

**Locating Pins**



Tapered  
P.747



Spherical  
P.748



Straight, Tapered  
P.749

**P.745**

**Bushings for Locating Pins**



P.749



P.750



P.751



P.752

**P.749**

Straight, Press Fit for Easy Mounting    Shouldered, Press Fit Easy Mounting    Straight, Adhesive Fixation for Easy Positioning    Shouldered, Adhesive Fixation for Easy Positioning

**Adjusting Bolts**



Adjusting Bolts Hex Socket With Knurled Head  
P.754

**P.753**

**Leveling Screws**



P.756



Lock Nuts For Leveling Screws  
P.757

**P.755**

**Adjusting Stopper Screws**

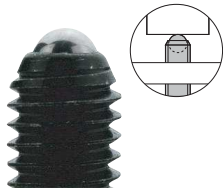
**New Products**



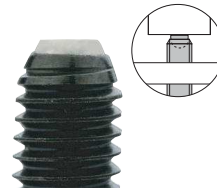
Adjusting Stopper Screws, Hex Socket  
P.759

**P.758**

**Clamping Screws**



P.761



P.762

**P.760**

Clamping Screws Ball Type    Clamping Screws Angle Type

**Urethane Pushers**



Threaded Stud Type  
P.764



Tapped Type  
P.765



Threaded Stud Type With Hex Nut  
P.766

**P.763**





**Micrometer Heads**







**P.767**

Micrometer Heads  
P.768

**Manual Positioning Stages**




<p><b>New Products</b></p>  <p>X-Axis</p> <p>X-Axis Manual Stages Cross Roller Guide P.771~P.772</p>	<p><b>New Products</b></p>  <p>X-Axis</p> <p>X-Axis Manual Stages Linear Ball Guide P.773~P.774</p>	<p><b>New Products</b></p>  <p>XY-Axis</p> <p>XY-Axis Manual Stages Cross Roller Guide P.775~P.776</p>	<p><b>New Products</b></p>  <p>XY-Axis</p> <p>XY-Axis Manual Stages Linear Ball Guide P.777~P.778</p>
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**P.769**

<p><b>New Products</b></p>  <p>XY-Axis</p> <p>XY-Axis Manual Stages Linear Ball Guide Thin P.779~P.780</p>	<p><b>New Products</b></p>  <p>Z-Axis</p> <p>Z-Axis Manual Stages Cross Roller Guide P.781~P.782</p>	<p><b>New Products</b></p>  <p>Z-Axis</p> <p>Z-Axis Manual Stages Linear Ball Guide P.783~P.784</p>	<p><b>New Products</b></p>  <p>XZ-Axis</p> <p>XZ-Axis Manual Stages Cross Roller Guide P.785~P.786</p>
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<p><b>New Products</b></p>  <p>XZ-Axis</p> <p>XZ-Axis Manual Stages Linear Ball Guide P.787~P.788</p>	<p><b>New Products</b></p>  <p>XYZ-Axis</p> <p>XYZ-Axis Manual Stages Cross Roller Guide P.789~P.790</p>	<p><b>New Products</b></p>  <p>XYZ-Axis</p> <p>XYZ-Axis Manual Stages Linear Ball Guide P.791~P.792</p>
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**Motorized Positioning Stages**

<p><b>New Products</b></p>  <p>X-Axis</p> <p>X-Axis Motorized Positioning Stages P.796</p>	<p><b>New Products</b></p>  <p>XY-Axis</p> <p>XY-Axis Motorized Positioning Stages P.797~P.798</p>	<p><b>New Products</b></p>  <p>Z-Axis</p> <p>Z-Axis Motorized Positioning Stages P.799~P.800</p>
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**P.793**

**Motorized Rotary / Goniometer Stages**

<p><b>New Products</b></p>  <p>Motorized Rotary Stages Ball Screw P.803~P.804</p>	<p><b>New Products</b></p>  <p>Motorized Rotary Stages Worm Gear P.805~P.806</p>	<p><b>New Products</b></p>  <p>1-Axis Motorized Goniometer Stages Ball Screw P.809~P.810</p>	<p><b>New Products</b></p>  <p>2-Axis Motorized Goniometer Stages Ball Screw P.811~P.812</p>
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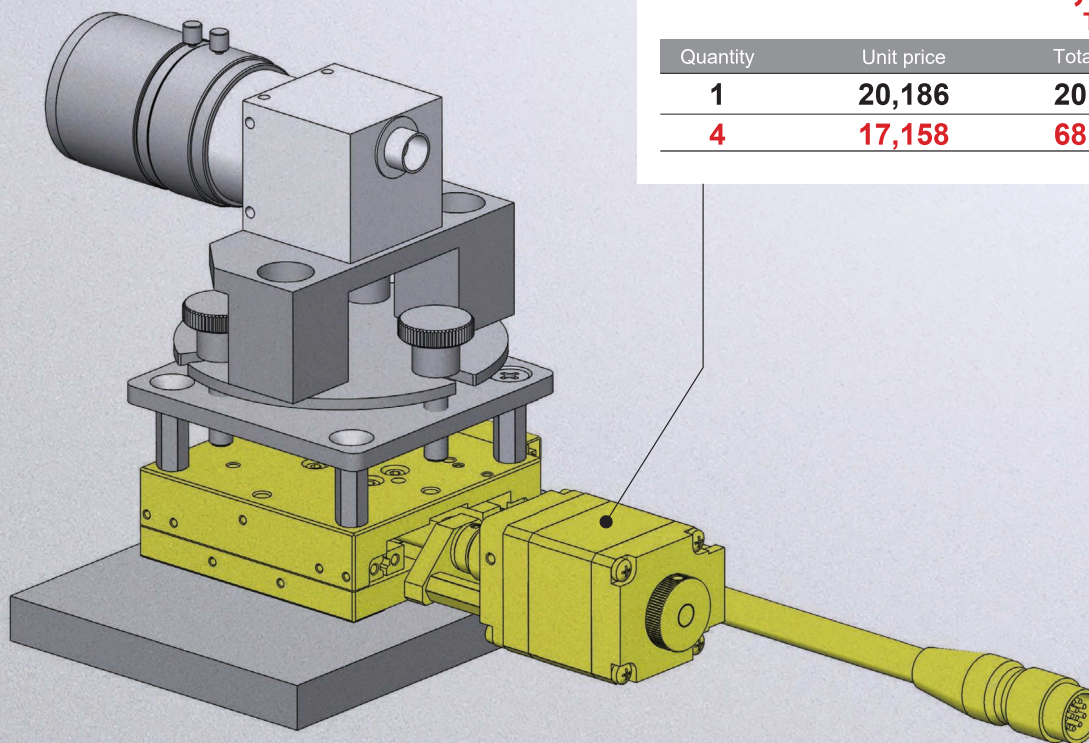
**P.801**

# One-Way Adjustment Unit

Application industries:

**Electronic & Electrical**

This figure shows the one-way adjustment unit that integrates an X-axis automatic positioning stage, which can be used for camera focusing. The positioning stage is widely used in mechanical equipment or tooling that requires positioning and position adjustment.



Reference price

## 01 Motorized Positioning Stage x1 P.796



Motorized Positioning Stage  
Length 60×60mm  
Cover Position R  
Driver A  
Cable Length 2m  
C-XMBS630-R-A-2

**20,186**  
THB/pcs

Quantity	Unit price	Total price
<b>1</b>	<b>20,186</b>	<b>20,186</b>
<b>4</b>	<b>17,158</b>	<b>68,632</b>

# Multi-Way Adjustment Unit

Application industries:

**Automotive part**

**Lithium battery**

This figure shows the multi-way manual positioning stage adjustment unit. The positioning adjustment unit has a simple structure and is easy to adjust and position, and is widely used in various positioning and adjusting mechanical equipment or tooling.



Reference price

## 01 Locating Pin × 4 P.747



Insertion Guide Tip  
Shape Round Type  
Mounting Side O.D. 6mm  
Positioning Side O.D. 8mm  
C-JPBB6-8

**75**  
THB/pcs

Quantity	Unit price	Total price
1	75	75
<b>30</b>	<b>64</b>	<b>1,920</b>

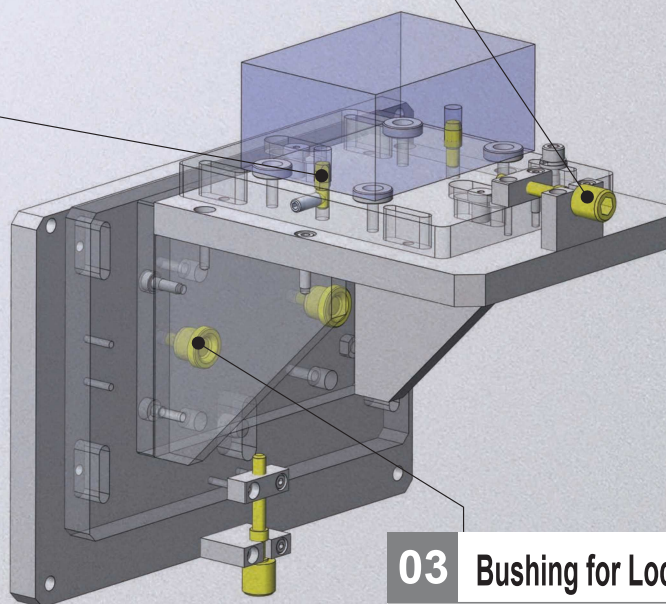
## 02 Adjusting Bolt × 2 P.754



Thread Straight  
Distance × Pitch M6 × 1.0  
Thread Length 30mm  
C-AJKTNA6-30

**75**  
THB/pcs

Quantity	Unit price	Total price
1	75	75
<b>30</b>	<b>64</b>	<b>1,920</b>



## 03 Bushing for Locating Pin × 2 P.750



I.D. 10mm  
O.D. 15mm  
Length 8mm  
C-JBHM10-8

**177**  
THB/pcs

Quantity	Unit price	Total price
1	177	177
<b>10</b>	<b>150</b>	<b>1,500</b>

\* All products prices are without tax. For prices reference, please visit MISUMI official website.

## Economy series Locating Pins / Bushings

- Suitable for positioning at working station in production lines.
- Designed for smooth insertion and removal for automation



vs Standard Type  
**Saving**  
up to  
**87%**

### Categories of use

	Recommended Applications	Tapered / Spherical Locating Pin	Press Fit for Easy Mounting	Adhesive Fixation for Easy Positioning
MISUMI standard product	<ul style="list-style-type: none"> <li>• Priority in positioning accuracy, small pin sleeve fit clearance</li> <li>• Fixtures with manual disassembly and assembly and less disassembly times</li> </ul>	<b>Positioning Side O.D. Tolerance</b> 0 -0.01	<b>I.D. Tolerance</b> <b>G6</b> / $+0.01$ 0 * Two I.D. tolerance specifications	—
MISUMI Economy series	<ul style="list-style-type: none"> <li>• Priority in smooth disassembly and assembly, large pin sleeve fit clearance</li> <li>• Workstations on automatic production lines with frequent disassembly and assembly</li> </ul>	<b>Positioning Side O.D. Tolerance</b> -0.01 -0.02	<b>I.D. Tolerance</b> <b>F7</b>	<b>O.D. Negative Tolerance</b>

### MISUMI Economy series products respond to the voice of customers and on-site problems are improved

	Pin / Bushing Fitting Clearance	Pin / Bushing Mounting Hole Pitch
MISUMI standard product	Locating Pin: JPBB6-8 Bushing: JBHM8-12 <b>Fit Clearance</b> <b>0.004~0.022</b>	Bushing Mounting Hole Pitch Locating Pin Mounting Hole Pitch <b>Voice of Customer</b> Pins and Bushings require the same pitch between the mounting holes of the two plates, and the press-in installation requires high accuracy of the hole pitch, which makes processing difficult.
MISUMI Economy series	Locating Pin: P.747 Bushing: P.750 <b>Fit Clearance</b> <b>0.023~0.048</b>	Position Adjusting Clearance Pin Sleeve Mounting Hole Pitch <b>Adhesive Fixation for Easy Positioning</b> Fine-tuning the mounting position of the bushing, with the locating pin actual matching, to relieve the pressure of the mounting hole machining accuracy

## Press Fit for Easy Mounting

**Comes with a reference line for horizontal press-fit for bushing mounting**

Polyurethane hammer, for preventing damage to parts

Pressing in at an angle may cause deformation or seizure of the bushing and mounting hole.

Refer to the reference line and confirm that the bushing can be pressed in horizontally

Reference Line

## Adhesive Fixation for Easy Positioning

The outer diameter of the bushing is negative tolerance, and the bushing mounting position is determined by fine-tuning the clearance to the mounting hole with the locating pin as the reference.

1. Gluing, the outer groove of the bushing can effectively retain the adhesive.
2. Before the adhesive solidifies, install the locating pin and make the locating pin and the bushing actually match.
3. After the adhesive solidifies, the mounting position of the bushing is determined, and the spacing between the locating pin and the bushing is consistent.

## Example of Using Locating Pin and Bushing

**Application Name: Pallet Conveying Positioning Mechanism**

**Application:** The pallet is transferred to the specified position, the locating pin is ejected, and the bushing is inserted to complete the positioning

**Misumi Economy Series Locating Pins and Bushings contribute to the efficiency of the disassembly and assembly process of the line.**

9	Locating Pins / Bushings / Clamping Screws / Positioning Stages
	Locating Pins
P.745	Bushings for Locating Pins
	Adjusting Bolts
P.753	Clamp Screws
P.760	Urethane Pushers
P.763	Micrometer Heads
P.767	Motorized Positioning Stages
P.769	

Representative model: C-JPBB6-8

Save Up to **49%**  
vs Standard Type

Shipping  
from  
**1 day**

**75**

**THB**



Round Type    Diamond Type

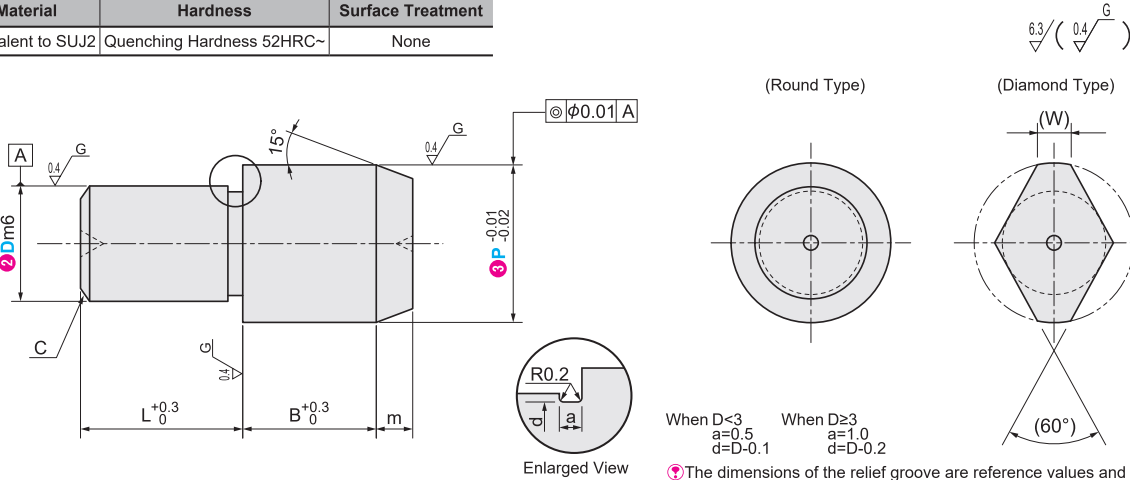
Volume Discount

Quantity	1~29	30~49	50~
Discount	Unit Price	15%	30%



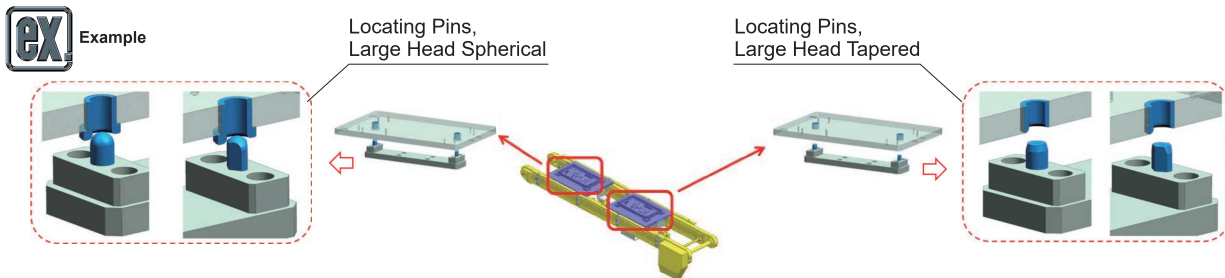
Shipping days may differ by Quantity.  
Quantity of volume discount above is for representative Part No. It may differ by the Part.

Material	Hardness	Surface Treatment
Equivalent to SUJ2	Quenching Hardness 52HRC~	None



Part Number	D Tolerance m6	Positioning Side P Selection				L	B	C	m	(W)
		1 Type	2 Mounting Side O.D. D	3	4					
C-JPBB (Round Type) C-JPDB (Diamond Type)	+0.008 +0.002	2	3	4		4	3	0.5	1	1.2
		3	4	5	6					
	+0.012 +0.004	4		5	6	10	6	1	3	2.2
		5		6	8					
	+0.015 +0.006	6				15	8	2	4	4
		8								
10						10				

**Ordering Example** Please order after selecting part number and parameters according to the selection steps 1 to 3.  
**Part Number (1 Type · 2 Mounting Side O.D. D) - 3 Positioning Side O.D. P**  
**C-JPBB6 - 8**



How to search on website

By Type Search on MISUMI official website  
**C-JPBB**

By Keyword Step 1 Search on MISUMI official website  
**locating pin**

Step 2 Select MISUMI economy series brand  
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9  
Locating Pins / Bushings / Clamping Screws / Positioning Stages  
Locating Pins  
P.745  
Bushings for Locating Pins  
P.749  
Adjusting Bolts  
P.753  
Clamp Screws  
P.760  
Urethane Pushers  
P.763  
Micrometer Heads  
P.767  
Motorized Positioning Stages  
P.769

Representative model: C-JPQB10-12

Save Up to **69%** vs Standard Type

**100 THB**

**Shipping from 1 day**



Round Type    Diamond Type



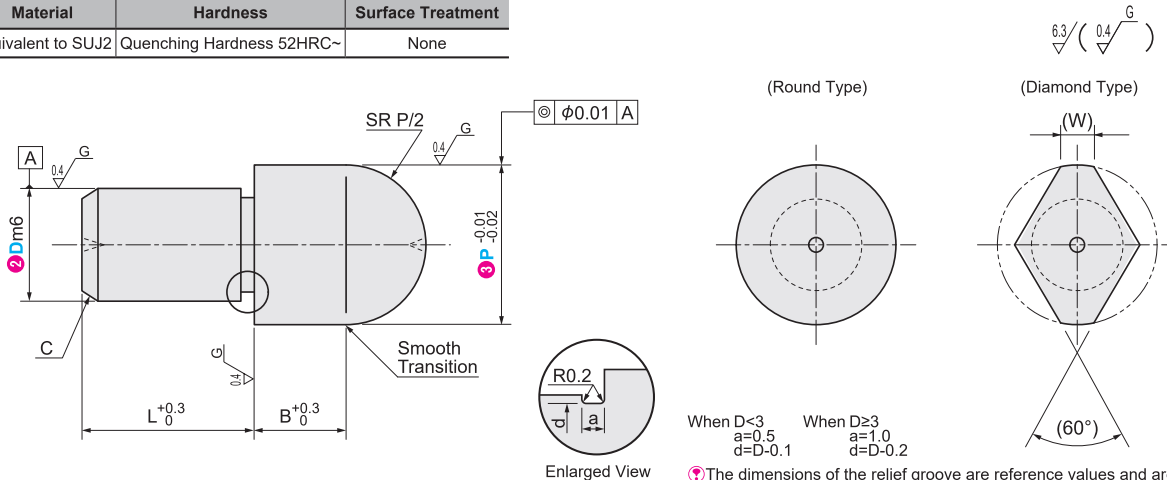
Volume Discount

Quantity	1~29	30~49	50~
Discount	Unit Price	15%	30%

Shipping days may differ by Quantity.

Quantity of volume discount above is for representative Part No. It may differ by the Part.

Material	Hardness	Surface Treatment
Equivalent to SUJ2	Quenching Hardness 52HRC~	None



Part Number		D Tolerance m6	Positioning Side P Selection	L	B	C	(W)
Type	Mounting Side O.D. D						
C-JPQB (Round Type) C-JPQD (Diamond Type)	2	+0.008 +0.002	3	4	3	0.5	1.2
	3		4 5				
	4	+0.012 +0.004	5 6	5	6	1	1.8
	5		6 8				
	6		8 10	10	8	1.5	3
	8		10 12				
	10	+0.015 +0.006	12	15	10	2	4

Ordering Example

Please order after selecting part number and parameters according to the selection steps 1 to 3.

Part Number (1 Type · 2 Mounting Side O.D. D) - (3 Positioning Side O.D. P)  
**C-JPQB10 - 12**



By Type Search on MISUMI official website

By Keyword Step 1 Search on MISUMI official website

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Locating Pins / Bushings / Clamping Screws / Positioning Stages

Locating Pins

P.745

Bushings for Locating Pins

Adjusting Bolts

P.753

Clamp Screws

P.760

Urethane Pushers

P.763

Micrometer Heads

P.767

Motorized Positioning Stages

P.769



# Locating Pins - Straight, Tapered

Representative model: CUG4-10

Save Up to **87%** vs Standard Type

**35**

THB

Shipping from **1 day**

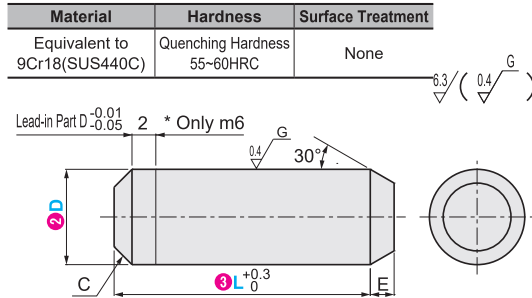


Volume Discount

Quantity	1~29	30~49	50~
Discount	Unit Price	15%	30%



Shipping days may differ by Quantity.  
Quantity of volume discount above is for representative Part No. It may differ by the Part.



\* Select the corresponding model according to D tolerance

Part Number	D Tolerance		Length L Selection	E	C
	m6	g6			
3	+0.008 +0.002	-0.002 -0.008	10 15	1	0.5
4			10 15 20	1.5	
5	+0.012 +0.004	-0.004 -0.012	10 15 20		2
6			10 15 20		
8	+0.015 +0.006	-0.005 -0.014	20		

Ordering Example

Please order after selecting part number and parameters according to the selection steps ① to ③.  
Part Number (①Type · ②Mounting Side O.D. D) - ③Length L  
CUG4 - 10

# Bushings For Locating Pins - Straight, Press Fit for Easy Mounting

Representative model: C-JBAM6-6

Save Up to **30%** vs Standard Type

**104**

THB

Shipping from **1 day**

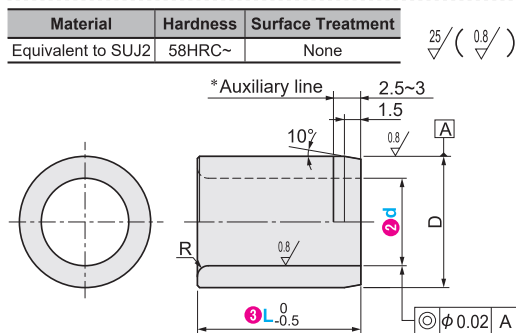


Volume Discount

Quantity	1~9	10~14	15~
Discount	Unit Price	15%	30%



Shipping days may differ by Quantity.  
Quantity of volume discount above is for representative Part No. It may differ by the Part.



The I.D. tolerance of bushing is high. If a vernier caliper is used for detection, the measurement result will be too small. It is recommended to use a high-precision measuring tool (internal micrometer or plug gauge, etc.) for detection.

Part Number	I.D. d	d Tolerance F7	Length L Selection	O.D. D	D Tolerance m7	R
4			5 6 8	8	+0.016 +0.004	1
5	+0.022		6 8 10	10		
6	+0.010		5 6 8 10 12 15 16 20		12	+0.021 +0.006
8	+0.028		6 8 10 12 15 16 20 25			
10	+0.013		8 10 12 15 16 20 25	18	+0.025 +0.007	
12	+0.034 +0.016		10 12 15 16 20 25 30			

Ordering Example

Please order after selecting part number and parameters according to the selection steps ① to ③.  
Part Number (①Type · ②I.D. d) - ③Length L  
C-JBAM6 - 6

How to search on website

By Type: Search on MISUMI official website  
CUG

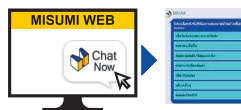
By Keyword: Step 1 Search on MISUMI official website  
bushing for pin

Step 2 Select MISUMI economy series brand  
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Representative model: C-JBHM10-8

Save Up to **30%**  
vs Standard Type

**177**

THB



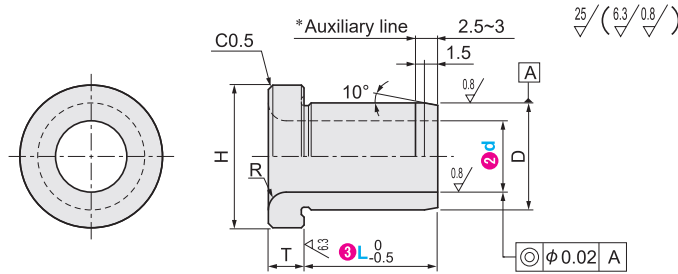
Volume Discount

Quantity	1~9	10~14	15~
Discount	Unit Price	15%	30%



Shipping days may differ by Quantity.  
Quantity of volume discount above is for representative Part No. It may differ by the Part.

Material	Hardness	Surface Treatment
Equivalent to SUJ2	58HRC~	None



The I.D. tolerance of bushing is high. If a vernier caliper is used for detection, the measurement result will be too small. It is recommended to use a high-precision measuring tool (internal micrometer or plug gauge, etc.) for detection.

Part Number		d	Length L Selection	O.D. D	D Tolerance m7	H	T	R
Type	I.D. d	Tolerance F7						
C-JBHM	4	+0.022 +0.010	5 6	8	+0.016 +0.004	12	3	1
	5		5 6	10		14		
	6		5 6 8 10 12 15					
	8	+0.028 +0.013	5 6 8 10 12 15	12	+0.021 +0.006	16	4	2
	10		6 8 10 12	15		19		
	12		8 10 12	18		22		

Ordering Example

Please order after selecting part number and parameters according to the selection steps 1 to 3.  
 Part Number (1 Type · 2 I.D. d) - Length L  
 C-JBHM10 - 8

How to search on website



By Type Search on MISUMI official website  
 C-JBHM

By Keyword Step 1 Search on MISUMI official website Step 2 Select MISUMI economy series brand  
 bushing for pin

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 Locating Pins  
 P.745 Bushings for Locating Pins P.749  
 Adjusting Bolts P.753  
 Clamp Screws P.760  
 Urethane Pushers P.763  
 Micrometer Heads P.767  
 Motorized Positioning Stages P.769

Representative model: C-JBAG6-8

Save Up to **55%** vs Standard Type

**166 THB**

Shipping from **1 day**



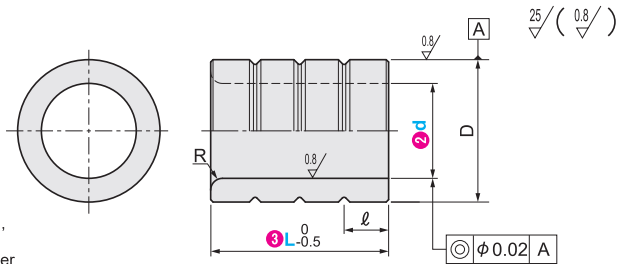
Volume Discount

Quantity	2~9	10~14	15~
Discount	Unit Price	15%	30%



Shipping days may differ by Quantity.  
Quantity of volume discount above is for representative Part No. It may differ by the Part.

