

Lead Screw

Easy Assembly Design - Overview

Lead Screw Support Unit can reduce the time of assembling by **50%**.

Support Unit as Standard

Lead Screw Support Units are available as standard specification.
Designing Bearing Mechanism is no longer needed.

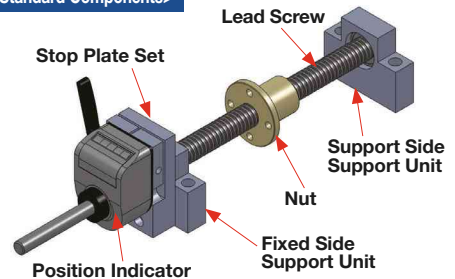
Lead screw shaft end configurations are available as standard specification.

Easy to combine with Support Units by specifying shaft dia., shaft length.
Designing Bearing Mechanism is no more required.

Design for combination with parts is no longer needed.

Easy to assemble by specifying each part dimension.
Design for combination with parts is no more required.

<Standard Components>



A complete lead screw unit can easily be designed by selecting standard components.

Easy Assembly Design Features of each Component

1. Lead Screw Support Units P.791~794

Features: Optimal Lead Screw Support Units use two preload-adjusted radial bearings.

Support Unit Sets combined Fixed Side Support Unit with Support Side Support Unit are available for lower prices since 2012.

Lineup : Square / Round

Fixed Side Square Support Unit	Stop Plate Set	Stop Plate Set for Position Indicator Mount	Support Side Square Support Unit
		 For Position Indicators, select from P.811	

2. Lead Screws P.789

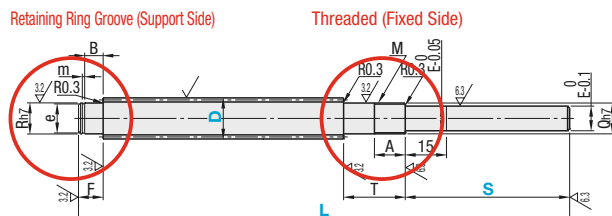
Features : Machined shaft ends based on Support Units dimensions.

Only specify **D**, **L**, and **S** dimensions.

Keyway machining and tapping etc. as an alteration are available. Mounting Handles etc. is also possible.

Lineup : Types of Threads [Right-Hand Thread / Left-Hand Thread] **Material** [EN 1.4301 Equiv. / EN 1.1191 Equiv.] **Surface Treatment** [Black Oxide]

Lead Screws for Support Units



3. Nuts P.795


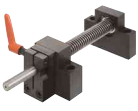




Features : Nuts are available in various materials and shapes. Applicable for various applications.

Lineup : See P.795~800.

Easy Assembly Design

[Selection Procedure 1] Select the optimal Lead Screw Support Unit Pattern for application.

Lead Screw Support Unit Patterns (Ex.)

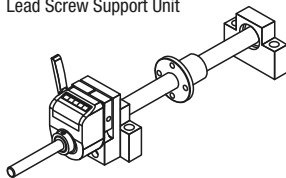
Standard Square Support Unit	Square Stop Plate Set	Stop Plate Set for Square Position Indicator Mount
		
Standard Round Support Unit	Round Stop Plate Set	Stop Plate Set for Round Position Indicator Mount
		

Without Support Side Support Unit is also selectable.

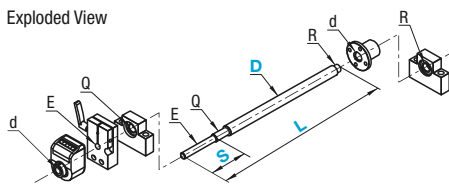
[Selection Procedure 2] Select components.

- Specify shaft Dia. **D**, **L**, and **S** dimensions according to conditions of use.
- Select components in the specification table based on shaft Dia. **D** specified in step 1.

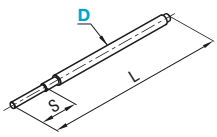
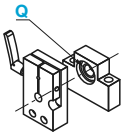
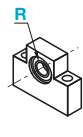
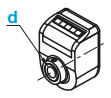
Lead Screw Support Unit



Exploded View



Lead Screw, Support Unit and Indicator Collar Size Chart

Lead Screw	Applicable Fixed Side Support Unit			Applicable Support Side Support Unit	Position Indicator Collar
					
Type	Type			Type	Type
MTWK	Main Body Only	Stop Plate Set	Stop Plate Set for Position Indicator Mount	Square	MTUZ
	Square	MTWZ	MTWZ-S	MTWZ-CP-(LP)	-CSE
	Round	MRWZ	MRWZ-S	MRWZ-CP-(LP)	
Lead Screw Shaft Dia.	Bearing I.D.			Bearing I.D.	Collar I.D.
D	Q			R	d
12	8			8	6
14	10			10	8
16	12			12	10
18	12			12	10
20	15			15	12
22	15			15	12
25	15			15	12

Position Indicator has a single I.D. size, and ordering a collar as an alteration is required. Please see Selection Chart on selecting alterations.

Select Nuts based on shaft Dia. Lead screws are available in various materials and types of threads. P789

For Position Indicators, various types are available in terms of main body color and mounting direction. Select an appropriate type for the current application. P811, 812

Part Number Selection Example

In conformance with on Size Application Table

Components	Selection
Lead Screw	Non-plated EN 1.1191 Equiv. D16 L200 S20
Fixed Side Support Unit	Square Digital Position Indicators Compact Mount Set
Support Side Support Unit	Square
Position Indicator	Standard Spindle Compact

Part Number
MTWK16-200-S20
MTWZ-CP12
MTUZ12
DPNR3-CSE10

A complete lead screw unit can be designed by ordering components with specified Part Number and assembling them.

How to Assemble P792

When using Handles etc. please refer to P.2 -1157

