic actuator. For CNC lathes, better performance will be achieved through the use of Royal CNC Collet Chucks.



#### Royal Key-Operated Quick-Grip™ Collet Chuck for Manual Lathes\*

MODEL	CAPACITY	А	В	С	D	MAX TIGHTENING TORQUE (ftlbs.)	MAX CLAMPING FORCE (lbs.)	PART Number	PRICE	
QG-65	2.66	7.87	4.92	4.45	1.38	118	16,860	43920	\$5,950	

<sup>\*</sup>Order backplate, collets, and installation tool separately.

### **Backplates for Key-Operated QG Collet Chuck**

MODEL	PLATE Diameter	PLATE THICKNESS	PART Number	PRICE
A2-5	7.87	1.10	43930	\$1,195
A2-6	7.87	1.18	43932	1,310
D1-5	7.87	1.60	43934	1,515
D1-6	7.87	1.85	43936	1,835

- Hardened and precision ground.
- □ Backplates accept Royal Quick-Grip<sup>™</sup> stops featured on page 26.





## ROYAL QUICK-GRIP™ CNC COLLET CHUCK ACCESSORIES

## Royal Quick-Grip™ Collet Installation Tools

- Easy to use tools enable collets to be changed in seconds.
- Simply insert the steel pins into the collet face holes and squeeze the trigger to collapse the collet.
- Available in both manual and pneumatic versions.
   Note pneumatic changing tools require an air supply line.



#### **Royal Quick-Grip™ Collet Installation Tools**

PRICE	PART NUMBER	TYPE	FITS CHUCK MODEL
\$616	44195	Manual	QG-32
616	44097	Manual	QG-42
1,555	44371	Pneumatic	QG-42
616	44095	Manual	QG-52
1,410	44359	Pneumatic	QG-52
616	44098	Manual	QG-65
1,555	44372	Pneumatic	QG-65
616	44099	Manual	QG-80
2,655	44373	Pneumatic	QG-80
2,655	44374	Pneumatic	QG-100

## Royal Quick-Grip™ Standard and Extra-Depth Stops

- A stop is used for accurate z-axis positioning of short workpieces within a collet.
- Rod length is easily adjusted according to workpiece parameters.
- Royal's easy-to-install stop assemblies locate against a shoulder within the chuck body and are held rigidly in-place with radiallylocated screws.





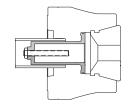
### **Royal Quick-Grip™ Standard Stops**

FITS	MAX THR	OAT DEPTH*		
CHUCK Model	ACCU-LENGTH CHUCK MODELS	PULL-TO-A-STOP CHUCK MODELS	PART Number	PRICE
QG-32	2.10	N/A	44090	\$220
QG-42	2.03	2.89	44080	220
QG-52	2.17	3.04	44818	220
QG-65	2.47	3.33	44081	249
QG-80	2.46	3.33	44084	284
QG-100	2.71	3.65	44816	322

<sup>\*</sup> Measured from collet face.

- □ Royal Quick-Grip™ Extra-Depth Stops have a greater throat depth than the standard stops, enabling longer parts to be swallowed while minimizing protrusion beyond the collet face.
- □ For use with Royal Accu-Length™ and Pull-to-a-Stop Quick-Grip™ CNC Collet Chuck Models.





### **Royal Quick-Grip™ Extra-Depth Stops**

FITS CHUCK Model	MAX THROACCU-LENGTH CHUCK MODELS	OAT DEPTH* PULL-TO-A-STOP CHUCK MODELS	MAX Part Diameter	MIN Drawtube I.D.	PART NUMBER	PRICE
QG-32	5.00	N/A	0.88	1.29	44800	\$388
QG-42	5.00	5.86	1.25	1.66	44802	388
QG-52	5.00	5.87	1.38	1.78	44803	388
QG-65	6.00	6.86	1.25	1.66	44804	438
QG-65	6.00	6.86	2.25	2.73	44806	438
QG-80	5.95	6.82	2.00	2.48	44808	529
QG-80	5.95	6.82	2.75	3.23	44810	529
QG-100	6.00	6.94	2.75	3.23	44812	639
QG-100	6.00	6.94	3.50	3.91	44814	639

<sup>\*</sup> Measured from collet face.



## ROYAL QUICK-GRIP™ CNC COLLET CHUCK ACCESSORIES



## **Royal Quick-Grip™ Ejectors**

- □ Ejectors are used in sub-spindle applications with Royal Quick-Grip<sup>TM</sup> Accu-Length<sup>TM</sup> CNC Collet Chucks to push finished workpieces into the part catcher upon completion.
- A hardened plunger rod and a bronze bushing work together to provide smooth, consistent operation.
- Design enables tip to be changed without removing ejector assembly from the chuck.
- Available in standard and compact models:
  - Standard Model for parts ranging in size from 0.81" to 4.00" dia.
  - Compact Model for parts ranging in size from 0.18" to 1.50" dia.
- Easily customizable as workpiece configurations require.
- Pneumatic versions also available upon request.

For an alternative solution to an ejector, check out the Royal Grippex Coolant-Actuated Bar Puller. The Grippex, when fitted with special jaws, can be used to pull finished parts from a sub-spindle, eliminating the need for an ejector and freeing up the spindle bore to swallow longer parts.





#### **Royal Quick-Grip™ Ejectors**

FITS ACCU-LENGTH™ CHUCK MODEL	EJECTOR Style	PART DIAMETER Range	PART Number	PRICE
QG-32	Compact	0.18-1.25	44033	\$973
QG-42	Compact	0.18-1.25	44043	973
QG-42	Standard	0.81-1.63	44040	1,125
QG-52	Compact	0.18-1.25	44037	973
QG-52	Standard	0.81-2.03	44035	1,125
QG-65	Compact	0.18-1.25	44044	989
QG-65	Standard	0.81-2.63	44041	1,145
QG-80	Compact	0.18-1.25	44045	1,010
QG-80	Standard	0.81-3.25	44042	1,160
QG-100	Compact	0.50-1.50	44047	1,030
QG-100	Standard	1.50-4.00	44046	1,180

## **Royal Hardened and Ground Adapter Plates**





- Adapter plates offer the flexibility to mount collet chucks and 3-jaw chucks to a wider range of spindles:
  - Mount a larger chuck on a smaller spindle for increased capacity.
  - Mount a smaller chuck on a larger spindle for increased tool clearance and higher speeds.
- All Royal adapter plates are hardened to Rc 61-63.
- □ High accuracy 0.0002" TIR guaranteed.
- Metric screws included for mounting plate to spindle.
- Drive button included on all plates.

#### **Royal Hardened and Ground Adapter Plates**

SPINDLE Mount	CHUCK Mount	PLATE DIAMETER	PLATE THICKNESS	THRU-HOLE DIA.	SPINDLE Mounting Bolts	CHUCK MOUNT THREADS	PART Number	PRICE
A2-5	A2-6	6.68	1.00	2.63	M-10	M-12	44000	\$1,750
A2-6	A2-6	6.68	1.25	3.56	M-12	M-12	44009	1,560
A2-6	A2-8	8.68	1.00	3.75	M-12	M-16	44004	2,025
A2-8	A2-6	8.25	1.75	3.44	M-16	M-12	44010	2,025
A2-8	A2-8	8.69	2.00	4.76	M-16	M-16	44011	2,130
A2-11	A2-8	11.00	2.00	4.76	M-20	M-16	44014	2,570
110MM	A2-5	5.31	0.75	2.00	M-10	M-10	44006	1,520
140MM	A2-6	6.68	1.00	3.00	M-10	M-12	44008	1,810

Other configurations available. Contact a Royal Products applications engineer at 1-800-645-4174 with your requirements.





## Full Range of Inch and Metric Sizes Available from Stock



#### These Extremely Advanced Collets Will Revolutionize Your Workholding

- □ Industry-leading 0.062" Gripping Range (0.080" for QG-100) greater than other quick-change collets on the market and more than 12X that of traditional spring collets (see page 8).
- Royal Quick-Grip Collets are precision-ground to nominal size, with a gripping range of +/- 0.31" to handle undersized/oversized stock (+/- 0.40" for QG-100).
  - **Example** a  $\frac{1}{2}$ " QG-65 collet is ground to 0.500" dia., and can hold any part ranging in size from 0.469" 0.531" dia.
- □ Ultra-Precision Accuracy 0.0002" TIR or better guaranteed on round-bores (see page 8). Total system accuracy (chuck + collet) guaranteed to 0.0004" or better.
- □ All Royal Quick-Grip<sup>TM</sup> Collets are designed for minimal projection beyond the chuck face (≤ 0.020") for optimum rigidity and machine work-zone utilization.
- All models have a smooth gripping surface, but round-bores are also available from stock in a double-serrated version for very aggressive first-op machining.

- □ Vulcanized rubber between the hardened steel collet segments provides outstanding protection against coolant and chip penetration, and Royal's advanced vulcanization process carries a lifetime guarantee against failure.
- □ Collets can be counter-bored for increased capacity (see page 42).
- S-type master collets available for QG-65 and QG-80 chuck models
   see page 44.
- □ Royal Quick-Grip™ Collets are compatible with some other brands of quick-change chucks, but note that the QG-80 and QG-100 models have a six-slot design (for increased gripping torque) that requires the use of a Royal installation tool. Call us to verify compatibility.
- Custom sizes and shapes available as quick-ship specials. Collet segments can also be carbide-coated for extremely harsh applications. Contact one of our applications engineers at 1-800-645-4174 to discuss your requirements.

#### Royal Ultra-Precision Quick-Grip™ Collet Specifications

				ROUND	HEX	SQUARE			
COLLET Model	COLLET RANGE	NUMBER OF SLOTS	MAXIMUM Thru Capacity	MAXIMUM Capacity When Counter-Bored**	MAXIMUM Thru Capacity	MAXIMUM Thru Capacity	EMERGENCY COLLETS AVAILABLE	CUSTOM SIZES AND SHAPES AVAILABLE	CARBIDE COATING AVAILABLE
QG-32	0.062	3	1.28	1.80	1.09	0.91	Υ	Υ	Υ
QG-42	0.062	3	1.66	2.62	1.40	1.15	Υ	Υ	Υ
QG-52	0.062	3	2.03	2.57	1.78	1.41	Υ	Υ	Υ
QG-65	0.062	3	2.66	3.40	2.28	1.78	Υ	Υ	Υ
QG-80	0.062	6*	3.28	4.00	2.78	2.03	Υ	Υ	Υ
QG-100	0.080	6*	4.03	5.15	3.28	2.78	Υ	Υ	Υ

<sup>\*</sup> The unique six-slot design of the Royal QG-80 and QG-100 Quick-Grip™ collets provides increased workpiece contact over the entire gripping range for superior gripping torque over other brands.