Material	Hardness	Surface Treatment
Equivalent to SUJ2	58HRC~	None



Number of O.D. Grooves:  
 L < 10 → 1 pcs  $\ell=L/2$   
 10 ≤ L ≤ 12 → 2 pcs  $\ell=L/3$   
 L > 12 → 3 pcs  $\ell=L/4$

The I.D. tolerance of bushing is high. If a vernier caliper is used for detection, the measurement result will be too small. It is recommended to use a high-precision measuring tool (internal micrometer or plug gauge, etc.) for detection.

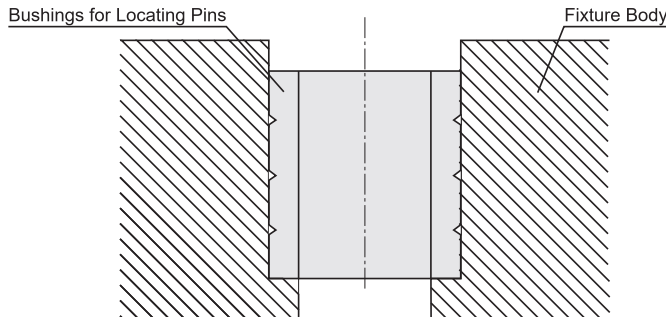
Part Number	d	d Tolerance	Length L Selection	O.D. D	D Tolerance	R
<b>C-JBAG</b>	4	+0.012 0	5 6 8	8	-0.005 -0.020	1
			6 8 10			
			5 6 8 10 12 15 16 20			
	8	+0.015 0	6 8 10 12 15 16 20 25	12	-0.006 -0.024	2
			8 10 12 15 16 20 25			
			10 12 15 16 20 25 30	15		
12	+0.018 0	10 12 15 16 20 25 30	18			

Ordering Example

Please order after selecting part number and parameters according to the selection steps 1 to 3.

Part Number (1)Type · (2)I.D. d - (3)Length L  
**C-JBAG6 - 8**

Feature: The contact area between the O.D. adhesion groove and the glue is increased, effectively enhancing the adhesion strength.



How to search on website



By Type Search on MISUMI official website

By Type

**C-JBAG**



By Keyword Step 1 Search on MISUMI official website

By Keyword

**bushing for pin**



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Locating Pins

P.745 Bushings for Locating Pins

P.749 Adjusting Bolts

P.753

Clamp Screws

P.760

Urethane Pushers

P.763

Micrometer Heads

P.767

Motorized Positioning Stages

P.769



Representative model: C-JBHG6-6

Save Up to **64%** vs Standard Type

**196 THB**



Volume Discount

Quantity	2~9	10~14	15~
Discount	Unit Price	15%	30%

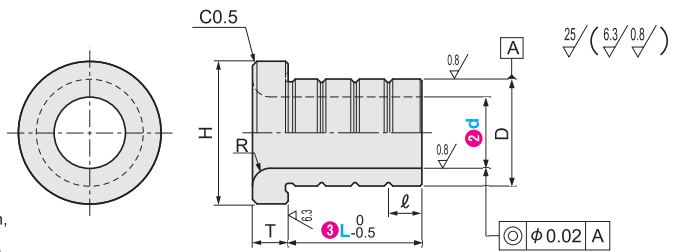


Shipping days may differ by Quantity.  
Quantity of volume discount above is for representative Part No. It may differ by the Part.

Material	Hardness	Surface Treatment
Equivalent to SUJ2	58HRC~	None

Number of O.D. Grooves:  
 L < 10 → 1 pcs ℓ=L/2  
 10 ≤ L ≤ 12 → 2 pcs ℓ=L/3  
 L > 12 → 3 pcs ℓ=L/4

The I.D. tolerance of bushing is high. If a vernier caliper is used for detection, the measurement result will be too small. It is recommended to use a high-precision measuring tool (internal micrometer or plug gauge, etc.) for detection.



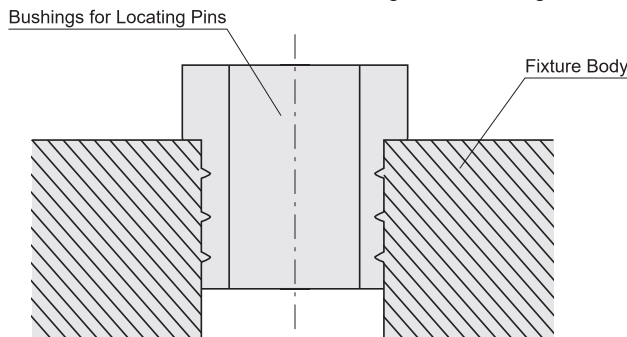
Part Number	d	Tolerance H7	Length L Selection	O.D. D	D Tolerance g7	H	T	R
<b>C-JBHG</b>	4	+0.012 0	5 6	8	-0.005 -0.020	12	3	1
	5		5 6	10				
	6		5 6 8 10 12 15	14				
	8	+0.015 0	5 6 8 10 12 15	12	-0.006 -0.024	16	4	2
	10		6 8 10 12	15		19		
	12		8 10 12	18		22		

Ordering Example

Please order after selecting part number and parameters according to the selection steps 1 to 3.

Part Number (1)Type · (2)I.D. d) - (3)Length L  
**C-JBHG6 - 6**

Feature: The contact area between the O.D. adhesion groove and the glue is increased, effectively enhancing the adhesion strength.



How to search on website



By Type Search on MISUMI official website

By Keyword Step 1 Search on MISUMI official website

Step 2 Select MISUMI economy series brand  
 MISUMI  MISUMI economy

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9 Locating Pins / Bushings / Clamping Screws / Positioning Stages  
 Locating Pins  
 P.745 Bushings for Locating Pins P.749  
 Adjusting Bolts  
 P.753  
 Clamp Screws  
 P.760  
 Urethane Pushers  
 P.763  
 Micrometer Heads  
 P.767  
 Motorized Positioning Stages  
 P.769

## Economy series Adjusting Bolts

Smooth assembly

High precision thread

Excellent anti-rust performance

vs Standard Type

Saving  
up to

**54%**



9  
Locating Pins / Bushings / Clamping  
Screws / Positioning Stages

Locating  
Pins

P.745

Bushings for  
Locating Pins

P.749

Adjusting  
Bolts

P.753

Clamp  
Screws

P.760

Urethane  
Pushers

P.763

Micrometer  
Heads

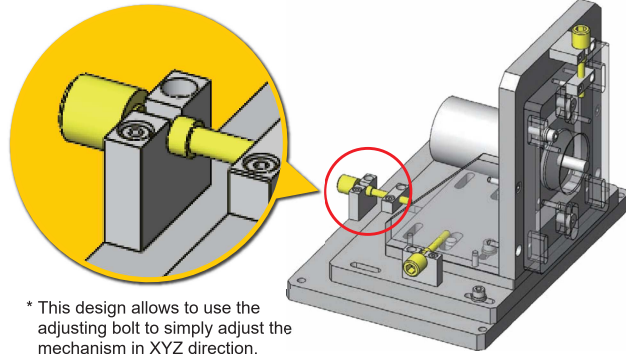
P.767

Motorized  
Positioning Stages

P.769

### Adjusting Bolt Overview

- The adjusting bolt is often used together with the fixing block for the adjusting bolt.
- Thread connecting positioning stage for front and rear position adjustment
- The adjustment method is generally divided into two types:
  - ① Manual adjustment with knurling at low load
  - ② Adjustment with hex wrench at high load



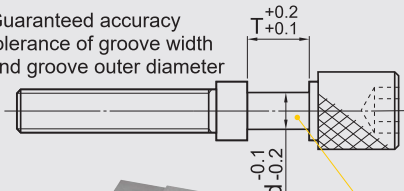
\* This design allows to use the adjusting bolt to simply adjust the mechanism in XYZ direction.

### Customer Voice

- ① For outgoing processed products, it often happens that the adjusting block cannot be installed because the groove outer diameter or groove width is poor.
- ② The thread accuracy is not good, sometimes not smooth enough in the adjustment and sometimes too loose.
- ③ Most surface treatment of outgoing processed products is blackened with poor rust prevention performance.

#### ① Guaranteed groove tolerance for smooth assembly

Guaranteed accuracy tolerance of groove width and groove outer diameter



Full assembly confirmation before shipment  
Ensure smooth assembly with the adjusting block

#### ② High precision thread

Generic products on the market

- No inspection standard
- During assembly, the thread is often too tight and cannot be screwed

**MISUMI Economy series**

- Full inspection before shipment
- Ensure smooth adjustment during use

\* Problems of generic products on the market.



#### ③ Excellent anti-rust performance

##### 24h Salt Spray Test Results

Blackened product severely rusted



Trivalent chromate treatment with slight white rust and no rusting



\* Generic products on the market are similar products randomly purchased by our company from online or offline markets

\* The test data are obtained through testing by our company, which are for reference only.

Representative model: C-AJKTNA6-30

Save Up to **54%** vs Standard Type

Shipping from **1 day**

**75**

**THB**



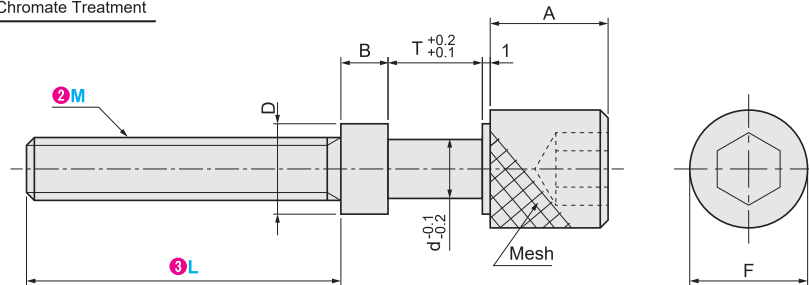
Volume Discount

Quantity	1~29	30~49	50~
Discount	Unit Price	15%	30%



Shipping days may differ by Quantity.  
Quantity of volume discount above is for representative Part No. It may differ by the Part.

Material	Surface Treatment
S45C	Trivalent Chromate Treatment



The thread precision of this product has been judged qualified through commercially available nuts equivalent to GB 6G.

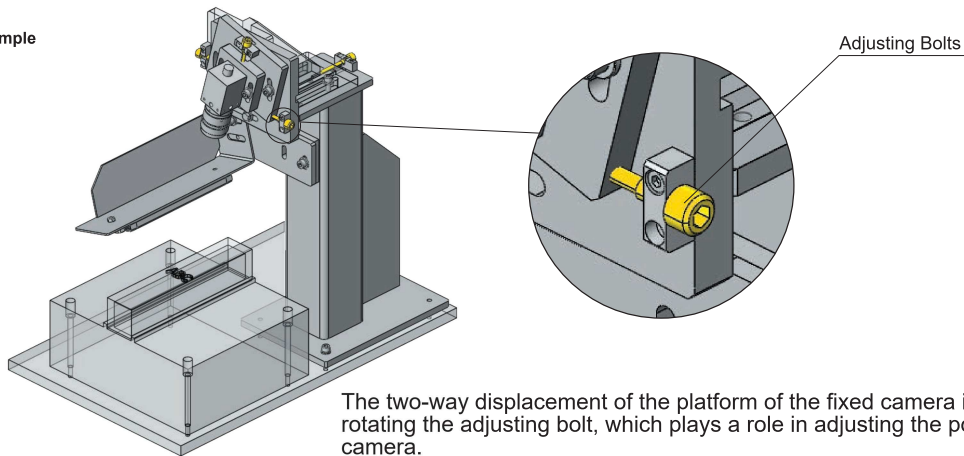
Part Number		③ Thread Length L Selection	d	T	Thread M × Pitch Dia. P	B	D	A	F
① Type	② Thread Dia. M								
C-AJKTNA	3	10 15 20 30	2.5	7	3×0.5	3	4.5	7	10
	4	10 15 20 30 40	3.5		4×0.7		5.5		
	5	15 20 30 40 50 60 70	4.5	9	5×0.8	4.6	7.5	15	15
	6	20 30 40 50 60 70 80	5.5		6×1.0		8.5		
	8	30 40 50 60 70 80	7.5		8×1.25	6	11.5		

Ordering Example

Please order after selecting part number and parameters according to the selection steps ① to ④.

Part Number (① Type · ② Thread Dia. M) - ③ Thread Length L  
C-AJKTNA6 - 30

ex Example



The two-way displacement of the platform of the fixed camera is performed by rotating the adjusting bolt, which plays a role in adjusting the position of the camera.

How to search on website

By Type Search on MISUMI official website  
C-AJKTNA

By Keyword Step 1 Search on MISUMI official website  
adjusting bolt

Step 2 Select MISUMI economy series brand  
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9 Locking Pins / Bushings / Clamping Screws / Positioning Stages  
 Locking Pins  
 P.745 Bushings for Locking Pins  
 P.749  
 Adjusting Bolts  
 P.753  
 Clamp Screws  
 P.760  
 Urethane Pushers  
 P.763  
 Micrometer Heads  
 P.767  
 Motorized Positioning Stages  
 P.769

## Economy series Leveling Screws

High precision thread

Smooth assembly

Excellent anti-rust performance

vs Standard Type

Saving  
up to  
**61%**



9  
Locating Pins / Bushings / Clamping  
Screws / Positioning Stages

Locating  
Pins

P.745

Bushings for  
Locating Pins

P.749

Adjusting  
Bolts

P.753

Clamp  
Screws

P.760

Urethane  
Pushers

P.763

Micrometer  
Heads

P.767

Motorized  
Positioning Stages

P.769

### Leveling Screws Overview

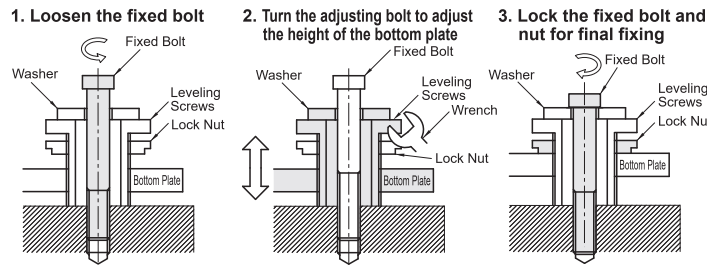
- Fine thread allows for slight adjustment of horizontal height.
- Leveling screws are often used in conjunction with locking nuts and fixing bolts.
- Four are usually used as a group, which are installed at the four corners of the abutment, and the abutment position is adjusted up and down by a wrench to ensure the level.

· Recommended combination parts

Economy Series Leveling Screws (M)	Recommended: Hexagon socket head bolt (M)	Recommended: Economy series Flat Washers (mm)
M10	M5	I.D. 6, O.D. 12, Thickness 2
M12	M6	I.D. 8, O.D. 16, Thickness 2
M16	M8	I.D. 10, O.D. 20, Thickness 3
M20	M10	I.D. 12, O.D. 25, Thickness 3

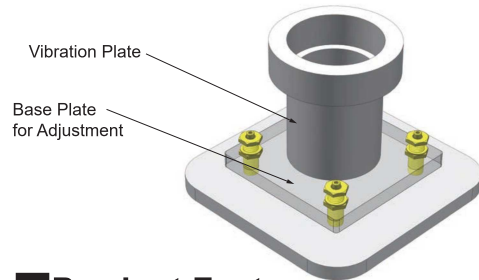
\* Refer to P.756 for details

### Usage Method

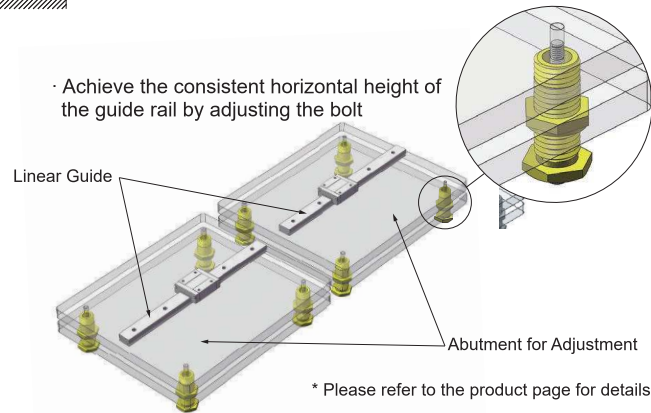


### Example of Use

- Adjust the micro height difference between the substrate and the workpiece by adjusting the bolt (used in the vibrating plate)



- Achieve the consistent horizontal height of the guide rail by adjusting the bolt



\* Please refer to the product page for details.

### Product Features

Voice of customer	MISUMI Economy series
The thread accuracy is not good, sometimes not smooth enough in the adjustment and sometimes too loose.	Full inspection before shipment
Fine thread is often damaged, making assembly and adjustment very difficult	Special packaging to prevent bumps

### 24h Salt Spray Test Results

Most surface treatment of outgoing processed products is blackened with poor rust prevention performance.



Trivalent chromate treatment  
Excellent anti-rust performance



Representative model: C-LVBA12-25

Save Up to **61%**  
vs Standard Type

Shipping  
from  
**1 day**



**60**

**THB**

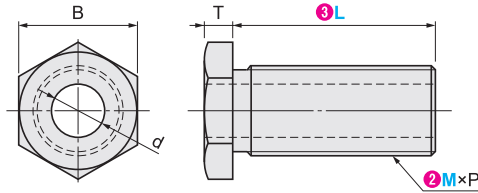
Volume Discount

Quantity	1~29	30~49	50~
Discount	Unit Price	15%	30%



Shipping days may differ by Quantity.  
Quantity of volume discount above is for representative Part No. It may differ by the Part.

Material	Surface Treatment
S45C	Trivalent Chromate Treatment



Part Number		③ Thread Length L	d	Thread Dia. × Pitch (Fine Thread)	T	B	Applicable Bolt
① Type	② Thread Dia. M (Fine Thread)						
C-LVBA	10	15 20 25 30	5.5	10×1.0	4	17	M4 · 5
	12	15 20 25 30 40	7	12×1.0			5
	16	20 25 30 40 50	9	16×1.5	22	M8	
	20	25 30 40 50	13	20×1.5	27	M10 · 12	

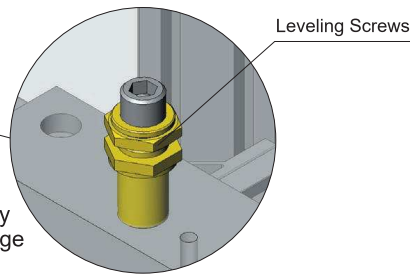
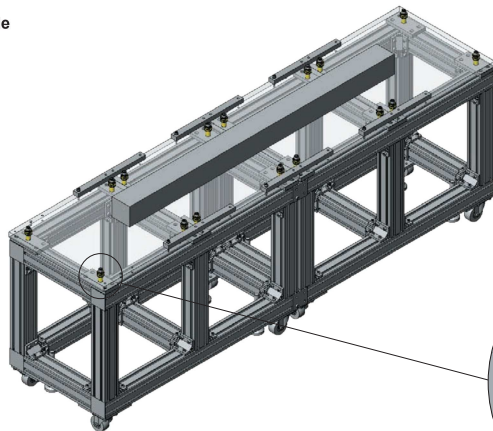
Ordering Example

Please order after selecting part number and parameters according to the selection steps ① to ③.

Part Number (①Type · ②Thread Dia. M) - ③Thread Length L  
C-LVBA12 - 25



Example



Ensure the consistent horizontal height by adjusting the height of the positioning stage with the leveling screw.

How to search on website



By Type Search on MISUMI official website  
C-LVBA

By Keyword Step 1 Search on MISUMI official website  
leveling screw

Step 2 Select MISUMI economy series brand

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9

Locating Pins / Bushings / Clamping Screws / Positioning Stages

Locating Pins

P.745

Bushings for Locating Pins

P.749

Adjusting Bolts

P.753

Clamp Screws

P.760

Urethane Pushers

P.763

Micrometer Heads

P.767

Motorized Positioning Stages

P.769



Representative model: C-LVNA12

Save Up to **56%**  
vs Standard Type

Shipping  
from  
**1 day**



**32**

**THB**

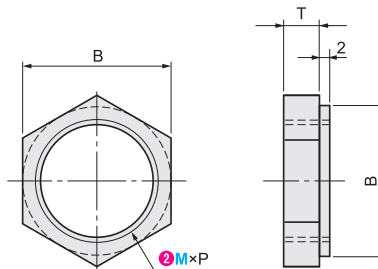
Volume Discount

Quantity	1~29	30~49	50~
Discount	Unit Price	15%	30%



Shipping days may differ by Quantity.  
Quantity of volume discount above is for representative Part No. It may differ by the Part.

Material	Surface Treatment
S45C	Trivalent Chromate Treatment



Part Number		Thread Dia. M × Pitch P (Fine Thread)	T	Width B
1 Type	2 Thread Dia. M (Fine Thread)			
C-LVNA	10	10×1.0	4	17
	12	12×1.0		19
	16	16×1.5	5	22
	20	20×1.5		27

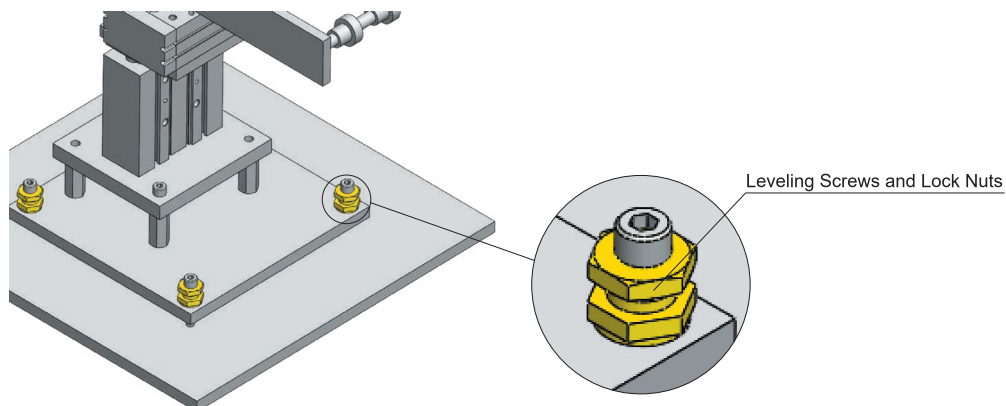
Ordering Example

Please order after selecting part number and parameters according to the selection steps 1 to 2.

Part Number (1 Type · 2 Thread Dia. M)  
**C-LVNA12**



Example



Ensure the consistent horizontal height by adjusting the height of the abutment with the leveling screw and lock nut.

How to search on website



By Type Search on MISUMI official website  
**C-LVNA**

By Keyword Step 1 Search on MISUMI official website Step 2 Select MISUMI economy series brand  
**leveling screw**

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Locating Pins / Bushings / Clamping Screws / Positioning Stages

Locating Pins

P.745

Bushings for Locating Pins

P.749

Adjusting Bolts

P.753

Clamp Screws

P.760

Urethane Pushers

P.763

Micrometer Heads

P.767

Motorized Positioning Stages

P.769

## Economy Series Adjusting Stopper Screws

**Arc-shaped front end**

**New Products**

vs Standard Type  
**Saving up to 81%**

### Overview of Adjusting Screws

The front end is arc-shaped, making it easy to adjust the position of the workpiece.

**Pitch**

Coarse or fine thread  
Choose the fine thread type when slight adjustment is required.

**With nut**

A nut for fixing the screw is included. Therefore, it can be fixed after purchase.

**Hardness of front end HRC35-40**

Wear caused by contact with workpieces is reduced.

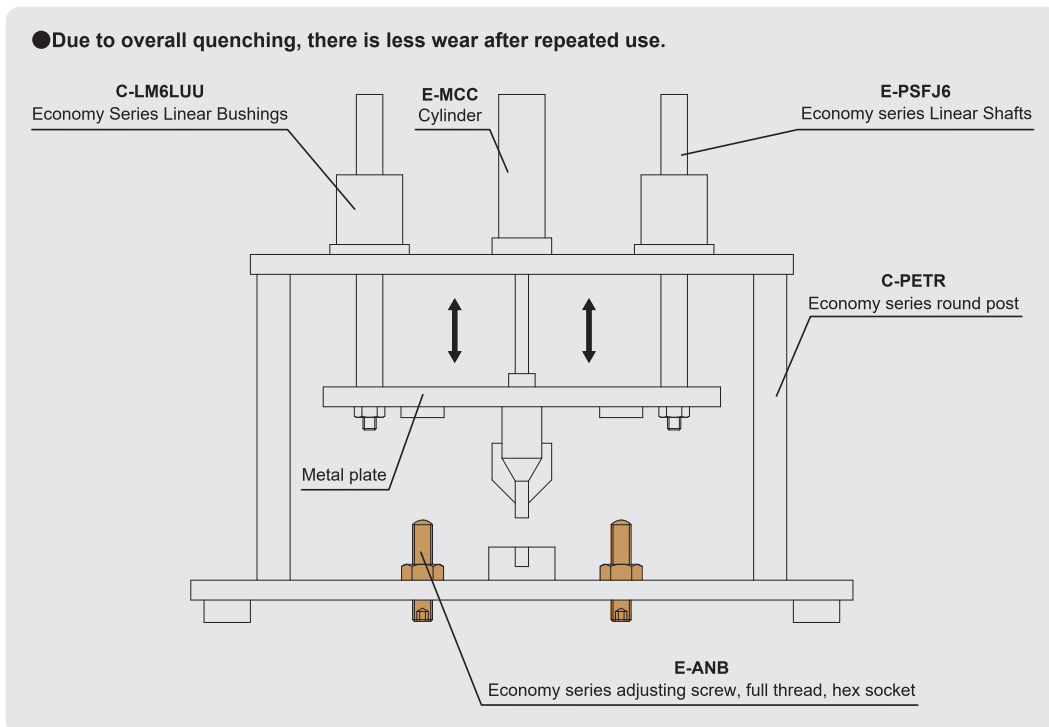
**Shape of front end**

Unlike a flat end bolt, it makes point contact with the workpiece, thus absorbing the inclination of the tapped hole.

**Flat end**

**Arc-shaped front end**

### Example of Use



⚠ The economy series products are of high hardness due to overall quenching. Do not use them in applications involving frequent collisions.

