

ROYAL DEAD CENTERS

- Dead centers are typically used for grinding and are also sometimes used in high-precision turning applications.
- Royal manufactures a wide range of standard dead centers to suit most applications, including: full, half, carbide-tipped, and extended-point models.
- All solid dead centers are made from ball bearing steel and are hardened to Rc 61-63 for wear resistance and durability.
- On carbide-tipped models, the carbide blank is brazed into a close-tolerance socket for maximum strength and rigidity.
- $\hfill \Box$ All Royal dead centers are ground to an angle of 60° $^{+15}$ and guaranteed to $\pm 0.00005"$ TIR.



Type 1
Standard Dead Center
add "1" to part number below.

Ball bearing steel hardened and ground to Rc 61-63 for long life.



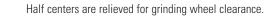
Type 2Standard Dead Center with carbide tip add "2" to part number below.

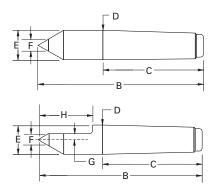
Carbide blank is brazed into a close-tolerance socket for maximum strength and rigidity.



1/2 Dead Center
add "3" to part number below.
Note — Type 3 models are
being phased out. Please call
for availability.

Type 3







Type 41/2 Dead Center with carbide tip add "4" to part number below.

A safety groove shows the maximum allowable regrind range for carbide-tipped models.

Royal Dead Centers

Example: A 2MT dead center with a carbide tip is PART NUMBER 11012.

TAPER								PART		PR	ICE	
Α	В	C	D	E	F	G	Н	NUMBER	TYPE 1	TYPE 2	TYPE 3	TYPE 4
2 MT	4.19	2.56	.700	0.700	0.38	0.19	1.38	1101-	\$155	\$206	CALL	\$240
3 MT	5.25	3.19	.938	0.938	0.50	0.22	1.69	1102-	240	279	CALL	316
4 MT	6.75	4.06	1.231	1.231	0.50	0.25	2.25	1103-	345	368	CALL	403
5 MT	8.50	5.19	1.748	1.748	0.63	0.38	2.75	1104-	517	569	CALL	600

ROYAL "OIL COUNTRY" BULL HEAD DEAD CENTERS

- Designed for turning large tubes and pipes on lathes with live tailstocks.
- ☐ Can also be used in large-diameter grinding applications.
- Interchangeable heads (sold separately) offer maximum versatility.
- □ ±0.0002" TIR guaranteed.
- Extraction nut (included) allows for easy removal from tailstock.
- Special extended models offered for Mazak** lathes.



Modular Heads for Royal "Oil Country" Bull Head Dead Center

HEAD Model	В	G	HEAD Weight (LBS.)	PART NUMBER	PRICE
Α	4.62	1.63	7	10791	\$741
В	7.37	4.38	18	10792	1,145
С	10.12	7.13	33	10793	1,777
D	12.87	9.88	51	10794	2,541
Е	15.62	12.63	65	10795	4,429



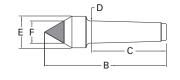
TAPER	MODEL	С	D	K	J WITH HEAD A	J WITH HEADS B-E	THREAD	PART NUMBER	PRICE
4MT	Standard	4.06	1.231	N/A	4.63	3.91	M42 x 1.5	11576*	\$488
4MT	Mazak**	4.06	1.231	1.260	4.85	4.13	M42 x 1.5	11577*	488
5 MT	Standard	5.19	1.748	N/A	4.63	3.91	M50 x 1.5	11578*	536
5 MT	Mazak**	5.19	1.748	1.772	5.06	4.34	M50 x 1.5	11579*	536
6 MT	Standard	7.25	2.494	N/A	4.69	3.97	M70 x 2	11580*	1,032
6 MT	Mazak**	7.25	2.494	2.500	5.29	4.57	M70 x 2	11581*	1,032

B G C

OVERSIZED CARBIDE POINT DEAD CENTERS







Royal Oversized Carbide Point Dead Centers

- Excellent for grinding and high precision turning applications.
- Oversized carbide point covers a wider range of center holes and provides great wear resistance.

