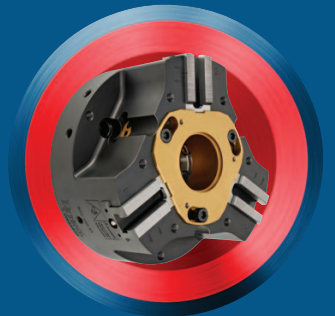
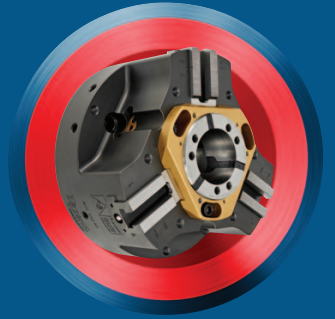
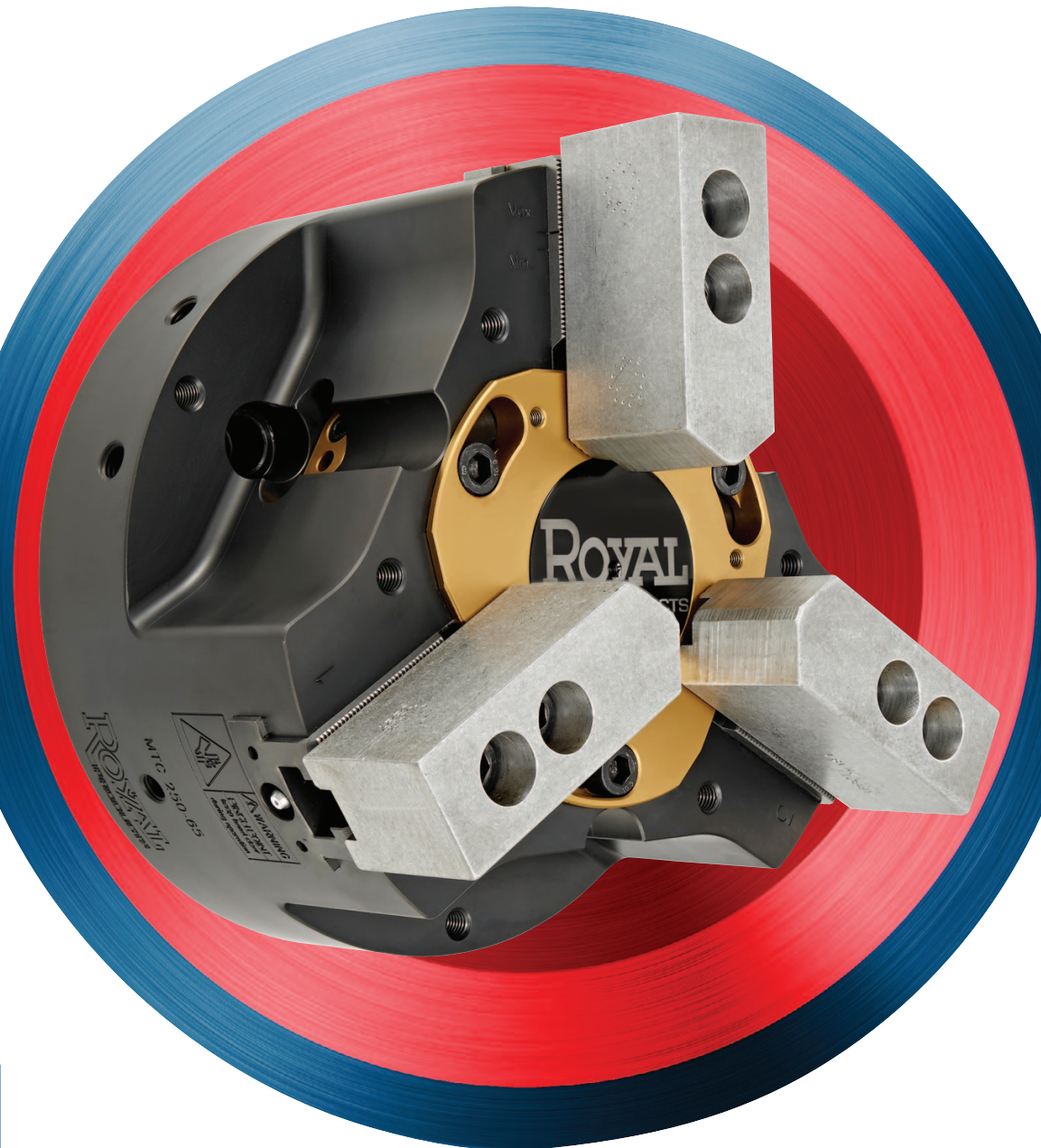




MTC™ MULTI-TASKING CHUCK

A REVOLUTIONARY 3-JAW CHUCK, COLLET CHUCK,
AND I.D. WORKHOLDING SYSTEM ALL-IN-ONE.

