

Bushing and Ball Cage (CEM) Type I Selection Data

The selection of the proper bushing assembly is based on the guide post diameter and required stroke distance. Using the selection chart on page 53:

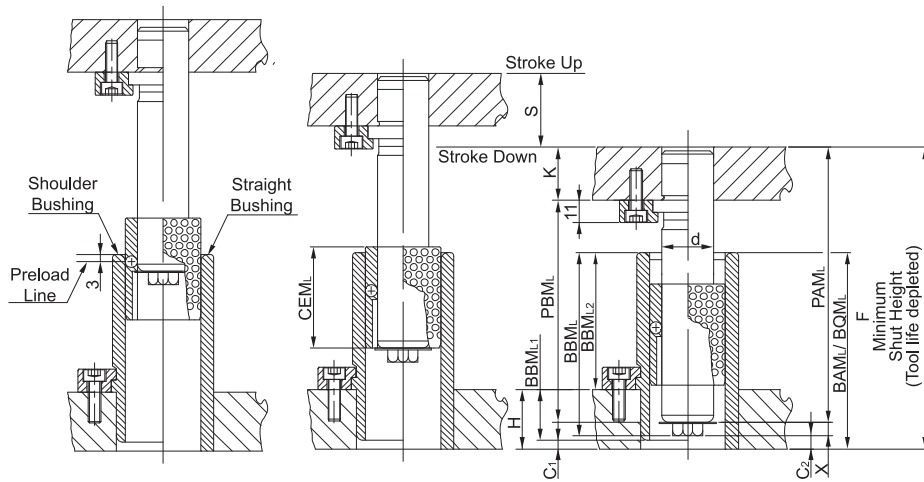
1. Locate the column for required stroke distance "S". (note: add any necessary grinding allowance when determining stroke length).
2. Locate the row for the required guide post diameter "d".

Ball Cage selection:

3. Move down the appropriate stroke column until reaching the colored square which corresponds to the proper guide post diameter.
4. Select the ball cage length that best matches your requirement. (note: longer ball cages provide increased life).

Ball Bushing selection:

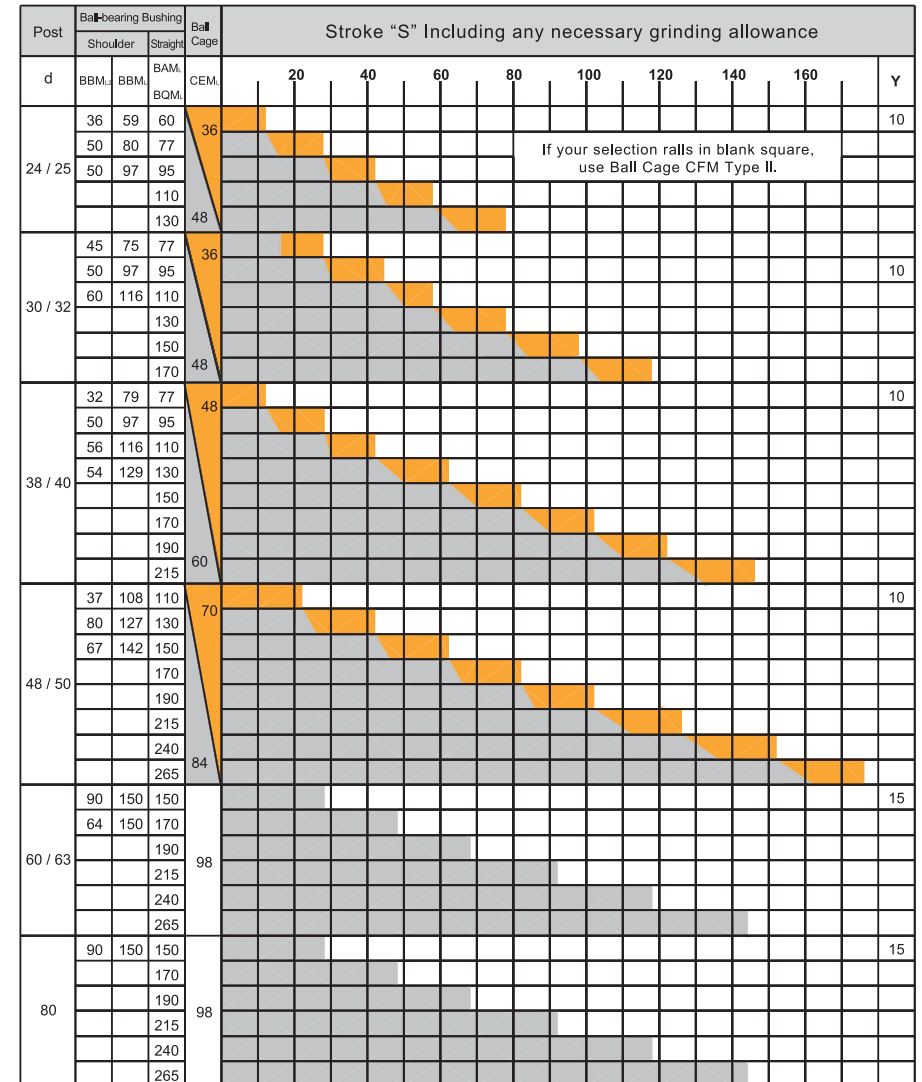
5. Move down the appropriate stroke column until reaching the colored square which corresponds to the proper guide post diameter.
6. Select the required bushing length from the Bushing Length column.



- Based on Shoulder Bushing
 $PAM_L / PBM_L = F - C_1 - X - H + BBML_1$
- Based on Straight Bushing
 $PAM_L / PBM_L = F - C_2 - X$

d	X	C ₁ / C ₂
24 / 25	7	3
30 / 32		
38 / 40	9.5	
48 / 50		
60 / 63		
80		

Bushing and Ball Cage CEM (Type I) Selection Chart



Y: If die grinding is not required, stroke may be increased by the amount of die grind allowance shown in "Y" column. If die grind is greater than the amount shown, stroke will shorten by the additional amount added.