Ball Screw Support Bearings

Features and Benefits

**High Axial Rigidity** allows for large axial loads and minimizes deflections.

**Compact, Lightweight Design** keeps size and weight of surrounding design to a minimum.

**High Precision Design** provides a high degree of accuracy.

**Preload Adjustment** allows control of the rigidity of the ball screw system.

**Efficient Design** reduces torque requirements and heat generation.

**Universal Flush Ground** enables multiple bearings to be mounted in various sets.

Koyo Ball Screw Support Bearings were developed to support precision ball screw shafts. They have the same structure as angular contact thrust ball bearings with a contact angle of 60°.

- Large axial load carrying capacity.
- They are also able to carry a certain degree of radial load.
- Highly rigid in the axial direction.

Support bearing units consist of the bearings described above and a precisely processed housing.
Matching Types and Matching of Codes of SAC Ball Screw Support Bearings

Two Bearings

- Back-to-Back Matching Code: DB
- Face-to-Face Matching Code: DF
- Tandem Matching Code: DT

Three Bearings

- Matching Code: DBD
- Matching Code: DFD
- Matching Code: DTD

Four Bearings

- Matching Code: DBB
- Matching Code: DFF
- Matching Code: DBT
- Matching Code: DFD

Note: The apex side of the “V” mark indicates the front face side of the bearing.

New “V” Mark Being Added on Single Row “G Type” Precision Ball Screw Support Bearings (SAC-Series)

To help with orientation during installation JTEKT/Koyo will begin to add a new “V” mark on the outside surfaces of single row “G Type” Precision Ball Screw Support Bearings (SAC Series). See below for an illustration of the new marking.

It is very common for these type of bearings to be used in matched pairs or stacks – to ensure proper installation please use the chart below as reference.