NEW



ROYAL
PRODUCTS
Optimize everything.



ROYAL MTC™ MULTI-TASKING CHUCK A True All-in-One CNC Lathe Chuck

**The Royal MTC™ is a Revolutionary 3-Jaw Chuck,
Collet Chuck, and I.D. Workholding System All-in-One**

No Need to Ever Change Your Chuck Again

Switching your lathe workholding as jobs demand can be a difficult process and eats up valuable production time. But no longer! With the Royal MTC™ it's a snap to change over between:

NEW

- ✓ 3-Jaw Chuck
- ✓ Quick-Grip™ CNC Collet Chuck
- ✓ I.D. Workholding System
- ✓ And much more...



Converting Between Jaw/Collet/I.D. Applications Takes Just Minutes and is Accomplished by **Simply Swapping the Quick-Change Center Hub. The Chuck Body Never Needs to be Removed from the Lathe Spindle!**

ROYAL MTC™ MULTI-TASKING CHUCK

A True All-in-One CNC Lathe Chuck



Setup Times Slashed

Change from jaw chuck to collet chuck to I.D. mandrel in minutes without ever removing the chuck from the spindle.

Ingenious Patent-Pending Design

Simply change out the hardened and ground TiN coated center hubs as applications require – chuck body always remains mounted to the lathe spindle.

Standard Top Tooling

All Royal MTC™ chucks incorporate base jaw serrations of 60° x 1.5mm as standard. Alternative base jaws with inch serrations or quick-change configurations are available as specials.

Extreme Rigidity

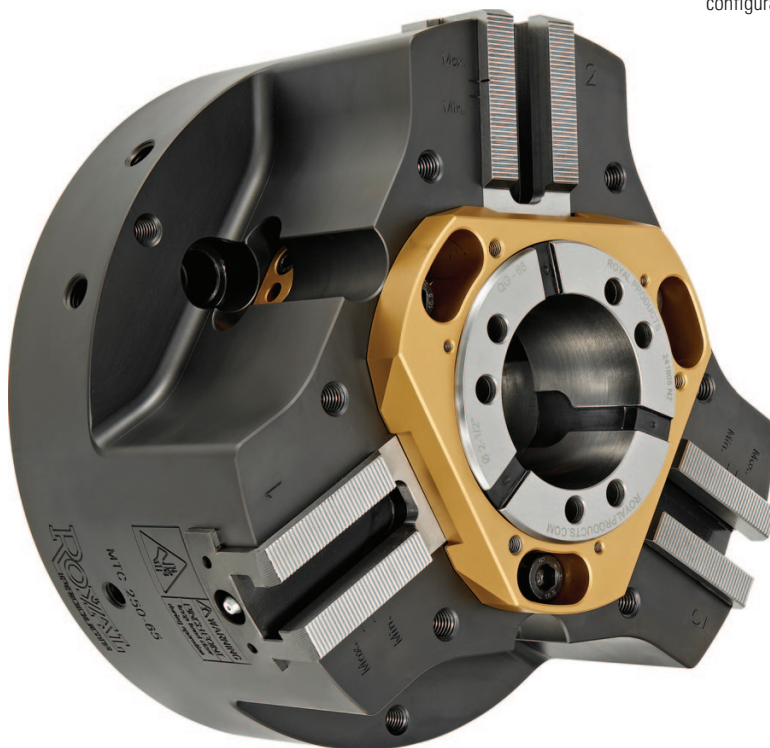
Much more stable than other systems because MTC™ is a true jaw-chuck with both collet and I.D. capabilities – not a collet chuck with a heavy jaw chuck hanging off the front end.

High Accuracy

Jaw repeatability is 0.0002" – 0.0003" and the QG collet hub is guaranteed to be within 0.0003" TIR.

Great Tool Clearance

All chuck bodies are relief milled for optimized tool clearance and reduced rotational mass.



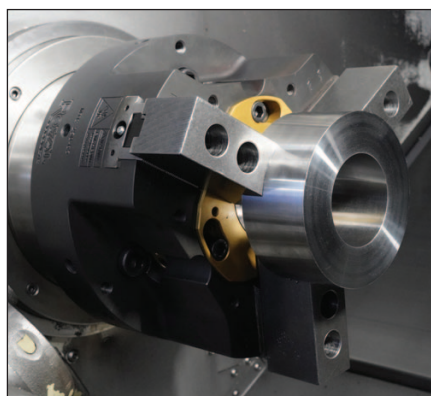
Multiple Sizes

Royal stocks the MTC™ in 8", 10", 12", and 15" versions. Backplates are available to suit all standard spindle mounts.