9 Locking Pins/ Bushings/ Clamping Screws/ Positioning Stages

Locating Pins P.745

Bushings for Locating Pins P.749

Adjusting Bolts P.753

Clamp Screws P.760

Urethane Pushers P.763

Micrometer Heads P.767

Motorized Positioning Stages P.769

New Products

Representative model: E-ANBN5-30

Save Up to **81%** vs Standard Type

**37**

THB

Shipping from **1 day**



Volume Discount

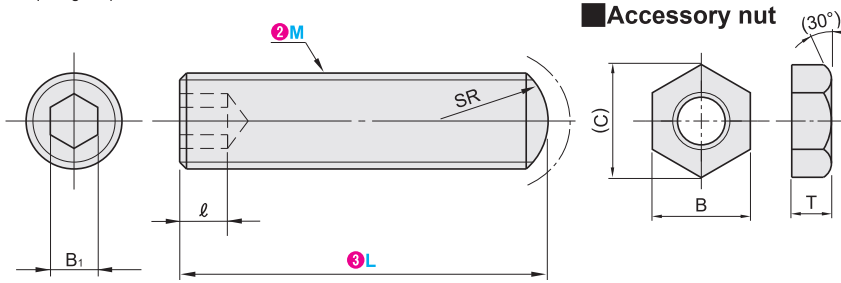
Quantity	10~29	30~49	50~
Discount	Unit Price	15%	30%



Shipping days may differ by Quantity.  
Quantity of volume discount above is for representative Part No. It may differ by the Part.

Adjusting Screw	Type	Material	Surface Treatment	Hardness
Fine Thread	E-ANB	S45C	Chromate Treatment	35~42HRC
	E-ANBS	SUS304	-	-
Coarse Thread	E-ANBN	S45C	Chromate Treatment	35~42HRC
	E-ANBNS	SUS304	-	-

\* The hardness is high due to overall quenching. Do not use them in special applications requiring frequent collisions.



Accessory nut (30°)

M	M × Pitch		B <sub>1</sub>	ℓ	B	C	T	
	Fine Thread	Coarse Thread					Fine	Coarse
3	3×0.35	3×0.5	1.5	1.5	5.5	6.4	2.4	2.4
4	4×0.5	4×0.7	2	2.2	7	8.1	4	3.2
5	5×0.5	5×0.8	2.5	2.8	8	9.2	4	4
6	6×0.75	6×1.0	3	3	10	11.5	5	5
8	8×0.75	8×1.25	4	4	13	15	5	6.5
10	10×1.0	10×1.5	5	5	17	19.6	6	8
12	12×1.0	12×1.75	6	6	19	21.9	8	10
16	16×1.5	16×2.0	8	7	24	27.7	8	13
20	20×1.5	20×2.5	10	8	30	34.6	10	16

Dimension Specification Table \* Customization is available for dimensions not listed in the Specification Table. Only S45C is available for dimension L with \*.

Part Number		L																			
Type	M	L																			
(Coarse Thread) <b>E-ANBN</b> <b>E-ANBNS</b>	3	10	15	20	25	30	35	40													
	4	10	15	20	25	30	35	40	45	50	60										
	5	10	15	20	25	30	35	40	45	50	60										
	6		15	20	25	30	35	40	45	50	60										
	8			20	25	30	35	40	45	50	60										
	10				25	30	35	40	45	50	60	70	80	90	100						
	12					30	35	40	45	50	60	70	80	90	100						
(Fine Thread) <b>E-ANB</b> <b>E-ANBS</b>	16						40	45	50	60	70	80	90	100	120*						
	20									60	70	80	90	100	120*						

Ordering Example

Please order after selecting part number and parameters according to the selection steps 1 to 3.

Part Number (1Type · 2M) - 3L  
**E-ANBN5** - **30**

How to search on website

By Type: Search on MISUMI official website **E-ANBN**

By Keyword: Step 1 Search on MISUMI official website Step 2 Select MISUMI economy series brand **stopper screw**

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 Locating Pins  
 P.745 Bushings for Locating Pins  
 P.749 Adjusting Bolts  
 P.753 Clamp Screws  
 P.760 Urethane Pushers  
 P.763 Micrometer Heads  
 P.767 Motorized Positioning Stages  
 P.769

## Economy series Clamping Screws

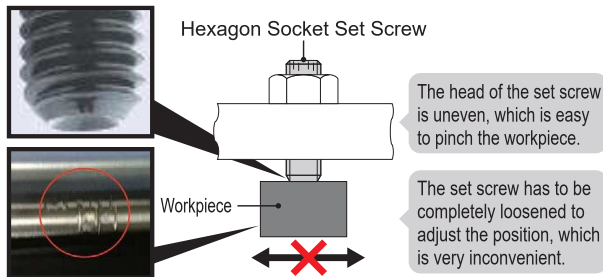
**Thread Strength 12.9**

**Free Rotation of Ball**

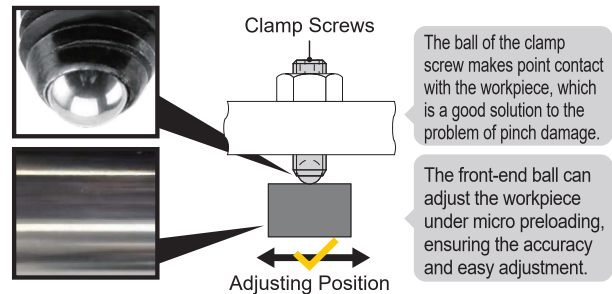
vs Standard Type  
**Saving up to 72%**

### Advantages of Clamp Screw

- Problems with using conventional set screws

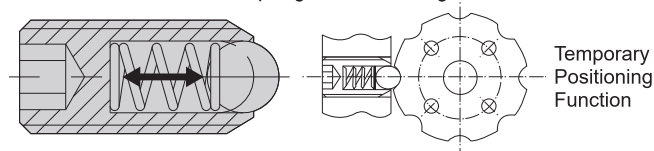


- Ease of using clamp screws

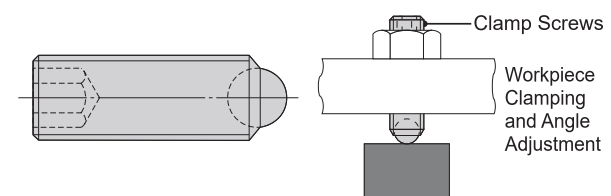


### Difference Between Clamp Screws and Plungers

- Plunger principle: with a built-in spring, the front end ball will sink into the main body after bearing the load, and recover under the action of the spring after releasing the load.

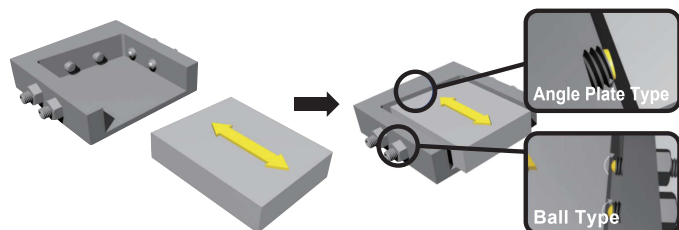
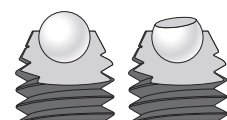


- Clamp screw principle: the workpiece is fixed by the screw thrust and the point contact of the ball.

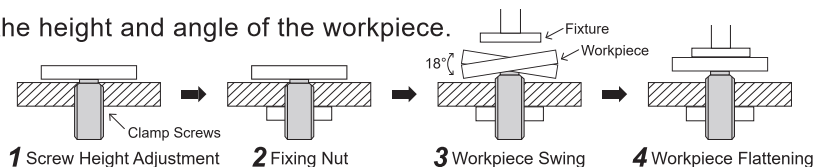


### Example of Using Clamp Screw

- Ball type and angle plate combination: the ball can be rolled for easy adjustment.



- Angle plate type (flat head) adjusts the height and angle of the workpiece.



9 Locking Pins / Bushings / Clamping Screws / Positioning Stages

Locating Pins

P.745

Bushings for Locating Pins P.749

Adjusting Bolts

P.753

Clamp Screws

P.760

Urethane Pushers

P.763

Micrometer Heads

P.767

Motorized Positioning Stages

P.769

Representative model: C-RSM6-16.8



Save Up to **72%** vs Standard Type

**21**

THB



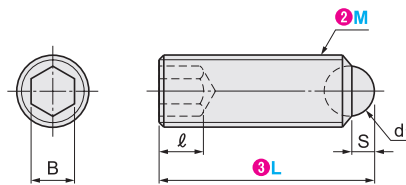
Volume Discount

Quantity	1~69	70~119	120~
Discount	Unit Price	15%	30%



Shipping days may differ by Quantity.  
Quantity of volume discount above is for representative Part No. It may differ by the Part.

Material		Hardness		Surface Treatment
Body	Ball	Body	Ball	
Equivalent to 40Cr	Equivalent to SUS440C	48HRC~	50~55HRC	Ferrosferic oxide protective film



The thread precision of this product has been judged qualified through commercially available nuts equivalent to GB 6G.  
The front end ball head of the Economy series clamping screw can be rotated.

Part Number	Part Number		Total Length L	d1	B	ℓ	S	
	Type	Nominal Thread M (Coarse Thread)						
C-RSM	3	5.2	10.2	1.5	1.5	2	0.5	
	4	6.5	10.5	16.5	2.38	2	2.5	0.7
	5	8.6	12.6	20.6	3	2.5	3	0.9
	6	10.8	16.8	20.8	25.8	3.5	3.5	1.2
	8	11.2	21.2		5	4	5	1.7

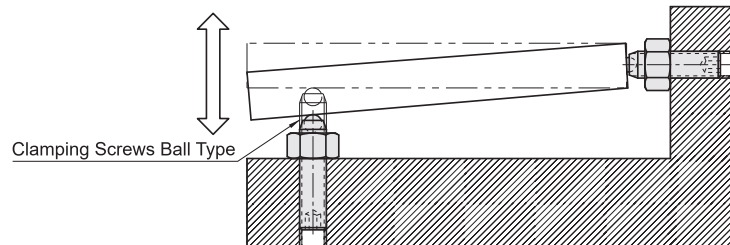


Please order after selecting part number and parameters according to the selection steps 1 to 3.

Part Number (1 Type · 2 Thread Diameter M) - (3 Total Length L)  
C-RSM6 - 16.8



Example



Adjust the angle of the workpiece by adjusting the lock screw up and down.

How to search on website



By Type Search on MISUMI official website  
C-RSM

By Keyword Step 1 Search on MISUMI official website  
clamping screw

Step 2 Select MISUMI economy series brand



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# Clamping Screws Angle Type

Representative model: C-FSM6-16



Save Up to **64%**  
vs Standard Type

**29**

**THB**



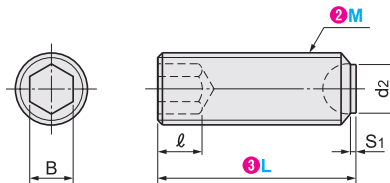
Volume Discount

Quantity	1~29	30~49	50~
Discount	Unit Price	15%	30%



Shipping days may differ by Quantity.  
Quantity of volume discount above is for representative Part No. It may differ by the Part.

Material		Hardness		Surface Treatment
Body	Ball	Body	Ball	
Equivalent to 40Cr	Equivalent to SUS440C	48HRC~	50~55HRC	Ferrosoferric oxide protective film



The thread precision of this product has been judged qualified through commercially available nuts equivalent to GB 6G.  
The front end ball head of the Economy series clamping screw can be rotated.

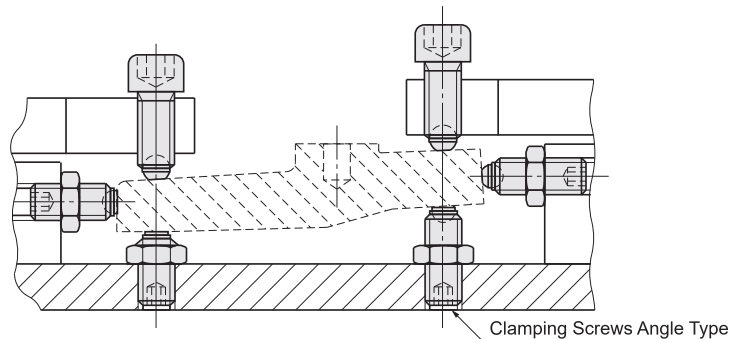
Part Number		③ Total Length L	d2	B	ℓ	S1
① Type	② Nominal Thread M (Coarse Thread)					
C-FSM	4	6 10	2	2	2.5	0.3
	5	8 20	2.5	2.5	3	0.4
	6	16 25	3.2	3	3.5	0.6
	8	12 20	4.5	4	5	0.8
	10	25	6	5	6	0.8

Ordering Example

Please order after selecting part number and parameters according to the selection steps ① to ③.  
Part Number (① Type · ② Thread Diameter M) - ③ Total Length L  
C-FSM6 - 16



Example



For clamping of workpiece (for product with slope)

How to search on website



By Type Search on MISUMI official website  
C-FSM

By Keyword Step 1 Search on MISUMI official website  
clamping screw

Step 2 Select MISUMI economy series brand  
 MISUMI  MISUMI economy

MISUMI contact

Tel: 038-959200 or 1382  
Email: cs@misumi.co.th

MISUMI WEB "Chat"



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9

Locking Pins / Bushings / Clamping Screws / Positioning Stages

Locking Pins

P.745

Bushings for Locking Pins P.749

Adjusting Bolts

P.753

Clamp Screws

P.760

Urethane Pushers

P.763

Micrometer Heads

P.767

Motorized Positioning Stages

P.769

## Economy Series Urethane Pushers

vs Standard Type  
**Saving**  
up to  
**76%**

**Firmly urethane molded**

**Not easy to break**

**Stable hardness**



9

Locating Pins / Bushings / Clamping  
Screws / Positioning Stages

Locating  
Pins

P.745

Bushings for  
Locating Pins

P.749

Adjusting  
Bolts

P.753

Clamp  
Screws

P.760

Urethane  
Pushers

P.763






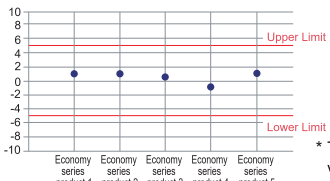
Micrometer  
Heads

P.767



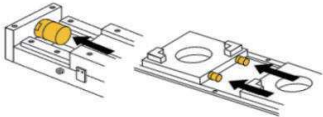
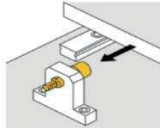
Motorized  
Positioning Stages

P.769

### Customer confusion on usage and MISUMI Economy series improvement plan

Customer confusion on usage	MISUMI Economy series
 <p><b>Easy to fall off for the adhesive layer</b> Easy to fall off for the polyurethane adhesive layer Resulting in failure of functions such as anti-collision and vibration damping</p>	 <p><b>Firmly urethane molded</b> Use high-quality materials and improve the coating process. The polyurethane adhesive layer is not easy to deform and the core material is coated firmly and reliably.</p>
 <p><b>Easy to break with impact</b> The adhesive layer is easy to be deformed and broken Bruise marks occur on the impact surface (after 4800 impacts in 20 minutes)</p>	 <p><b>Not easy to break</b> Reasonable product design and high-quality polyurethane raw materials Ensure product durability (No damage to the impact surface after 4800 impacts in 20 minutes)</p>
 <p><b>Unstable hardness</b> Uneven hardness distribution of products in the same batch (standard A90 as an example)</p>	<p>Measured deviation within <math>\pm 5</math></p>  <p><b>Stable hardness</b> Ensure the hardness stability through strict process management</p> <p>* The above values are reference values and are not guaranteed values.</p>

### Example of Use

Threaded Stud / Tapped Type	Threaded Stud Type With Hex Nut
	
<p><b>Anti-collision, impact resistant</b> Suitable for <b>large</b> impact force, <b>high</b> frequency and other occasions with <b>high</b> load requirements</p>	<p><b>Simple buffering, noise reduction and limiting</b> Suitable for <b>small</b> impact force, <b>low</b> frequency and other occasions requiring certain <b>limit</b> action</p>
	

Representative model: C-USLH12

Save Up to **71%**  
vs Standard Type

Shipping  
from  
**1 day**



**82** THB

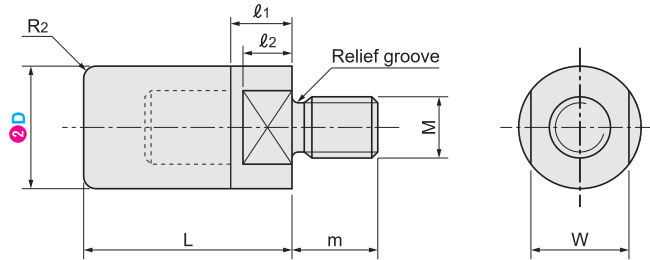
Volume Discount

Quantity	10~29	30~49	50~
Discount	Unit Price	15%	30%



Shipping days may differ by Quantity.  
Quantity of volume discount above is for representative Part No. It may differ by the Part.

Type	Pusher			Metal core
	Urethane Hardness	Color	Material	Material
C-USLH	Shore A90	Green	Urethane	Stainless Steel
C-USLM	Shore A70	Black	Urethane	Stainless Steel



Material color is subject to the actual product.  
Urethane is integrally molded on the metal core head.

Part Number		L	M × Pitch (Coarse Thread)	R2	m	l1	l2	W
Type	O.D. D							
C-USLH C-USLM	6	10	M3×0.5	1	4.5	5	4	5
	8	12.5	M4×0.7		6			7
	10	17	M5×0.8		7			8
	12	18	M6×1.0	2	10	6	5	10
	16	21	M8×1.25		12			14
	20	25	M10×1.5	3	14	8	6	17

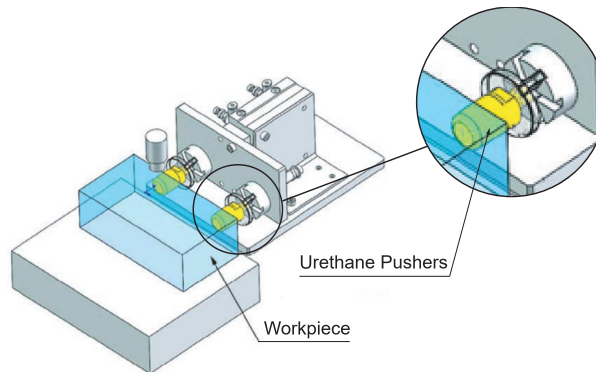
Ordering Example

Please order after selecting part number and parameters according to the selection steps 1 to 2.

Part Number (1 Type · 2 O.D. D)  
C-USLH12



Example



How to search on website



By Type Search on MISUMI official website  
C-USLH

By Keyword Step 1 Search on MISUMI official website  
urethane pusher

Step 2 Select MISUMI economy series brand  
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9  
Locating Pins / Bushings / Clamping Screws / Positioning Stages  
Locating Pins  
P.745  
Bushings for Locating Pins  
P.749  
Adjusting Bolts  
P.753  
Clamp Screws  
P.760  
Urethane Pushers  
P.763  
Micrometer Heads  
P.767  
Motorized Positioning Stages  
P.769



Representative model: C-URLH12

Save Up to **76%** vs Standard Type

Shipping from **1 day**



**69**

**THB**

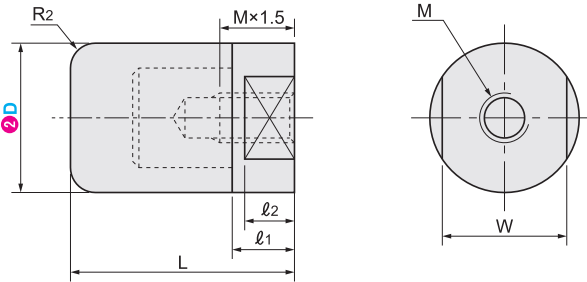
Volume Discount

Quantity	1~29	30~49	50~
Discount	Unit Price	15%	30%



Shipping days may differ by Quantity.  
Quantity of volume discount above is for representative Part No. It may differ by the Part.

Type	Pusher			Metal core
	Urethane Hardness	Color	Material	Material
C-URLH	Shore A90	Green	Urethane	Stainless Steel
C-URLM	Shore A70	Black	Urethane	Stainless Steel



Material color is subject to the actual product.  
Urethane is integrally molded on the metal core head.

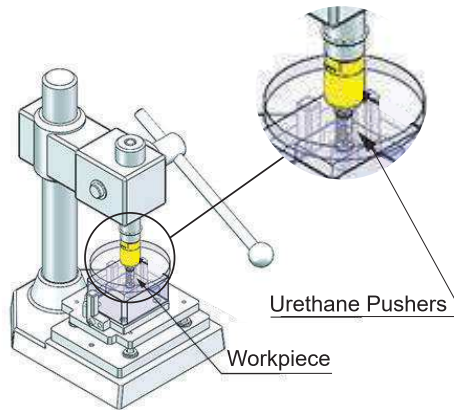
Part Number	L	M × Pitch (Coarse Thread)	R2	l1	l2	W
C-URLH C-URLM	17	M3×0.5	1	5	4	8
	18	M4×0.7	2	6	5	10
	21	M5×0.8				14
	25	M6×1.0	3	8	6	17

Ordering Example

Please order after selecting part number and parameters according to the selection steps ① to ②.

Part Number (①Type · ②O.D. D)  
**C-URLH12**

**ex** Example



9  
Locating Pins / Bushings / Clamping Screws / Positioning Stages  
Locating Pins  
P.745  
Bushings for Locating Pins  
P.749  
Adjusting Bolts  
P.753  
Clamp Screws  
P.760  
Urethane Pushers  
P.763  
Micrometer Heads  
P.767  
Motorized Positioning Stages  
P.769

How to search on website

By Type Search on MISUMI official website  
**C-URLH**

By Keyword Step 1 Search on MISUMI official website  
**urethane pusher**

Step 2 Select MISUMI economy series brand  
 MISUMI  MISUMI economy

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Representative model: C-UNCH6-20

Save Up to **45%** vs Standard Type

**Shipping from 1 day**

**57 THB**

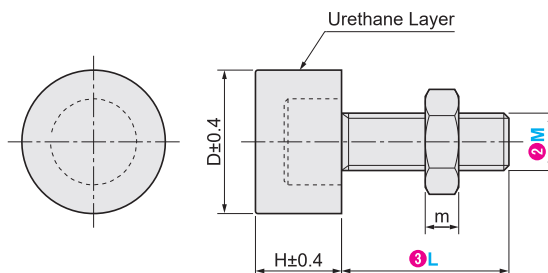
Volume Discount

Quantity	1~29	30~49	50~
Discount	Unit Price	15%	30%



Shipping days may differ by Quantity.  
Quantity of volume discount above is for representative Part No. It may differ by the Part.

Pusher		Bolt	Hexagonal Nut
Urethane Hardness	Color	Material	Material
Shore A90	Green	Urethane	Stainless Steel



Material color is subject to the actual product.  
Urethane is integrally molded on the metal core head.

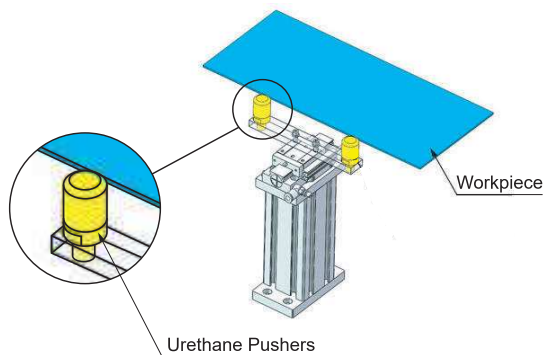
Part Number		Bolt Length L Selection						D	H	m			
1 Type	2 Thread M (Coarse Thread)												
C-UNCH	3	10	16					7.5	6	2.4			
	4	10	15	20	25	30	35	40	10	7	3.2		
	5		15	20	25	30	35	40	50	12.5	9	4	
	6		15	20	25	30	35	40	50	15	10	5	
	8			20	25	30	35	40	50	60	20	13	6.5
	10				30	35	40	50	60	70	25	15	8
	12					30	35	40	50	30	18	10	

Ordering Example

Please order after selecting part number and parameters according to the selection steps 1 to 3.

Part Number (1 Type · 2 Thread M) - 3 Thread Length L

C-UNCH6 - 20



How to search on website



By Type

Search on MISUMI official website

C-UNCH



By Keyword

Step 1 Search on MISUMI official website

urethane pusher



Step 2 Select MISUMI economy series brand

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9 Locking Pins / Bushings / Clamping Screws / Positioning Stages

Locating Pins

P.745

Bushings for Locating Pins P.749

Adjusting Bolts

P.753

Clamp Screws

P.760

Urethane Pushers P.763

Micrometer Heads

P.767

Motorized Positioning Stages

P.769

## Economy series Micrometer Heads

2 shapes, 8 models

Easy to use

Strong locking force

Space saving

vs Standard Type

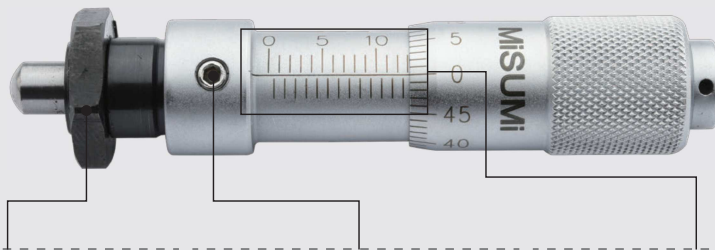
Saving  
up to

**76%**

Without nut type

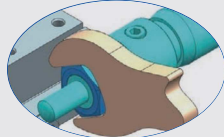
With nut type

### Features of MISUMI Economy Series



#### Hexagon Nut

- Convenient because an ordinary hex wrench can be used and no special tool is required.
- Not easy to interfere in a small space



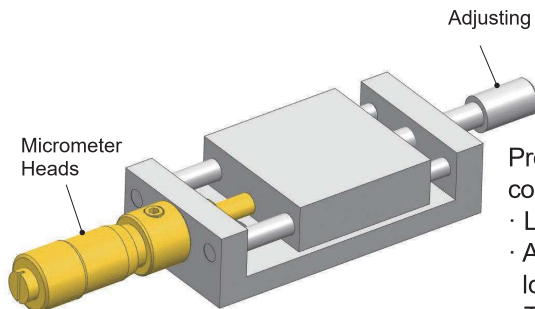
#### Set Screw

- Locking with a hexagonal wrench, large torque, no shift
- Embedding, space saving

#### Scale Line

The position of the main scale line and the locking device are on the same line, which is easy to operate in a small space

### Example of Use



Precise movement of the table position can be achieved by the cooperation of the micrometer head and the adjusting screw.

- Loosen the adjusting screw;
- After rotating the micrometer head to the desired position, lock the set screw with a hexagonal wrench;
- Tighten the adjusting screw until the table is completely locked.

9

Locating Pins / Bushings / Clamping  
Screws / Positioning Stages

Locating  
Pins

P.745

Bushings for  
Locating Pins

P.749

Adjusting  
Bolts

P.753

Clamp  
Screws

P.760

Urethane  
Pushers

P.763

Micrometer  
Heads

P.767

Motorized  
Positioning Stages

P.769

Representative model: CMHN13

Save Up to **76%**  
vs Standard Type

Shipping  
from  
**1 day**



**534 THB**

Volume Discount

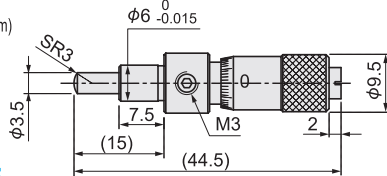
Quantity	1~3	4~5	6~
Discount	Unit Price	15%	30%



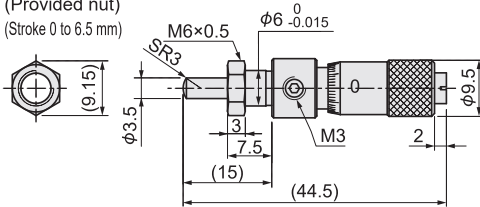
Shipping days may differ by Quantity.  
Quantity of volume discount above is for representative Part No. It may differ by the Part.