TAPER A	В	С	D	E	CARBIDE DIAMETER F	PART Number	PRICE
4 MT	6.75	4.06	1.231	1.75	1.25	11526	\$629
5 MT	8.50	5.19	1.748	1.75	1.25	11527	846

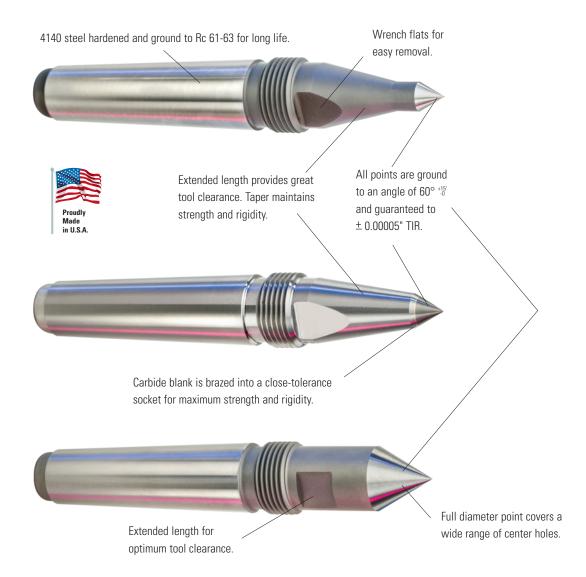
^{*} Head not included - order separately

^{**} Mazak is a registered trademark of Yamazaki Mazak Corporation



ROYAL CNC THREADED DEAD CENTERS

Great For Live Tailstocks and Precision Grinding



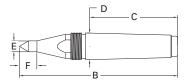
- Royal threaded dead centers are designed for use in CNC turning centers with live tailstocks.
- ☐ These dead centers are also widely used in precision grinding applications.
- Available in several styles to suit a wide range of applications.
 - CNC Point
 - Carbide-Tipped CNC Point
 - Full Diameter Extended Point
- Longer than normal gage length on all models provides outstanding clearance.
- Extraction nut and wrench flats enable easy removal from tailstock/spindle.



Extraction nut allows for easy removal from spindle. Order separately.

ROYAL CNC THREADED DEAD CENTERS

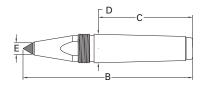






Royal CNC Threaded Dead Centers

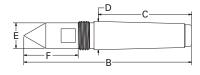
TAPER A	В	С	D	F	F	THREAD	DEAD CE Part Number	NTER PRICE	EXTRACTII Part Number	ON NUT
3 MT	5.94	3.19	0.938	0.38	0.63	1"-14	11530	\$288	11550	\$70
4 MT	7.31	4.06	1.231	0.50	0.81	11/4"-14	11531	349	11551	84
4 MT	7.31	4.06	1.231	0.75	1.18	11/4"-14	11535	349	11551	84
5 MT	8.44	5.19	1.748	0.50	0.81	13/4"-12	11532	498	11552	95
5 MT	8.44	5.19	1.748	0.75	1.18	13/4"-12	11537	498	11552	95





Royal CNC Threaded Dead Centers with Carbide-Tipped Point

TAPER						PART			ON NUT
Α	В	С	D	E	THREAD	NUMBER	PRICE	NUMBER	PRICE
3 MT	5.94	3.19	0.938	0.38	1"-14	11540	\$391	11550	\$70
4 MT	7.31	4.06	1.231	0.50	11/4"-14	11541	470	11551	84
5 MT	8.44	5.19	1.748	0.50	13/4"-12	11542	605	11552	84





Royal Full Diameter Extended Point Threaded Dead Centers

TAPER A	В	C	D	E	F	THREAD	DE. Part Number	AD CENTER Price	EXTRACTION Part Number	N NUT Price
3 MT	5.94	3.19	0.938	0.86	1.88	1"-14	11534	\$288	11550	\$70
4 MT	7.31	4.06	1.231	1.11	2.37	11/4"-14	11536	349	11551	84
5 MT	8.44	5.19	1.748	1.25	2.36	13/4"-12	11539	498	11552	95