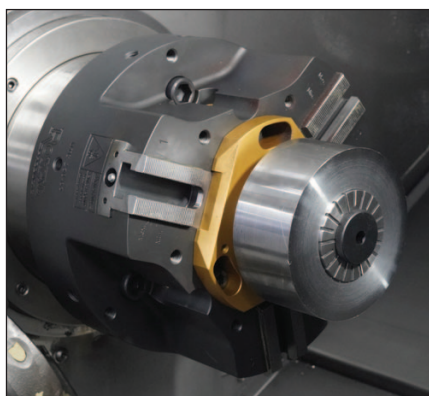
Unmatched Flexibility

Run virtually any job on a single CNC lathe – modular design provides the ability to seamlessly integrate additional components (5C collet adapter, face driver, etc.) as needed.

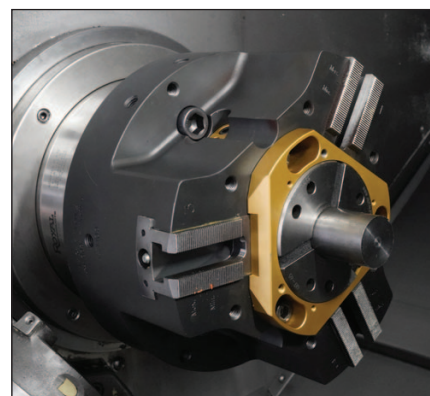
The Royal MTC™ – The Only CNC Lathe Chuck You'll Ever Need!