<sup>\*\*</sup> Counter-boring collets is a special operation and it is important to note that the maximum counter-bore diameter varies with depth. For more information, please see page 42 or contact Royal.





## Why Do Top Manufacturers Insist on Royal Quick-Grip™ Collets?

Industry-Leading 0.062" Gripping Range (0.080" for QG-100) Covers More Diameters with Fewer Collets

Ultra-Precision Accuracy – 0.0002" TIR or Better

Vulcanization
Guaranteed for Life

Parallel-Grip Maintains Full-Length Part Engagement

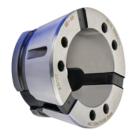
rers Collets **Exceptional Grip-Force Enables Very Aggressive Cutting** 

Exclusive Royal Risk-Free Performance Guarantee

Fast Delivery on Custom Shapes and Sizes – See Page 43

Special Slot Relief Grinding Eliminates "Collet Popping" and Minimizes Chuck Wear

### **Order Today – Have it Tomorrow**



Round-Smooth



Round-Serrated



Hex



Square



**Emergency** 

Thousands of Round, Hex, Square and Emergency Collets IN-STOCK for SAME-DAY SHIPPING!



**QG-32** 



QG-32	CAPACITY
Bar Diameter	1.28" (32.5mm)
Slug Diameter*	1.80" (45.7mm)

- \* See page 42 for details.
- ☐ Huge inventory of Round, Hex, Square, and Emergency styles always in stock, ready for same-day shipping.
- □ Industry-leading 0.062" gripping range covers a wide range of part diameters. Collets are ground to nominal size and have a range of +/-0.031".
- Parallel-grip ensures full-length part contact for maximum grip force, rigidity, and accuracy.
- Can be counter-bored for increased part capacity up to 1.80" see page 42 for details.
- Quick-ship specials available for custom shapes.







**Round Metric** 



Hex



Square



**Emergency** 

#### Royal QG-32 Round Collets (Inch) - \$312 Each

NOMINAL SIZE	RANGE (INCHES)	SMOOTH Part number	SERRATED Part number
<sup>3</sup> /16 <sup>11</sup>	0.157-0.219	45300	N/A
<sup>7</sup> /32 <sup>11</sup>	0.188-0.250	45301	N/A
1/4"	0.219-0.281	45302	N/A
9/32"	0.250-0.312	45303	N/A
<sup>5</sup> /16 <sup>11</sup>	0.282-0.344	45304	Call
11/32"	0.313-0.375	45305	Call
3/8"	0.344-0.406	45306	Call
13/32 <b>"</b>	0.375-0.437	45307	Call
<sup>7</sup> /16 <sup>11</sup>	0.407-0.469	45308	Call
15/32"	0.438-0.500	45309	Call
1/2"	0.469-0.531	45310	Call
17/32"	0.500-0.562	45311	Call

NOMINAL SIZE	RANGE (INCHES)	SMOOTH Part number	SERRATED Part Number
9/16"	0.532-0.594	45312	Call
<sup>19</sup> /32"	0.563-0.625	45313	Call
5/8"	0.594-0.656	45314	Call
21/32"	0.625-0.687	45315	Call
11/ <sub>16</sub> "	0.657-0.719	45316	Call
23/32"	0.688-0.750	45317	Call
3/4"	0.719-0.781	45318	Call
25/32 <sup>III</sup>	0.750-0.812	45319	Call
13/ <sub>16</sub> "	0.782-0.844	45320	Call
<sup>27</sup> / <sub>32</sub> "	0.813-0.875	45321	Call
7/8"	0.844-0.906	45322	Call
29/32"	0.875-0.937	45323	Call

NOMINAL SIZE	RANGE (INCHES)	SMOOTH Part number	SERRATED Part number
<sup>15</sup> / <sub>16</sub> "	0.907-0.969	45324	Call
31/32"	0.938-1.000	45325	Call
1"	0.969-1.031	45326	Call
11/32"	1.000-1.062	45327	Call
11/16"	1.032-1.094	45328	Call
13/32"	1.063-1.125	45329	Call
11/8"	1.094-1.156	45330	Call
15/32"	1.125-1.187	45331	Call
1 <sup>3</sup> /16"	1.157-1.219	45332	Call
17/32"	1.188-1.250	45333	Call
11/4"	1.219-1.281	45334	Call

**QG-32** 





#### Royal QG-32 Round Collets (Metric) – \$312 Each

NOMINAL SIZE         RANGE (mm)         SMOOTH PART NUMBER         SERRATED PART NUMBE           4mm         3.25-4.75         63300         N/A           5mm         4.25-5.75         63301         N/A           6mm         5.25-6.75         63302         N/A           7mm         6.25-7.75         63303         N/A
5mm 4.25–5.75 63301 N/A 6mm 5.25–6.75 63302 N/A
6mm 5.25-6.75 63302 N/A
,
7mm 6.25–7.75 63303 N/A
8mm 7.25-8.75 63304 N/A
9mm 8.25-9.75 63305 Call
10mm 9.25-10.75 63306 Call
11mm 10.25-11.75 63307 Call
12mm 11.25-12.75 63308 Call
13mm 12.25-13.75 63309 Call

- /	T		
NOMINAL SIZE	RANGE (mm)	SMOOTH Part Number	SERRATED Part Number
14mm	13.25-14.75	63310	Call
15mm	14.25-15.75	63311	Call
16mm	15.25-16.75	63312	Call
17mm	16.25-17.75	63313	Call
18mm	17.25-18.75	63314	Call
19mm	18.25-19.75	63315	Call
20mm	19.25-20.75	63316	Call
21mm	20.25-21.75	63317	Call
22mm	21.25-22.75	63318	Call
23mm	22.25-23.75	63319	Call

NOMINAL SIZE	RANGE (mm)	SMOOTH Part number	SERRATED Part number
24mm	23.25-24.75	63320	Call
25mm	24.25-25.75	63321	Call
26mm	25.25-26.75	63322	Call
27mm	26.25-27.75	63323	Call
28mm	27.25-28.75	63324	Call
29mm	28.25-29.75	63325	Call
30mm	29.25-30.75	63326	Call
31mm	30.25-31.75	63327	Call
32mm	31.25-32.75	63328	Call

#### Royal QG-32 Hex Collets – \$466 Each

NOMINAL SIZE	RANGE (INCHES)	PART NUMBER
1/4"	0.219-0.281	45370
<sup>5</sup> /16"	0.282-0.344	45371
3/8"	0.344-0.406	45372
<sup>7</sup> /16"	0.407-0.469	45373
1/2	0.469-0.531	45374

NOMINAL SIZE	RANGE (INCHES)	PART NUMBER
<sup>9</sup> /16 <sup>11</sup>	0.532-0.594	45375
5/8"	0.594-0.656	45376
<sup>11</sup> / <sub>16</sub> "	0.657-0.719	45377
3/4"	0.719-0.781	45378
<sup>13</sup> / <sub>16</sub> "	0.782-0.844	45379

NOMINAL SIZE	RANGE (INCHES)	PART NUMBER
<sup>7</sup> /8"	0.844-0.906	45380
<sup>15</sup> / <sub>16</sub> "	0.907-0.969	45381
1"	0.969-1.031	45382
11/16"	1.032-1.094	45383

#### **Royal QG-32 Square Collets – \$466 Each**

NOMINAL SIZE	RANGE (INCHES)	PART NUMBER
1/4"	0.219-0.281	45390
3/8"	0.344-0.406	45391

NOMINAL SIZE	RANGE (INCHES)	PART NUMBER
1/2"	0.469-0.531	45392
5/8"	0.594-0.656	45393

NOMINAL SIZE	RANGE (INCHES)	PART NUMBER
3/4"	0.719-0.781	45394
7/8"	0.844-0.906	45395

Royal QG-32 Emergency Collets – \$366 Each – See Page 42



Check out the Royal Quick-Grip™ CNC Collet Chuck Video at www.colletchucks.com







QG-42 CAPACITY						
Bar Diameter	1.66" (42.8mm)					
Slug Diameter*	2.62" (66.5mm)					

<sup>\*</sup> See page 42 for details.

- ☐ Huge inventory of Round, Hex, Square, and Emergency styles always in stock, ready for same-day shipping.
- Smooth and serrated versions for round-bore models (all others smooth only).
- □ Industry-leading 0.062" gripping range covers a wide range of part diameters. Collets are ground to nominal size and have a range of +/- 0.031".
- Parallel-grip ensures full-length part contact for maximum grip force, rigidity, and accuracy.
- Can be counter-bored for increased part capacity up to 2.62" see page 42 for details.
- Quick-ship specials available for custom shapes.
- Can utilize manual and pneumatic changing tools.