Material			Surface Treatment	
Spindle	Nut / Main Body / Micro drum	Set Screw	Body / Micro drum	Nut
Stainless Steel	Free Cutting Steel	Stainless Steel	Chromate Plating	Blackened

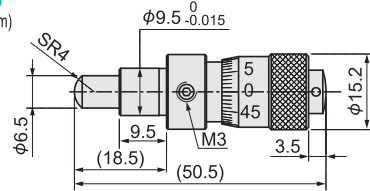
**CMH6.5**  
(Stroke 0 to 6.5 mm)



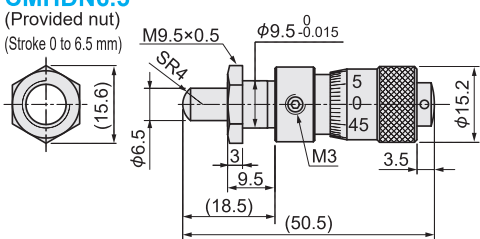
**CMHN6.5**  
(Provided nut)  
(Stroke 0 to 6.5 mm)



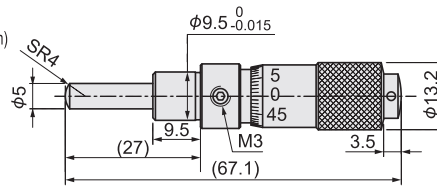
**CMHD6.5**  
(Stroke 0 to 6.5 mm)



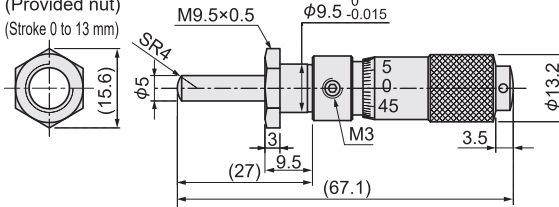
**CMHDN6.5**  
(Provided nut)  
(Stroke 0 to 6.5 mm)



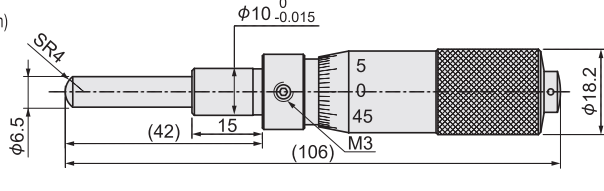
**CMH13**  
(Stroke 0 to 13 mm)



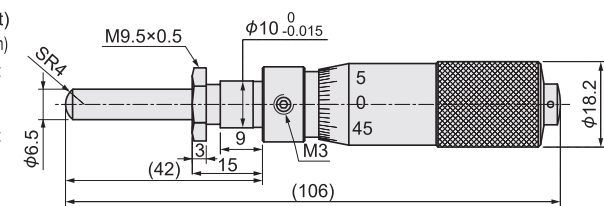
**CMHN13**  
(Provided nut)  
(Stroke 0 to 13 mm)



**CMH25**  
(Stroke 0 to 25 mm)



**CMHN25**  
(Provided nut)  
(Stroke 0 to 25 mm)



Type	Stroke (mm)	Spindle O.D. (mm)	Provided / Not Provided Nut	Minimum Reading (mm)	Travel Distance Per Rotation (mm)	Mass (kg)
CMH6.5	0~6.5	3.5	None	0.01	0.5	0.01
CMHN6.5			Provided			
CMHD6.5		6.5	None			
CMHDN6.5			Provided			
CMH13	0~13	5	None			
CMHN13			Provided			
CMH25	0~25	6.5	None			0.09
CMHN25			Provided			

This product is only used as a position adjustment part, not a measuring tool.

Ordering Example

Type  
**CMH6.5**

How to search on website



By Type Search on MISUMI official website  
**CMHN13**

By Keyword Step 1 Search on MISUMI official website  
**micrometer head**

Step 2 Select MISUMI economy series brand



9  
Locating Pins / Bushings / Clamping Screws / Positioning Stages

Locating Pins

P.745

Bushings for Locating Pins

P.749

Adjusting Bolts

P.753

Clamp Screws

P.760

Urethane Pushers

P.763

Micrometer Heads

P.767

Motorized Positioning Stages

P.769

## Economy Series Manual Positioning Stages

New  
Products

vs Standard Type  
Saving  
up to  
**80%**

Cross Roller Guide Type (Aluminum Alloy)  
Linear Ball Guide Type (Tool Steel)

**Strong holding force**

**Low price**

**Various alterations, up to 10 micrometer knob positions**



9

Locating Pins / Bushings / Clamping  
Screws / Positioning Stages

Locating  
Pins

P.745

Bushings for  
Locating Pins

P.749

Adjusting  
Bolts

P.753

Clamp  
Screws

P.760

Urethane  
Pushers

P.763

Micrometer  
Heads

P.767

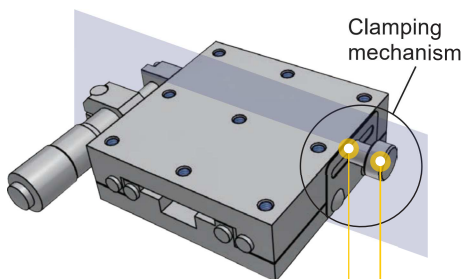
Motorized  
Positioning Stages

P.769

## Product Features

### 2.5 times higher holding force due to improvement of clamp mechanism

3D figure of manual positioning stage

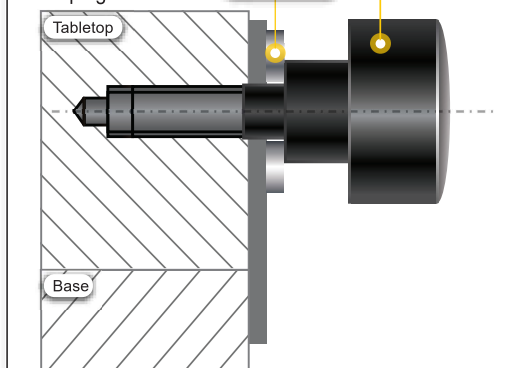


Clamping  
mechanism

1 Lock screw

Section view of  
clamping mechanism

2 Washer



Tabletop

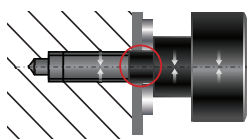
Base

### ⊗ Problems with generic products in the market

The lock screw has a relatively low holding force (typically 40N) after it is locked in place, which easily causes loosening.

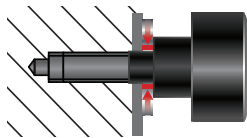
### ✓ Improvements to Economy Series Manual Positioning Stages

#### Improvement 1



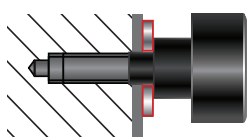
Partial Section View 1 The relief groove at the root of the lock screw is removed so that the 2 washer is centered, achieving a uniform stress.

#### Improvement 2



Partial Section View 2 The inner diameter of the washer is decreased to reduce the fit clearance between the washer and 1 the lock screw so that a uniform stress is achieved.

#### Improvement 3



Partial Section View 3 The material of the washer is changed from nylon to stainless steel to increase the frictional resistance.

The test shows the improved holding force has reached

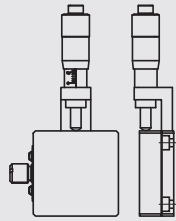
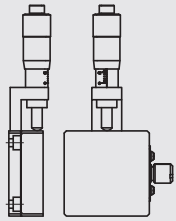
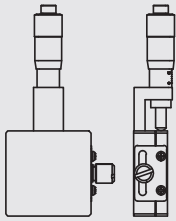
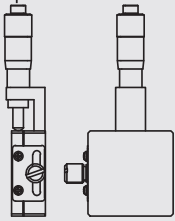
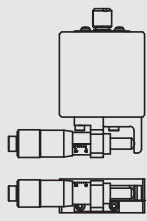
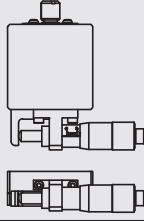
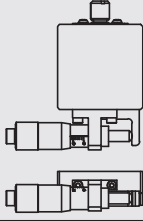
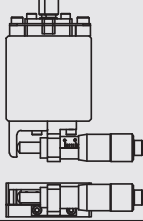
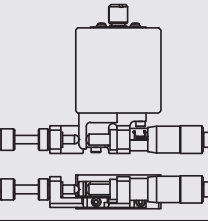

**100N**

Compared to generic products on the market, it has increased by

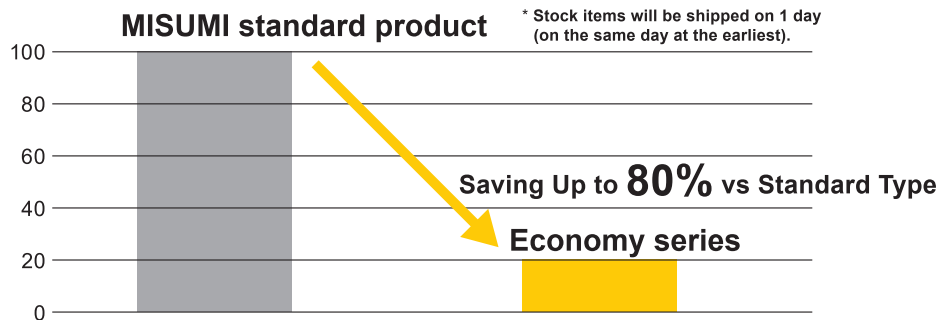
**2.5times**

\*Generic products on the market are similar products randomly purchased by our company from online or offline markets. The above data is limited to sample test results, which is for reference only.  
\*The amount of holding force varies with the tightening torque. For complete locking, please select the opposed clamp mechanism.

There are 10 types of alterations are available to suit multiple applications

Alterations	Alterations to Micrometer Knob Position				
Spec.	Center 	Center Left-Right Reversed 	Center Top-Bottom Reversed 	Center Left-Right / Top-Bottom Reversed 	Side Left-Right Reversed 
Code	<b>A</b>	<b>AR</b>	<b>AZ</b>	<b>AZR</b>	<b>CR</b>
Alterations	Alterations to Micrometer Knob Position				
Spec.	Side Top-Bottom Reversed 	Left-Right / Top-Bottom Reversed 	Disc Clamp 	Opposed Clamp 	No Micrometer Head 
Code	<b>CZ</b>	<b>CZR</b>	<b>H</b>	<b>P</b>	<b>MN</b>

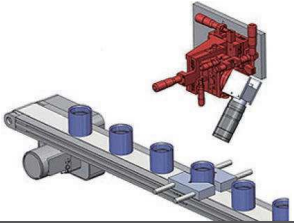
## Price Comparison with MISUMI Standard Product



## Usage difference between economy series and standard product

**MISUMI standard product**

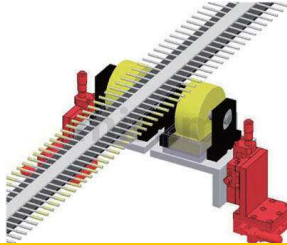
Suitable for applications requiring high precision such as precise adjustment



Equipment name: Image detection equipment with lens device

**MISUMI Economy series**

Suitable for applications not requiring high precision such as simple adjustment



Equipment name: Adjustment of position for glue application with cotton swab

**9** Locating Pins / Bushings / Clamping Screws / Positioning Stages

Locating Pins

P.745

Bushings for Locating Pins

P.749

Adjusting Bolts

P.753

Clamp Screws

P.760

Urethane Pushers

P.763

Micrometer Heads

P.767

**Motorized Positioning Stages**

**P.769**

New Products



Representative model: E-XPG40

Save Up to **77%** vs Standard Type

**2,290 THB**

Shipping from **1 day**

Volume Discount

Quantity	1~3	4~5	6~
Discount	Unit Price	15%	30%



Shipping days may differ by Quantity.  
Quantity of volume discount above is for representative Part No. It may differ by the Part.

Material	Surface Treatment
Aluminum alloy	Black Anodized

9  
Locating Pins / Bushings / Clamping Screws / Positioning Stages

Locating Pins

P.745

Bushings for Locating Pins

P.749

Adjusting Bolts

P.753

Clamp Screws

P.760

Urethane Pushers

P.763

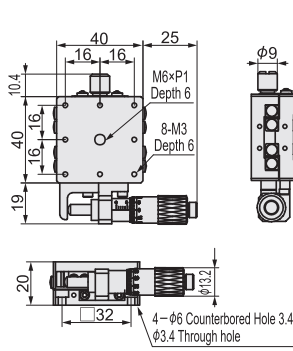
Micrometer Heads

P.767

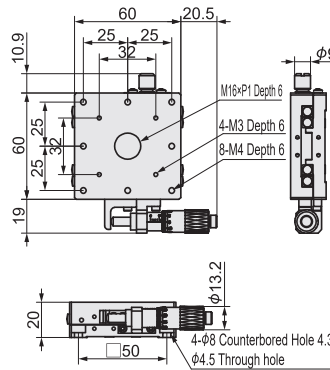
Motorized Positioning Stages

P.769

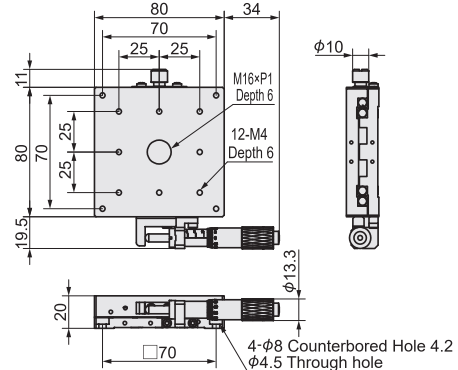
E-XPG40



E-XPG60

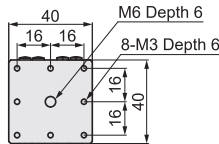


E-XPG80

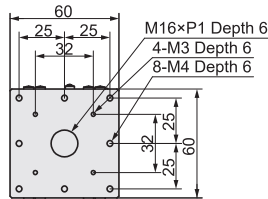


●Dimensions of stage surface mounting hole

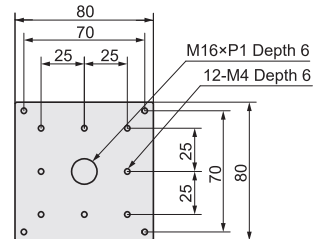
No.40



No.60



No.80



How to search on website



By Type Search on MISUMI official website  
**E-XPG**

By Keyword Step 1 Search on MISUMI official website  
**x stage**

Step 2 Select MISUMI economy series brand

MiSUMI  **MISUMI economy**

MISUMI contact

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MISUMI WEB "Chat"



Install MISUMI APP



Part Number		Stage Surface (mm)	Travel Distance (mm)	Load Capacity (N)		Straightness (μm)	Minimum Reading (μm)	Mass (kg)
①Type	②No.			Horizontal	Vertical			
E-XPG	40	40×40	±6.5	19.6	9.8	Within 20	10	0.14
	60	60×60		49	19.6			0.25
	80	80×80	±12.5	98	49			0.5

**Ordering Example**

Please order after selecting part number and parameters according to the selection steps ① to ③.

Part Number (①Type · ②No.) - ③Alterations

E-XPG40  
E-XPG40 - A



Alteration

Alterations	③ Alterations to Micrometer Knob Position				
Spec.	Center 	Center Left-Right Reversed 	Center Top-Bottom Reversed 	Center Left-Right / Top-Bottom Reversed 	Side Left-Right Reversed 
Code	A	AR	AZ	AZR	CR

Alterations	③ Alterations to Micrometer Knob Position				
Spec.	Side Top-Bottom Reversed 	Left-Right / Top-Bottom Reversed 	Disc Clamp 	Opposed Clamp 	No Micrometer Head 
Code	CZ	CZR	H	P	MN

9

Locating Pins / Bushings / Clamping Screws / Positioning Stages

Locating Pins

P.745

Bushings for Locating Pins  
P.749

Adjusting Bolts

P.753

Clamp Screws

P.760

Urethane Pushers

P.763

Micrometer Heads

P.767

Motorized Positioning Stages  
P.769

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New Products

Representative model: E-XSG100

Save Up to **34%** vs Standard Type

**7,305 THB**

Shipping from **1 day**

Volume Discount

Quantity	1~3	4~5	6~
Discount	Unit Price	15%	30%

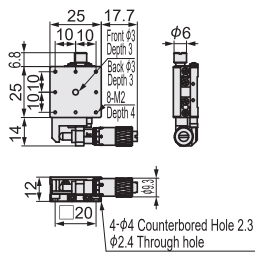


Shipping days may differ by Quantity.

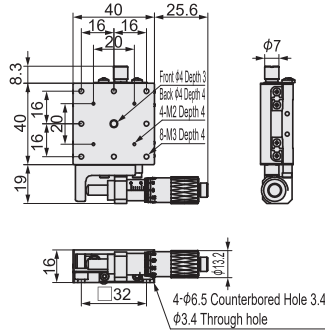
Quantity of volume discount above is for representative Part No. It may differ by the Part.

Material	Surface Treatment
Tool Steel	Electroless Nickel Plating

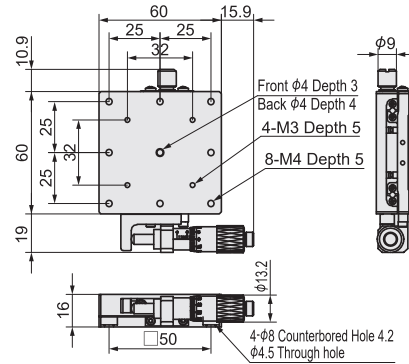
E-XSG25



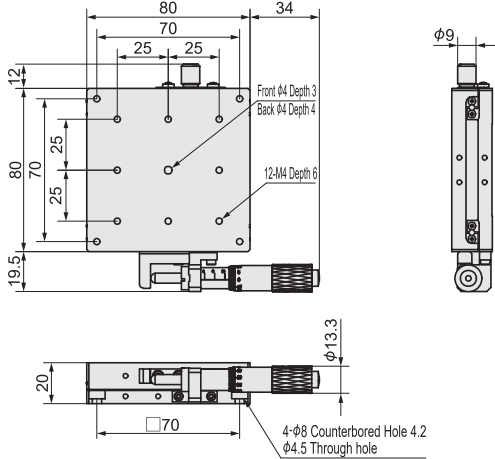
E-XSG40



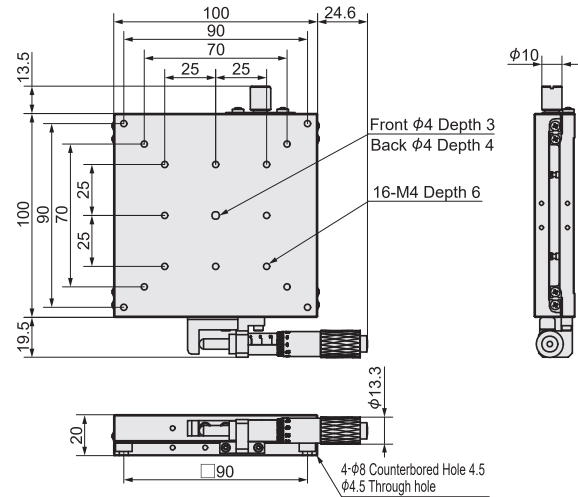
E-XSG60



E-XSG80



E-XSG100



● Dimensions of stage surface mounting hole

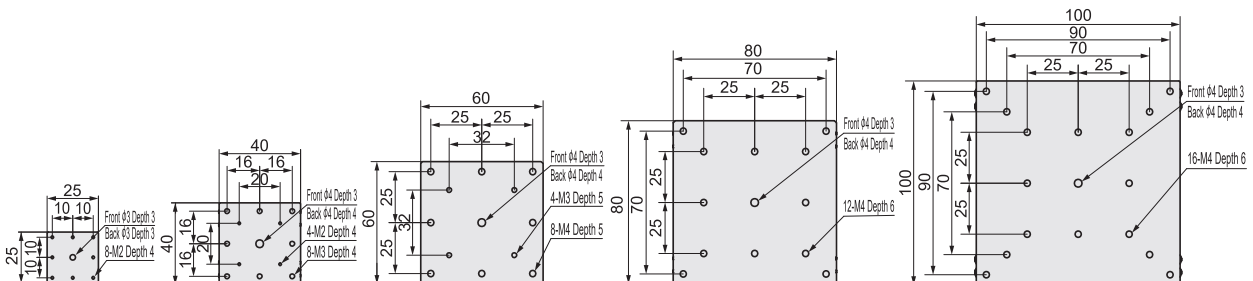
No.25

No.40

No.60

No.80

No.100



9 Locating Pins / Bushings / Clamping Screws / Positioning Stages

Locating Pins

P.745

Bushings for Locating Pins

P.749

Adjusting Bolts

P.753

Clamp Screws

P.760

Urethane Pushers

P.763

Micrometer Heads

P.767

Motorized Positioning Stages

P.769

How to search on website



By Type  Search on MISUMI official website

By Keyword  Step 1 Search on MISUMI official website

Step 2 Select MISUMI economy series brand



Part Number		Stage Surface (mm)	Travel Distance (mm)	Load Capacity (N)	Straightness (μm)	Minimum Reading (μm)	Mass (kg)
①Type	②No.			Horizontal			
E-XSG	25	25×25	±3.25	39.2	Within 10	10	0.07
	40	40×40	±6.5	98			0.23
	60	60×60		196			0.4
	80	80×80	±12.5	264.6			0.9
	100	100×100		343			1.33

**Ordering Example**

Please order after selecting part number and parameters according to the selection steps ① to ③.

Part Number (①Type · ②No.) - ③Alterations

E-XSG40  
E-XSG40 - A



Alteration

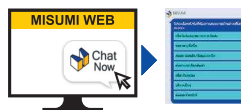
Alterations	③Alterations to Micrometer Knob Position				
Spec.	Center 	Center Left-Right Reversed 	Center Top-Bottom Reversed 	Center Left-Right / Top-Bottom Reversed 	Side Left-Right Reversed 
Code	A	AR	AZ	AZR	CR

Alterations	③Alterations to Micrometer Knob Position				
Spec.	Side Top-Bottom Reversed 	Left-Right / Top-Bottom Reversed 	Disc Clamp 	Opposed Clamp 	No Micrometer Head 
Code	CZ	CZR	H	P	MN

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9  
Locating Pins / Bushings / Clamping Screws / Positioning Stages

Locating Pins

P.745

Bushings for Locating Pins for P.749

Adjusting Bolts

P.753

Clamp Screws

P.760

Urethane Pushers

P.763

Micrometer Heads

P.767

Motorized Positioning Stages  
P.769

New Products



Representative model: E-XYPG40

Save Up to **78%** vs Standard Type

**4,478 THB**

Shipping from **1 day**

Volume Discount

Quantity	1~3	4~5	6~
Discount	Unit Price	15%	30%



Shipping days may differ by Quantity.  
Quantity of volume discount above is for representative Part No. It may differ by the Part.

Material	Surface Treatment
Aluminum alloy	Black Anodized

9  
Locating Pins / Bushings / Clamping Screws / Positioning Stages

Locating Pins

P.745

Bushings for Locating Pins

P.749

Adjusting Bolts

P.753

Clamp Screws

P.760

Urethane Pushers

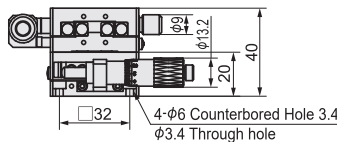
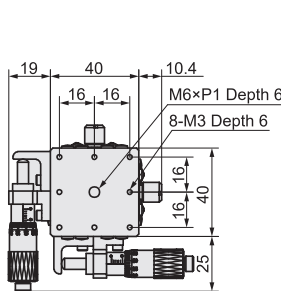
P.763

Micrometer Heads

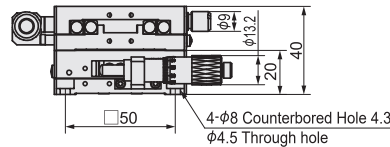
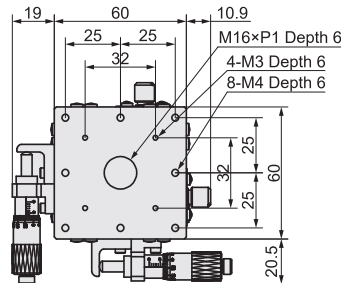
P.767

Motorized Positioning Stages  
P.769

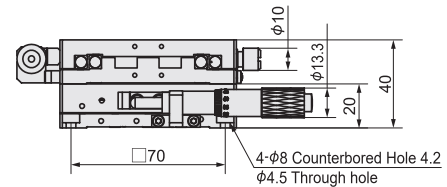
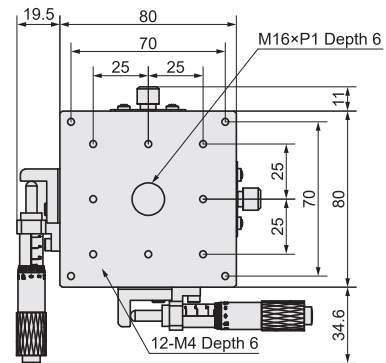
E-XYPG40



E-XYPG60

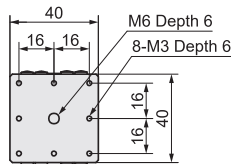


E-XYPG80

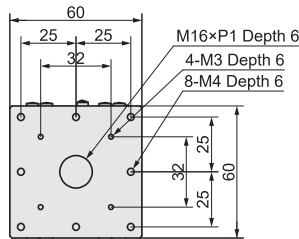


●Dimensions of stage surface mounting hole

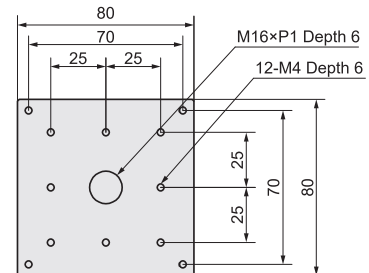
No.40



No.60



No.80



How to search on website



By Type: Search on MISUMI official website  
**E-XYPG**

By Keyword: Step 1 Search on MISUMI official website  
**xy stage**

Step 2 Select MISUMI economy series brand

MiSUMI  MISUMI economy

Part Number		Stage Surface (mm)	Travel Distance (mm)	Load Capacity (N)	Straightness (μm)	Minimum Reading (μm)	Mass (kg)
①Type	②No.			Horizontal			
E-XYPG	40	40×40	±6.5	17.6	Within 20	10	0.3
	60	60×60		44.1			0.52
	80	80×80	±12.5	93.1			1



Please order after selecting part number and parameters according to the selection steps ① to ③.