Jaw Mode



I.D. Gripping Mode



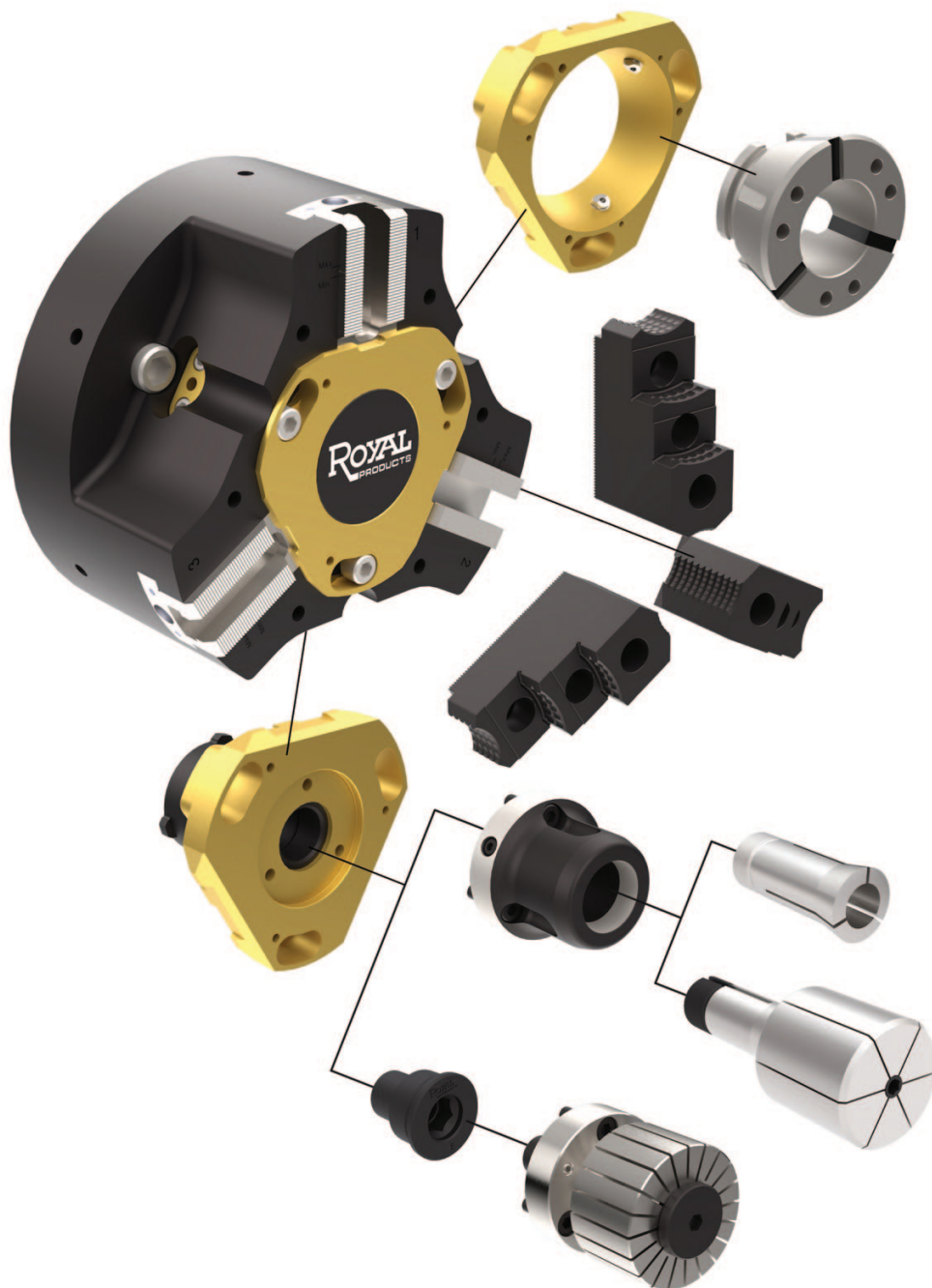
QG Collet Mode



ROYAL MTC™ MULTI-TASKING CHUCK

A True All-in-One CNC Lathe Chuck

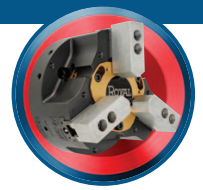
Completely Modular – Add Components as You Land New Jobs



**Check out the Royal MTC™ Video
at www.royalproducts.com**

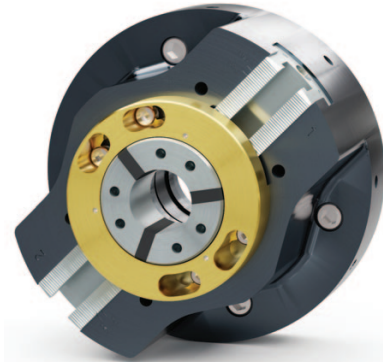
ROYAL MTC™ MULTI-TASKING CHUCK

A True All-in-One CNC Lathe Chuck



NEW for 2026 - Two-Jaw MTC™ Models

- ✓ Great for non-cylindrical workpieces.
- ✓ Contact Royal for ordering information.



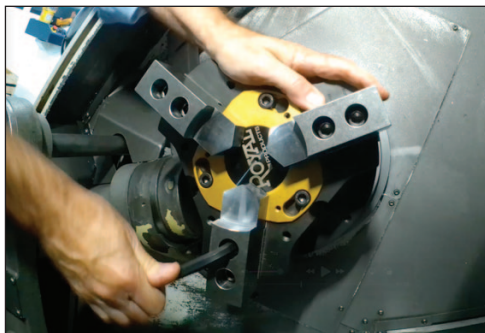
Easy Single-Part Number Ordering

The following items are included with every Royal MTC™ Multi-Tasking Chuck:



- ✓ A 3-Jaw chuck featuring industry standard 60° x 1.5mm base jaws to accept a wide array of top jaws.
- ✓ A Quick-Grip™ center hub hardened and precision ground to accept Royal Quick-Grip™ Collets.
- ✓ A thru-hole center hub to accommodate long-parts when using as a jaw chuck.
- ✓ A center cap to block chips from entering the drawtube when using the jaw chuck for slug work.
- ✓ A removable internal workstop for use with both jaws and collets.
- ✓ A center hub removal tool.
- ✓ A grease gun and tube of chuck grease.
- ✓ A hardened and ground backplate to suit your particular lathe's spindle nose (not shown).
- ✓ A custom-machined drawtube connector for hassle-free installation.