**Round Metric** 



Serrated



Hex



Square



**Emergency** 

#### Royal QG-42 Round Collets (Inch) - \$312 Each

NOMINAL SIZE	RANGE (INCHES)	SMOOTH Part number	SERRATED Part number
3/16 <sup>11</sup>	0.157-0.219	44101	N/A
<sup>7</sup> /32 <sup>11</sup>	0.188-0.250	44102	N/A
1/4"	0.219-0.281	44103	N/A
9/32"	0.250-0.312	44104	N/A
<sup>5</sup> /16 <sup>11</sup>	0.282-0.344	44105	N/A
11/32"	0.313-0.375	44106	44155
3/8"	0.344-0.406	44107	44156
13/32"	0.375-0.437	44108	44157
<sup>7</sup> /16 <sup>11</sup>	0.407-0.469	44109	44158
15/32"	0.438-0.500	44110	44159
1/2"	0.469-0.531	44111	44160
<sup>17</sup> /32"	0.500-0.562	44112	44161
<sup>9</sup> /16 <sup>11</sup>	0.532-0.594	44113	44162
19/32"	0.563-0.625	44114	44163
5/8"	0.594-0.656	44115	44164
21/32"	0.625-0.687	44116	44165

NOMINAL SIZE	RANGE (INCHES)	SMOOTH Part number	SERRATED Part Number
11/16"	0.657-0.719	44117	44166
23/32"	0.688-0.750	44118	44167
3/4"	0.719-0.781	44119	44168
<sup>25</sup> / <sub>32</sub> "	0.750-0.812	44120	44169
<sup>13</sup> / <sub>16</sub> "	0.782-0.844	44121	44170
27/32"	0.813-0.875	44122	44171
7/8"	0.844-0.906	44123	44172
29/32"	0.875-0.937	44124	44173
<sup>15</sup> /16 <sup>11</sup>	0.907-0.969	44125	44174
31/32"	0.938-1.000	44126	44175
1"	0.969-1.031	44127	44176
11/32"	1.000-1.062	44128	Call
11/16"	1.032-1.094	44129	44177
13/32"	1.063-1.125	44130	Call
11/8"	1.094-1.156	44131	44178
15/32"	1.125-1.187	44132	Call

NOMINAL	RANGE	SMOOTH	SERRATED
SIZE	(INCHES)	PART NUMBER	PART NUMBER
<b>1</b> 3/16"	1.157-1.219	44133	44179
17/32"	1.188-1.250	44134	Call
11/4"	1.219-1.281	44135	44180
19/32"	1.250-1.312	44136	Call
<b>1</b> <sup>5</sup> /16"	1.282-1.344	44137	44181
<b>1</b> <sup>11</sup> / <sub>32</sub> "	1.313-1.375	44138	Call
13/8"	1.344-1.406	44139	44182
1 13/32 "	1.375-1.437	44140	Call
<b>1</b> <sup>7</sup> /16"	1.407-1.469	44141	44183
1 <sup>15</sup> /32"	1.438-1.500	44142	Call
11/2"	1.469-1.531	44143	44184
1 <sup>17</sup> /32"	1.500-1.562	44144	Call
19/16"	1.532-1.594	44145	44185
119/32"	1.563-1.625	44146	Call
15/8"	1.594-1.656	44147	44186



#### Royal QG-42 Round Collets (Metric) – \$312 Each

NOMINAL SIZE	RANGE (mm)	SMOOTH Part number	SERRATED Part number	NOMINAL SIZE	RANGE (mm)	SMOOTH Part number	SERRATED Part Number	NOMINAL SIZE	RANGE (mm)	SMOOTH Part number	SERRATED Part Numbi
4mm	3.25-4.75	62100	N/A	17mm	16.25-17.75	62126	62208	30mm	29.25-30.75	62152	62221
5mm	4.25-5.75	62102	N/A	18mm	17.25-18.75	62128	62209	31mm	30.25-31.75	62154	62222
6mm	5.25-6.75	62104	N/A	19mm	18.25-19.75	62130	62210	32mm	31.25-32.75	62156	62223
7mm	6.25-7.75	62106	N/A	20mm	19.25-20.75	62132	62211	33mm	32.25-33.75	62158	62224
8mm	7.25-8.75	62108	N/A	21mm	20.25-21.75	62134	62212	34mm	33.25-34.75	62160	62225
9mm	8.25-9.75	62110	62200	22mm	21.25-22.75	62136	62213	35mm	34.25-35.75	62162	62226
10mm	9.25-10.75	62112	62201	23mm	22.25-23.75	62138	62214	36mm	35.25-36.75	62164	62227
11mm	10.25-11.75	62114	62202	24mm	23.25-24.75	62140	62215	37mm	36.25-37.75	62166	62228
12mm	11.25-12.75	62116	62203	25mm	24.25-25.75	62142	62216	38mm	37.25-38.75	62168	62229
13mm	12.25-13.75	62118	62204	26mm	25.25-26.75	62144	62217	39mm	38.25-39.75	62170	62230
14mm	13.25-14.75	62120	62205	27mm	26.25-27.75	62146	62218	40mm	39.25-40.75	62172	62231
15mm	14.25-15.75	62122	62206	28mm	27.25-28.75	62148	62219	41mm	40.25-41.75	62174	62232
16mm	15.25-16.75	62124	62207	29mm	28.25-29.75	62150	62220	42mm	41.25-42.75	62176	62233

#### Royal QG-42 Hex Collets – \$466 Each

NOMINAL SIZE	RANGE (INCHES)	PART NUMBER	NOMINAL SIZE	RANGE (INCHES)	PART NUMBER	NOMINAL SIZE	RANGE (INCHES)	PART NUMBER
1/4"	0.219-0.281	44375	3/4"	0.719-0.781	44383	1 <sup>1</sup> / <sub>4</sub> "	1.219-1.281	44391
3/8"	0.344-0.406	44377	7/8"	0.844-0.906	44385	13/8"	1.344-1.406	44393
1/2"	0.469-0.531	44379	1"	0.969-1.031	44387			
5/8"	0.594-0.656	44381	11/8"	1.094-1.156	44389			

#### **Royal QG-42 Square Collets – \$466 Each**

NOMINAL SIZE	RANGE (INCHES)	PART NUMBER	NOMINAL SIZE	RANGE (INCHES)	PART NUMBER	NOMINAL SIZE	RANGE (INCHES)	PART NUMBER
1/4"	0.219-0.281	44670	5/8"	0.594-0.656	44676	1"	0.969-1.031	44682
3/8"	0.344-0.406	44672	3/4"	0.719-0.781	44678	11/8"	1.094-1.156	44684
1/2"	0.469-0.531	44674	7/8"	0.844-0.906	44680			

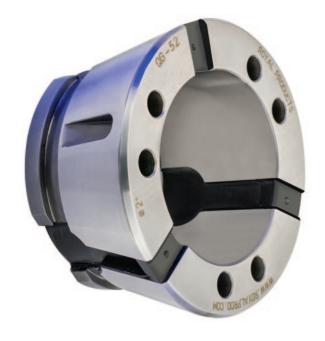
Royal QG-42 Emergency Collets – \$366 Each – See Page 42







**QG-52** 



QG-52 C	CAPACITY
Bar Diameter	2.03" (51.6mm)
Slug Diameter*	2.57" (64.3mm)

- \* See page 42 for details.
- ☐ Huge inventory of Round, Hex, Square, and Emergency styles always in stock, ready for same-day shipping.
- Smooth and serrated versions for round-bore models (all others smooth only).
- □ Industry-leading 0.062" gripping range covers a wide range of part diameters. Collets are ground to nominal size and have a range of +/- 0.031".
- Parallel-grip ensures full-length part contact for maximum grip force, rigidity, and accuracy.
- □ Can be counter-bored for increased part capacity up to 2.57" see page 42 for details.
- Quick-ship specials available for custom shapes.
- Can utilize manual and pneumatic changing tools.







**Round Metric** 



Serrated



Hex



Square



**Emergency** 

#### Royal QG-52 Round Collets (Inch) - \$312 Each

NOMINAL SIZE	RANGE (INCHES)	SMOOTH Part number	SERRATED Part number
<sup>3</sup> /16"	0.157-0.219	45600	N/A
7/32"	0.188-0.250	45601	N/A
1/4"	0.219-0.281	45602	N/A
9/32"	0.250-0.312	45603	N/A
<sup>5</sup> /16"	0.282-0.344	45604	N/A
11/32"	0.313-0.375	45605	45665
3/8"	0.344-0.406	45606	45666
<sup>13</sup> / <sub>32</sub> "	0.375-0.437	45607	45667
<sup>7</sup> /16"	0.407-0.469	45608	45668
15/32"	0.438 - 0.500	45609	45669
1/2"	0.469-0.531	45610	45670
<sup>17</sup> /32 <sup>III</sup>	0.500-0.562	45611	45671
<sup>9</sup> /16"	0.532-0.594	45612	45672
<sup>19</sup> /32"	0.563-0.625	45613	45673
5/8"	0.594-0.656	45614	45674
<sup>21</sup> / <sub>32</sub> "	0.625-0.687	45615	45675
<sup>11</sup> / <sub>16</sub> "	0.657-0.719	45616	45676
23/32"	0.688-0.750	45617	45677
3/4"	0.719-0.781	45618	45678
25/32"	0.750-0.812	45619	45679

NOMINAL SIZE	RANGE (INCHES)	SMOOTH Part Number	SERRATED Part number
<sup>13</sup> /16"	0.782-0.844	45620	45680
<sup>27</sup> / <sub>32</sub> "	0.813-0.875	45621	45681
7/8"	0.844-0.906	45622	45682
29/32"	0.875-0.937	45623	45683
<sup>15</sup> / <sub>16</sub> "	0.907-0.969	45624	45684
31/32"	0.938-1.000	45625	45685
1"	0.969-1.031	45626	45686
11/32"	1.000-1.062	45627	N/A
11/16"	1.032-1.094	45628	45687
13/32"	1.063-1.125	45629	N/A
11/8"	1.094-1.156	45630	45688
15/32"	1.125-1.187	45631	N/A
13/16"	1.157-1.219	45632	45689
17/32"	1.188-1.250	45633	N/A
11/4"	1.219-1.281	45634	45690
19/32"	1.250-1.312	45635	N/A
15/16"	1.282-1.344	45636	45691
111/32"	1.313-1.375	45637	N/A
13/8"	1.344-1.406	45638	45692
113/32"	1.375-1.437	45639	N/A

NOMINAL SIZE	RANGE (INCHES)	SMOOTH Part number	SERRATED Part number
17/16"	1.407-1.469	45640	45693
115/32"	1.438-1.500	45641	N/A
11/2"	1.469-1.531	45642	45694
1 <sup>17</sup> /32"	1.500-1.562	45643	N/A
19/16"	1.532-1.594	45644	45695
1 <sup>19</sup> /32"	1.563-1.625	45645	N/A
15/8"	1.594-1.656	45646	45696
1 <sup>21</sup> /32"	1.625-1.687	45647	N/A
111/16"	1.657-1.719	45648	45697
123/32"	1.688-1.750	45649	N/A
13/4"	1.719-1.781	45650	45698
1 <sup>25</sup> /32"	1.750-1.812	45651	N/A
1 <sup>13</sup> /16"	1.782-1.844	45652	45699
1 <sup>27</sup> /32"	1.813-1.875	45653	N/A
17/8"	1.844-1.906	45654	45700
129/32"	1.875-1.937	45655	N/A
1 <sup>15</sup> /16"	1.907-1.969	45656	45701
1 <sup>31</sup> / <sub>32</sub> "	1.938-2.000	45657	N/A
2"	1.969-2.031	45658	45702





