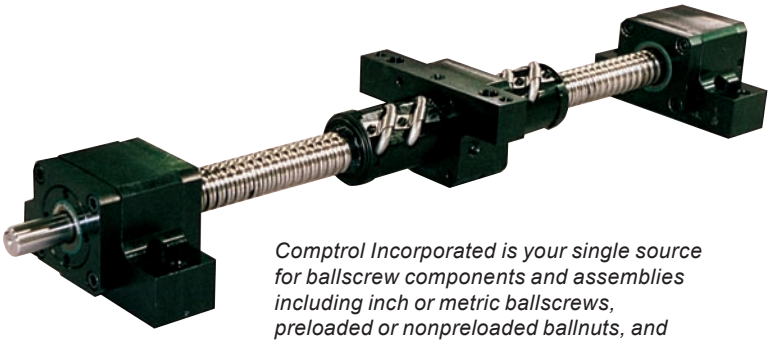
Mix or Match Standard Bearing Blocks To Meet Your Application Requirements



Comptrol Incorporated is your single source for ballscrew components and assemblies including inch or metric ballscrews, preloaded or nonpreloaded ballnuts, and bearing blocks.

The end support arrangement is a key factor to consider when sizing a ballscrew for a specific application. Changing the end support arrangement has a direct effect on the critical speed, compression load, and stiffness rating for a given diameter ballscrew with respect to the unsupported length of the screw and the applied load.

Rigid vs Simple End Support

Comptrol bearing blocks are available with one of three bearing arrangements to accommodate the four most common ballscrew mounting configurations: Rigid-Free, Simple-Simple, Rigid-Simple, and Rigid-Rigid.

Model Number Designation

6 6 - X 0 X - X X

Bearing Block

Mounting Style
2 = Flange
3 = Cut-Off Flange
4 = Base

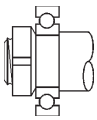
Code	Ballscrew Diameter
0	0.625
1	0.750
2	1.000
3	1.130
4	1.500
5	2.000
6	2.250
7	2.500
8	3.000

Bearing Arrangement
A = Single Radial Ball Bearing
B = Duplex Angular Contact
C = Spaced Angular Contact

Shaft End
Blank = Driven
1 = Non-Driven

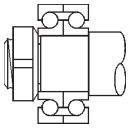
Note: Screw end journals must be machined per dimensions specified on Page 13 for respective bearing block. For custom or metric bearing blocks or end journals are available.

Made in the U.S.A.



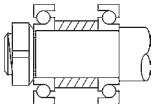
Comptrol CA journal for A & A1 bearing blocks

Type A & A1 bearing blocks use a single sealed radial ball bearing to provide simple radial end support. They are primarily used to prevent whipping and radial deflection of the ballscrew centerline in light load applications where axial positioning accuracy is not critical.



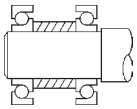
Comptrol CB journal for B & B1 bearing blocks

Type B & B1 bearing blocks feature duplex, bidirectional angular contact bearings to control axial movement of the screw. They also provide higher axial thrust and radial load capacities than "A" type bearing blocks.



Comptrol CC journal for C & C1 bearing blocks

Type C & C1 bearing blocks have spaced, bidirectional angular contact bearings to provide the rigid end support needed to achieve higher speeds and increased stiffness of the overall ballscrew assembly.

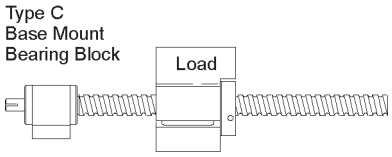


Comptrol CD journal for C1 bearing blocks

For applications requiring thermal expansion of the screw and/or higher speeds, a Comptrol Type CD journal is typically used on one end of the screw. The bearing block used with the Type CD journal will not share the load equally.

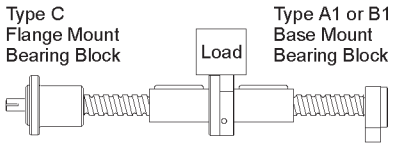
Rigid-Free

One end of the screw is fixed by a "C" type bearing block with spaced angular contact bearings to prevent radial and axial movement. The other end is not supported.



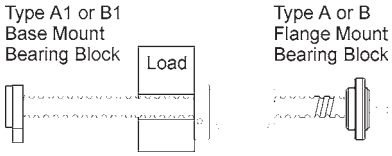
Rigid-Simple

One end is fixed by a "C" type bearing block. The other end is supported by an "A" type bearing block for radial support, or a "B" type bearing block for radial and axial support.



Simple-Simple

Each end is supported by either an "A" type bearing block for radial support, or a "B" type bearing block for radial and axial support.



Rigid-Rigid

Both ends are fixed by "C" type bearing blocks for maximum ballscrew assembly stiffness and to prevent radial and axial movement.