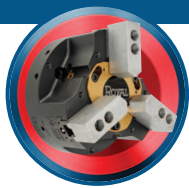
5C Collet Adapter



View the Royal MTC™ in action
at royalproducts.com



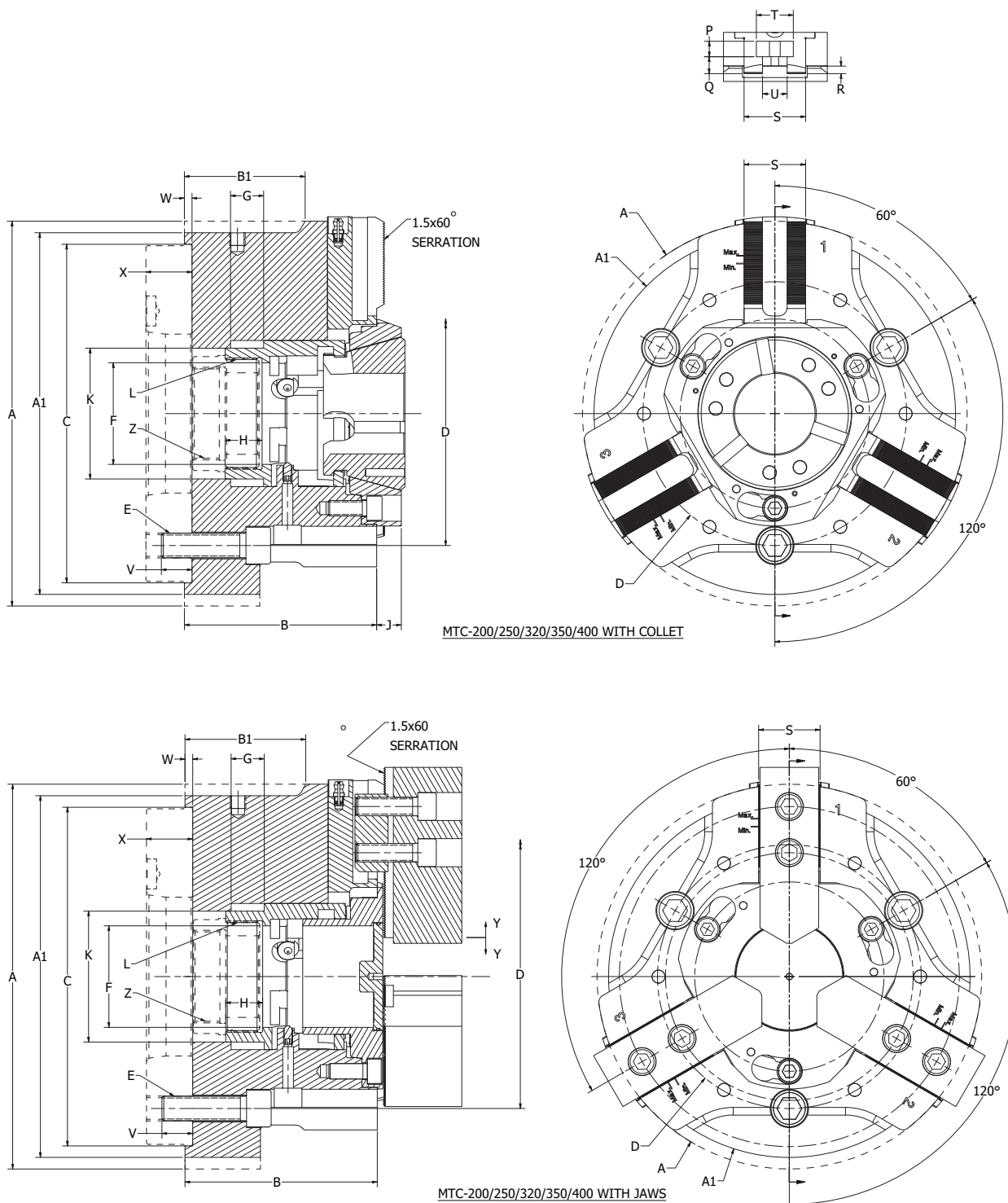
- 5C collet adapter is great for workpieces smaller than 1" dia.
- Utilizes the same center hub as the I.D. mandrel
- Provides excellent tool clearance for small dia. work



