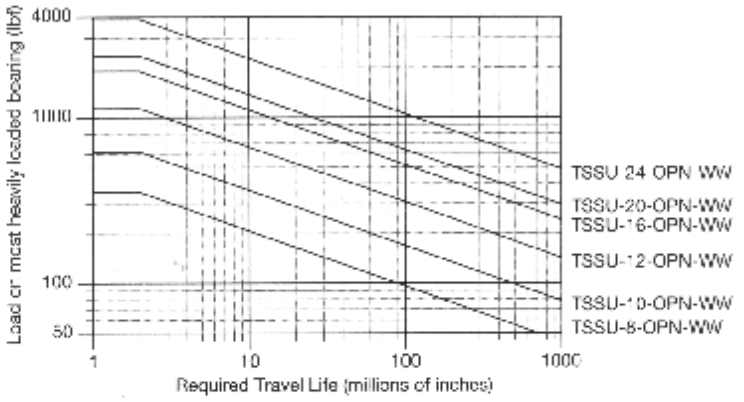
Super Smart Ball Bushing™ Bearings

(Open Type) for Continuously-Supported Applications

Load/Life Graph (Lines indicate limiting load for given BALL BUSHING Bearing)



Determining BALL BUSHING Bearing Size

To determine the proper BALL BUSHING bearing size, enter the chart with the maximum load of the most heavily loaded bearing and the required travel life. Mark where the two lines intersect. All BALL BUSHING bearing sizes that pass through or above and to the right of this point may be suitable for this application.

Note: For the purpose of using this chart:

$$\text{Load on Most Heavily Loaded Bearing} = \frac{\text{Maximum Applied Load}}{K_0}$$

where:

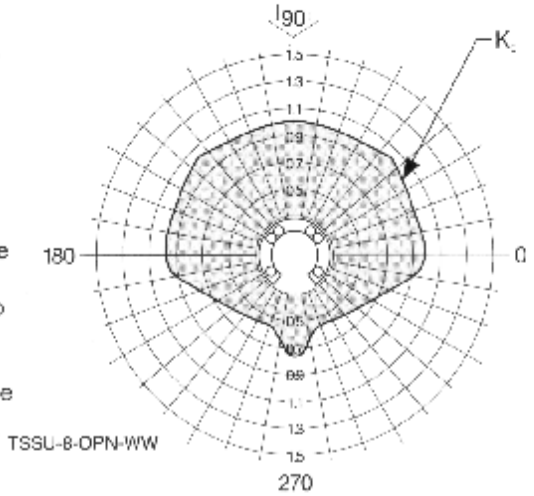
K_0 = the Load Correction Factor, which can be determined from the Polar Graph below.

Dynamic Load Capacity Correction Factor, K_0

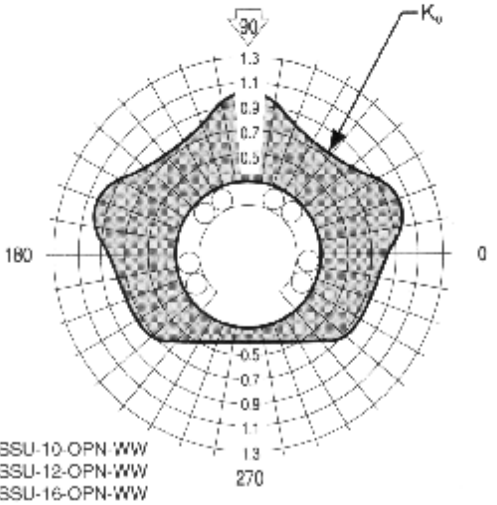
The Dynamic Load Capacity is based on a rated travel life of 2 million inches. The actual Dynamic Load Capacity can be affected by the orientation of the bearing or the direction of the applied load. For dynamic load Correction Factors, see polar graphs below.

Polar Graphs

The actual Dynamic Load Capacity of a BALL BUSHING bearing is determined by the orientation of the bearing or direction of the applied load. The load Correction Factor K_0 is found by knowing the direction of the applied load relative to the orientation of the bearing's ball tracks and referring to the polar graph. To determine the actual Dynamic Load Capacity, multiply the proper Correction Factor by the Dynamic Load Capacity listed in the product table on the previous page.



TSSU-8-OPN-WW



TSSU-10-OPN-WW
TSSU-12-OPN-WW
TSSU-16-OPN-WW
TSSU-20-OPN-WW
TSSU-24-OPN-WW