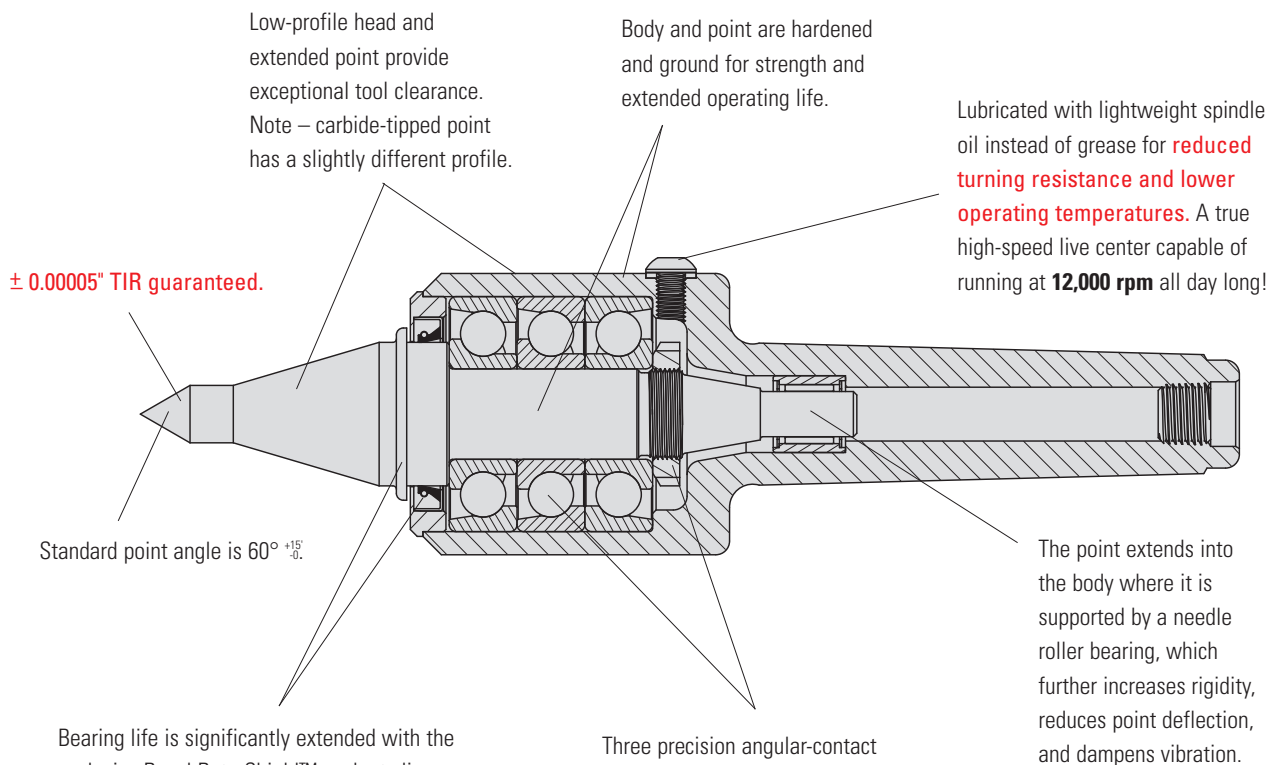




# ROYAL HIGH-SPEED PRECISION LIVE CENTERS

## Up to 12,000 RPM!



Low-profile head and extended point provide exceptional tool clearance. Note – carbide-tipped point has a slightly different profile.

Body and point are hardened and ground for strength and extended operating life.

Lubricated with lightweight spindle oil instead of grease for **reduced turning resistance and lower operating temperatures**. A true high-speed live center capable of running at **12,000 rpm** all day long!

**± 0.00005" TIR guaranteed.**

Standard point angle is  $60^{\circ} \pm \frac{15}{16}$ .

Bearing life is significantly extended with the exclusive Royal Roto-Shield™ coolant slinger and a long-life, spring-loaded seal that is resistant to abrasion, high temperatures, and virtually all metalworking fluids.

Three precision angular-contact bearings are secured to the point with a locknut to form a rigid, preloaded assembly. This design is similar to a machine tool spindle cartridge and provides **outstanding accuracy and rigidity**.