ROYAL MTC™ MULTI-TASKING CHUCK

A True All-in-One CNC Lathe Chuck

Dimensions



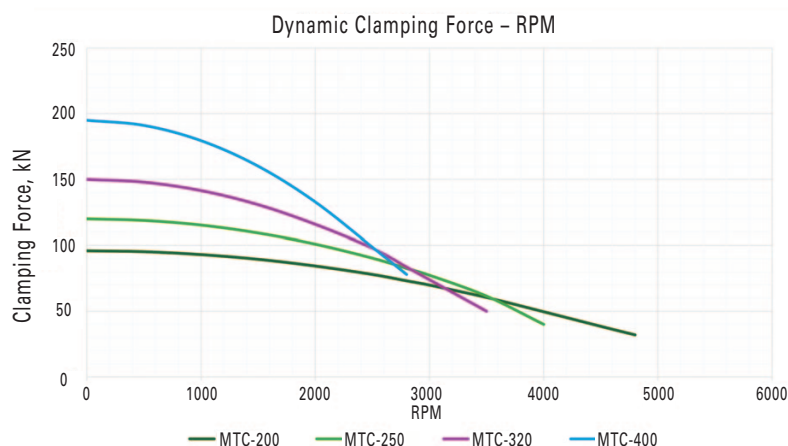
ROYAL MTC™ MULTI-TASKING CHUCK

A True All-in-One CNC Lathe Chuck



Dimensions

	MTC-200		MTC-250		MTC-320		MTC-350		MTC-400	
	INCH	METRIC	INCH	METRIC	INCH	METRIC	INCH	METRIC	INCH	METRIC
A	7.87	200	9.84	250	12.60	320	13.78	13.78	15.75	400
A1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
B	4.33	110	4.92	125	5.91	150	6.50	165	6.89	175
B1	N/A	N/A	N/A	N/A	3.89	98.7	N/A	N/A	N/A	N/A
C	6.69	170	8.66	220	11.02	280	12.76	324	13.78	350
D	5.25	133.4	6.75	171.4	9.25	235	11.42	290	12.21	310
E	M12		M16		M20		M20		M20	
F	2.09	53	2.60	66	3.19	81	4.09	104	4.09	104
G (optimal)	0.79	20	0.95	24	1.10	28	1.10	28	1.34	34
G (minimum)	0.59	15	0.71	18	0.83	21	0.87	22	1.00	25.5
H	0.91	23	0.95	24	1.10	28	1.26	32	1.50	38
J	0.43	11	0.63	16	0.63	16	0.59	15	0.71	18
K	2.95	75	3.35	85	4.13	105	3.94	100	5.91	150
L	M64x1.5		M72x1.5		M92x2		M130x2		M130x2	
P	0.39	10	0.39	10	0.47	12	0.47	12	0.59	15
Q	0.43	11	0.43	11	0.47	12	0.49	12.5	0.51	13
R	0.20	5	0.20	5	0.20	5	0.20	5	0.20	5
S	1.58	40	1.58	40	1.77	45	1.77	45	2.05	52
T	0.95	24	0.95	24	1.19	30.1	1.19	30.1	1.19	30.1
U	0.63	16	0.63	16	0.83	21	0.83	21	0.83	21
V	0.79	20	0.79	20	1.02	26	1.18	30	0.98	25
W	0.20	5	0.20	5	0.20	5	0.20	5	0.20	5
X	Varies		Varies		Varies		Varies		Varies	
Y	+/-0.08	+/-2.0	+/-0.10	+/-2.5	+/-0.12	+/-3.0	+/-0.114	+/-2.9	+/-0.14	+/-3.6
Z	Varies		Varies		Varies		Varies		Varies	



Warning: While the static clamping force of all three-jaw chucks is a function of the machine's hydraulic actuator (piston surface area, input pressure, etc.), it is essential to understand that the dynamic clamping force acting on a workpiece is affected by additional factors such as rpm and top jaw weight. This graph represents the maximum dynamic clamping force of all Royal MTC™ chuck models throughout the stated rpm range.

Be sure to understand the relationship between input pressure and drawtube axial force for your machine's specific hydraulic actuator and **ensure that all relevant parameters are sufficient to keep workpieces safely clamped.** If you have any questions or concerns regarding the safe use of this product, please contact a Royal Products applications engineer at 1-800-645-4174 before use.

MTC-200 Top Jaw Weight 4.9 lbs.
MTC-250 Top Jaw Weight 6.2 lbs.

MTC-320 Top Jaw Weight 7.9 lbs.
MTC-400 Top Jaw Weight 10.1 lbs.



ROYAL MTC™ MULTI-TASKING CHUCK

A True All-in-One CNC Lathe Chuck

Specifications

Royal MTC™ with Chuck Jaws

	MTC-200		MTC-250		MTC-320		MTC-350		MTC-400	
	INCH	METRIC	INCH	METRIC	INCH	METRIC	INCH	METRIC	INCH	METRIC
OPTIMAL DRAWTUBE STROKE	0.79	20	0.95	24	1.10	28	1.102	28	1.339	34
CLAMPING RANGE (JAW/DIAMETER) AT OPTIMAL DRAWTUBE	0.16/0.32	4/8	0.20/0.40	5/10	0.24/0.48	6/12	0.24/48	6/12	0.283	7.2/14.4
MINIMUM DRAWTUBE STROKE	0.59	15	0.71	18	0.83	21	0.83	21	1.004	25.5
CLAMPING RANGE (JAW/DIAMETER) AT MINIMUM DRAWTUBE	0.12/0.24	3/6	0.15/0.30	3.75/7.5	0.18/0.35	4.5/9	0.18/0.35	4.5/9	0.210/0.43	5.4/10.8
MAXIMUM ACTUATING FORCE	9,217 (lbs.)	41 (kN)	11,690 (lbs.)	52 (kN)	14,613 (lbs.)	65 (kN)	14,613 (lbs.)	65 (kN)	19,109 (lbs.)	85 (kN)
CLAMPING FORCE PER JAW	7,194 (lbs.)	32 (kN)	8,992 (lbs.)	40 (kN)	11,240 (lbs.)	50 (kN)	11,240 (lbs.)	65 (kN)	14,613 (lbs.)	65 (kN)
TOTAL CLAMPING FORCE	21,582 (lbs.)	96 (kN)	26,977 (lbs.)	120 (kN)	33,721 (lbs.)	150 (kN)	33,721 (lbs.)	65 (kN)	33,838 (lbs.)	195 (kN)
MAXIMUM RPM	4800		4000		3500		3200		2800	
WEIGHT*	44 (lbs.)	20 (kg)	66 (lbs.)	30 (kg)	132 (lbs.)	60 (kg)	165 (lbs.)	65 (kN)	249 (lbs.)	113 (kg)

