

Ball Screw Application Data Form



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ABSSAC
PRECISION MOTION SINCE 1982



BALL SCREW APPLICATION DATA FORM (PART 1)

Name _____ Company _____

Address _____

Tel _____ Fax _____ E-Mail _____

OPERATING LOADS

Normal operating load _____ Kilo/lbs

Load is in tension Load is in compression Load is in both

Load is constant Load is variable

(If load is variable submit load curve diagram.)

Maximum static load in tension _____ Kilo/lbs

Maximum static load in compression _____ Kilo/lbs

Sideloads if any _____ Overturning moment (cantilever loads) _____

Describe _____

DUTY CYCLE

Continuous operation Intermittent operation Variable

Time under dynamic load _____ Time at rest _____

Describe operation _____

METHOD OF OPERATION

Screw will be driven Nut will be driven

The force will be applied to the nut to rotate the screw (back driven screw)

Assembly will be lubricated Type of lube _____

Please ask our technical staff for recommendations for the best lubricant for your application.

SPEED AND TRAVEL RATE

Rate of travel described in inches per minute _____

Input RPM at screw or nut _____

Amount of torque available _____



BALL SCREW APPLICATION DATA FORM (PART 2)

TRAVEL LENGTH AND SUPPORTS

What is the unsupported screw length between bearings in/mm

Does the nut travel the full length of the screw in/mm

If not, over what area does the nut travel

Is the screw operated in a vertical Horizontal Other, please state _____

What type of end supports are you using?

LEAD ACCURACY

Standard accuracy (.015 in per ft max) / 0.3mm per 300mm

Precision rolled thread accuracy required (0.003 in per ft) / (.07mm per 300mm)

Ground precision accuracy required (.0005 in per ft) / (.01mm per 300mm)

Better than the above required? Please state 0.0mm / 300mm

SCREW SIZE

Standard backlash OK (up to .007in) / (.1778mm)

Reduced backlash required (.002 in max) / (.0508mm)

Zero backlash required

ENVIRONMENT

Will operate at normal room temperature Will operate in very dirty / dusty conditions

Will operate at very high temperatures Will operate where metal chips are present

Will operate at very low temperatures Will operate in corrosive atmosphere

STRAIGHTNESS

Standard straightness OK (.01in per ft) 0.254mm / 300mm

Special straightness required (.002in per ft) 0.0508mm / 300mm

Straightness better than 0.002in per ft required 0.0508mm / 300mm

END MACHINING

If you want to order the screws with the ends already machined to your specifications, submit a sketch or drawing with details and tolerances required.

QUOTATION INFORMATION

Quantity desired

Delivery schedule

Please submit any additional data you feel would be helpful to us in selecting the proper screw size and in submitting your quotation. Attach drawings of screw and nut if available.

Suggestions, help and advice is given in good faith but without responsibility. It remains the responsibility of the customer or end user to ensure that the product chosen meets their life, duty cycle and other performance criteria.