### Royal QG-52 Round Collets (Metric) – \$312 Each

NOMINAL	RANGE	SMOOTH	SERRATED
SIZE	(mm)	PART NUMBER	PART NUMBER
4mm	3.25-4.75	63200	N/A
5mm	4.25-5.75	63201	N/A
6mm	5.25-6.75	63202	N/A
7mm	6.25-7.75	63203	N/A
8mm	7.25-8.75	63204	N/A
9mm	8.25-9.75	63205	63250
10mm	9.25-10.75	63206	63251
11mm	10.25-11.75	63207	63252
12mm	11.25-12.75	63208	63253
13mm	12.25-13.75	63209	63254
14mm	13.25-14.75	63210	63255
15mm	14.25-15.75	63211	63256
16mm	15.25-16.75	63212	63257
17mm	16.25-17.75	63213	63258
18mm	17.25-18.75	63214	63259
19mm	18.25-19.75	63215	63260
20mm	19.25-20.75	63216	63261

NOMINAL SIZE	RANGE (mm)	SMOOTH Part Number	SERRATED PART NUMBER
21mm	20.25-21.75	63217	63262
22mm	21.25-22.75	63218	63263
23mm	22.25-23.75	63219	63264
24mm	23.25-24.75	63220	63265
25mm	24.25-25.75	63221	63266
26mm	25.25-26.75	63222	63267
27mm	26.25-27.75	63223	63268
28mm	27.25-28.75	63224	63269
29mm	28.25-29.75	63225	63270
30mm	29.25-30.75	63226	63271
31mm	30.25-31.75	63227	63272
32mm	31.25-32.75	63228	63273
33mm	32.25-33.75	63229	63274
34mm	33.25-34.75	63230	63275
35mm	34.25-35.75	63231	63276
36mm	35.25-36.75	63232	63277
37mm	36.25-37.75	63233	63278

NOMINAL SIZE	RANGE (mm)	SMOOTH Part Number	SERRATED Part Number
38mm	37.25-38.75	63234	63279
39mm	38.25-39.75	63235	63280
40mm	39.25-40.75	63236	63281
41mm	40.25-41.75	63237	63282
42mm	41.25-42.75	63238	63283
43mm	42.25-43.75	63239	63284
44mm	43.25-44.75	63240	63285
45mm	44.25-45.75	63241	63286
46mm	45.25-46.75	63242	63287
47mm	46.25-47.75	63243	63288
48mm	47.25-48.75	63244	63289
49mm	48.25-49.75	63245	63290
50mm	49.25-50.75	63246	63291
51mm	50.25-51.75	63247	63292
52mm	51.25-52.75	63248	63293

#### Royal QG-52 Hex Collets – \$466 Each

NOMINAL SIZE	RANGE (INCHES)	PART NUMBER
1/4"	0.219-0.281	45710
5/16 <sup>11</sup>	0.282-0.344	45711
3/8"	0.344-0.406	45712
<sup>7</sup> /16"	0.407-0.469	45713
1/2"	0.469-0.531	45714
<sup>9</sup> /16 <sup>11</sup>	0.532-0.594	45715
5/8"	0.594-0.656	45716
<sup>11</sup> / <sub>16</sub> "	0.657-0.719	45717
3/4"	0.719-0.781	45718

NOMINAL SIZE	RANGE (INCHES)	PART NUMBER
<sup>13</sup> / <sub>16</sub> "	0.782-0.844	45719
<sup>7</sup> /8"	0.844-0.906	45720
<sup>15</sup> / <sub>16</sub> "	0.907-0.969	45721
1"	0.969-1.031	45722
11/16"	1.032-1.094	45723
11/8"	1.094-1.156	45724
13/16"	1.156-1.219	45725
11/4"	1.219-1.281	45726
15/16"	1.281-1.344	45727

1 <sup>3</sup> / <sub>8</sub> " 1.344–1.406 45728	
47/ 11	
17/16" 1.406–1.469 45729	
1½" 1.469–1.531 45730	
1%16" 1.531–1.594 45731	
1 <sup>5</sup> / <sub>8</sub> " 1.594–1.656 45732	
111/16" 1.656-1.719 45733	
1 <sup>3</sup> / <sub>4</sub> " 1.719–1.781 45734	

#### Royal QG-52 Square Collets - \$466 Each

NOMINAL SIZE	RANGE (INCHES)	PART NUMBER
1/4"	0.219-0.281	45740
3/8"	0.344-0.406	45742
1/2"	0.469-0.531	45744
5/8"	0.594-0.656	45746

NOMINAL SIZE	RANGE (INCHES)	PART NUMBER
3/4"	0.719-0.781	45748
<sup>7</sup> /8"	0.844-0.906	45750
1"	0.969-1.031	45752
11/8"	1.094-1.156	45754

NOMINAL SIZE	RANGE (INCHES)	PART NUMBER
11/4"	1.219-1.281	45756
13/8"	1.344-1.406	45758

Royal QG-52 Emergency Collets – \$366 Each – See Page 42



Check out the Royal Quick-Grip™ CNC Collet Chuck Video at www.colletchucks.com

**QG-65** 



QG-65 C	APACITY
Bar Diameter	2.66" (65.8mm)
Slug Diameter*	3.40" (86.4mm)

- \* See page 42 for details.
- ☐ Huge inventory of Round, Hex, Square, and Emergency styles always in stock, ready for same-day shipping.
- □ Industry-leading 0.062" gripping range covers a wide range of part diameters. Collets are ground to nominal size and have a range of +/- 0.031".
- Parallel-grip ensures full-length part contact for maximum grip force, rigidity, and accuracy.
- □ Can be counter-bored for increased part capacity up to 3.40" see page 42 for details.
- Quick-ship specials available for custom shapes.
- Can utilize manual and pneumatic changing tools.













**Round Inch** 

Round Metric

Square

Emergency

#### Royal QG-65 Round Collets (Inch) - \$366 Each

NOMINAL SIZE	RANGE (INCHES)	SMOOTH Part number	SERRATED Part Number	NO
3/16 <sup>III</sup>	0.157-0.219	44201	N/A	
7/32"	0.188-0.250	44202	N/A	
1/4"	0.219-0.281	44203	N/A	
9/32"	0.250-0.312	44204	N/A	
<sup>5</sup> /16"	0.282-0.344	44205	N/A	
11/32 <b>"</b>	0.313-0.375	44206	44306	
3/8"	0.344-0.406	44207	44307	
13/32 II	0.375-0.437	44208	44308	
<sup>7</sup> /16"	0.407-0.469	44209	44309	
15/32"	0.438-0.500	44210	44310	
1/2"	0.469-0.531	44211	44311	1
17/32 II	0.500-0.562	44212	44312	
9/16"	0.532-0.594	44213	44313	1
19/32 II	0.563-0.625	44214	44314	
5/8"	0.594-0.656	44215	44315	1
<sup>21</sup> / <sub>32</sub> "	0.625-0.687	44216	44316	
<sup>11</sup> / <sub>16</sub> "	0.657-0.719	44217	44317	1
23/32"	0.688-0.750	44218	44318	
3/4"	0.719-0.781	44219	44319	1
<sup>25</sup> / <sub>32</sub> "	0.750-0.812	44220	44320	
<sup>13</sup> / <sub>16</sub> "	0.782-0.844	44221	44321	1
<sup>27</sup> /32 <sup>III</sup>	0.813-0.875	44222	44322	1
<sup>7</sup> /8"	0.844-0.906	44223	44323	1
29/32"	0.875-0.937	44224	44324	
<sup>15</sup> / <sub>16</sub> "	0.907-0.969	44225	44325	1
31/ <sub>32</sub> "	0.938-1.000	44226	44326	1
1"	0.969-1.031	44227	44327	1