*Chuck only. Does not include backplate or top jaws.

Royal MTC™ with Collet

	MTC-200		MTC-250		MTC-320		MTC-350		MTC-400	
	INCH	METRIC	INCH	METRIC	INCH	METRIC	INCH	METRIC	INCH	METRIC
OG COLLET MODEL	QG-52		QG-65		QG-80		QG-100		QG-100	
ACTUATING STROKE	0.16	4	0.16	4	0.16	4	0.32	8	0.32	8
MAXIMUM ACTUATING FORCE	9,217 (lbs.)	41 (kN)	10,116 (lbs.)	45 (kN)	11,240 (lbs.)	50 (kN)	11,240 (lbs.)	50 (kN)	14,613 (lbs.)	65 (kN)
CLAMPING FORCE	21,132 (lbs.)	94 (kN)	23,605 (lbs.)	105 (kN)	25,853 (lbs.)	115 (kN)	25,853 (lbs.)	115 (kN)	33,721 (lbs.)	150 (kN)
MAXIMUM RPM	5500		4600		4000		3200		3200	

Important: Please ensure that your machine's hydraulic actuator meets at least the minimum drawtube stroke requirements as outlined above. Also see warning on the preceding page to ensure that your specific actuator/input pressure achieves adequate dynamic clamping force to eliminate the risk of a workpiece becoming dislodged during use. If you have any questions or concerns regarding the safe use of this product, please contact one of our applications engineers at 1-800-645-4174.

ROYAL MTC™ MULTI-TASKING CHUCK

A True All-in-One CNC Lathe Chuck

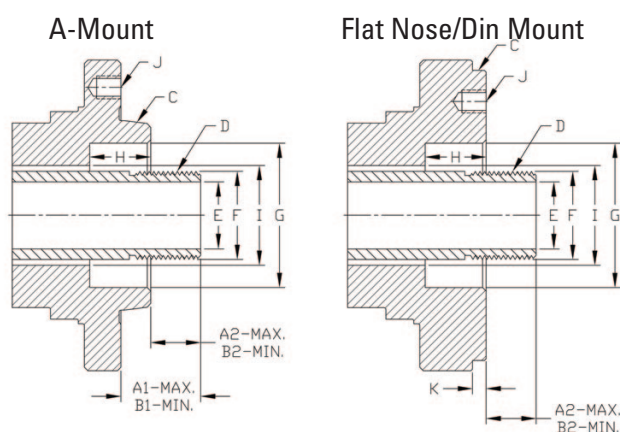


What to Know Before You Order

In addition to the safety considerations regarding actuator force and drawtube stroke (highlighted on the previous pages), Royal may also require some specific dimensional information for your lathe to ensure that we supply the correct backplate and drawtube connector.

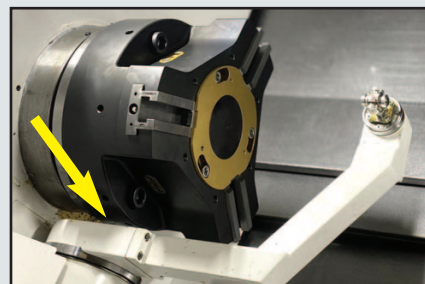
We maintain an extensive machine tool database populated with thousands of actuator and drawtube specs, but sometimes changes/substitutions are made to the machine that we aren't aware of. **For safety purposes and to ensure a hassle-free installation experience, the information requested below may need to be supplied with your MTC™ order.** If you have any questions, please contact a Royal Products applications engineer at 1-800-645-4174.

