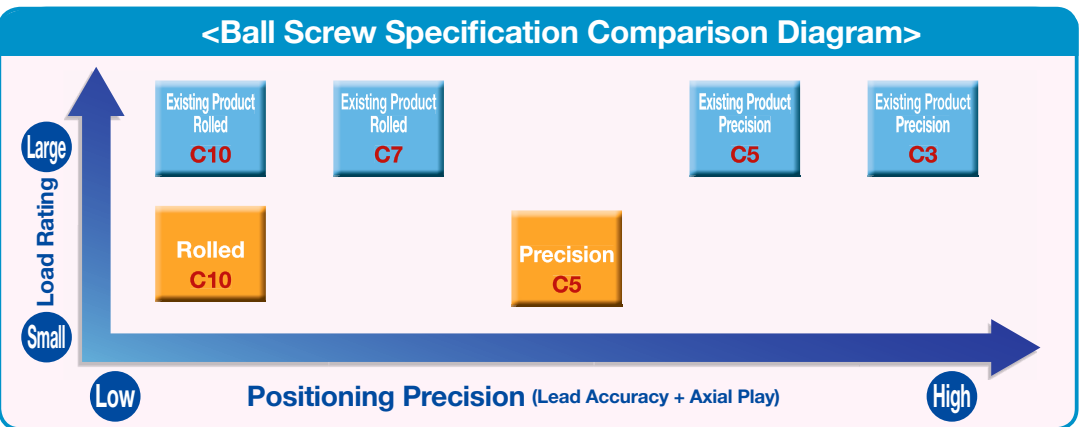


Rolled Ball Screws / Precision Ball Screws

Part Selection Points

Specification Differences between Existing Parts and C-VALUE Parts

- parts have different load rating and axial clearance from the existing parts.
- Use the right ball screw for the usage criteria as it affects the device's lifespan performance and its positioning performance.



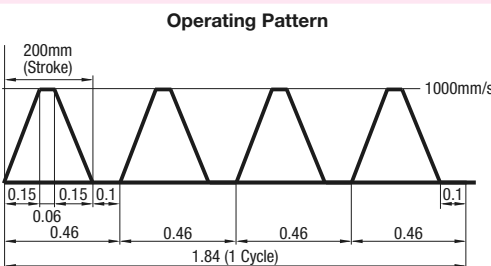
Selection Points

1. Load rating: This number expresses the lifespan performance of the ball screw.

part load rating value is different to that of the existing part and there is difference in the lifespan and portable loading. Consider its use for medium / low frequency drive applications and for medium / low load application. Please consider using the existing parts for high frequency drive applications and for high load application.

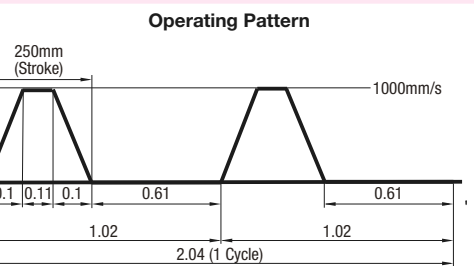
<Existing Part Operation Pattern and Lifespan Calculation Example>

Ball Screw Part Number: BSS1520-800
Basic Dynamic Load Rating: 4.4kN
Workpiece Mass : 45kg
Life Hours : 25000 hours (including stopped hours)



<Part Operation Pattern and Lifespan Calculation Example>

Ball Screw Part Number: C-BSS1520-800
Basic Dynamic Load Rating: 3.1kN
Workpiece Mass : 45kg
Life Hours : 25000 hours (including stopped hours)



2. Axial clearance: Affected by the positioning precision of the device.

The ball screw axial clearance is affected by the positioning precision of the device. parts have a different clearance compared with existing parts. Hence it is necessary to check the axial clearance value is within the positioning precision of the device. C-VALUE parts are designed to be used for medium precision positioning purposes. Use existing parts for uses that require high precision positioning.

For details about Ball Screws Selection Process, see P.2223 ~ P.2230.

Rolled Ball Screws / Precision Ball Screws

Features of MISUMI Ball Screws

Features of MISUMI Ball Screws

■ Lineup

- Rolled/precision shaft diameters Ø6~ 32 with precision grades C3 to C10.
- New release of, which realizes lower prices by redesigning the specifications.

• Rolled Ball Screws

Type	Existing Product Compact Nut Type / Standard Nut Type	C-VALUE Standard Nut Type	Existing Product Block Nut Type
Screw Shaft O.D.	Ø6~32	Ø8~25	Ø15~25
Part Number	BSSC / BSSZ / BSSR / BSST	C-BSSC	BSBR
Accuracy Grade	C7/C10	C10	C10
Features	• Stable quality • Wide variation of screw shafts up to Ø32.	• Lineup of all major sizes frequently used for FA. • The price is 25% reduced at the same quality.	• Can be mounted to the table directly

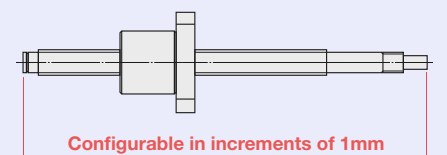
• Precision Ball Screws

Type	Existing Product Ø6~25	C-VALUE Ø8~25
Screw Shaft O.D.	Ø6~25	Ø8~25
Part Number	BSX / BSS / BSSE	C-BSS
Accuracy Grade	C3/C5/C7	C5
Features	• Stable quality • Abundant variation C3~ C7.	• Precision grade C5 type is most used. • The price is 30% reduced at the same quality.

■ Machining on the Shaft End

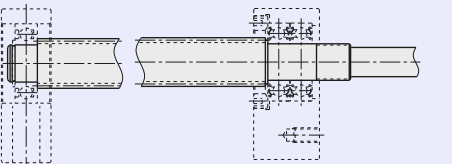
- The ball screws are delivered with the shaft ends already altered.
- Screw shaft lengths can be specified to units of 1 mm and additional shaft end machining can be requested.

• The screw shaft length is configurable in increments of 1mm



• Shaft Ends Machined

Ball screws are sent already processed to dimensions fitting the support unit in conformity with both supporting side and fixed side.



* For details of the alterations, see the page for the respective product.

■ Quick Delivery

- Choose MISUMI ball screws to ensure a short period of time from selection and ordering until shipment.



I can't wait 1 month for ball screw arrangements. This is a worry...

MISUMI uses fast delivery services!!

We send ball screws with shaft-end processing complete ready for assembly.
We also supply all peripherals such as support units, linear guides and couplings!
(Next-day shipping is possible for some orders) (Excluding some parts)