Part Number (①Type · ②No.) - ③Alterations

E-XYPG40  
E-XYPG40

- A



Alteration

Alterations	③Alterations to Micrometer Knob Position				
Spec.	Center	Center Left-Right Reversed	Side Left-Right Reversed	Side Top-Bottom Reversed	Left-Right / Top-Bottom Reversed
Code	A	AR	CR	CZ	CZR

Alterations	③Alterations to Micrometer Knob Position		
Spec.	Disc Clamp	Opposed Clamp	No Micrometer Head
Code	H	P	MN

9

Locking Pins / Bushings / Clamping Screws / Positioning Stages

Locking Pins

P.745

Bushings for Locking Pins

P.749

Adjusting Bolts

P.753

Clamp Screws

P.760

Urethane Pushers

P.763

Micrometer Heads

P.767

Motorized Positioning Stages

P.769

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New Products

Representative model: E-XYSG100

Save Up to **34%** vs Standard Type

**14,605 THB**

Shipping from **10 days**

Volume Discount

Quantity	1~3	4~5	6~
Discount	Unit Price	15%	30%



Shipping days may differ by Quantity.  
Quantity of volume discount above is for representative Part No. It may differ by the Part.

Material	Surface Treatment
Tool Steel	Electroless Nickel Plating

9 Locating Pins / Bushings / Clamping Screws / Positioning Stages

Locating Pins

P.745 Bushings for Locating Pins

P.749 Adjusting Bolts

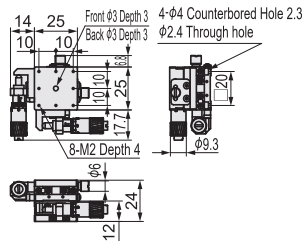
P.753 Clamp Screws

P.760 Urethane Pushers

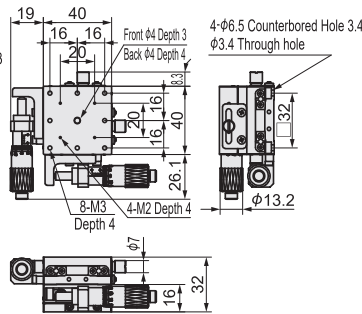
P.763 Micrometer Heads

P.767 Motorized Positioning Stages

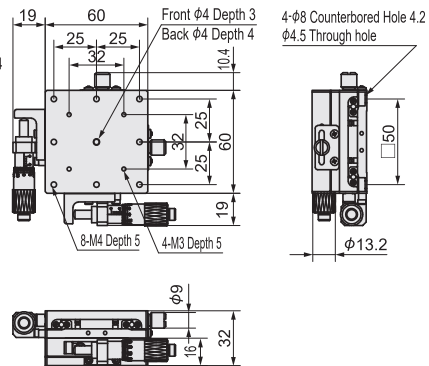
E-XYSG25



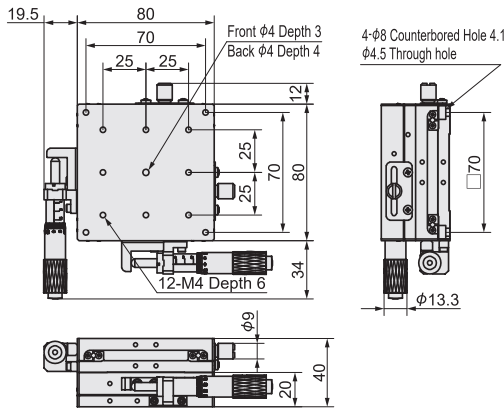
E-XYSG40



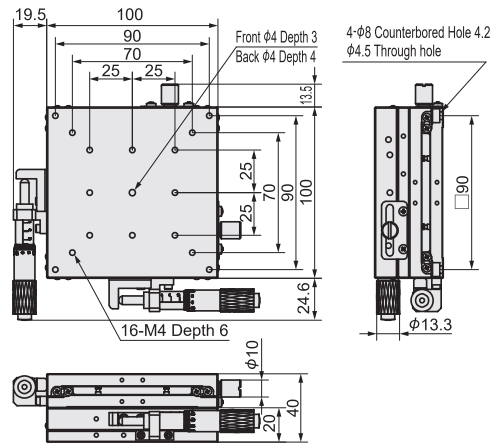
E-XYSG60



E-XYSG80



E-XYSG100



●Dimensions of stage surface mounting hole

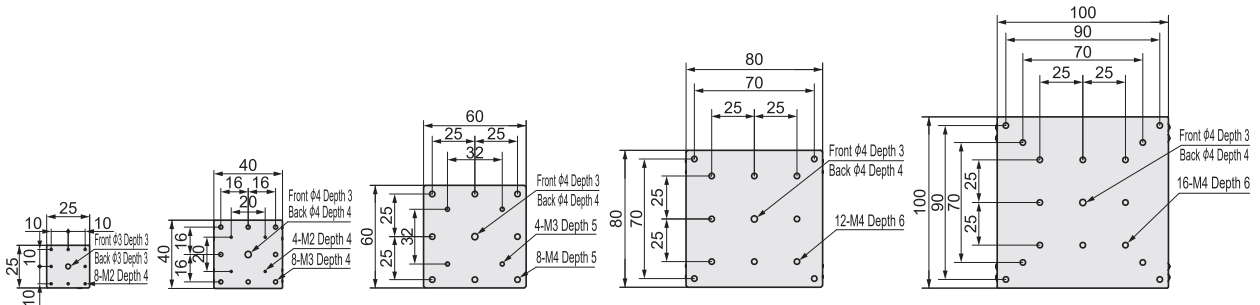
No.25

No.40

No.60

No.80

No.100



How to search on website

By Type:

By Keyword:

Step 1 Search on MISUMI official website Step 2 Select MISUMI economy series brand



Part Number		Stage Surface (mm)	Travel Distance (mm)	Load Capacity (N)	Straightness (μm)	Minimum Reading (μm)	Mass (kg)
①Type	②No.			Horizontal			
E-XYSG	25	25×25	±3.25	38.2	Within 10	10	0.14
	40	40×40		95			0.46
	60	60×60	±6.5	192			0.8
	80	80×80		255			1.8
	100	100×100	±12.5	329			2.66



Please order after selecting part number and parameters according to the selection steps ① to ③.

Part Number (①Type · ②No.) - ③Alterations  
 E-XYSG40  
 E-XYSG40 - A



Alteration

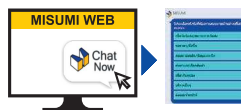
Alterations	③Alterations to Micrometer Knob Position				
Spec.	Center	Center Left-Right Reversed	Side Left-Right Reversed	Side Top-Bottom Reversed	Left-Right / Top-Bottom Reversed
Code	A	AR	CR	CZ	CZR

Alterations	③Alterations to Micrometer Knob Position		
Spec.	Disc Clamp	Opposed Clamp	No Micrometer Head
Code	H	P	MN

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9 Locating Pins / Bushings / Clamping Screws / Positioning Stages  
 Locating Pins P.745  
 Bushings for Locating Pins P.749  
 Adjusting Bolts P.753  
 Clamp Screws P.760  
 Urethane Pushers P.763  
 Micrometer Heads P.767  
 Motorized Positioning Stages P.769

New Products

Representative model: E-XYSSG100

Save Up to **37%** vs Standard Type

**15,204 THB**

Shipping from **10 days**

Volume Discount

Quantity	1~3	4~5	6~
Discount	Unit Price	15%	30%



Shipping days may differ by Quantity.  
Quantity of volume discount above is for representative Part No. It may differ by the Part.

Material	Surface Treatment
Tool Steel	Electroless Nickel Plating

9 Locating Pins / Bushings / Clamping Screws / Positioning Stages

Locating Pins

P.745

Bushings for Locating Pins

P.749

Adjusting Bolts

P.753

Clamp Screws

P.760

Urethane Pushers

P.763

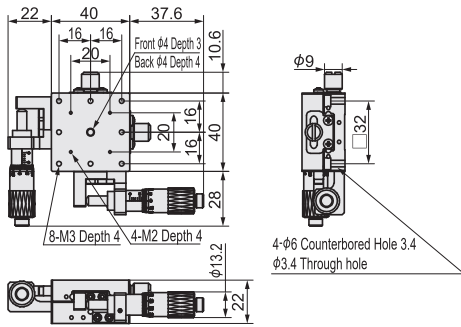
Micrometer Heads

P.767

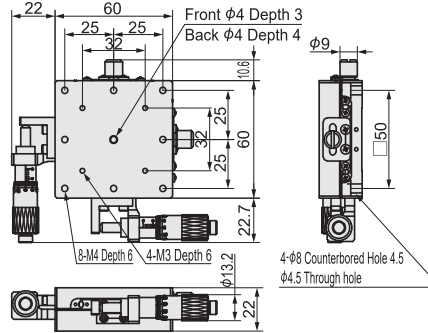
Motorized Positioning Stages

P.769

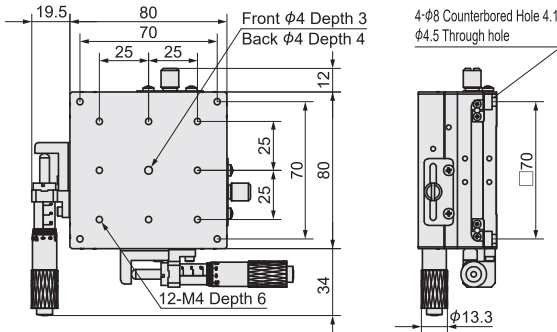
E-XYSSG40



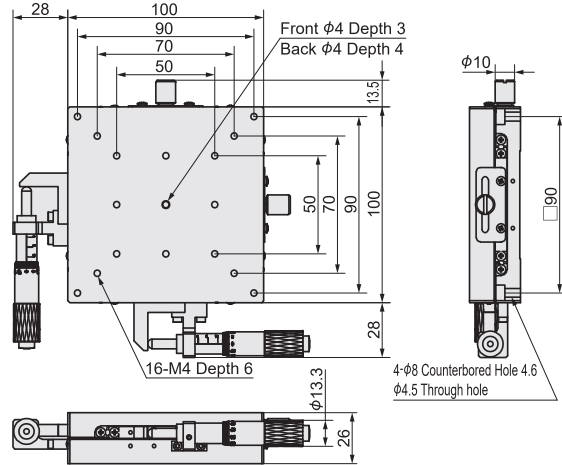
E-XYSSG60



E-XYSSG80



E-XYSSG100



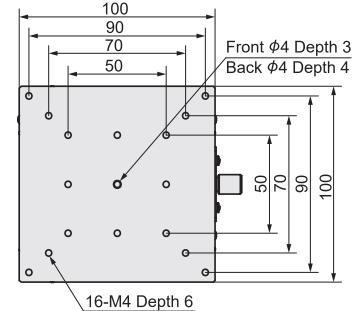
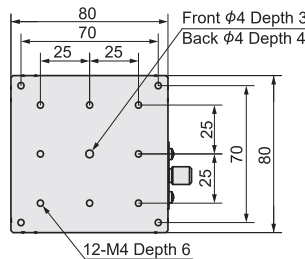
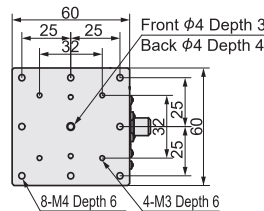
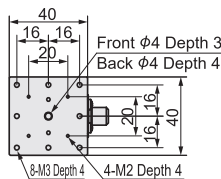
●Dimensions of stage surface mounting hole

No.40

No.60

No.80

No.100



How to search on website



By Type

Search on MISUMI official website

E-XYSSG



By Keyword

Step 1 Search on MISUMI official website

xy stage



Step 2 Select MISUMI economy series brand

MISUMI



MISUMI economy

Part Number		Stage Surface (mm)	Travel Distance (mm)	Load Capacity (N)	Straightness (μm)	Minimum Reading (μm)	Mass (kg)
①Type	②No.			Horizontal			
E-XYSSG	40	40×40	±6.5	88	Within 10	10	0.34
	60	60×60		186			0.64
	80	80×80	±12.5	196			1.32
	100	100×100		245			2

**Ordering Example**

Please order after selecting part number and parameters according to the selection steps ① to ③.

Part Number (①Type · ②No.) - ③Alterations  
 E-XYSSG40  
 E-XYSSG40 - A



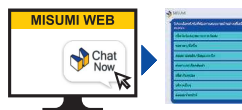
Alteration

Alterations	③Alterations to Micrometer Knob Position		
Spec.	Center	Side Left-Right Reversed	No Micrometer Rotation
Code	A	CR	MN

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9  
 Locating Pins / Bushings / Clamping Screws / Positioning Stages

Locating Pins

P.745

Bushings for Locating Pins  
 P.749

Adjusting Bolts

P.753

Clamp Screws

P.760

Urethane Pushers

P.763

Micrometer Heads

P.767

Motorized Positioning Stages  
 P.769



New Products



Representative model: E-ZPG60

Save Up to **80%** vs Standard Type

**2,831 THB**

Shipping from **1 day**

Volume Discount

Quantity	1~3	4~5	6~
Discount	Unit Price	15%	30%



Shipping days may differ by Quantity.

Quantity of volume discount above is for representative Part No. It may differ by the Part.

Material	Surface Treatment
Aluminum alloy	Black Anodized

9 Locating Pins / Bushings / Clamping Screws / Positioning Stages

Locating Pins

P.745

Bushings for Locating Pins

P.749

Adjusting Bolts

P.753

Clamp Screws

P.760

Urethane Pushers

P.763

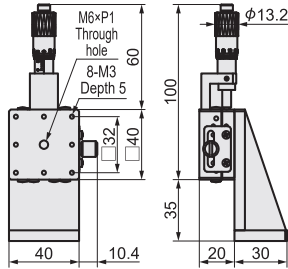
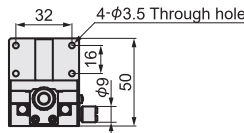
Micrometer Heads

P.767

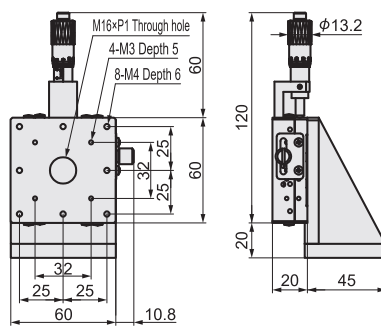
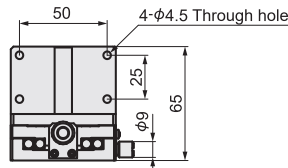
Motorized Positioning Stages

P.769

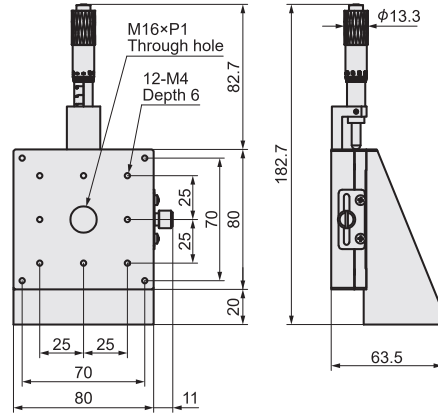
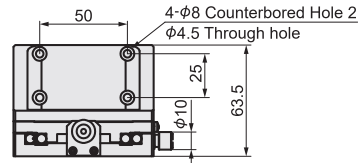
E-ZPG40



E-ZPG60

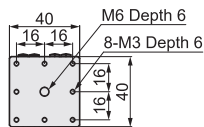


E-ZPG80

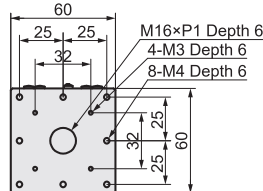


●Dimensions of stage surface mounting hole

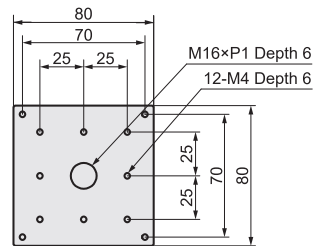
No.40



No.60



No.80



How to search on website



By Type: Search on MISUMI official website

By Keyword: Step 1 Search on MISUMI official website

Step 2 Select MISUMI economy series brand



Part Number		Stage Surface (mm)	Travel Distance (mm)	Load Capacity (N)	Straightness (μm)	Minimum Reading (μm)	Mass (kg)
①Type	②No.			Horizontal			
E-ZPG	40	40×40	±6.5	9.8	Within 20	10	0.2
	60	60×60		19.6			0.45
	80	80×80	±12.5	49			0.8



Please order after selecting part number and parameters according to the selection steps ① to ③.

Part Number (①Type · ②No.) - ③Alterations

E-ZPG60

E-ZPG60

- C



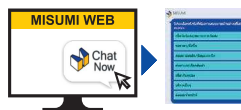
Alteration

Alterations	③Alterations to Micrometer Knob Position			
	Left-Right Reversed	Side Up	Side Up Left-Right Reversed	Side Down
Spec.				
Code	AZR	C	CR	CU

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Email: cs@misumi.co.th

### MISUMI WEB "Chat"



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9

Locating Pins / Bushings / Clamping Screws / Positioning Stages

Locating Pins

P.745

Bushings for Locating Pins P.749

Adjusting Bolts

P.753

Clamp Screws

P.760

Urethane Pushers

P.763

Micrometer Heads

P.767

Motorized Positioning Stages

P.769

New Products



Representative model: E-ZSG25

Save Up to **34%** vs Standard Type

**5,262 THB**

Shipping from **1 day**

Volume Discount

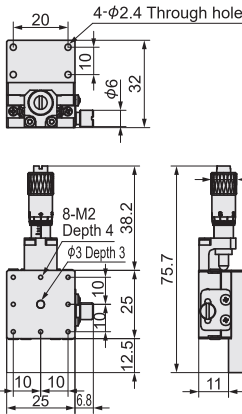
Quantity	1~3	4~5	6~
Discount	Unit Price	15%	30%



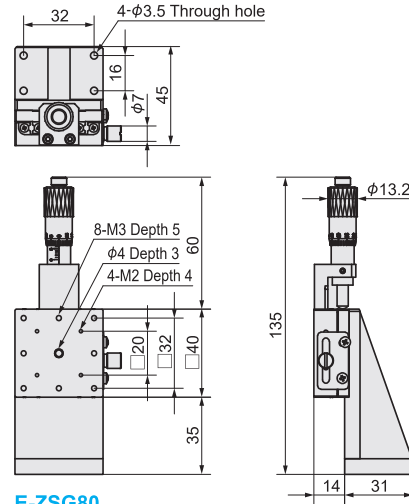
Shipping days may differ by Quantity.  
Quantity of volume discount above is for representative Part No. It may differ by the Part.

Type	Material	Surface Treatment
Body	Tool Steel	Electroless Nickel Plating
Z Support	Aluminum Alloy	-

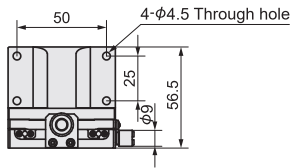
E-ZSG25



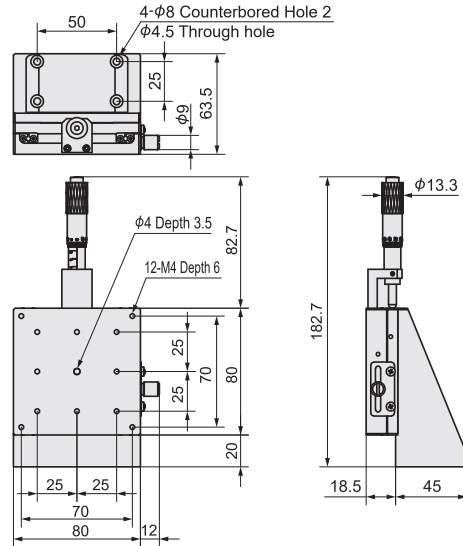
E-ZSG40



E-ZSG60



E-ZSG80



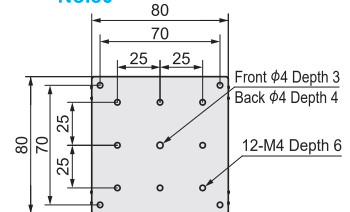
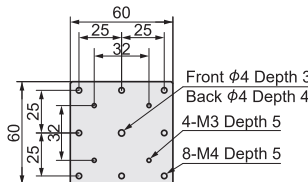
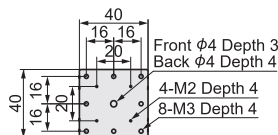
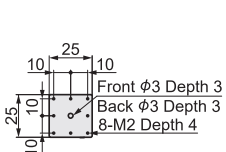
●Dimensions of stage surface mounting hole

No.25

No.40

No.60

No.80



9 Locating Pins / Bushings / Clamping Screws / Positioning Stages

Locating Pins

P.745 Bushings for Locating Pins

P.749 Adjusting Bolts

P.753 Clamp Screws

P.760 Urethane Pushers

P.763 Micrometer Heads

P.767 Motorized Positioning Stages

How to search on website



By Type

Search on MISUMI official website

By Keyword

Step 1 Search on MISUMI official website

Step 2 Select MISUMI economy series brand

MiSUMI  MISUMI economy

Part Number		Stage Surface (mm)	Travel Distance (mm)	Load Capacity (N)	Straightness (μm)	Minimum Reading (μm)	Mass (kg)
①Type	②No.						
E-ZSG	25	25×25	±3.25	9.8	Within 10	10	0.09
	40	40×40	±6.5	49			0.32
	60	60×60					0.58
	80	80×80	±12.5	1.2			

**Ordering Example**

Please order after selecting part number and parameters according to the selection steps ① to ③.

Part Number (①Type · ②No.) - ③Alterations

E-ZSG25

E-ZSG25

- C



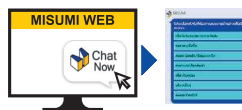
Alteration

Alterations	③ Alterations to Micrometer Knob Position			
Spec.	Left-Right Reversed	Side Up	Side Up Left-Right Reversed	Side Down
Code	AZR	C	CR	CU

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9  
Locating Pins / Bushings / Clamping Screws / Positioning Stages

Locating Pins

P.745

Bushings for Locating Pins  
P.749

Adjusting Bolts

P.753

Clamp Screws

P.760

Urethane Pushers

P.763

Micrometer Heads

P.767

Motorized Positioning Stages  
P.769

New Products



Representative model: E-XZPG60

Save Up to **79%** vs Standard Type

**5,184 THB**

Shipping from **1 day**

Volume Discount

Quantity	1~3	4~5	6~
Discount	Unit Price	15%	30%



Shipping days may differ by Quantity.  
Quantity of volume discount above is for representative Part No. It may differ by the Part.

Material	Surface Treatment
Aluminum alloy	Black Anodized

9  
Locating Pins / Bushings / Clamping Screws / Positioning Stages

Locating Pins

P.745

Bushings for Locating Pins

P.749

Adjusting Bolts

P.753

Clamp Screws

P.760

Urethane Pushers

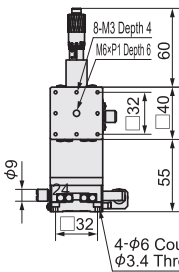
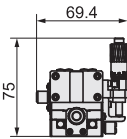
P.763

Micrometer Heads

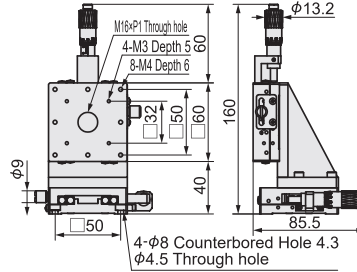
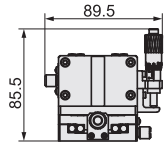
P.767

Motorized Positioning Stages  
P.769

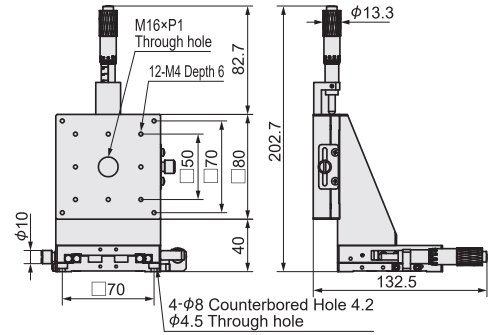
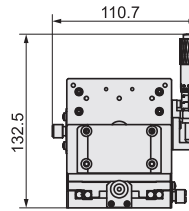
E-XZPG40



E-XZPG60

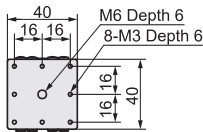


E-XZPG80

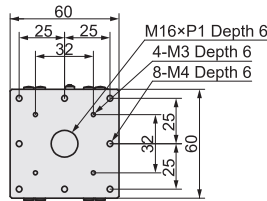


●Dimensions of stage surface mounting hole

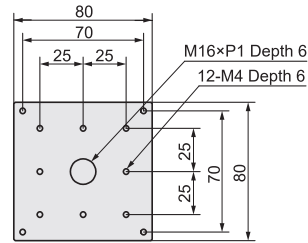
No.40



No.60



No.80



How to search on website



By Type: Search on MISUMI official website  
**E-XZPG**

By Keyword: Step 1 Search on MISUMI official website  
**xz stage**

Step 2 Select MISUMI economy series brand



Part Number		Stage Surface (mm)	Travel Distance (mm)		Load Capacity (N)	Straightness (μm)	Minimum Reading (μm)	Mass (kg)
①Type	②No.		X-Axis	Z-Axis	Horizontal			
E-XZPG	40	40×40	±6.5	±6.5	9.8	Within 20	10	0.34
	60	60×60			19.6			0.7
	80	80×80	±12.5	±12.5	49			1.3

**Ordering Example**

Please order after selecting part number and parameters according to the selection steps ① to ③.

Part Number (①Type · ②No.) - ③Alterations

E-XZPG60

E-XZPG60

- A



Alteration

Alterations	③ Alterations to Micrometer Knob Position			
	Center	Side Up	Side Down	Reversed
Spec.				
Code	A	C	CU	R

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9

Locating Pins / Bushings / Clamping Screws / Positioning Stages

Locating Pins

P.745

Bushings for Locating Pins P.749

Adjusting Bolts

P.753

Clamp Screws

P.760

Urethane Pushers

P.763

Micrometer Heads

P.767

Motorized Positioning Stages

P.769

New Products



Representative model: E-XZSG40

Save Up to **37%** vs Standard Type

**10,540 THB**

Shipping from **1 day**

Volume Discount

Quantity	1~3	4~5	6~
Discount	Unit Price	15%	30%



Shipping days may differ by Quantity.  
Quantity of volume discount above is for representative Part No. It may differ by the Part.