Spindle Nose With Chuck Removed



Note:

A drawtube sometimes unscrews from the actuator when the 3-jaw chuck is removed. Make sure drawtube is fully screwed in before taking dimensions.



Important

Machine tool components such as a tool eye, parts catcher, chuck guarding, etc. may result in interference with the MTC's outer diameter and/or length – especially if you are looking to upsize your chuck.

If your machine is equipped with any potential interference components, please contact Royal prior to ordering to discuss possible solutions.

Machine (make & model) _____

Machine Serial Number _____

Existing Chuck (make & model) _____
(if applicable)

Actuator (make & model) _____

Spindle - Main __ Sub __

A1 – Max. (tube extended) _____

B1 – Min. (tube retracted) _____

A2 – Max. (tube extended) _____

B2 – Min. (tube retracted) _____

C-Spindle Type & Size _____

(i.e. A2-6, 110mm, etc.)

D-Drawtube Thread _____

Pitch _____

Internal or External _____

Length of Thread _____

E – Drawtube I.D. _____

F – Drawtube O.D. _____

G – Counterbore I.D. _____

H – Counterbore Length _____

I – Spindle Through Hole Diameter _____

J – Mounting Hole (DIN & A2-15 Spindles ONLY)

Thread Size _____

Quantity _____

Spacing _____

Bolt Circle Diameter _____

K-Pilot Length (DIN Spindles ONLY) _____

Max. Actuator Pull Force _____

Any items in machine work envelope that need to be evaluated for potential interference such as a tool eye, parts catcher, etc.? Yes _____ No _____

If Yes, please describe _____



ROYAL MTC™ MULTI-TASKING CHUCK

A True All-in-One CNC Lathe Chuck

Easy Single Part Number Ordering



The following items are included with every Royal MTC™ Multi-Tasking Chuck:

- ✓ A 3-Jaw chuck featuring industry standard 60°x1.5mm base jaws to accept a wide array of top jaws.
- ✓ A Quick-Grip™ center hub hardened and precision ground to accept Royal Quick-Grip™ Collets.
- ✓ A thru-hole center hub to accommodate long-parts when using as a jaw chuck.
- ✓ A center cap to block chips from entering the drawtube when using the jaw chuck for slug work.
- ✓ A removable internal workstop for use with both jaws and collets.
- ✓ A center hub removal tool.

Royal MTC™ Multi-Tasking Chucks

CHUCK MODEL	SPINDLE TYPE	PART NUMBER	PRICE*
MTC-200	A2-5	51202	\$33,905
MTC-200	A2-6	51204	33,905
MTC-200	140 MM	51206	33,905
MTC-250	A2-6	51208	37,405
MTC-250	A2-8	51210	37,405
MTC-250	140 MM	51212	37,405
MTC-320	A2-6	51213	41,985
MTC-320	A2-8	51214	41,985
MTC-320	A2-11	51216	41,985
MTC-350	A2-8	51221	48,260
MTC-350	A2-11	51222	48,260
MTC-400	A2-8	51217	48,260
MTC-400	A2-11	51218	48,260
MTC-400	A2-15	51220	48,260

*Price includes a hardened and ground backplate up to 3" long. If your machine requires an extended backplate we will advise and quote a special plate.

- ✓ A grease gun and tube of chuck grease.
- ✓ A hardened and ground backplate to suit your particular lathe's spindle nose (not shown).
- ✓ A custom-machined drawtube connector for hassle-free installation.

Additional Accessories

- The center hub for I.D. workholding is designed with a 75mm recess and is compatible with all Royal I.D. mandrels and sleeves (see page 84-85 for details).
- If you currently use a different brand of I.D. workholding, it may be possible for Royal to supply a custom center hub that would enable its use with the MTC – contact us to discuss.
- **The lifting/installation tool is highly recommended for fast and easy installation.** This device affixes to the chuck body in the same manner as the center hubs do, balancing the chuck's mass and enabling it to be easily threaded onto the machine's drawtube.



I.D. Center Hub



5C Adapter



Lifting/Installation Tool

Royal MTC™ Accessories

DESCRIPTION	FITS CHUCK MODEL	PART NUMBER	PRICE
Center Hub for I.D. Workholding* and 5C Collet Nose	MTC-200	51230	\$4,485
	MTC-250	51231	4,820
	MTC-320	51232	5,800
	MTC-350	51234	8,970
	MTC-400	51233	8,970
5C Adapter	ALL	65138	1,235
Lifting/Installation Tool	MTC-200	51225	2,890
	MTC-250	51226	3,035
	MTC-320	51227	3,340
	MTC-350	51229	3,710
	MTC-400	51228	3,710

*Order mandrels and sleeves separately.