1½2" 1.000-1.062 44228 Call 1½16" 1.032-1.094 44229 44328 1⅓22" 1.063-1.125 44230 Call 1½6" 1.094-1.156 44231 44329 1⅓22" 1.125-1.187 44232 Call 1⅓22" 1.125-1.187 44233 44330 1⅓22" 1.157-1.219 44233 44330 1⅓22" 1.188-1.250 44234 Call 1⅓14" 1.219-1.281 44235 44331 1⅓32" 1.250-1.312 44236 Call 1⅓16" 1.282-1.344 44237 44332 1⅓22" 1.313-1.375 44238 Call 1⅓16" 1.344-1.406 44239 44333 1⅓22" 1.375-1.437 44240 Call 1⅓16" 1.448-1.500 44242 Call 1⅓16" 1.448-1.500 44242 Call 1⅓22" 1.500-1.562 44244 Call 1⅓22" 1.500-1.562 44244 Call 1⅓26" 1.532-1.594 44245 44336
1½2" 1.063-1.125 44230 Call 1½" 1.094-1.156 44231 44329 1½2" 1.125-1.187 44232 Call 1½1" 1.157-1.219 44233 44330 1½2" 1.188-1.250 44234 Call 1½1" 1.219-1.281 44235 44331 1¾2" 1.250-1.312 44236 Call 1½1" 1.282-1.344 44237 44332 1½2" 1.313-1.375 44238 Call 1¾3" 1.344-1.406 44239 44333 1³½2" 1.375-1.437 44240 Call 1¾10" 1.407-1.469 44241 44334 1³½2" 1.469-1.531 44242 Call 1½1" 1.469-1.531 44243 44335 1³½2" 1.500-1.562 44244 Call
1½"         1.094-1.156         44231         44329           1½z"         1.125-1.187         44232         Call           1½""         1.157-1.219         44233         44330           1½z"         1.188-1.250         44234         Call           1½"         1.219-1.281         44235         44331           1½s"         1.250-1.312         44236         Call           1½"s"         1.282-1.344         44237         44332           1½s"         1.313-1.375         44238         Call           1¾"         1.344-1.406         44239         44333           1¾s"         1.344-1.406         44249         Call           1½r"         1.407-1.469         44241         44334           1½sz"         1.438-1.500         44242         Call           1½"         1.469-1.531         44243         44335           1½"         1.500-1.562         44244         Call
15/32" 1.125-1.187 44232 Call 15/16" 1.157-1.219 44233 44330 11/32" 1.188-1.250 44234 Call 11/4" 1.219-1.281 44235 44331 15/32" 1.250-1.312 44236 Call 15/16" 1.282-1.344 44237 44332 11/32" 1.313-1.375 44238 Call 13/4" 1.344-1.406 44239 44333 113/32" 1.375-1.437 44240 Call 17/16" 1.407-1.469 44241 44334 115/32" 1.438-1.500 44242 Call 11/2" 1.469-1.531 44243 44335 117/32" 1.500-1.562 44244 Call
13/16" 1.157-1.219 44233 44330 11/32" 1.188-1.250 44234 Call 11/4" 1.219-1.281 44235 44331 13/32" 1.250-1.312 44236 Call 15/16" 1.282-1.344 44237 44332 11/32" 1.313-1.375 44238 Call 13/4" 1.344-1.406 44239 44333 113/32" 1.375-1.437 44240 Call 17/16" 1.407-1.469 44241 44334 115/32" 1.438-1.500 44242 Call 11/2" 1.469-1.531 44243 44335 117/32" 1.500-1.562 44244 Call
1½z"         1.188-1.250         44234         Call           1½"         1.219-1.281         44235         44331           1½z"         1.250-1.312         44236         Call           1½ıe"         1.282-1.344         44237         44332           1½z"         1.313-1.375         44238         Call           1¾"         1.344-1.406         44239         44333           1½z"         1.375-1.437         44240         Call           1½ıe"         1.407-1.469         44241         44334           1½z"         1.438-1.500         44242         Call           1½z"         1.469-1.531         44243         44335           1½z"         1.500-1.562         44244         Call
11/4" 1.219-1.281 44235 44331 11/32" 1.250-1.312 44236 Call 15/16" 1.282-1.344 44237 44332 11/32" 1.313-1.375 44238 Call 13/4" 1.344-1.406 44239 44333 11/3/2" 1.375-1.437 44240 Call 17/16" 1.407-1.469 44241 44334 115/32" 1.438-1.500 44242 Call 11/2" 1.469-1.531 44243 44335 117/32" 1.500-1.562 44244 Call
1%/32"         1.250-1.312         44236         Call           15/16"         1.282-1.344         44237         44332           11/32"         1.313-1.375         44238         Call           13/4"         1.344-1.406         44239         44333           11/32"         1.375-1.437         44240         Call           17/16"         1.407-1.469         44241         44334           115/32"         1.438-1.500         44242         Call           11/2"         1.469-1.531         44243         44335           117/32"         1.500-1.562         44244         Call
15/16"         1.282-1.344         44237         44332           11/32"         1.313-1.375         44238         Call           13/4"         1.344-1.406         44239         44333           11/32"         1.375-1.437         44240         Call           17/16"         1.407-1.469         44241         44334           115/32"         1.438-1.500         44242         Call           11/2"         1.469-1.531         44243         44335           117/32"         1.500-1.562         44244         Call
1¹/½²         1.313-1.375         44238         Call           1³/6"         1.344-1.406         44239         44333           1³/½²         1.375-1.437         44240         Call           1²/½°         1.407-1.469         44241         44334           1¹5/½²         1.438-1.500         44242         Call           1½²         1.469-1.531         44243         44335           1¹½²²         1.500-1.562         44244         Call
13/4"       1.344-1.406       44239       44333         113/22"       1.375-1.437       44240       Call         17/16"       1.407-1.469       44241       44334         115/32"       1.438-1.500       44242       Call         11/2"       1.469-1.531       44243       44335         117/32"       1.500-1.562       44244       Call
1 <sup>13</sup> / <sub>12</sub> " 1.375–1.437 44240 Call 1 <sup>1</sup> / <sub>16</sub> " 1.407–1.469 44241 44334 1 <sup>15</sup> / <sub>12</sub> " 1.438–1.500 44242 Call 1 <sup>1</sup> / <sub>2</sub> " 1.469–1.531 44243 44335 1 <sup>11</sup> / <sub>12</sub> " 1.500–1.562 44244 Call
17/16"     1.407-1.469     44241     44334       115/32"     1.438-1.500     44242     Call       11/2"     1.469-1.531     44243     44335       117/32"     1.500-1.562     44244     Call
1 <sup>15</sup> / <sub>32</sub> " 1.438-1.500 44242 Call 1 <sup>1</sup> / <sub>2</sub> " 1.469-1.531 44243 44335 1 <sup>17</sup> / <sub>32</sub> " 1.500-1.562 44244 Call
1½" 1.469–1.531 44243 44335 1½" 1.500–1.562 44244 Call
1 <sup>17</sup> / <sub>32</sub> " 1.500–1.562 44244 Call
19/16" 1 532-1 594 44245 44336
17.5 1.002 1.004 44240 44000
1 <sup>19</sup> / <sub>32</sub> " 1.563–1.625 44246 Call
15%" 1.594–1.656 44247 44337
1 <sup>21</sup> / <sub>32</sub> " 1.625–1.687 44248 Call
111/16" 1.657-1.719 44249 44338
1 <sup>23</sup> / <sub>32</sub> " 1.688–1.750 44250 Call
13/4" 1.719–1.781 44251 44339
1 <sup>25</sup> / <sub>32</sub> " 1.750–1.812 44252 Call
1 <sup>13</sup> /16" 1.782-1.844 44253 44340
1 <sup>27</sup> / <sub>32</sub> " 1.813–1.875 44254 Call

17/6"         1.844-1.906         44255         44341           129/32"         1.875-1.937         44256         Call           115/16"         1.907-1.969         44257         44342           131/32"         1.938-2.000         44279         Call           2"         1.969-2.031         44258         44343           2/32"         2.000-2.062         44259         Call           2/4"         2.032-2.094         44260         4344           2½2"         2.063-2.125         44261         Call           2½6"         2.094-2.156         44262         44345           2½32"         2.125-2.187         44263         Call           2½32"         2.185-2.219         44264         44346           2½32"         2.188-2.250         44265         Call           2½32"         2.219-2.281         44266         44347           2½4"         2.219-2.281         44267         Call           2½4"         2.280-2.312         44267         Call           2½1/2"         2.282-2.344         44268         44348           2½1/2"         2.313-2.375         44269         Call
$\begin{array}{cccccccccccccccccccccccccccccccccccc$
2 <sup>7</sup> /s²"       2.188-2.250       44265       Call         2 <sup>1</sup> /4"       2.219-2.281       44266       44347         2 <sup>9</sup> /s²"       2.250-2.312       44267       Call         2 <sup>5</sup> /s²"       2.282-2.344       44268       44348
2½"       2.219-2.281       44266       44347         2½32"       2.250-2.312       44267       Call         2½½"       2.282-2.344       44268       44348
2 <sup>9</sup> / <sub>32</sub> " 2.250–2.312 44267 Call 2 <sup>5</sup> / <sub>16</sub> " 2.282–2.344 44268 44348
2 <sup>5</sup> /16" 2.282–2.344 44268 44348
1, 11010
2 <sup>11</sup> / <sub>32</sub> " 2 313_2 375 44269 Call
2 / LOID 2.010 TT200 Call
23/8" 2.344-2.406 44270 44349
2 <sup>13</sup> / <sub>32</sub> " 2.375–2.437 44271 Call
2 <sup>7</sup> /16 <sup>11</sup> 2.407–2.469 44272 44350
2 <sup>15</sup> / <sub>32</sub> " 2.438–2.500 44273 Call
2½" 2.469–2.531 44274 44351
2 <sup>17</sup> / <sub>32</sub> " 2.500–2.562 44275 Call
2 <sup>9</sup> /16 <sup>11</sup> 2.532–2.594 44276 44352
2 <sup>19</sup> / <sub>32</sub> " 2.563–2.625 44277 N/A
2 <sup>5</sup> /s" 2.594–2.656 44278 N/A





#### Royal QG-65 Round Collets (Metric) – \$366 Each

NOMINAL SIZE	RANGE (mm)	SMOOTH Part number	SERRATED Part Number
4mm	3.25-4.75	62300	N/A
5mm	4.25-5.75	62302	N/A
6mm	5.25-6.75	62304	N/A
7mm	6.25-7.75	62306	N/A
8mm	7.25-8.75	62308	N/A
9mm	8.25-9.75	62310	62500
10mm	9.25-10.75	62312	62501
11mm	10.25-11.75	62314	62502
12mm	11.25-12.75	62316	62503
13mm	12.25-13.75	62318	62504
14mm	13.25-14.75	62320	62505
15mm	14.25-15.75	62322	62506
16mm	15.25-16.75	62324	62507
17mm	16.25-17.75	62326	62508
18mm	17.25-18.75	62328	62509
19mm	18.25-19.75	62330	62510
20mm	19.25-20.75	62332	62511
21mm	20.25-21.75	62334	62512
22mm	21.25-22.75	62336	62513
23mm	22.25-23.75	62338	62514
24mm	23.25-24.75	62340	62515

	1		
NOMINAL SIZE	RANGE (mm)	SMOOTH Part number	SERRATED PART NUMBER
25mm	24.25-25.75	62342	62516
26mm	25.25-26.75	62344	62517
27mm	26.25-27.75	62346	62518
28mm	27.25-28.75	62348	62519
29mm	28.25-29.75	62350	62520
30mm	29.25-30.75	62352	62521
31mm	30.25-31.75	62354	62522
32mm	31.25-32.75	62356	62523
33mm	32.25-33.75	62358	62524
34mm	33.25-34.75	62360	62525
35mm	34.25-35.75	62362	62526
36mm	35.25-36.75	62364	62527
37mm	36.25-37.75	62366	62528
38mm	37.25-38.75	62368	62529
39mm	38.25-39.75	62370	62530
40mm	39.25-40.75	62372	62531
41mm	40.25-41.75	62374	62532
42mm	41.25-42.75	62376	62533
43mm	42.25-43.75	62378	62534
44mm	43.25-44.75	62380	62535
45mm	44.25-45.75	62382	62536