Type	Material	Surface Treatment
Body	Tool Steel	Electroless Nickel Plating
Z Support	Aluminum Alloy	-

9  
Locating Pins / Bushings / Clamping Screws / Positioning Stages

Locating Pins

P.745

Bushings for Locating Pins

P.749

Adjusting Bolts

P.753

Clamp Screws

P.760

Urethane Pushers

P.763

Micrometer Heads

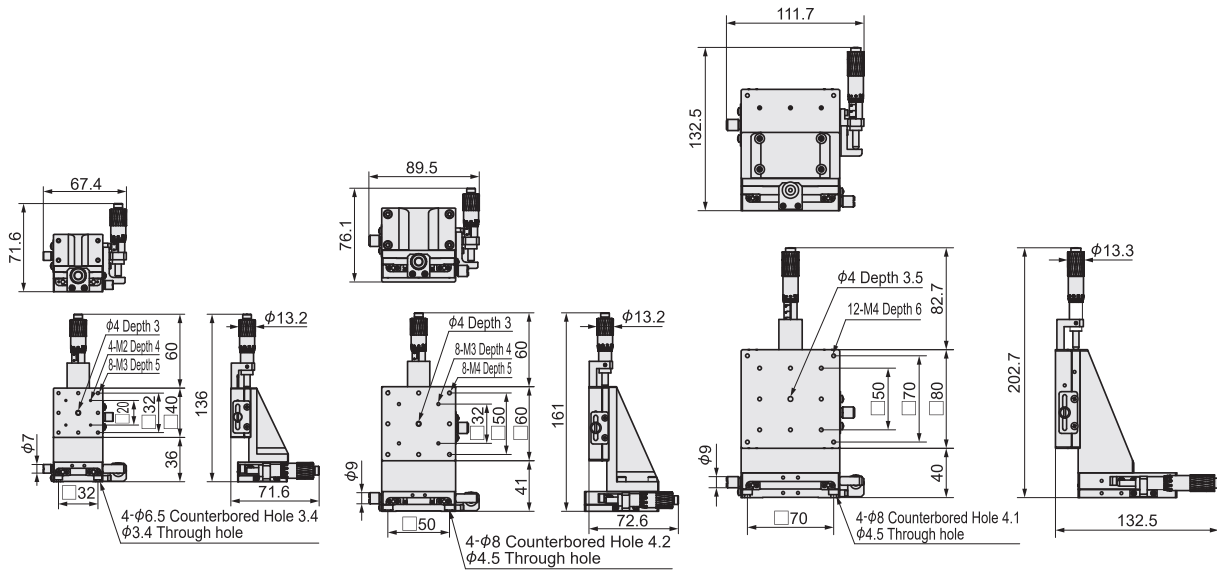
P.767

Motorized Positioning Stages  
P.769

E-XZSG40

E-XZSG60

E-XZSG80

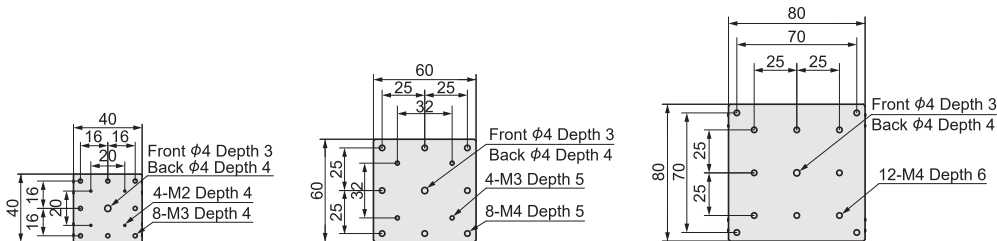


● Dimensions of stage surface mounting hole

No.40

No.60

No.80



How to search on website



By Type:

By Keyword:

Step 2 ▶ Select MISUMI economy series brand



Part Number		Stage Surface (mm)	Travel Distance (mm)	Load Capacity (N)	Straightness (μm)	Minimum Reading (μm)	Mass (kg)
1 Type	2 No.						
E-XZSG	40	40×40	±6.5	49	Within 10	10	0.55
	60	60×60					0.98
	80	80×80	±12.5				2.1

**Ordering Example**

Please order after selecting part number and parameters according to the selection steps 1 to 3.

Part Number (1 Type · 2 No.) - 3 Alterations

E-XZSG40

E-XZSG40

- A



Alteration

Alterations	3 Alterations to Micrometer Knob Position			
	Center	Side Up	Side Down	Reversed
Spec.				
Code	A	C	CU	R

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9  
Locating Pins / Bushings / Clamping Screws / Positioning Stages  
Locating Pins  
P.745  
Bushings for Locating Pins  
P.749  
Adjusting Bolts  
P.753  
Clamp Screws  
P.760  
Urethane Pushers  
P.763  
Micrometer Heads  
P.767  
Motorized Positioning Stages  
P.769



New Products



Representative model: E-XYZPG60

Save Up to **79%** vs Standard Type

**7,506 THB**

Shipping from **1 day**

Volume Discount

Quantity	1~3	4~5	6~
Discount	Unit Price	15%	30%



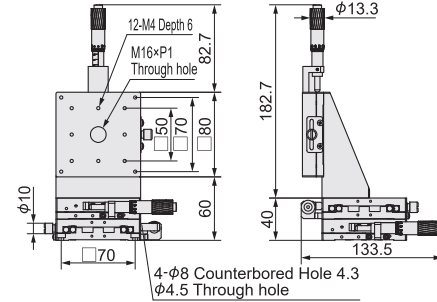
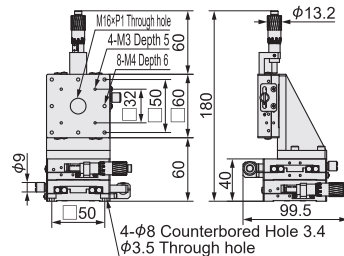
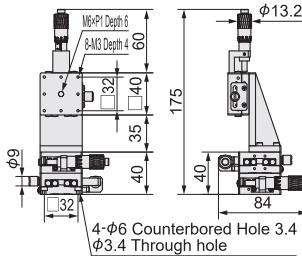
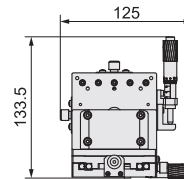
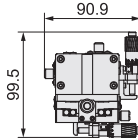
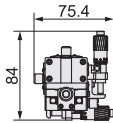
Shipping days may differ by Quantity.  
Quantity of volume discount above is for representative Part No. It may differ by the Part.

Material	Surface Treatment
Aluminum alloy	Black Anodized

E-XYZPG40

E-XYZPG60

E-XYZPG80

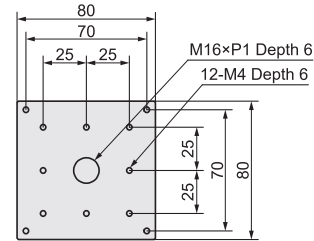
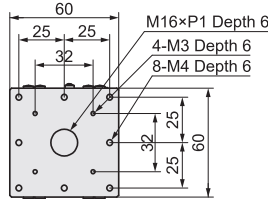
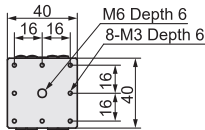


●Dimensions of stage surface mounting hole

No.40

No.60

No.80



9  
Locating Pins / Bushings / Clamping Screws / Positioning Stages

Locating Pins

P.745  
Bushings for Locating Pins

P.749  
Adjusting Bolts

P.753

Clamp Screws

P.760

Urethane Pushers

P.763

Micrometer Heads

P.767

Motorized Positioning Stages  
P.769

How to search on website



By Type: Search on MISUMI official website  
**E-XYZPG**

By Keyword: Step 1 Search on MISUMI official website  
**xyz stage**

Step 2 Select MISUMI economy series brand



Part Number		Stage Surface (mm)	Travel Distance (mm)	Load Capacity (N)	Straightness (μm)	Minimum Reading (μm)	Mass (kg)
1 Type	2 No.						
E-XYZPG	40	40×40	±6.5	9.8	Within 20	10	0.48
	60	60×60		19.6			0.95
	80	80×80	±12.5	49			1.8

**Ordering Example**

Please order after selecting part number and parameters according to the selection steps 1 to 3.

Part Number (1 Type · 2 No.) - 3 Alterations

E-XYZPG60

E-XYZPG60

- A



Alteration

Alterations	3 Alterations to Micrometer Knob Position			
	Center	Side Up	Side Down	Reversed
Spec.				
Code	A	C	CU	R

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9  
Locating Pins / Bushings / Clamping Screws / Positioning Stages  
Locating Pins  
P.745  
Bushings for Locating Pins  
P.749  
Adjusting Bolts  
P.753  
Clamp Screws  
P.760  
Urethane Pushers  
P.763  
Micrometer Heads  
P.767  
Motorized Positioning Stages  
P.769

New Products



Representative model: E-XYZSG40

Save Up to **36%** vs Standard Type

**15,326 THB**

Shipping from **10 days**

Volume Discount

Quantity	1~3	4~5	6~
Discount	Unit Price	15%	30%



Shipping days may differ by Quantity.

Quantity of volume discount above is for representative Part No. It may differ by the Part.

Type	Material	Surface Treatment
Body	Tool Steel	Electroless Nickel Plating
Z Support	Aluminum Alloy	-

9 Locating Pins / Bushings / Clamping Screws / Positioning Stages

Locating Pins

P.745

Bushings for Locating Pins

P.749

Adjusting Bolts

P.753

Clamp Screws

P.760

Urethane Pushers

P.763

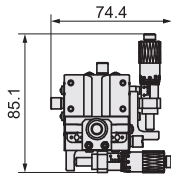
Micrometer Heads

P.767

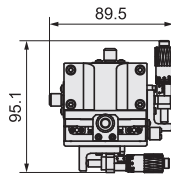
Motorized Positioning Stages

P.769

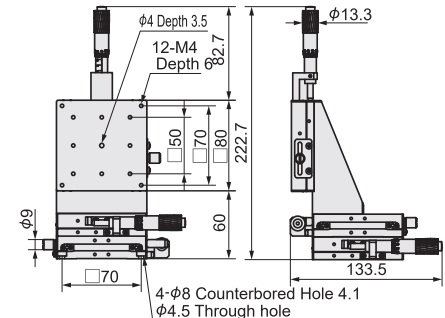
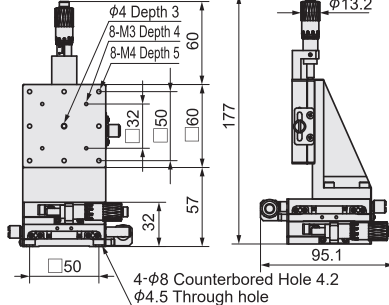
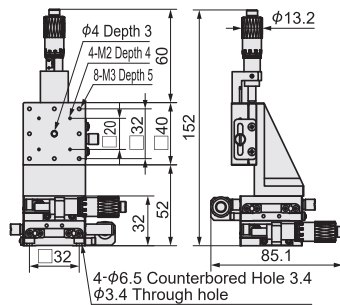
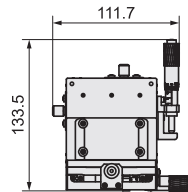
E-XYZSG40



E-XYZSG60

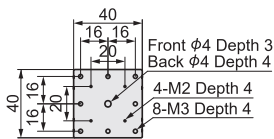


E-XYZSG80

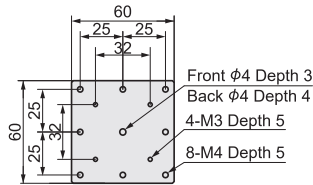


●Dimensions of stage surface mounting hole

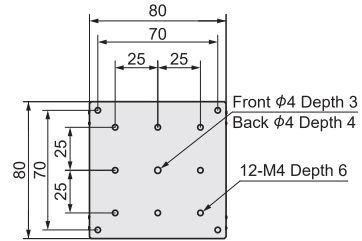
No.40



No.60



No.80



How to search on website



By Type:

Search on MISUMI official website

By Keyword:

Step 1 Search on MISUMI official website

Step 2 Select MISUMI economy series brand



Part Number		Stage Surface (mm)	Travel Distance (mm)	Load Capacity (N)	Straightness (μm)	Minimum Reading (μm)	Mass (kg)
①Type	②No.						
E-XYZSG	40	40×40	±6.5	49	Within 10	10	0.78
	60	60×60					1.38
	80	80×80	±12.5				3

**Ordering Example**

Please order after selecting part number and parameters according to the selection steps ① to ③.

Part Number (①Type · ②No.) - ③Alterations

E-XYZSG40

E-XYZSG40

- A



Alteration

Alterations	③ Alterations to Micrometer Knob Position			
	Center	Side Up	Side Down	Reversed
Spec.				
Code	A	C	CU	R

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Locating Pins / Bushings / Clamping Screws / Positioning Stages

Locating Pins

P.745

Bushings for Locating Pins P.749

Adjusting Bolts

P.753

Clamp Screws

P.760

Urethane Pushers

P.763

Micrometer Heads

P.767

Motorized Positioning Stages P.769

## Economy series Motorized Positioning Stages

Linear Ball Guide Type

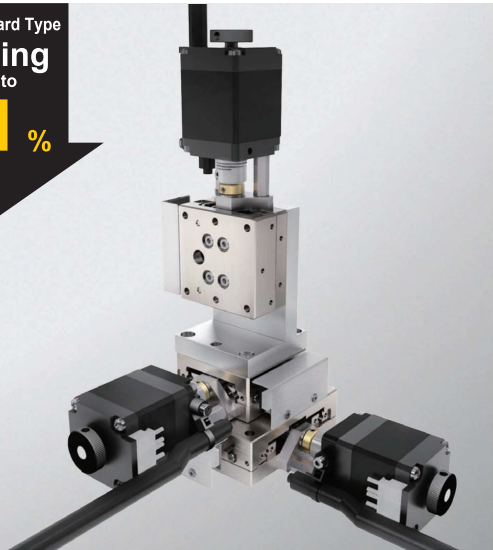
Long Stroke

Quick Positioning

Diverse Combinations

vs Standard Type

Saving  
up to  
**51%**



9

Locating Pins / Bushings / Clamping  
Screws / Positioning Stages

Locating  
Pins

P.745

Bushings for  
Locating Pins

P.749

Adjusting  
Bolts

P.753

Clamp  
Screws

P.760

Urethane  
Pushers

P.763

Micrometer  
Heads

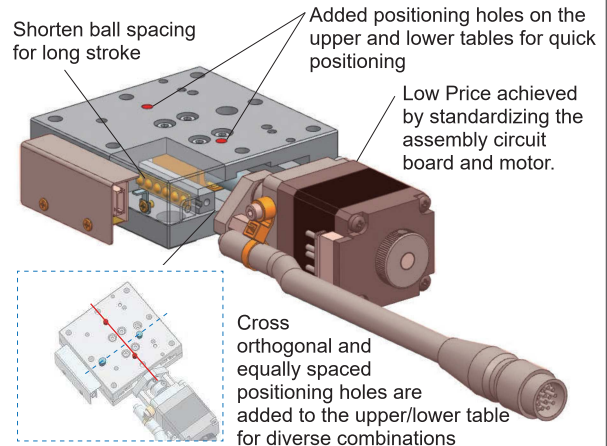
P.767

Motorized  
Positioning Stages

P.769

### Feature

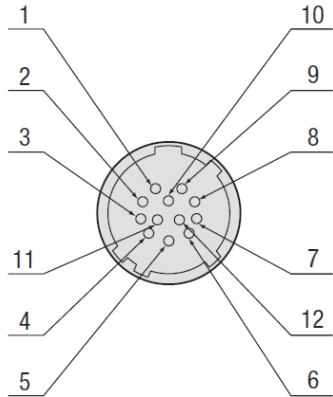
- ① Low price is achieved by simplifying the structure and sharing the parts.
- ② Quick positioning is achieved by adding positioning holes to the upper and lower seats of the stage.
- ③ Long stroke is achieved by rearranging the balls and extending the lower seat, etc.
- ④ The aperture and position of the whole series of positioning holes are common to achieve mutual grouping and diversity of combinations.



### Universal Specifications

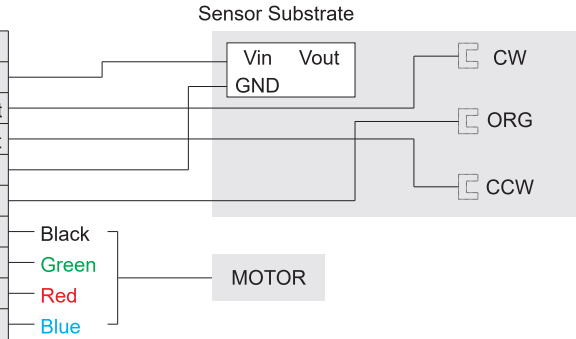
Feed Screw		Ball Screw $\phi 6$ , Lead 1mm
Guide		Linear Ball Guide Type
Motor	Type	2-Phase Stepper Motor 1.3A / Phase
	Step Angle	1.8°
Connector	Part Number	HR10A-10J-12P (HIROSE)
	Receiving Side Part Number	HR10A-10P-12S (HIROSE)
Sensor Substrate	Power Voltage	DC24V $\pm$ 10%
	Sensor Type	Photomicro Sensor EE-SX4320 (OMRON)
	Control Output	NPN Open Collector Output
	Output Logic	When detecting (shading): output transistor OFF (non-conductive)

### Connector Pin Configuration



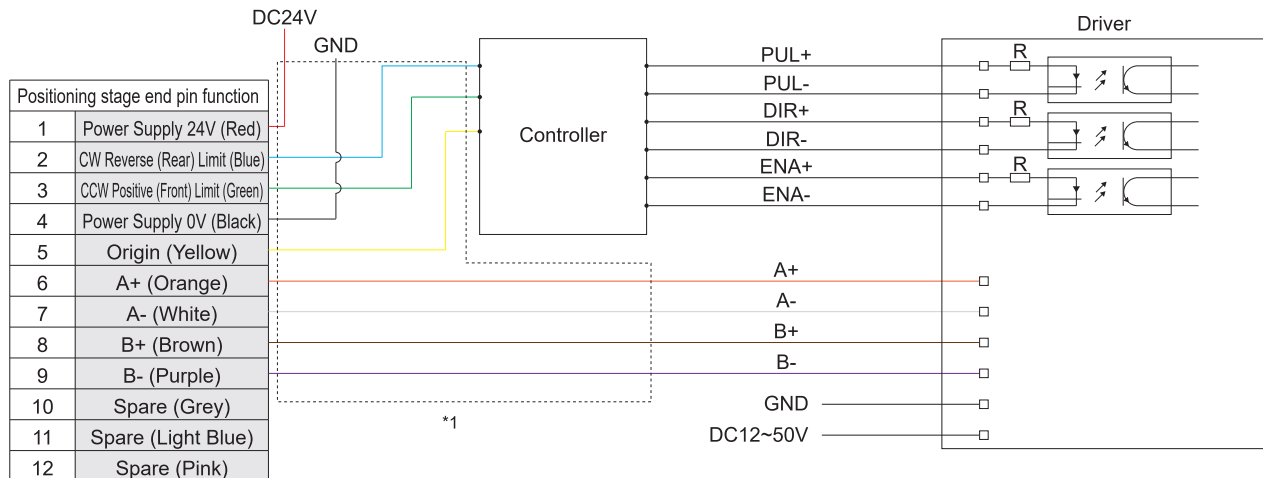
### Connecting Diagram

Foot Position	Signal Definition
1	Power Supply 24V
2	CW Reverse (Rear) Limit
3	CCW Positive (Front) Limit
4	Power Supply 0V
5	Origin
6	A+
7	A-
8	B+
9	B-
10	Spare
11	Spare
12	Spare



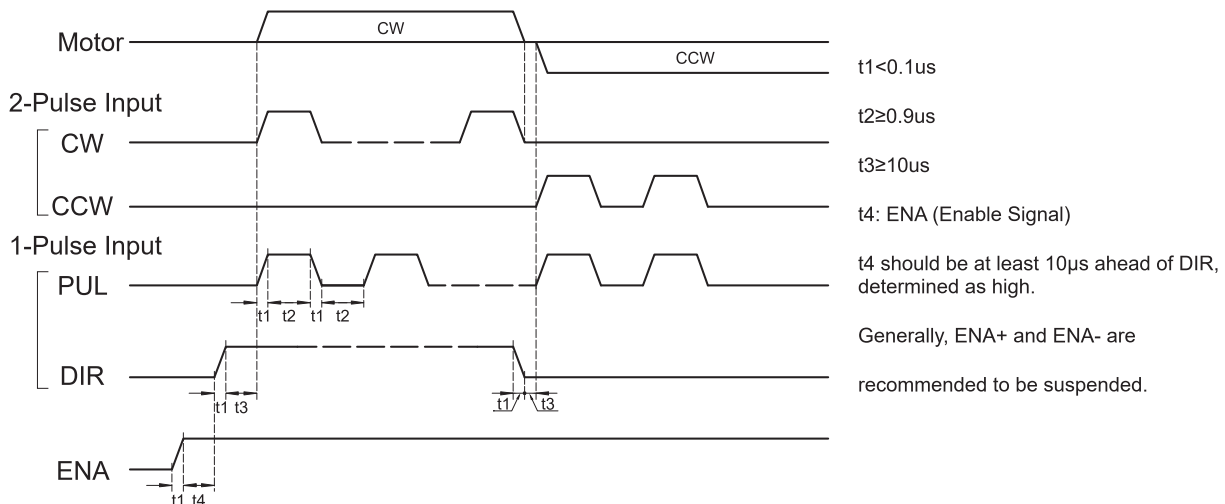
### Connection Example

MISUMI Economy series positioning stage has been equipped with two-phase stepper motor, driver and cable. Customers only need to prepare 24V power supply and host computer (PLC or motion control card) to use it. The connection examples between various products are shown in the figure below.



\*1. The cable in the dotted box is a 2m or 4m cable.

### Timing Diagram



**9**  
 Locating Pins / Bushings / Clamping Screws / Positioning Stages  
 Locating Pins  
 P.745  
 Bushings for Locating Pins  
 P.749  
 Adjusting Bolts  
 P.753  
 Clamp Screws  
 P.760  
 Urethane Pushers  
 P.763  
 Micrometer Heads  
 P.767  
**Motorized Positioning Stages**  
**P.769**

## Driver

Two-Phase Stepper motor Driver	Pulse Signal Voltage (V)	Power Voltage (V)	Output Current (A)	Subdivision	Pulse Input Mode
	5~24	DC12~50	0.1~2.2	200~51200	2-Pulse (CW/CCW) / 1-Pulse(Step/Dir)

## Current Setting

Constant Value	SW1	SW2	SW3	SW4
Default[0.1A]	on	on	on	on
0.2A	off	on	on	on
0.3A	on	off	on	on
0.5A	off	off	on	on
0.6A	on	on	off	on
0.7A	off	on	off	on
0.8A	on	off	off	on
1.0A	off	off	off	on
1.2A	on	on	on	off
1.3A	off	on	on	off
1.5A	on	off	on	off
1.6A	off	off	on	off
1.7A	on	on	off	off
1.8A	off	on	off	off
2.0A	on	off	off	off
2.2A	off	off	off	off

## Subdivision Setting

Steps / Revolution	SW5	SW6	SW7	SW8
Default[200]	on	on	on	on
400	off	on	on	on
800	on	off	on	on
1600	off	off	on	on
3200	on	on	off	on
3600	off	on	off	on
6400	on	off	off	on
12800	off	off	off	on
1000	on	on	on	off
2000	off	on	on	off
4000	on	off	on	off
5000	off	off	on	off
7200	on	on	off	off
8000	off	on	off	off
10000	on	off	off	off
51200	off	off	off	off

## Pulse Input Mode

Mode	SW11	SW12
2-Pulse (CW/CCW)	off	on
1-Pulse (Step/Dir)	off	off

## Example of Use

Application Name: Motor Installation Error Simulation Testing Machine

Application: A magnet is fixed at the front end of the motor output shaft and the PCB inspection substrate is fixed on the positioning stage to make the magnet close to the PCB inspection center.

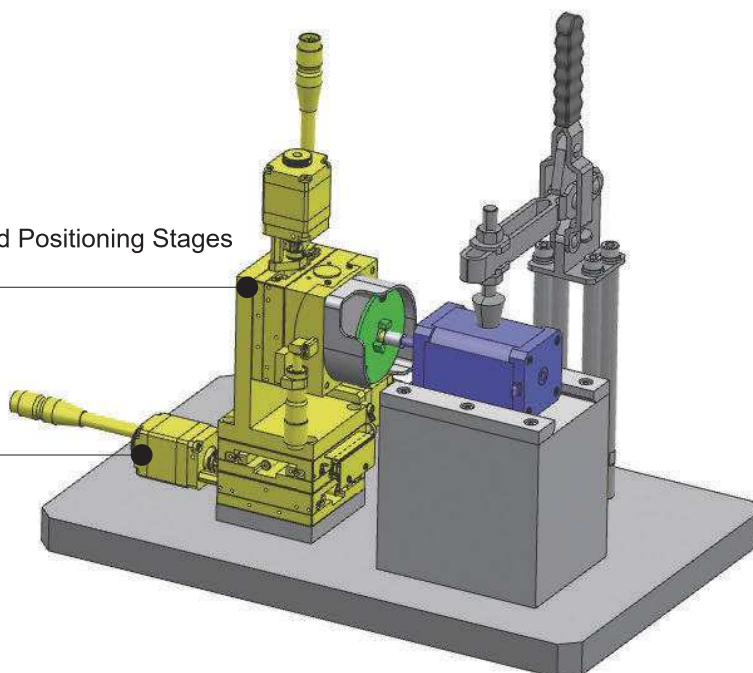
The actual installation error of the motor is simulated by the motorized positioning stage position transformation, and the PCB will detect and record the electrical signal when the motor output shaft is in different positions.

Economy Series Motorized Positioning Stages

Z-Axis

Economy Series Motorized Positioning Stages

XY-Axis



Representative model: C-XMBS630-R-A-2

Save Up to **43%** vs Standard Type

Shipping from **1 day**



**20,186 THB**

Volume Discount

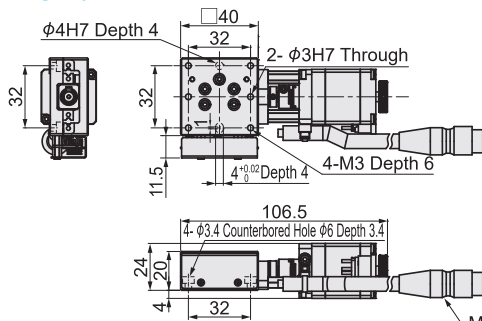
Quantity	1~3	4~5	6~
Discount	Unit Price	15%	30%



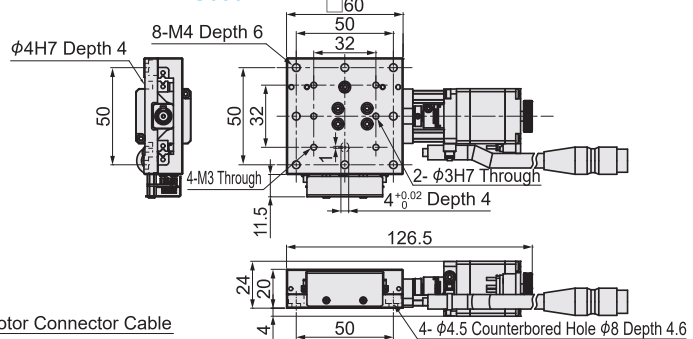
Shipping days may differ by Quantity.  
Quantity of volume discount above is for representative Part No. It may differ by the Part.

Material	Surface Treatment	Accessories
Alloy Steel	Electroless Nickel Plating	Locating Pins: 4 pcs

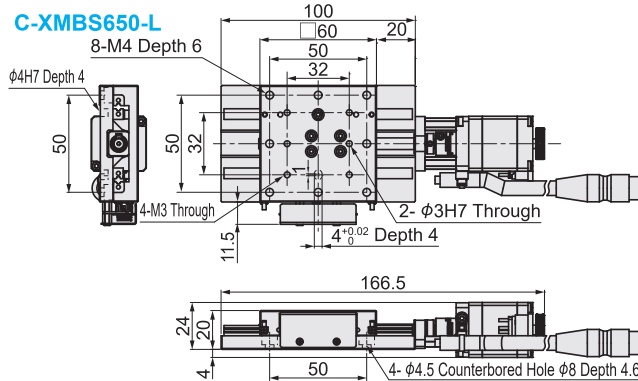
C-XMBS420-L



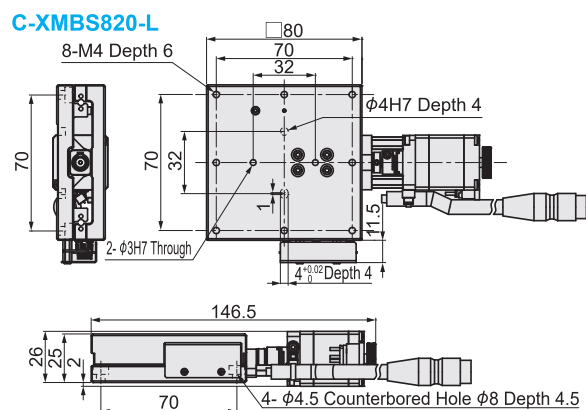
C-XMBS630-L



C-XMBS650-L



C-XMBS820-L



Motor side connector cable lengths vary by model, which are subject to the actual products.  
The purchased model already includes the positioning stage body, the corresponding driver and cable, so no need to purchase separately.  
The above figure shows the model when cover L is selected. Please check the detailed dimensions by CAD data when selecting the cover R.

