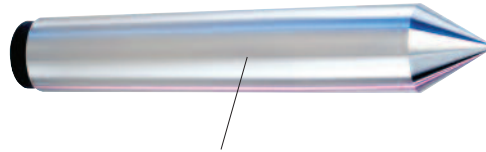




# ROYAL DEAD CENTERS

- 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**.
- All Royal dead centers are ground to an angle of  $60^\circ \begin{smallmatrix} +15 \\ -0 \end{smallmatrix}$  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 2**  
Standard 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.



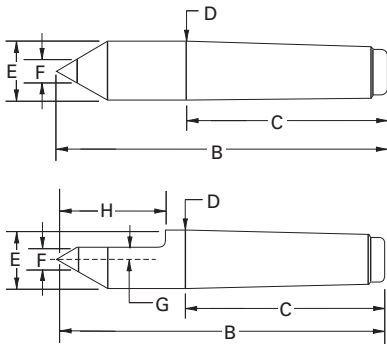
**Type 3**  
1/2 Dead Center  
add "3" to part number below.  
Note – Type 3 models are being phased out. Please call for availability.

Half centers are relieved for grinding wheel clearance.



**Type 4**  
1/2 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 A	B	C	D	E	F	G	H	PART NUMBER	PRICE			
									TYPE 1	TYPE 2	TYPE 3	TYPE 4
2 MT	4.19	2.56	.700	0.700	0.38	0.19	1.38	1101-	<b>\$148</b>	<b>\$196</b>	<b>CALL</b>	<b>\$229</b>
3 MT	5.25	3.19	.938	0.938	0.50	0.22	1.69	1102-	<b>229</b>	<b>266</b>	<b>CALL</b>	<b>301</b>
4 MT	6.75	4.06	1.231	1.231	0.50	0.25	2.25	1103-	<b>329</b>	<b>350</b>	<b>CALL</b>	<b>384</b>
5 MT	8.50	5.19	1.748	1.748	0.63	0.38	2.75	1104-	<b>492</b>	<b>542</b>	<b>CALL</b>	<b>571</b>