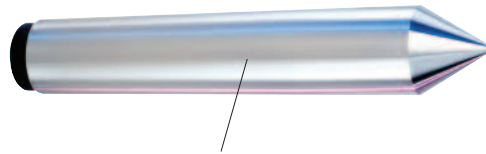




# ROYAL DEAD CENTERS

- 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.



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

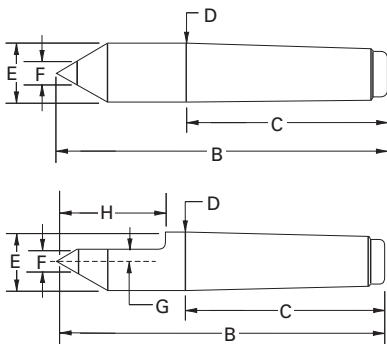
1/2 Dead Center  
add "3" to part number below.  
Note – Type 3 models are being phased out. Please call for availability.



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<br>A | B    | C    | D     | E     | F    | G    | H    | PART<br>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>   |