Part Number		Stage Surface (mm)	Cover Position	Driver	Cable Length (m)	Mechanical Specification			Accuracy Specification						Sensor				
Type	Category					Travel Distance (mm)	Load Capacity (N)	Weight (kg)	Resolution (Pulse)	Maximum Speed	One-Way Positioning Accuracy	Repetitive Positioning Accuracy	Invalid Motion	Parallelism	Motion Straightness	Motion Parallelism	Limit Sensor	Origin Sensor (ORG1)	
C-XMBS	X-Axis	420	L R	A	2 4	18	98	0.4	5μm	10 mm/sec	Within 20μm	Within ±5.0μm	10μm	30μm	10μm	20μm	Provided	Provided	
		630	L R			28													0.6
		650	L R			43													0.8
		820	L R			20													117.6

Ordering Example

Please order after selecting part number and parameters according to the selection steps 1 to 5.

Part Number (1)Type · (2)Category) - (3)Cover Position - (4)Driver - (5)Cable Length  
C-XMBS630 - L - A - 2

How to search on website



By Type: Search on MISUMI official website  
C-XMBS

By Keyword: Step 1 Search on MISUMI official website  
Step 2 Select MISUMI economy series brand  
motorized stage

MISUMI economy

9 Locating Pins / Bushings / Clamping Screws / Positioning Stages  
Locating Pins  
P.745 Bushings for Locating Pins  
P.749  
Adjusting Bolts  
P.753  
Clamp Screws  
P.760  
Urethane Pushers  
P.763  
Micrometer Heads  
P.767  
Motorized Positioning Stages  
P.769



Representative model: C-XYMBS630-R-A-2

Save Up to **46%** vs Standard Type

**40,339 THB**

Shipping from **10 days**



Volume Discount

Quantity	1~3	4~5	6~
Discount	Unit Price	15%	30%



Shipping days may differ by Quantity.  
Quantity of volume discount above is for representative Part No. It may differ by the Part.

Material	Surface Treatment	Accessories
Alloy Steel	Electroless Nickel Plating	Locating Pins: 4 pcs

9  
Locating Pins / Bushings / Clamping Screws / Positioning Stages

Locating Pins

P.745

Bushings for Locating Pins

P.749

Adjusting Bolts

P.753

Clamp Screws

P.760

Urethane Pushers

P.763

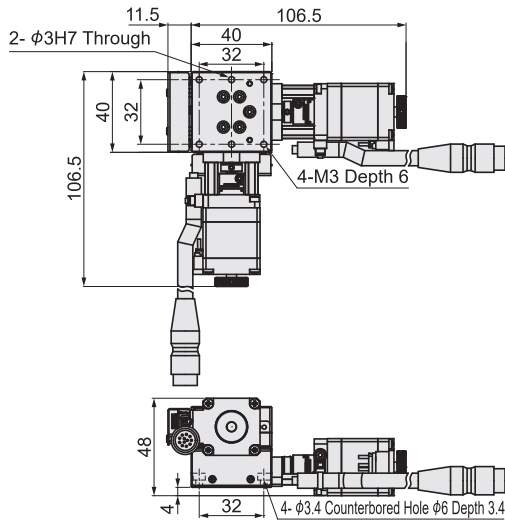
Micrometer Heads

P.767

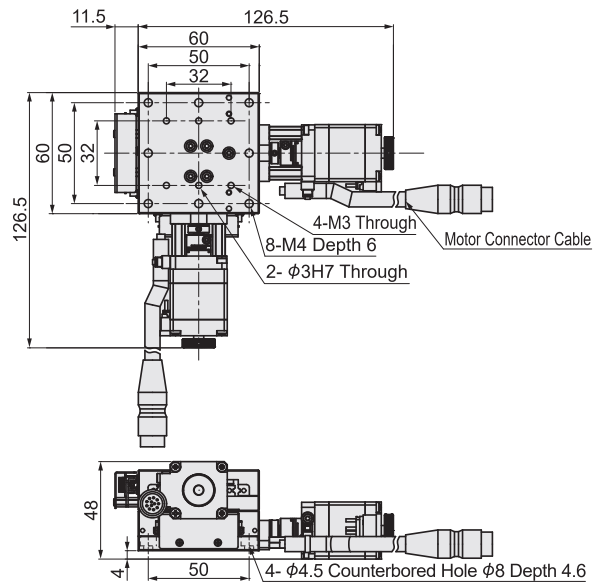
Motorized Positioning Stages

P.769

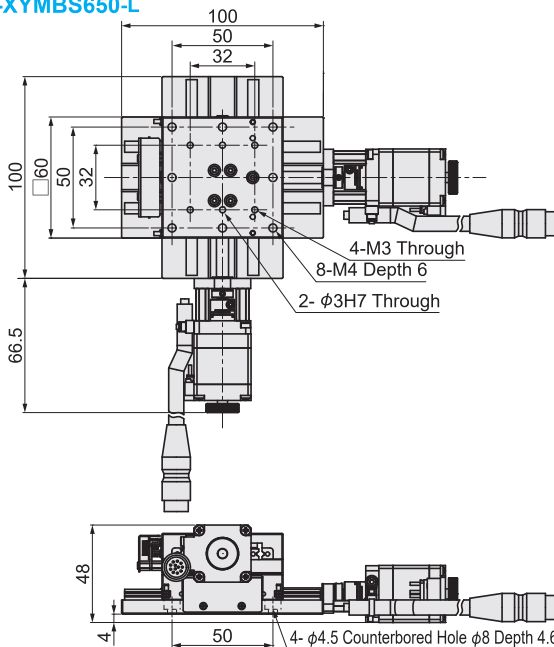
### C-XYMBS420-L



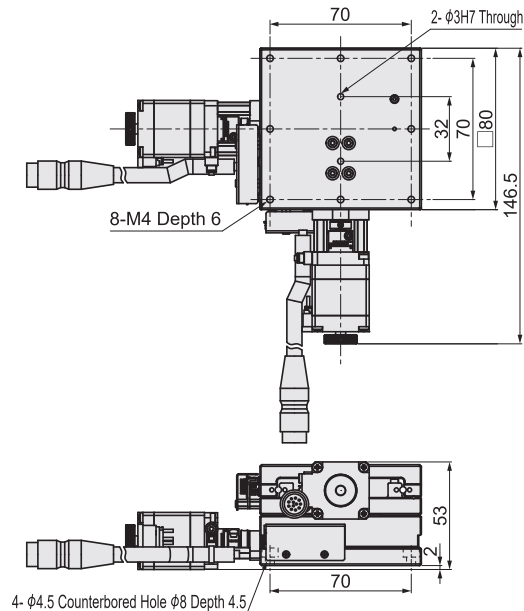
### C-XYMBS630-L



### C-XYMBS650-L



### C-XYMBS820-L



Motor side connector cable lengths vary by model, which are subject to the actual products.  
The purchased model already includes the positioning stage body, the corresponding driver and cable, so there is to purchase separately.  
The above figure shows the situation when cover L is selected. Please check the detailed dimensions by CAD data when selecting the cover R.  
When the 820 cover is L-shaped, the upper shaft is L-shaped and the lower shaft is R-shaped. When the 820 cover is R-shaped, the upper shaft is R-shaped and the lower shaft is L-shaped.

Part Number		Stage Surface (mm)	Cover Position	Driver	Cable Length (m)	Mechanical Specification			
Type	Category					Travel Distance (mm)	Load Capacity (N)	Weight (kg)	
C-XYMBS	XY-Axis	420	40×40	L	A	2 4	18	94	0.8
			R						
		630	60×60	L			28	92	1.2
			R						
		650	60×100	L			43	90	1.6
			R						
		820	80×80	L			20	109.0	1.6
			R						

**Ordering Example**

Please order after selecting part number and parameters according to the selection steps ① to ⑤.

Part Number (①Type - ②Category) - (③Cover Position) - (④Driver) - (⑤Cable Length)  
**C-XYMBS630 - L - A - 2**

Type	Accuracy Specification*1								Sensor	
	Resolution (Pulse)	Maximum Speed	One-Way Positioning Accuracy	Repetitive Positioning Accuracy	Invalid Motion	Parallelism	Motion Straightness	Motion Parallelism	Limit Sensor	Origin Sensor (ORG1)
420	5µm	10 mm/sec	Within 20µm	Within ±5.0µm	10µm	30µm	10µm	20µm	Provided	Provided
630										
650										
820										

\*1 The accuracy specification is the guaranteed value when the motorized positioning stage is set horizontally.

**How to search on website**

**By Type** Search on MISUMI official website

**By Keyword** Step 1 ▶ Search on MISUMI official website Step 2 ▶ Select MISUMI economy series brand

**MISUMI**

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 Locking Pins  
 P.745 Bushings for Locking Pins  
 P.749  
 Adjusting Bolts  
 P.753  
 Clamp Screws  
 P.760  
 Urethane Pushers  
 P.763  
 Micrometer Heads  
 P.767  
 Motorized Positioning Stages  
 P.769

**MISUMI contact**

Tel: 038-959200 or 1382  
 Email: cs@misumi.co.th

**MISUMI WEB "Chat"**

**Install MISUMI APP**

Representative model: C-ZMBS630-R-A-2

Save Up to **51%**  
vs Standard Type

Shipping  
from  
**10 days**

**20,849 THB**

Volume Discount

Quantity	1~3	4~5	6~
Discount	Unit Price	15%	30%

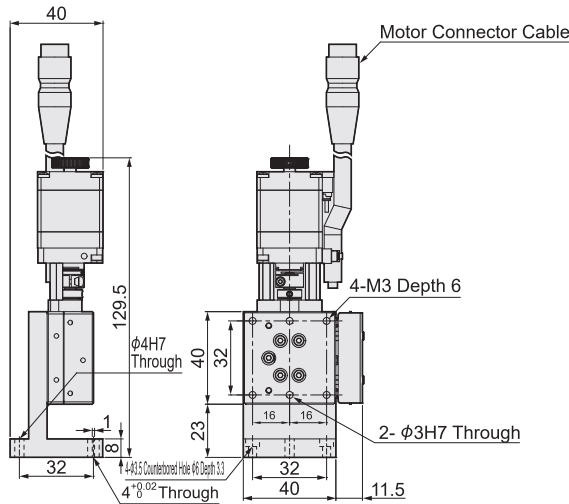


Shipping days may differ by Quantity.

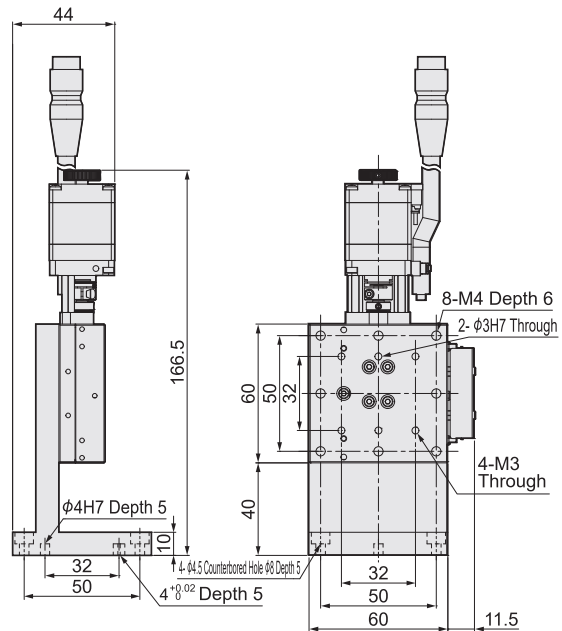
Quantity of volume discount above is for representative Part No. It may differ by the Part.

Material	Surface Treatment	Accessories
Alloy Steel	Electroless Nickel Plating	Locating Pins: 4 pcs

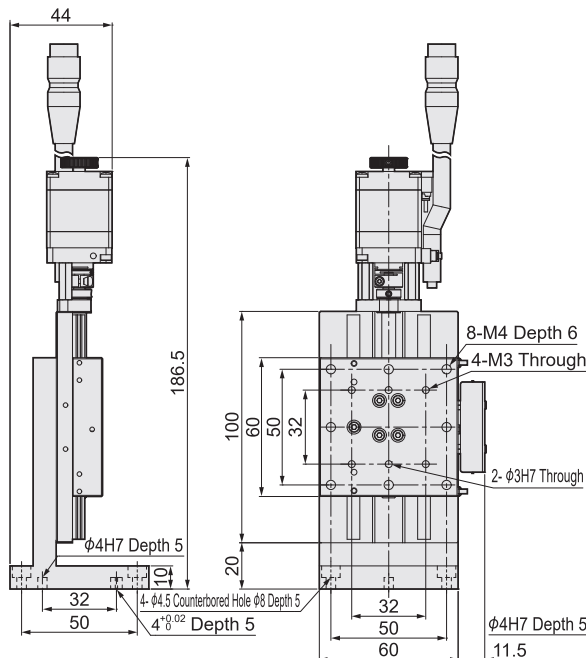
C-ZMBS420-L



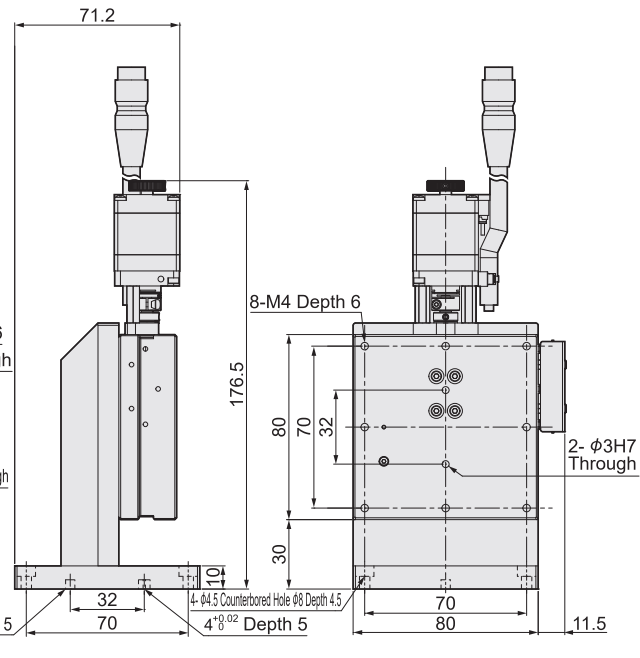
C-ZMBS630-L



C-ZMBS650-L



C-ZMBS820-L



9  
Locating Pins / Bushings / Clamping Screws / Positioning Stages

Locating Pins

P.745

Bushings for Locating Pins

P.749

Adjusting Bolts

P.753

Clamp Screws

P.760

Urethane Pushers

P.763

Micrometer Heads

P.767

Motorized Positioning Stages  
P.769

For detailed dimensions of the positioning stage, refer to the X-Axis.

Motor side connector cable lengths vary by model, which are subject to the actual products.

The purchased model already includes the positioning stage body, the corresponding driver and cable, so there is to purchase separately.

The above figure shows the situation when cover L is selected. Please check the detailed dimensions by CAD data when selecting the cover R.

Part Number		Stage Surface (mm)	3 Cover Position	4 Driver	5 Cable Length (m)	Mechanical Specification				
1 Type	2 Category					Travel Distance (mm)	Load Capacity (N)	Weight (kg)		
C-ZMBS	Z-Axis	420	40×40	L	A	2 4	18	49	0.45	
			R	28						
		630	60×60				L		43	0.65
			R							
		650	60×100	L			20		58.8	0.9
			R							
		820	80×80	L						
			R							

**Ordering Example**

Please order after selecting part number and parameters according to the selection steps 1 to 5.

Part Number (1 Type · 2 Category) - (3 Cover Position) - (4 Driver) - (5 Cable Length)  
**C-ZMBS630 - L - A - 2**

Type	Accuracy Specification*1								Sensor	
	Resolution (Pulse)	Maximum Speed	One-Way Positioning Accuracy	Repetitive Positioning Accuracy	Invalid Motion	Parallelism	Motion Straightness	Motion Parallelism	Limit Sensor	Origin Sensor (ORG1)
420	5µm	10 mm/sec	Within 20µm	Within ±5.0µm	10µm	30µm	10µm	20µm	Provided	Provided
630										
650										
820										

\*1 The accuracy specification is the guaranteed value when the motorized positioning stage is set horizontally.

**How to search on website**

**By Type** Search on MISUMI official website

**By Keyword** Step 1 Search on MISUMI official website Step 2 Select MISUMI economy series brand

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 **MISUMI economy**

9 Locking Pins / Bushings / Clamping Screws / Positioning Stages

Locating Pins

P.745

Bushings for Locating Pins P.749

Adjusting Bolts

P.753

Clamp Screws

P.760

Urethane Pushers

P.763

Micrometer Heads

P.767

Motorized Positioning Stages P.769

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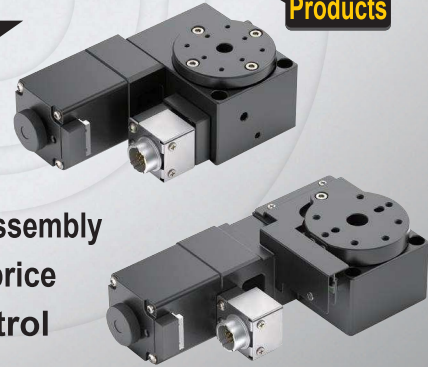


## Economy series Motorized Rotary Stages

vs Standard Type

Saving  
up to  
**65%**

New  
Products



- ✓ Ball screw type (small angle frequent adjustment)  
Worm gear type (360 degree rotation angle adjustment)
- ✓ Positioning holes provided for quick disassembly and assembly
- ✓ Localized production, simplified structure, and low price
- ✓ 2-Pulse (CW/CCW) and 1-Pulse(Step/Dir) control is available to meet multiple applications

9

Locating Pins / Bushings / Clamping  
Screws / Positioning Stages

Locating  
Pins

P.745

Bushings for  
Locating Pins

P.749

Adjusting  
Bolts

P.753

Clamp  
Screws

P.760

Urethane  
Pushers

P.763

Micrometer  
Heads

P.767

Motorized  
Positioning Stages

P.769

### Ball Screw Type Rotary Stages

#### ●About Travel Distance and Constant Speed

The linear drive of a ball screw is converted into rotary motion by the internal structure of the positioning stage.

There is no linear relation between the travel distance of the ball screw and the travel angle of the positioning stage, and the rotation speed is not constant even if the pulse signal is sent at a constant speed.

#### ●Travel Distance Calculation Formula

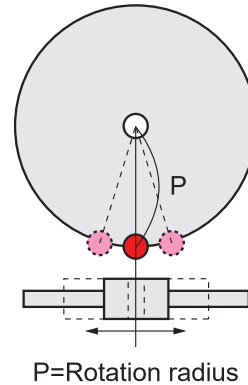
A calculation formula based on the stroke center.

- ① Travel angle =  $\arcsin((\text{input pulse} \times X)/P)$
- ② Input pulse =  $P \times \sin(\text{travel angle})/X$

#### Meaning of formula parameters and calculation example:

Definition	Value	Unit
Rotation radius P*	21	mm
Ball screw lead	1	mm
Motor basic step angle	1.8	°
Ball screw travel distance per pulse X	0.0025	mm

\*The rotation radius is not the radius of the circular tabletop.



#### ●Basic specification

Part Number	Motor basic step angle	Rotation radius P
E-RMBG40	1.8°	21
E-RMBG60		24
E-RMBG80		36
E-RMBG100		45
E-RMBG120		55

### ● Installation posture of positioning stage

The performance of each product is based on the condition of being set up on a level surface.

Be careful when using a product that is mounted upside down, to the side (vertically or horizontally), or in any posture other than on a level surface.

The load capacity and accuracy may vary greatly with the installation posture.

For Product Features by Posture information, please refer to below table:

We will introduce the optimum mechanism products and usage methods to meet your operating conditions.

#### ▼ Table of Product Features by Posture

Part Number	Movable guide [feeding method]	Upside-down use	Side (horizontal) use	Side (vertical) use
E-RMBG	Angular contact ball bearing (ball screw type)	○	○	○

○ Usable despite the restrictions on load and torque.

### ■ About Rotation Center

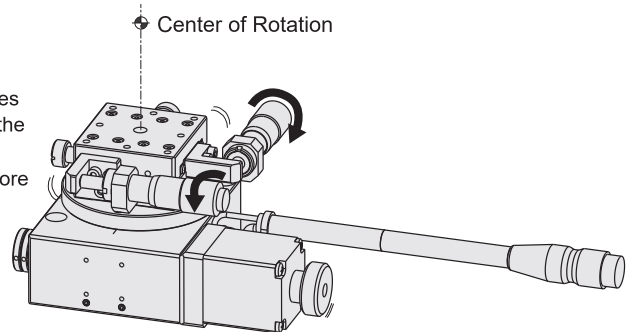
#### ● About how to align rotational center axes

When assembling a rotary positioning stage with matching devices and workpieces, align the center axes as far as possible so that the performance of the stage can be maximized.

It is recommended that the center axes be aligned as follows before use.

- While rotating the rotary positioning stage, use a micrometer to index the position with the minimum eccentricity to fix the positioning stage or workpiece.
- When used in combination with an XY-axis manual positioning stage, fine adjustment of center axis can be done easily.

⚠ The body of the positioning stage does not have a reference plane for mounting.



## Usage difference between economy series and standard product

**MISUMI standard product**

Suitable for applications requiring high precision such as precise adjustment

Equipment Name: Workpiece PCD Hole Angle Measurement Equipment

**MISUMI Economy series**

Suitable for applications not requiring high precision such as simple adjustment

Equipment Name: Substrate UV Waterproof Adhesive Coating Equipment

9

Locating Pins / Bushings / Clamping Screws / Positioning Stages

Locating Pins

P.745

Bushings for Locating Pins

P.749

Adjusting Bolts

P.753

Clamp Screws

P.760

Urethane Pushers

P.763

Micrometer Heads

P.767

Motorized Positioning Stages

P.769

New Products



Representative model: E-RMBG60-A-2

Save Up to **65%** vs Standard Type

**26,452 THB**

Shipping from **12 days**

Volume Discount

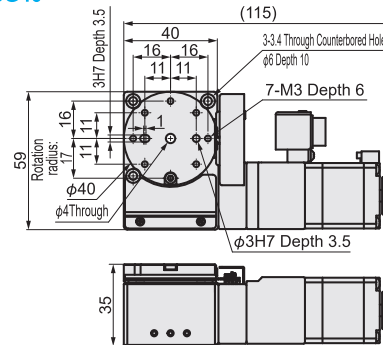
Quantity	1~3	4~5	6~
Discount	Unit Price	15%	30%



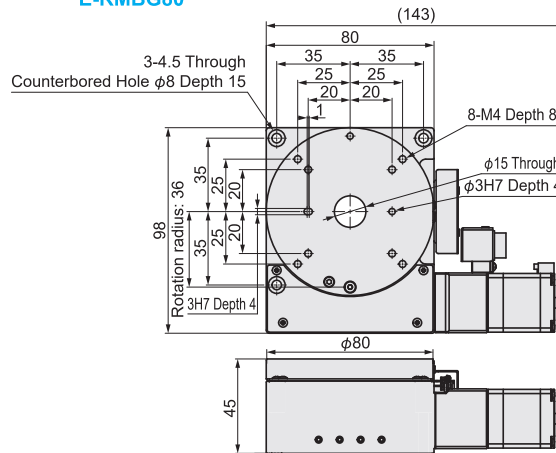
Shipping days may differ by Quantity.  
Quantity of volume discount above is for representative Part No. It may differ by the Part.

Material	Surface Treatment
Aluminum alloy	Black Anodized

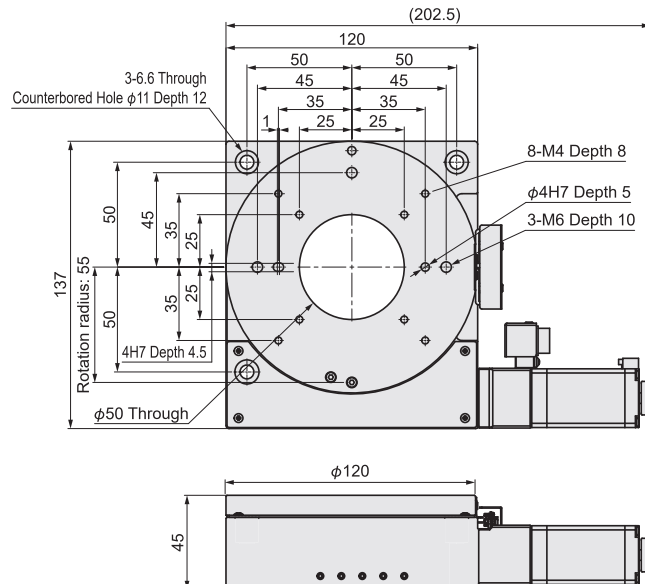
E-RMBG40



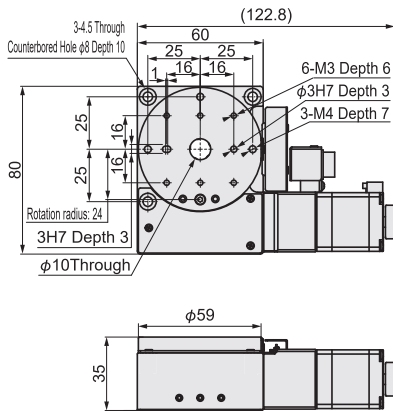
E-RMBG80



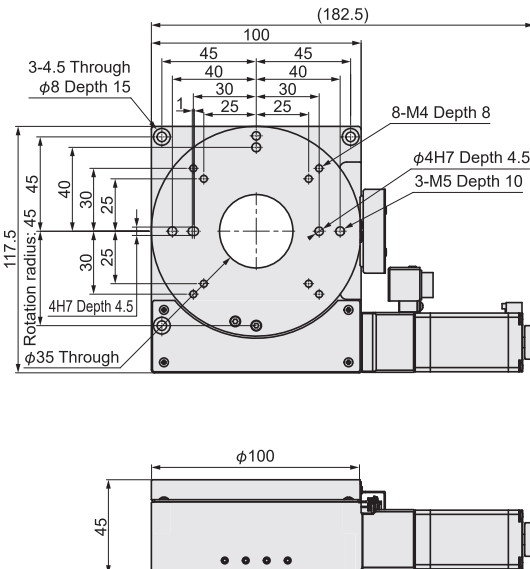
E-RMBG120



E-RMBG60



E-RMBG100



9  
Locating Pins / Bushings / Clamping Screws / Positioning Stages

Locating Pins

P.745

Bushings for Locating Pins

P.749

Adjusting Bolts

P.753

Clamp Screws

P.760

Urethane Pushers

P.763

Micrometer Heads

P.767

Motorized Positioning Stages  
P.769

Part Number		3 Driver	4 Cable	Mechanical Specification					Accuracy Specification		
1 Type	2 No.			Stage Surface (mm)	Travel Distance (°)	Load Capacity (N)	Weight (kg)	Maximum Speed (°/sec)	One-Way Positioning Accuracy	Repetitive Positioning Accuracy	Parallelism (μm)
E-RMBG	40	A	2 (2m cable)	φ40	±12.3	39.2	0.5	28	Within 0.08°	Within ±0.01°	Within 50
	60			φ59	±12	58.8	0.7	24			
	80			φ80	±12	78.4	1.4	16			
	100		φ100	±12.5	98	1.8	12				
	120		φ120	±12	117.6	2.3	12				

**Ordering Example**

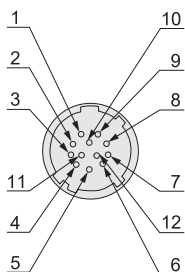
Please order after selecting part number and parameters according to the selection steps 1 to 4.