NOMINAL SIZE	RANGE (mm)	SMOOTH Part number	SERRATED Part number
46mm	45.25-46.75	62384	62537
47mm	46.25-47.75	62386	62538
48mm	47.25-48.75	62388	62539
49mm	48.25-49.75	62390	62540
50mm	49.25-50.75	62392	62541
51mm	50.25-51.75	62394	62542
52mm	51.25-52.75	62396	62543
53mm	52.25-53.75	62398	62544
54mm	53.25-54.75	62400	62545
55mm	54.25-55.75	62402	62546
56mm	55.25-56.75	62404	62547
57mm	56.25-57.75	62406	62548
58mm	57.25-58.75	62408	62549
59mm	58.25-59.75	62410	62550
60mm	59.25-60.75	62412	N/A
61mm	60.25-61.75	62414	N/A
62mm	61.25-62.75	62416	N/A
63mm	62.25-63.75	62418	N/A
64mm	63.25-64.75	62420	N/A
65mm	64.25-65.75	62422	N/A

#### Royal QG-65 Hex Collets – \$586 Each

NOMINAL SIZE	RANGE (INCHES)	PART NUMBER
5/16 <sup>11</sup>	0.282-0.344	44700
3/8"	0.344-0.406	44701
<sup>7</sup> /16"	0.407-0.469	44702
1/2"	0.469-0.531	44703
9/16 <b>"</b>	0.532-0.594	44704
5/8"	0.594-0.656	44705
<sup>11</sup> / <sub>16</sub> "	0.657-0.719	44706
3/4"	0.719-0.781	44707
<sup>13</sup> /16"	0.782-0.844	44708
<sup>7</sup> /8"	0.844-0.906	44709
<sup>15</sup> /16"	0.907-0.969	44710

NOMINAL SIZE	RANGE (INCHES)	PART NUMBER
1"	0.969-1.031	44711
11/16"	1.032-1.094	44712
11/8"	1.094-1.156	44713
13/16"	1.156-1.219	44714
11/4"	1.219-1.281	44715
<b>1</b> <sup>5</sup> / <sub>16</sub> "	1.281-1.344	44716
13/8"	1.344-1.406	44717
<b>1</b> <sup>7</sup> / <sub>16</sub> "	1.406-1.469	44718
11/2"	1.469-1.531	44719
<b>1</b> 9/16"	1.531-1.594	44720
15/8"	1.594-1.656	44721

NOMINAL SIZE	RANGE (INCHES)	PART NUMBER
111/16"	1.656-1.719	44722
13/4"	1.719-1.781	44723
1 13/16"	1.781-1.844	44724
17/8"	1.844-1.906	44725
1 <sup>15</sup> / <sub>16</sub> "	1.906-1.969	44726
2"	1.969-2.031	44727
21/16"	2.031-2.094	44728
21/8"	2.094-2.156	44729
2 <sup>3</sup> /16"	2.156-2.219	44730
21/4"	2.219-2.281	44731

### Royal QG-65 Square Collets – \$586 Each

NOMINAL SIZE	RANGE (INCHES)	PART NUMBER
3/8"	0.344-0.406	44787
1/2"	0.469-0.531	44734
5/8"	0.594-0.656	44788
3/4"	0.719-0.781	44735

NOMINAL SIZE	RANGE (INCHES)	PART NUMBER
<sup>7</sup> /8"	0.844-0.906	44789
1"	0.969-1.031	44736
11/8"	1.094-1.156	44790
11/4"	1.219-1.281	44737

NOMINAL SIZE	RANGE (INCHES)	PART NUMBER
13/8"	1.344-1.406	44791
11/2"	1.469-1.531	44738
15/8"	1.594-1.656	44792
13/4"	1.719-1.781	44739

Royal QG-65 Emergency Collets – \$411 Each – See Page 42





QG-80 CAPACITY								
Bar Diameter	3.28" (80.8mm)							
Slug Diameter*	4.00" (101.6mm)							

<sup>\*</sup> See page 42 for details.

- ☐ Huge inventory of Round, Hex, Square, and Emergency styles always in stock, ready for same-day shipping.
- Industry-leading 0.062" gripping range covers a wide range of part diameters. Collets are ground to nominal size and have a range of +/- 0.031".
- Parallel-grip ensures full-length part contact for maximum grip force, rigidity, and accuracy.
- Six-segment design further increases gripping torque.
- Can be counter-bored for increased part capacity up to 4.00" see page 42 for details.
- Can utilize manual and pneumatic changing tools.



**Round Inch** 



**Round Metric** 



Serrated



Hex



**Square** 



Emergency

#### Royal QG-80 Round Collets\* (Inch) - \$565 Each

NOMINAL SIZE	RANGE (INCHES)	SMOOTH Part number	SERRATED Part number	NOMINAL SIZE	RANGE (INCHES)	SMOOTH Part number	SERRATED Part number	NOMINAL SIZE	RANGE (INCHES)	SMOOTH Part number	SERRATED Part number
1/4"	0.219-0.281	44403	N/A	<b>1</b> <sup>5</sup> /16"	1.282-1.344	44437	44537	23/8"	2.344-2.406	44471	44571
5/16 <b>"</b>	0.282-0.344	44405	N/A	13/8"	1.344-1.406	44439	44539	27/16"	2.407-2.469	44473	44573
3/8"	0.344-0.406	44407	N/A	17/16"	1.407-1.469	44441	44541	21/2"	2.469-2.531	44475	44575
<sup>7</sup> /16 <sup>11</sup>	0.407-0.469	44409	44509	11/2"	1.469-1.531	44443	44543	29/16"	2.532-2.594	44477	44577
1/2"	0.469-0.531	44411	44511	19/16"	1.532-1.594	44445	44545	25/8"	2.594-2.656	44479	44579
9/16"	0.532-0.594	44413	44513	15/8"	1.594-1.656	44447	44547	2 <sup>11</sup> / <sub>16</sub> "	2.657-2.719	44481	44581
5/8"	0.594-0.656	44415	44515	1 11/16"	1.657-1.719	44449	44549	23/4"	2.719-2.781	44483	44583
<sup>11</sup> / <sub>16</sub> "	0.657-0.719	44417	44517	13/4"	1.719-1.781	44451	44551	2 <sup>13</sup> /16"	2.782-2.844	44485	44585
3/4"	0.719-0.781	44419	44519	1 13/16"	1.782-1.844	44453	44553	27/8"	2.844-2.906	44487	44587
13/16 <sup>III</sup>	0.782-0.844	44421	44521	17/8"	1.844-1.906	44455	44555	215/16"	2.907-2.969	44489	44589
7/8"	0.844-0.906	44423	44523	1 15/16"	1.907-1.969	44457	44557	3"	2.969-3.031	44491	44591
<sup>15</sup> /16"	0.907-0.969	44425	44525	2"	1.969-2.031	44459	44559	31/16"	3.032-3.094	44493	N/A
1"	0.969-1.031	44427	44527	21/16"	2.032-2.094	44461	44561	31/8"	3.094-3.156	44495	N/A
<b>1</b> <sup>1</sup> /16"	1.032-1.094	44429	44529	21/8"	2.094-2.156	44463	44563	33/16"	3.157-3.219	44497	N/A
11/8"	1.094-1.156	44431	44531	23/16"	2.157-2.219	44465	44565	31/4"	3.219-3.281	44499	N/A
<b>1</b> <sup>3</sup> / <sub>16</sub> "	1.157-1.219	44433	44533	21/4"	2.219-2.281	44467	44567				
11/4"	1.219-1.281	44435	44535	25/16"	2.282-2.344	44469	44569				

<sup>\*</sup>Royal QG-80 collets have six segments instead of three for increased gripping torque.





#### Royal QG-80 Round Collets\* (Metric) - \$565 Each

NOMINAL SIZE	RANGE (mm)	SMOOTH Part number	SERRATED Part Number	NOMINAL SIZE	RANGE (mm)	SMOOTH Part number	SERRATED Part Number	NOMINAL SIZE	RANGE (mm)	SMOOTH Part Number	SERRATED Part Number
7mm	6.25-7.75	62600	N/A	32mm	31.25-32.75	62650	62821	57mm	56.25-57.75	62700	62846
8mm	7.25-8.75	62602	N/A	33mm	32.25-33.75	62652	62822	58mm	57.25-58.75	62702	62847
9mm	8.25-9.75	62604	N/A	34mm	33.25-34.75	62654	62823	59mm	58.25-59.75	62704	62848
10mm	9.25-10.75	62606	N/A	35mm	34.25-35.75	62656	62824	60mm	59.25-60.75	62706	62849
11mm	10.25-11.75	62608	62800	36mm	35.25-36.75	62658	62825	61mm	60.25-61.75	62708	62850
12mm	11.25-12.75	62610	62801	37mm	36.25-37.75	62660	62826	62mm	61.25-62.75	62710	62851
13mm	12.25-13.75	62612	62802	38mm	37.25-38.75	62662	62827	63mm	62.25-63.75	62712	62852
14mm	13.25-14.75	62614	62803	39mm	38.25-39.75	62664	62828	64mm	63.25-64.75	62714	62853
15mm	14.25-15.75	62616	62804	40mm	39.25-40.75	62666	62829	65mm	64.25-65.75	62716	62854
16mm	15.25-16.75	62618	62805	41mm	40.25-41.75	62668	62830	66mm	65.25-66.75	62718	62855
17mm	16.25-17.75	62620	62806	42mm	41.25-42.75	62670	62831	67mm	66.25-67.75	62720	62856
18mm	17.25-18.75	62622	62807	43mm	42.35-43.75	62672	62832	68mm	67.25-68.75	62722	62857
19mm	18.25-19.75	62624	62808	44mm	43.25-44.75	62674	62833	69mm	68.25-69.75	62724	62858
20mm	19.25-20.75	62626	62809	45mm	44.25-45.75	62676	62834	70mm	69.25-70.75	62726	62859
21mm	20.25-21.75	62628	62810	46mm	45.25-46.75	62678	62835	71mm	70.25-71.75	62728	62860
22mm	21.25-22.75	62630	62811	47mm	46.25-47.75	62680	62836	72mm	71.25-72.75	62730	62861
23mm	22.25-23.75	62632	62812	48mm	47.25-48.75	62682	62837	73mm	72.25-73.75	62732	62862
24mm	23.25-24.75	62634	62813	49mm	48.25-49.75	62684	62838	74mm	73.25-74.75	62734	62863
25mm	24.25-25.75	62636	62814	50mm	49.25-50.75	62686	62839	75mm	74.25-75.75	62736	62864
26mm	25.25-26.75	62638	62815	51mm	50.25-51.75	62688	62840	76mm	75.25-76.75	62738	62865
27mm	26.25-27.75	62640	62816	52mm	51.25-52.75	62690	62841	77mm	76.25-77.75	62740	62866
28mm	27.25-28.75	62642	62817	53mm	52.25-53.75	62692	62842	78mm	77.25-78.75	62742	N/A
29mm	28.25-29.75	62644	62818	54mm	53.25-54.75	62694	62843	79mm	78.25-79.75	62744	N/A
30mm	29.25-30.75	62646	62819	55mm	54.25-55.75	62696	62844	80mm	79.25-80.75	62746	N/A
31mm	30.25-31.75	62648	62820	56mm	55.25-56.75	62698	62845				

<sup>\*</sup>Royal QG-80 collets have six segments instead of three for increased gripping torque.

