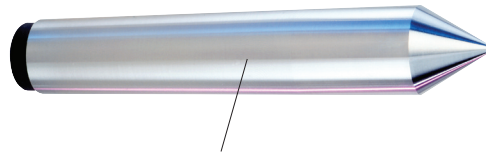




# ROYAL DEAD CENTERS

- 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  $60^\circ \begin{smallmatrix} +15^\circ \\ -0 \end{smallmatrix}$  and guaranteed to  $\pm 0.00005''$  TIR.



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

### Type 1

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



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

### Type 2

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



Half centers are relieved for grinding wheel clearance.

### Type 3

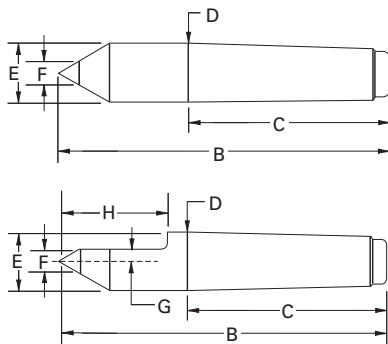
1/2 Dead Center  
add "3" to part number below.  
Note – Type 3 models are being phased out. Please call for availability.



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

### Type 4

1/2 Dead Center with carbide tip  
add "4" to part number below.



## 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>\$112</b>	<b>\$148</b>	<b>CALL</b>	<b>\$174</b>
3 MT	5.25	3.19	.938	0.938	0.50	0.22	1.69	1102-	<b>174</b>	<b>202</b>	<b>CALL</b>	<b>228</b>
4 MT	6.75	4.06	1.231	1.231	0.50	0.25	2.25	1103-	<b>249</b>	<b>265</b>	<b>CALL</b>	<b>291</b>
5 MT	8.50	5.19	1.748	1.748	0.63	0.38	2.75	1104-	<b>373</b>	<b>411</b>	<b>CALL</b>	<b>433</b>