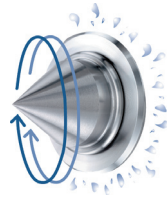
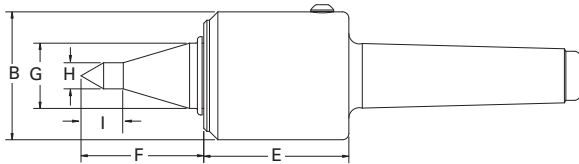
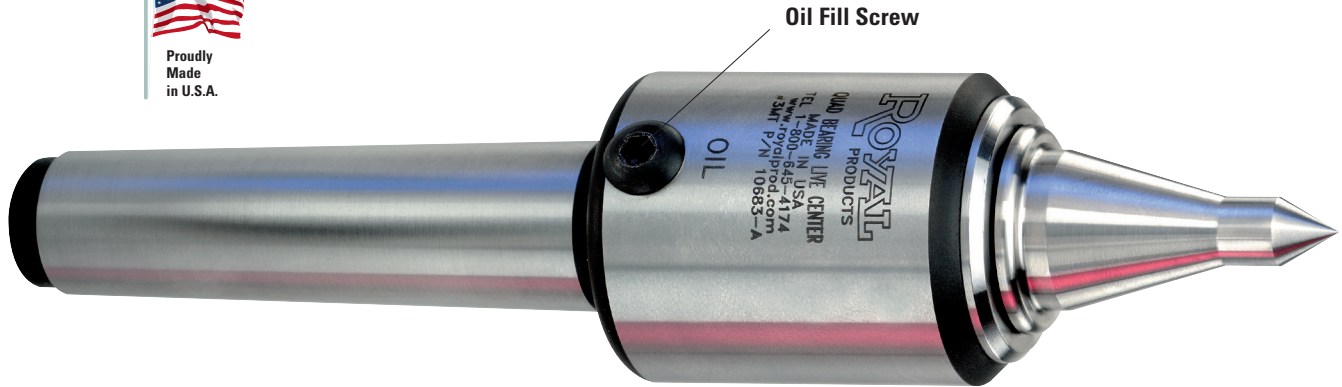
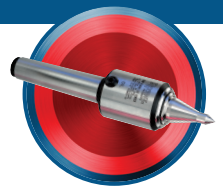
The point extends into the body where it is supported by a needle roller bearing, which further increases rigidity, reduces point deflection, and dampens vibration.



- ❑ A true high-speed live center – **up to 12,000 rpm**.
- ❑ Lubricated with lightweight spindle oil instead of grease for reduced turning resistance and lower operating temperatures.
- ❑ Precision, preloaded bearing assembly provides exceptional rigidity and accuracy.
- ❑ **Low-profile head** and extended point combine to offer superior tool clearance.
- ❑ Exclusive Roto-Shield™ coolant slinger and upgraded seal provide outstanding bearing protection for extended operating life.
- ❑ Body and point are hardened and ground for strength and long life.
- ❑ Available in both steel and carbide-tipped point models.

# ROYAL HIGH-SPEED PRECISION LIVE CENTERS

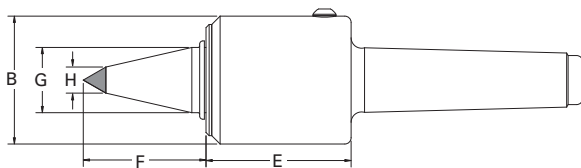
## Up to 12,000 RPM!



**EXCLUSIVE ROYAL  
ROTO-SHIELD™  
TECHNOLOGY**

### Royal High-Speed Precision Live Centers (Steel-Tipped)

TAPER	B	E	F	G	H	I	MAX. SUGGESTED RPM*	WEIGHT OF WORKPIECE (lbs.)	THRUST LOAD (lbs.)	PART NUMBER	PRICE
3 MT	1.70	2.12	1.75	0.88	0.38	0.63	12,000	180	650	10683	<b>\$1,020</b>
4 MT	2.45	2.78	2.35	1.25	0.50	0.81	12,000	525	1,380	10684	<b>1,214</b>
5 MT	2.45	2.78	2.35	1.25	0.50	0.81	12,000	525	1,380	10685	<b>1,264</b>



**✓ High-Pressure  
Coolant Approved**

### Royal High-Speed Precision Live Centers (Carbide-Tipped)

TAPER	B	E	F	G	H	MAX. SUGGESTED RPM*	WEIGHT OF WORKPIECE (lbs.)	THRUST LOAD (lbs.)	PART NUMBER	PRICE
3 MT	1.70	2.12	1.75	0.88	0.38	12,000	180	650	10693	<b>\$1,138</b>
4 MT	2.45	2.78	2.35	1.25	0.50	12,000	525	1,380	10694	<b>1,384</b>
5 MT	2.45	2.78	2.35	1.25	0.50	12,000	525	1,380	10695	<b>1,434</b>

\* Maximum recommended operating limit. Operating above this speed could result in heat build-up and accelerated bearing wear.

**Insist on Roto-Shield™ Technology – Only Available on Royal Live Centers**