#### Royal QG-80 Hex Collets\* – \$872 Each

NOMINAL SIZE	RANGE (INCHES)	PART NUMBER	NOMINAL SIZE	RANGE (INCHES)	PART NUMBER	NOMINAL SIZE	RANGE (INCHES)	PART NUMBER
3/8"	0.344-0.406	44778	13/16"	1.156-1.219	44752	2"	1.969-2.031	44765
<sup>7</sup> /16 <b>"</b>	0.407-0.469	44740	11/4"	1.219-1.281	44753	21/16"	2.031-2.094	44766
1/2"	0.469-0.531	44741	1 <sup>5</sup> /16"	1.281-1.344	44754	21/8"	2.094-2.156	44767
<sup>9</sup> /16"	0.532-0.594	44742	13/8"	1.344-1.406	44755	23/16"	2.156-2.219	44768
5/8"	0.594-0.656	44743	<b>1</b> <sup>7</sup> /16 <b>"</b>	1.406-1.469	44756	21/4"	2.219-2.281	44769
<sup>11</sup> / <sub>16</sub> "	0.657-0.719	44744	11/2"	1.469-1.531	44757	25/16"	2.281-2.344	44770
3/4"	0.719-0.781	44745	<b>1</b> 9/16 <b>"</b>	1.531-1.594	44758	23/8	2.344-2.406	44771
<sup>13</sup> / <sub>16</sub> "	0.782-0.844	44746	15/8"	1.594-1.656	44759	27/16"	2.406-2.469	44772
<sup>7</sup> /8"	0.844-0.906	44747	<b>1</b> 11/16"	1.656-1.719	44760	21/2"	2.469-2.531	44773
<sup>15</sup> / <sub>16</sub> "	0.907-0.969	44748	13/4"	1.719-1.781	44761	29/16"	2.531-2.594	44774
1"	0.969-1.031	44749	1 13/16"	1.781-1.844	44762	2 <sup>5</sup> /8"	2.594-2.656	44775
<b>1</b> ½/16 <b>"</b>	1.032-1.094	44750	17/8"	1.844-1.906	44763	211/16"	2.656-2.719	44776
11/8"	1.094-1.156	44751	1 15/16"	1.906-1.969	44764	23/4"	2.719-2.781	44777

<sup>\*</sup>Royal QG-80 collets have six segments instead of three for increased gripping torque.

### Royal QG-80 Square Collets\* – \$872 Each

NOMINAL SIZE	RANGE (INCHES)	PART NUMBER	NOMINAL SIZE	RANGE (INCHES)	PART NUMBER
3/8"	0.344-0.406	44793	1"	0.969-1.031	44782
1/2"	0.469-0.531	44780	11/8"	1.094-1.156	44796
5/8"	0.594-0.656	44794	11/4"	1.219-1.281	44783
3/4"	0.719-0.781	44781	13/8"	1.344-1.406	44797
7/8"	0.844-0.906	44795	11/2"	1.469-1.531	44784

NOMINAL SIZE	RANGE (INCHES)	PART NUMBER
15/8"	1.594-1.656	44798
13/4"	1.719-1.781	44785
17/8"	1.844-1.906	44799
2"	1.969-2.031	44786

Royal QG-80 Emergency Collets – \$620 Each – See Page 42



<sup>\*</sup>Royal QG-80 collets have six segments instead of three for increased gripping torque.





QG-100 CAPACITY								
Bar Diameter	4.03" (100.8mm)							
Slug Diameter*	5.15" (130.8mm)							

<sup>\*</sup> See page 42 for details.

- ☐ Huge inventory of Round, Hex, Square, and Emergency styles always in stock, ready for same-day shipping.
- Smooth and serrated versions for round-bore models (all others smooth only).
- Industry-leading 0.080" gripping range covers a wide range of part diameters. Collets are ground to nominal size and have a range of +/- 0.040".
- Parallel-grip ensures full-length part contact for maximum grip force, rigidity, and accuracy.
- □ Six-segment design further increases gripping torque.
- Can be counter-bored for increased part capacity up to 5.15" see page 42 for details.
- Quick-ship specials available for custom shapes.
- Utilizes pneumatic changing tool.



**Round Inch** 



**Round Metric** 



Serrated



Hex



**Square** 



**Emergency** 

#### Royal QG-100 Round Collets\* (Inch) - \$844 Each

NOMINAL SIZE	RANGE (INCHES)	SMOOTH Part number	SERRATED Part Number	NOMINAL SIZE	RANGE (INCHES)	SMOOTH Part number	SERRATED Part Number	NOMINAL SIZE	RANGE (INCHES)	SMOOTH Part number	SERRATED Part number
5/8"	0.585-0.665	45012	N/A	1 13/16"	1.773-1.853	45031	45206	3"	2.960-3.040	45050	45225
11/16"	0.648-0.728	45013	N/A	17/8"	1.835-1.915	45032	45207	31/16"	3.023-3.103	45051	45226
3/4"	0.710-0.790	45014	N/A	1 15/16"	1.898-1.978	45033	45208	31/8"	3.085-3.165	45052	45227
<sup>13</sup> /16"	0.773-0.853	45015	N/A	2"	1.960-2.040	45034	45209	33/16"	3.148-3.228	45053	45228
7/8"	0.835-0.915	45016	N/A	21/16"	2.023-2.103	45035	45210	31/4"	3.210-3.290	45054	45229
<sup>15</sup> /16"	0.898-0.978	45017	N/A	21/8"	2.085-2.165	45036	45211	35/16"	3.273-3.353	45055	45230
1"	0.960-1.040	45018	N/A	23/16"	2.148-2.228	45037	45212	33/8"	3.335-3.415	45056	45231
11/16"	1.023-1.103	45019	N/A	21/4"	2.210-2.290	45038	45213	37/16"	3.398-3.478	45057	45232
11/8"	1.085-1.165	45020	N/A	25/16"	2.273-2.353	45039	45214	31/2"	3.460-3.540	45058	45233
13/16"	1.148-1.228	45021	N/A	23/8"	2.335-2.415	45040	45215	39/16"	3.523-3.603	45059	45234
11/4"	1.210-1.290	45022	N/A	27/16"	2.398-2.478	45041	45216	35/8"	3.585-3.665	45060	45235
15/16"	1.273-1.353	45023	N/A	21/2"	2.460-2.540	45042	45217	311/16"	3.648-3.728	45061	45236
13/8"	1.335-1.415	45024	N/A	29/16"	2.523-2.603	45043	45218	33/4"	3.710-3.790	45062	45237
17/16"	1.398-1.478	45025	N/A	25/8"	2.585-2.665	45044	45219	313/16"	3.773-3.853	45063	N/A
11/2"	1.460-1.540	45026	45201	211/16"	2.648-2.728	45045	45220	37/8"	3.835-3.915	45064	N/A
19/16"	1.523-1.603	45027	45202	23/4"	2.710-2.790	45046	45221	315/16"	3.898-3.978	45065	N/A
15/8"	1.585-1.665	45028	45203	213/16"	2.773-2.853	45047	45222	4"	3.960-4.040	45066	N/A
1 11/16"	1.648-1.728	45029	45204	27/8"	2.835-2.915	45048	45223				
13/4"	1.710-1.790	45030	45205	215/16"	2.898-2.978	45049	45224				

<sup>\*</sup>Royal QG-100 collets have six segments instead of three for increased gripping torque.





### Royal QG-100 Round Collets\* (Metric) - \$844 Each

NOMINAL SIZE	RANGE (mm)	SMOOTH Part number	SERRATED Part number	NOMINAL SIZE	RANGE (mm)	SMOOTH Part number	SERRATED Part number	NOMINAL SIZE	RANGE (mm)	SMOOTH Part number	SERRATED Part Number
16mm	15.0-17.0	62900	N/A	45mm	44.0-46.0	62958	63107	74mm	73.0-75.0	63016	63136
17mm	16.0-18.0	62902	N/A	46mm	45.0-47.0	62960	63108	75mm	74.0-76.0	63018	63137
18mm	17.0-19.0	62904	N/A	47mm	46.0-48.0	62962	63109	76mm	75.0-77.0	63020	63138
19mm	18.0-20.0	62906	N/A	48mm	47.0-49.0	62964	63110	77mm	76.0-78.0	63022	63139
20mm	19.0-21.0	62908	N/A	49mm	48.0-50.0	62966	63111	78mm	77.0-79.0	63024	63140
21mm	20.0-22.0	62910	N/A	50mm	49.0-51.0	62968	63112	79mm	78.0-80.0	63026	63141
22mm	21.0-23.0	62912	N/A	51mm	50.0-52.0	62970	63113	80mm	79.0-81.0	63028	63142
23mm	22.0-24.0	62914	N/A	52mm	51.0-53.0	62972	63114	81mm	80.0-82.0	63030	63143
24mm	23.0-25.0	62916	N/A	53mm	52.0-54.0	62974	63115	82mm	81.0-83.0	63032	63144
25mm	24.0-26.0	62918	N/A	54mm	53.0-55.0	62976	63116	83mm	82.0-84.0	63034	63145
26mm	25.0-27.0	62920	N/A	55mm	54.0-56.0	62978	63117	84mm	83.0-85.0	63036	63146
27mm	26.0-28.0	62922	N/A	56mm	55.0-57.0	62980	63118	85mm	84.0-86.0	63038	63147
28mm	27.0-29.0	62924	N/A	57mm	56.0-58.0	62982	63119	86mm	85.0-87.0	63040	63148
29mm	28.0-30.0	62926	N/A	58mm	57.0-59.0	62984	63120	87mm	86.0-88.0	63042	63149
30mm	29.0-31.0	62928	N/A	59mm	58.0-60.0	62986	63121	88mm	87.0-89.0	63044	63150
31mm	30.0-32.0	62930	N/A	60mm	59.0-61.0	62988	63122	89mm	88.0-90.0	63046	63151
32mm	31.0-33.0	62932	N/A	61mm	60.0-62.0	62990	63123	90mm	89.0-91.0	63048	63152
33mm	32.0-34.0	62934	N/A	62mm	61.0-63.0	62992	63124	91mm	90.0-92.0	63050	63153
34mm	33.0-35.0	62936	N/A	63mm	62.0-64.0	62994	63125	92mm	91.0-93.0	63052	63154
35mm	34.0-36.0	62938	N/A	64mm	63.0-65.0	62996	63126	93mm	92.0-94.0	63054	63155
36mm	35.0-37.0	62940	N/A	65mm	64.0-66.0	62998	63127	94mm	93.0-95.0	63056	63156
37mm	36.0-38.0	62942	N/A	66mm	65.0-67.0	63000	63128	95mm	94.0-96.0	63058	63157
38mm	37.0-39.0	62944	63100	67mm	66.0-68.0	63002	63129	96mm	95.0-97.0	63060	63158
39mm	38.0-40.0	62946	63101	68mm	67.0-69.0	63004	63130	97mm	96.0-98.0	63062	63159
40mm	39.0-41.0	62948	63102	69mm	68.0-70.0	63006	63131	98mm	97.0-99.0	63064	63160
41mm	40.0-42.0	62950	63103	70mm	69.0-71.0	63008	63132	99mm	98.0-100.0	63066	63161
42mm	41.0-43.0	62952	63104	71mm	70.0-72.0	63010	63133	100mm	99.0-101.00	63068	63162
43mm	42.0-44.0	62954	63105	72mm	71.0-73.0	63012	63134				
44mm	43.0-45.0	62956	63106	73mm	72.0-74.0	63014	63135				

