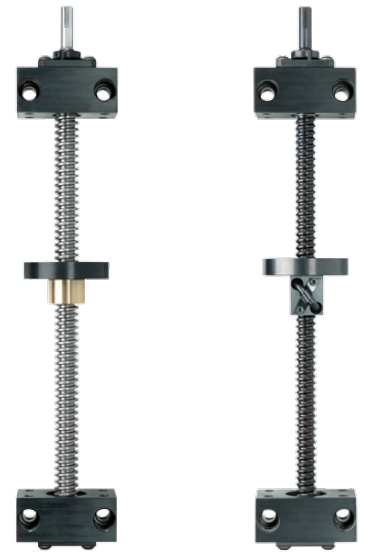


# SCREWS AND NUTS



[www.joycedayton.com](http://www.joycedayton.com)

# MACHINE SCREWS AND NUTS

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Joyce/Dayton offers Acme 2C and Stub Acme machine screw and nut assemblies in a variety of screw leads and in diameters ranging from ½ inch to 6 inches. Screws are typically made from alloy steel. Stainless steel material is available for many sizes. Most screws are available in both right-hand and left-hand thread directions, with corresponding bronze nuts and steel flanges. Screw stock is available in maximum lengths of 12 ft. and 24 ft., depending on screw diameters.

- ½ inch through 6 inch diameters
- Standard leads range from 0.10 inch to 1.00 inch
- Right-hand or left-hand threads are standard on most sizes
- Alloy steel screw material is standard and stainless steel is available for many sizes
- Bronze nuts with steel flanges are available. A black oxide coating is standard on flanges
- Precision machined end conditions are available
- Complete assemblies include bearing blocks and end machining

# METRIC SCREWS AND NUTS

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Joyce/Dayton offers Metric screw and nut assemblies with Trapezoidal thread forms in a variety of leads and in diameters ranging from 20 mm through 55 mm. These alloy steel screws are available in both right-hand and left-hand thread directions with corresponding bronze nuts and steel flanges. Metric screw stock is available in maximum lengths of 3.66 m (12 ft.).

- 20 mm through 55 mm diameters
- Standard leads ranging from 5 mm to 12 mm
- Right-hand or left-hand threads are standard on most sizes
- Alloy steel screw material is standard
- Bronze nuts with steel flanges are available. A black oxide coating is standard on flanges
- Precision machined end conditions are available
- Complete assemblies include bearing blocks and end machining

# BALL SCREWS AND NUTS

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Joyce/Dayton offers ball screw and ball nut assemblies in a variety of screw leads and in diameters ranging from 0.631 inches to 4.000 inches. All of these alloy steel screw sizes are available with right-hand threads, and a selection of ball screws are available with left-hand threads. Standard capacity ball nuts and steel flanges are available for each screw diameter and lead. Additionally, higher capacity ball nuts are available for a some ball screw sizes. Choose the ball nut capacity that meets your load and life requirements. Ball screw stock is available in maximum lengths of 12 ft. and 24 ft., depending on screw diameters.

- 0.631 inch through 4.000 inch diameters
- Standard leads ranging from 0.200 inches to 1.000 inches
- Right-hand threads, standard; Left-hand threads, available on select sizes
- Alloy steel ball screw material and steel flanges include a protective black oxide coating
- Multiple ball nut capacities available for select ball screws
- Precision machined end conditions are available
- Complete assemblies include bearing blocks and end machining

# PRECISION END MACHINING

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Customers may choose from a variety of standard end conditions that mate with Joyce bearing block supports. Select the end mounting configuration (end fixity) from the chart on the next page, then specify the machining options that are required. Complete assemblies include bearing blocks and end machining.

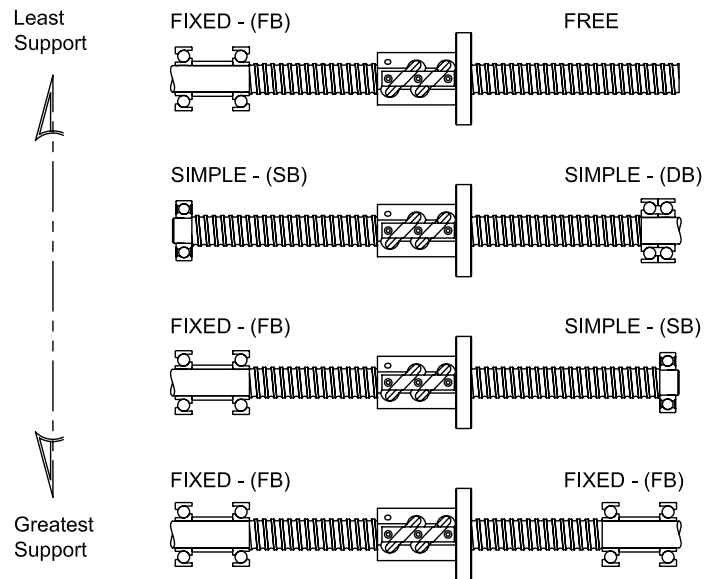
Details can be found at [www.joycedayton.com](http://www.joycedayton.com). Custom end machining and end machining for large diameters is also available. Contact [sales@joycedayton.com](mailto:sales@joycedayton.com) with your requirements.



Contact Joyce/Dayton with all your screw and nut requirements.

# BEARING BLOCK SUPPORTS

Every screw assembly requires a means of supporting the rotational axis of the screw and absorbing radial and axial forces. Our sealed and greased bearing mounts are suited for high duty cycle conditions. Select the screw size you require then refer to the end fixity chart below to determine the bearing type that will be needed. Contact [sales@joycedayton.com](mailto:sales@joycedayton.com) when sizing bearing mounts for large diameters and extreme duty cycles and loads.



- SB - Simple single bearing support  
(no axial load)
- DB - Simple double bearing support
- FB - Fixed double bearing support



Most screw and nut sizes are in stock and ready to ship. Products with machined end conditions and complete assemblies require additional lead time. Contact us with your requirements today.

## Joyce/Dayton Corp.

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