<sup>\*</sup>Royal QG-100 collets have six segments instead of three for increased gripping torque.

### Royal QG-100 Hex Collets\* – \$1,176 Each

NOMINAL SIZE	RANGE (INCHES)	PART NUMBER	NOMINAL SIZE	RANGE (INCHES)	PART NUMBER	NOMINAL SIZE	RANGE (INCHES)	PART NUMBER
3/4"	0.710-0.790	44904	1 <sup>5</sup> /8"	1.585-1.665	44918	21/2"	2.460-2.540	44932
7/8 <b>"</b>	0.835-0.915	44906	13/4"	1.710-1.790	44920	25/8"	2.585-2.665	44934
1"	0.960-1.040	44908	17/8"	1.835-1.915	44922	23/4"	2.710-2.790	44936
11/8"	1.085-1.165	44910	2"	1.960-2.040	44924	27/8"	2.835-2.915	44938
11/4"	1.210-1.290	44912	21/8"	2.085-2.165	44926	3"	2.960-3.040	44940
13/8"	1.335-1.415	44914	21/4"	2.210-2.290	44928	31/8	3.085-3.165	44942
11/2"	1.460-1.540	44916	23/8"	2.335-2.415	44930	31/4"	3.210-3.290	44944

<sup>\*</sup>Royal QG-100 collets have six segments instead of three for increased gripping torque.

#### Royal QG-100 Square Collets\* - \$1,176 Each

NOMINAL	SIZE RANGE (INCHES)	PART NUMBER	NOMINAL SIZE	RANGE (INCHES)	PART NUMBER	NOMINAL	SIZE RANGE (INCHES)	PART NUMBER
1"	0.960-1.040	44950	15/8"	1.585-1.665	44960	21/4"	2.210-2.290	44970
11/8"	1.085-1.165	44952	13/4"	1.710-1.790	44962	23/8"	2.335-2.415	44972
11/4"	1.210-1.290	44954	17/8"	1.835-1.915	44964	21/2"	2.460-2.540	44974
13/8"	1.335-1.415	44956	2"	1.960-2.040	44966	25/8"	2.585-2.665	44976
11/2"	1.460-1.540	44958	21/8"	2.085-2.165	44968	23/4"	2.710-2.790	44978

<sup>\*</sup>Royal QG-100 collets have six segments instead of three for increased gripping torque.

#### Royal QG-100 Emergency Collets\* - \$1,019 Each - See Page 42



## ROYAL QUICK-GRIP™ EMERGENCY COLLETS



- □ Semi-hard Quick-Grip™ emergency collets are designed to be machined in-place by the user to accommodate special sizes, shapes, steps, etc.
- Available in assorted pilot hole sizes to minimize machining time.
- Collets can be counter-bored beyond standard capacity, eliminating the need for a three-jaw chuck on many jobs. The chart below provides some basic counter-bore guidelines, but many other diameter/depth combinations are possible. Please contact Royal for additional information.
- Boring fixture holds collet segments firmly in-place and puts collet under slight compression to ensure accuracy and roundness during machining.
   Order fixture separately.

### **Royal Quick-Grip™ Emergency Collets**

FITS CHUCK Model	PILOT HOLE SIZE	PART NUMBER	PRICE
QG-32	5mm (0.20")	44397	\$366
QG-42	5mm (0.20")	44187	366
QG-42	15mm (0.59")	44188	366
QG-52	8mm (0.31")	44395	366
QQ-32	15mm (0.59")	44396	366
	8mm (0.31")	44353	411
QG-65	20mm (0.79")	44354	411
	30mm (1.18")	44355	411
	8mm (0.31")	44360	620
QG-80	20mm (0.79")	44361	620
	40mm (1.57")	44362	620
	30mm (1.18")	44367	1,019
QG-100	45mm (1.77")	44368	1,019
	65mm (2.56")	44369	1,019

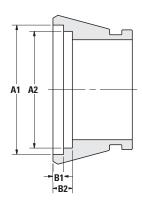


#### **Royal Boring Fixtures**

COLLET MODEL	PART NUMBER	PRICE
QG-32	44399	\$224
QG-42	44082	224
QG-52	44094	224
QG-65	44083	313
QG-80	44088	516
QG-100	44089	620

### **Royal Quick-Grip™ Collet Counter-Bore Guidelines**





- The parameters shown represent a sampling of counter-bore possibilities. Other diameter/depth combinations are possible.
   Please contact Royal with your specific requirements.
- ☐ For precise z-axis positioning, best practice is to use a Royal stop.
- Users can counter-bore their own emergency collets, or order to size as hardened and ground specials.
- For a better understanding of counter-bore collets and their use, please contact one of our applications engineers at 1-800-645-4174.

COLLET MODEL	A1	B1	A2	B2
QG-32	1.81	0.22	1.38	0.88
QG-42	2.62	0.28	2.53	0.39
QG-52	2.57	0.28	2.49	0.50
QG-65	3.40	0.28	3.07	0.51
QG-80	4.00	0.28	3.66	0.51
QG-100	5.15	0.28	4.61	0.79



## ROYAL CUSTOM QUICK-GRIP™ COLLETS



In addition to the thousands of standard Quick-Grip™ Collets we stock for same-day shipping, Royal also offers extensive design and manufacturing services for custom collets to suit unique workpiece shapes. The two main applications for custom collets are:

- Second-op turning where the gripping surface is not cylindrical.
- Milling applications where a Royal Power-Block™ Collet Fixture provides a superior workholding solution over conventional vises and prismatic fixtures.

Shown below are a few examples to highlight some of our capabilities. Please give one of our applications engineers a call today to discuss how custom Quick-Grip™ Collets can help optimize your manufacturing processes.



Have a Question? Give One of Our Engineers a Call at 1-800-645-4174





## ROYAL QUICK-GRIP™ S-TYPE MASTER COLLETS

Occasionally, customers express interest in using S-type collet pads to grip their parts. Although this outdated technology is typically not the best choice for most workholding applications, S-type collet pads can be utilized with Royal Quick-Grip™ CNC Collet Chucks via our Quick-Grip™ S-Type Master Collets. These master collets are available for Royal QG-65 and QG-80 chuck models, and are capable of accepting S-20, S-26, and S-30 collet pads.



- ☐ Three master collet models to choose from:
  - QG-65 Master Collet accepts S-20 collet pads (2" capacity)
  - QG-80 Master Collet accepts S-26 collet pads (2-5/8" capacity)
  - QG-80 Master Collet accepts S-30 collet pads (3" capacity)
- It is important to note that the master collet must be installed in the chuck prior to pad installation, thereby mitigating the system's quick-change advantage.
- Royal QG-80 master collets contain four segments instead of our traditional six, requiring the use of a special four-segment changing tool (sold separately below). The model 65 utilizes the same installation tool as our standard QG-65 collets.
- Due to the stacking of tolerances and complex geometry, the use of S-type collet pads will result in a significant reduction in accuracy. Most S-pad manufacturers will not guarantee their pads to run better than 0.001" − 0.0025" TIR. By contrast, Royal hardened and ground Quick-Grip™ collets are guaranteed accurate to 0.0002" TIR.
- □ The use of S-type pads reduces overall Quick-Grip™ chucking capacity. See chart below.

#### The Bottom Line

Using S-Type Collet Pads in a Royal Quick-Grip™ Collet Chuck may come in handy for some jobs, but their use will eliminate the quick-change feature and cause a reduction in both gripping capacity and overall system accuracy.

For the highest accuracy, best performance, and full Quick-Grip™ functionality, it is always best to utilize hardened and ground Royal Quick-Grip™ Collets.



44199 shown

#### **Royal Quick-Grip™ S-Type Master Collets**

CHUCK Model	S-TYPE PAD Model	MAXIMUM PAD Capacity*	MASTER COLLET Part number	PRICE**	
QG-65	S-20	2.00	44196	\$665	
QG-80	S-26	2.63	44197	955	
QG-80	S-30	3.00	44198	955	

<sup>\*</sup>Please note - normal thru-capacity is reduced when using S-type master collets and pads.

## Royal Collet Installation Tool For Use With Quick-Grip™ S-Type Master Collets

MASTER COLLET Model	NUMBER OF SEGMENTS	PART Number	PRICE
QG-65	3	44098	\$616
QG-80	4*	44199*	698

<sup>\*</sup>Please note that the model 80 installation tool is not the same as the one offered for our regular QG-80 collets because our hardened and ground QG-80 collets have six segments while the QG-80 master collet has four segments.



<sup>\*\*</sup>S-type pads not included with master collet. Order pads separately through your local tooling supplier.