Part Number (1 Type · 2 No.) - 3 Driver - 4 Cable  
**E-RMBG40 - A - 2**

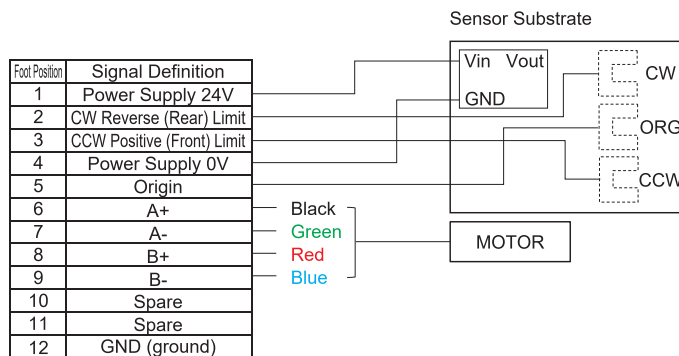
Specification Table

No.	40	60	80	100	120
Feed Screw	Ball Screw φ6, Lead 1mm				
Bearing	Angular contact ball bearing				
Motor	Type	2-Phase Standard Stepper Motor 1.3A / Phase		2-Phase High Torque Stepper Motor 1.3A / Phase	
	Step Angle	1.8°			
Resolution (Pulse) Full	≈0.0136°	≈0.0119°	≈0.0080°	≈0.0064°	≈0.0052°
Driver	Power Voltage	DC12~50V			
	Output Current	0.1~2.2A			
	Pulse Signal Voltage	5~24V			
	Subdivision	200~51200			
Connector	Part Number	HR10A-10R-12P (HIROSE)			
	Receiving Side Part Number	HR10A-10P-12S (HIROSE)			
Sensor Substrate	Limit Sensor	Provided			
	Origin Sensor	Provided			
	Power Voltage	DC24V±10%			
	Sensor Type	Photomicro Sensor EE-SX4320 (OMRON)			
	Control Output	NPN Open Collector Output			
Output Logic	When detecting (shading): output transistor OFF (non-conductive)				

Connector Pin Configuration



Connecting Diagram



How to search on website

By Type: Search on MISUMI official website  
**E-RMBG**

By Keyword: Step 1 ▶ Search on MISUMI official website  
**rotary stage**

Step 2 ▶ Select MISUMI economy series brand  
 MISUMI  **MISUMI economy**

MISUMI contact

Tel: 038-959200 or 1382  
 Email: cs@misumi.co.th

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9 Locking Pins / Bushings / Clamping Screws / Positioning Stages  
 Locking Pins P.745  
 Bushings for Locking Pins P.749  
 Adjusting Bolts P.753  
 Clamp Screws P.760  
 Urethane Pushers P.763  
 Micrometer Heads P.767  
 Motorized Positioning Stages P.769



New Products



Representative model: E-RMPG60-A-2

Save Up to **54%** vs Standard Type

**23,750 THB**

Shipping from **12 days**

Volume Discount

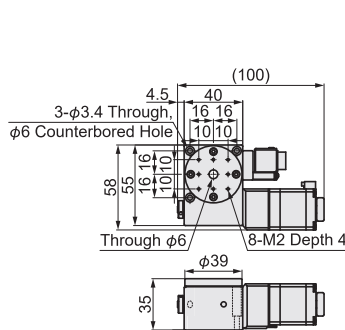
Quantity	1~3	4~5	6~
Discount	Unit Price	15%	30%



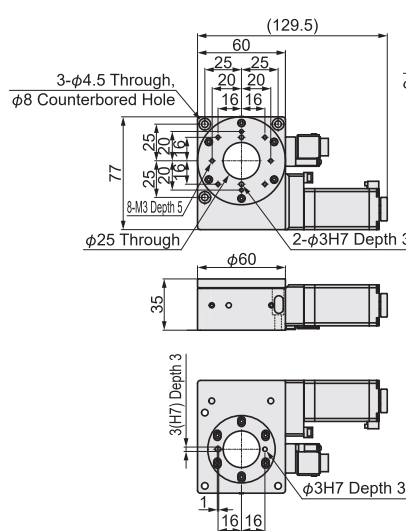
Shipping days may differ by Quantity.  
Quantity of volume discount above is for representative Part No. It may differ by the Part.

Material	Surface Treatment
Aluminum alloy	Black Anodized

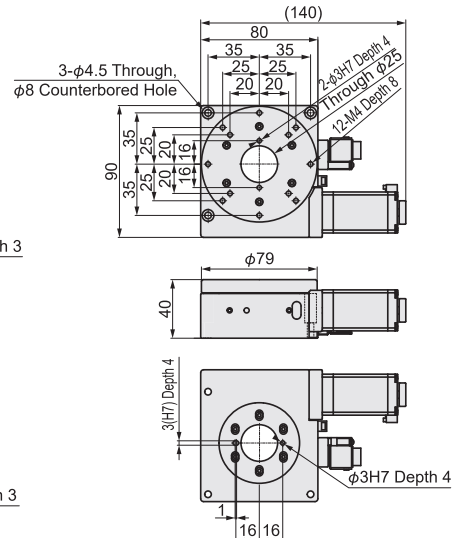
E-RMPG40



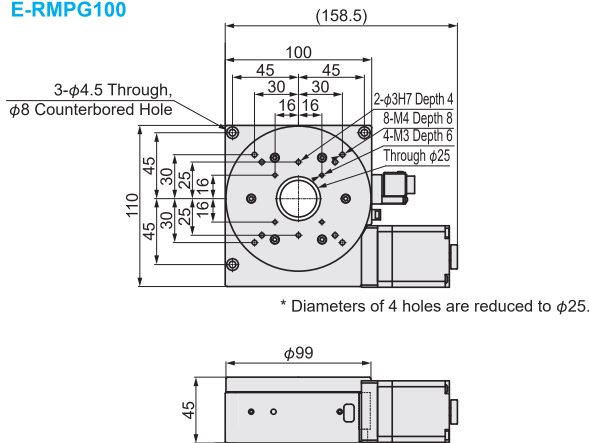
E-RMPG60



E-RMPG80

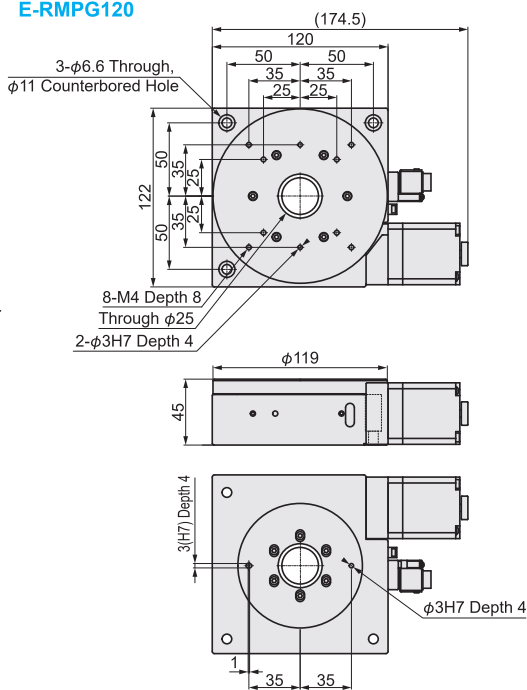


E-RMPG100



\* Diameters of 4 holes are reduced to φ25.

E-RMPG120



\* This positioning stage is suitable for large angle and 360° continuous rotation.

9 Locating Pins / Bushings / Clamping Screws / Positioning Stages

Locating Pins

P.745

Bushings for Locating Pins

P.749

Adjusting Bolts

P.753

Clamp Screws

P.760

Urethane Pushers

P.763

Micrometer Heads

P.767

Motorized Positioning Stages

P.769

How to search on website



By Type

Search on MISUMI official website

E-RMPG



By Keyword

Step 1 Search on MISUMI official website

rotary stage



Step 2 Select MISUMI economy series brand

MISUMI



MISUMI economy

Part Number		3 Driver	4 Cable	Mechanical Specification					Accuracy Specification			Sensor	
1 Type	2 No.			Stage Surface (mm)	Travel Distance (°)	Load Capacity (N)	Weight (kg)	Maximum Speed (°/sec)	One-Way Positioning Accuracy	Repetitive Positioning Accuracy	Parallelism (μm)	Limit Sensor	Origin Sensor (ORG1)
E-RMPG	40	A	2 (2m cable)	φ39	360	29.4	0.5	25	Within 0.15°	Within ±0.08°	Within 50	None	Provided
	60			φ60		39.2	0.9	15					
	80			φ79		39.2	1.1	15					
	100		4 (4m cable)	φ99		196	1.9	25					
	120			φ119		196	2.2	25					



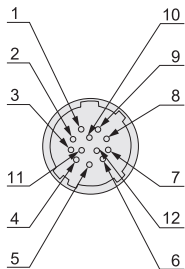
Please order after selecting part number and parameters according to the selection steps 1 to 4.

Part Number (1 Type · 2 No.) - 3 Driver - 4 Cable  
**E-RMPG40 - A - 2**

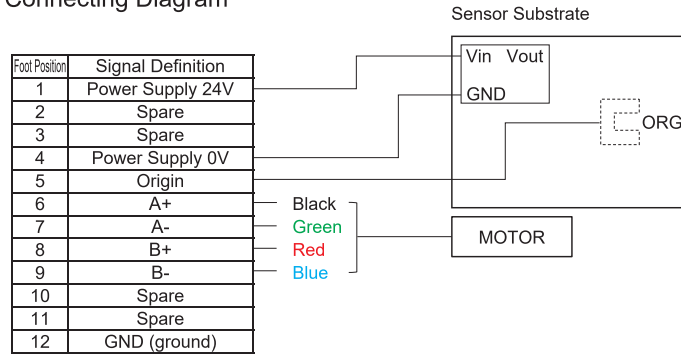
### Specification Table

No.	40	60	80	100	120
Reduction ratio	1/120	1/180	1/180	1/120	1/120
Bearing	Deep groove ball bearing				
Motor	Type	2-Phase Standard Stepper Motor 1.3A / Phase	2-Phase High Torque Stepper Motor 1.3A / Phase	2-Phase Standard Stepper Motor 2.0A / Phase	2-Phase Standard Stepper Motor 2.0A / Phase
	Step Angle	1.8°			
Resolution (Pulse) Full	≈0.015°	≈0.01°	≈0.01°	≈0.015°	≈0.015°
Driver	Power Voltage	DC12~50V			
	Output Current	0.1~2.2A			
	Pulse Signal Voltage	5~24V			
	Subdivision	200~51200			
Connector	Part Number	HR10A-10R-12P (HIROSE)			
	Receiving Side Part Number	HR10A-10P-12S (HIROSE)			
Sensor Substrate	Limit Sensor	None			
	Origin Sensor	Provided			
	Power Voltage	DC24V±10%			
	Sensor Type	Photomicro Sensor EE-SX4320 (OMRON)			
	Control Output	NPN Open Collector Output			
Output Logic	When detecting (shading): output transistor OFF (non-conductive)				

### Connector Pin Configuration



### Connecting Diagram



### MISUMI contact

Tel: 038-959200 or 1382  
 Email: cs@misumi.co.th

### MISUMI WEB "Chat"



### Install MISUMI APP



9

Locating Pins / Bushings / Clamping Screws / Positioning Stages

Locating Pins

P.745

Bushings for Locating Pins P.749

Adjusting Bolts

P.753

Clamp Screws

P.760

Urethane Pushers

P.763

Micrometer Heads

P.767

Motorized Positioning Stages P.769

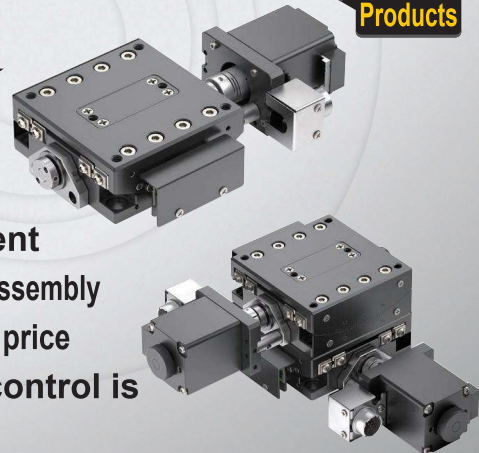
## Economy Series Motorized Goniometer Stages

### Ball Screw Type

vs Standard Type

Saving  
up to  
**51%**

New  
Products



- ✓ Suitable for small angle frequent adjustment
- ✓ Positioning holes provided for quick disassembly and assembly
- ✓ Localized production, simplified structure, and low price
- ✓ 2-Pulse (CW/CCW) and 1-Pulse(Step/Dir) control is available to meet multiple applications

A type of motorized positioning stage that performs circular motion (plane angle adjustment) along the center of rotation directly above the stage. It features the same rotation angle and radius when locked at any position in the stage plane.

### About Travel Distance and Constant Speed

The linear drive of a ball screw is converted to rotary motion by bearings in the positioning stage. (The travel distance of the ball screw is inconsistent with the travel angle of the stage because linear motion has been converted to rotary motion.) As a result, the resolution of each pulse is different between the stroke center and the stroke end. The rotation speed is not constant even if the pulse signal is sent at a constant speed.

### Travel Distance Calculation Formula

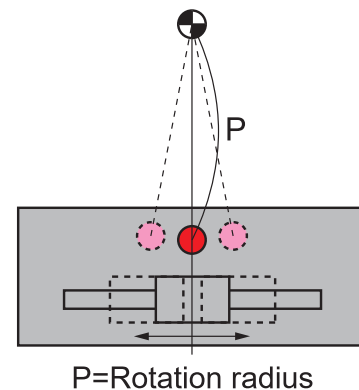
\*A calculation formula based on the stroke center.

- ① Travel angle =  $\arcsin((\text{input pulse} \times X)/P)$
- ② Input pulse =  $P \times \sin(\text{travel angle})/X$

### Meaning of formula parameters and calculation example:

Definition	Value	Unit
Rotation radius P*	55	mm
Ball screw lead	1	mm
Motor basic step angle	1.8	°
Ball screw travel distance per pulse X	0.0025	mm

\* The radius of rotation varies with the positioning stage.



### Basic specification

Part Number	Motor basic step angle	Rotation radius P
<a href="#">E-GMPBG60-50</a>	1.8°	55
<a href="#">E-GMPBG60-75</a>		80
<a href="#">E-GMPBG60-100</a>		105
<a href="#">E-GMPBG60-125</a>		130

9

Locating Pins / Bushings / Clamping Screws / Positioning Stages

Locating Pins

P.745

Bushings for Locating Pins

P.749

Adjusting Bolts

P.753

Clamp Screws

P.760

Urethane Pushers

P.763

Micrometer Heads

P.767

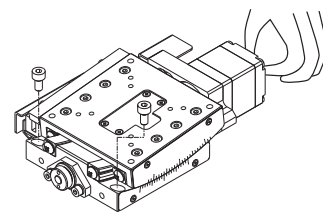
Motorized Positioning Stages

P.769

## ▽ Installation method

When the upper plate is slid to CW or CCW side, 2 counterbored holes are visible (4 holes in total). When a sine motion stage is driven through the controller, the limit sensor works, but there is no guarantee for the detection of mounting holes. Be sure to manually expose the mounting holes and secure with the supplied bolts.

Please pay attention to the above instructions. **[Reference standard of flatness: 10 $\mu$ m or less]**



## ▽ About objects mounted on the top / bottom of the stage

If an object with an uneven surface is mounted or the stage is mounted on an uneven surface, the stage surface may be deformed and accuracy may be affected.

Please pay attention to the above instructions. **[Reference standard of flatness: 10 $\mu$ m or less]**

## ▽ About installation posture of positioning stage

The horizontal installation of the stage is a prerequisite for the performance parameters of each product.

Be careful when using a product that is mounted upside down, to the side (vertically or horizontally), or in any posture other than on a level surface.

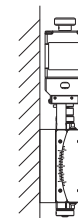
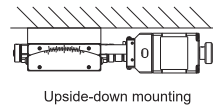
The load capacity and accuracy may vary greatly with the installation posture.

For Product Features by Posture information, please refer to below table:

### ▼ Table of Product Features by Posture

Part Number	Movable guide (feeding method)	Upside-down use	Side (horizontal) use	Side (vertical) use
E-GMPG E-GMPWG	Cross roller (ball screw)	○	○	○

○ Usable, with restrictions on load and torque.



## ■ About Swing Accuracy and Height of Rotation Center

Our cross roller type goniometer stages have a very small swing around the center of rotation and high accuracy.

### ▽ Swing accuracy of rotation center

Place a steel ball at the height of the center of rotation (the actual center of rotation, not the theoretical point in the design), and use the amount of swing (X.Y.Z) of the ball during the full stroke movement as the swing accuracy of the rotation center.

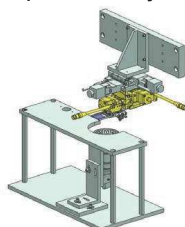
### ▽ Height of rotation center (interval between workpieces)

The height of rotation center is the distance between the top of the stage and the center of the steel ball of the guide.

## Usage difference between economy series and standard product

### MISUMI standard product

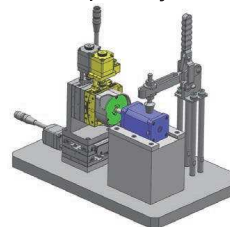
Suitable for applications requiring high precision such as precise adjustment



Equipment name: Workpiece Assembly Posture Fine-Adjustment Device

### MISUMI Economy series

Suitable for applications not requiring high precision such as simple adjustment



Equipment name: Motor Installation Error Simulation Testing Machine

6

Locating Pins / Bushings / Clamping Screws / Positioning Stages

Locating Pins

P.745

Bushings for Locating Pins P.749

Adjusting Bolts

P.753

Clamp Screws

P.760

Urethane Pushers

P.763

Micrometer Heads

P.767

Motorized Positioning Stages

P.769

New Products



Representative model: E-GMPG60-50-L-A-2

Save Up to **51%** vs Standard Type

**34,962 THB**

Shipping from **11 days**

Volume Discount

Quantity	1~3	4~5	6~
Discount	Unit Price	15%	30%



Shipping days may differ by Quantity.  
Quantity of volume discount above is for representative Part No. It may differ by the Part.

Material	Surface Treatment
Aluminum alloy	Black Anodized

9  
Locating Pins / Bushings / Clamping Screws / Positioning Stages

Locating Pins

P.745

Bushings for Locating Pins

P.749

Adjusting Bolts

P.753

Clamp Screws

P.760

Urethane Pushers

P.763

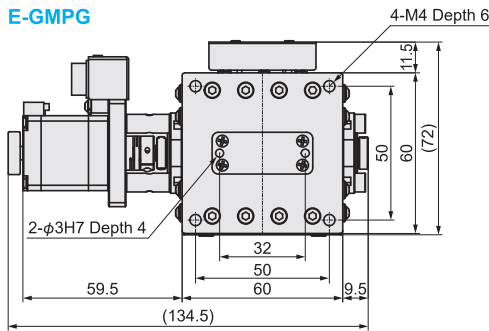
Micrometer Heads

P.767

Motorized Positioning Stages

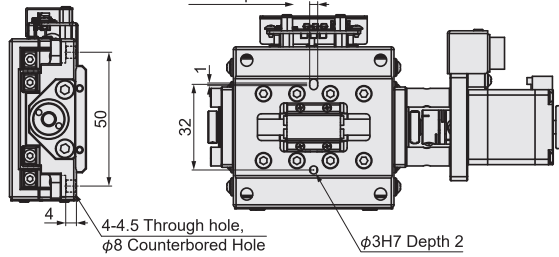
P.769

E-GMPG



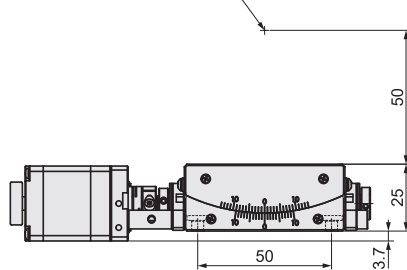
E-GMPG60-50

3H7 Depth 3



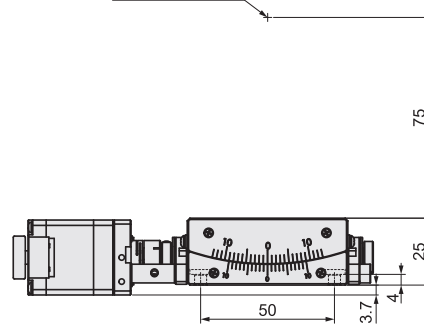
E-GMPG60-75

Center of Rotation



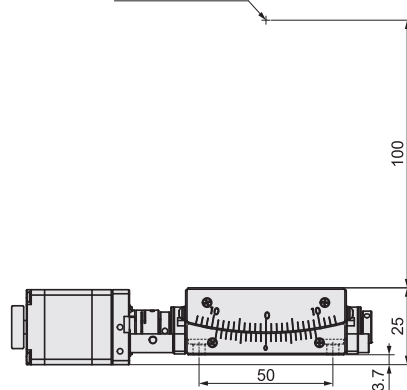
E-GMPG60-100

Center of Rotation

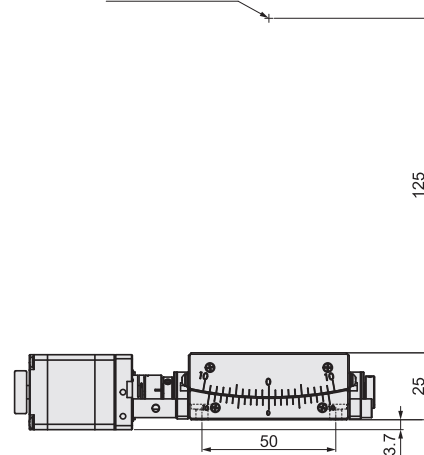


E-GMPG60-125

Center of Rotation



Center of Rotation



How to search on website



By Type: Search on MISUMI official website  
**E-GMPG**

By Keyword: Step 1 Search on MISUMI official website  
**goniometer stage**

Step 2 Select MISUMI economy series brand

MISUMI  MISUMI economy

Part Number		3 Sensor Position	4 Driver	5 Cable	Mechanical Specification					Accuracy Specification		Sensor		
1 Type	2 No.				Stage Surface (mm)	Travel Distance (°)	Load Capacity (N)	Height of Rotation Center (mm)	Weight (kg)	Maximum Speed (°/sec)	One-Way Positioning Accuracy	Repetitive Positioning Accuracy	Limit Sensor	Origin Sensor (ORG1)
E-GMPG	60-50	L (forward) R (reverse)	A	2 (2m cable) 4 (4m cable)	60×60	±9	49	50±0.2	0.5	10.5	Within 0.08°	Within ±0.01°	Provided	Provided
	60-75					±5.5		75±0.2		7				
	60-100					±5		100±0.2		5.5				
	60-125					±4		125±0.2		4.5				

**Ordering Example**

Please order after selecting part number and parameters according to the selection steps 1 to 5.

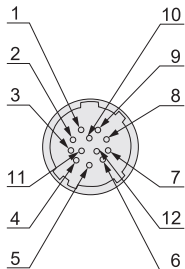
Part Number (1 Type · 2 No.) - 3 Sensor Position - 4 Driver - 5 Cable  
**E-GMPG60-50 - L - A - 2**

\* The position of the sensor cover is L in the figure above.

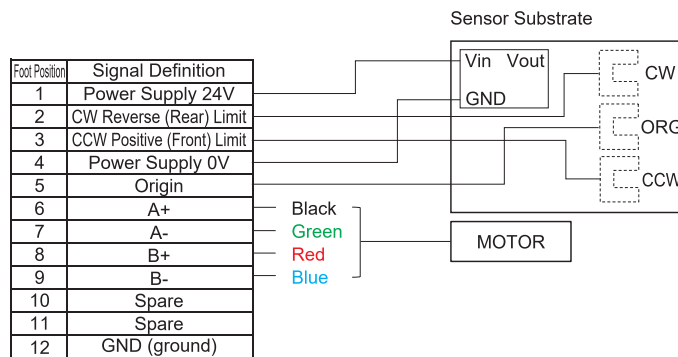
### Specification Table

No.	60-50	60-75	60-100	60-125
<b>Feed Screw</b>	Ball Screw φ6, Lead 1mm			
<b>Guide</b>	Curved cross roller guide			
<b>Motor</b>	<b>Type</b> 2-Phase Stepper Motor 1.3A / Phase			
	<b>Step Angle</b> 1.8°			
<b>Resolution (Pulse) Full</b>	≈0.0052°	≈0.0036°	≈0.0027°	≈0.0022°
<b>Driver</b>	<b>Power Voltage</b> DC12~50V			
	<b>Output Current</b> 0.1~2.2A			
	<b>Pulse Signal Voltage</b> 5~24V			
	<b>Subdivision</b> 200~51200			
<b>Connector</b>	<b>Part Number</b> HR10A-10R-12P (HIROSE)			
	<b>Receiving Side Part Number</b> HR10A-10P-12S (HIROSE)			
<b>Sensor Substrate</b>	<b>Limit Sensor</b> Provided			
	<b>Origin Sensor</b> Provided			
	<b>Power Voltage</b> DC24V±10%			
	<b>Sensor Type</b> Photomicro Sensor EE-SX4320 (OMRON)			
	<b>Control Output</b> NPN Open Collector Output			
	<b>Output Logic</b> When detecting (shading): output transistor OFF (non-conductive)			

### Connector Pin Configuration



### Connecting Diagram



### MISUMI contact

Tel: 038-959200 or 1382  
 Email: cs@misumi.co.th

### MISUMI WEB "Chat"



### Install MISUMI APP



9

Locating Pins / Bushings / Clamping Screws / Positioning Stages

Locating Pins

P.745

Bushings for Locating Pins P.749

Adjusting Bolts

P.753

Clamp Screws

P.760

Urethane Pushers

P.763

Micrometer Heads

P.767

Motorized Positioning Stages P.769

New Products



Representative model: E-GMPWG60-50-L-A-2

Save Up to **51%** vs Standard Type

**69,917 THB**

Shipping from **11 days**

Volume Discount

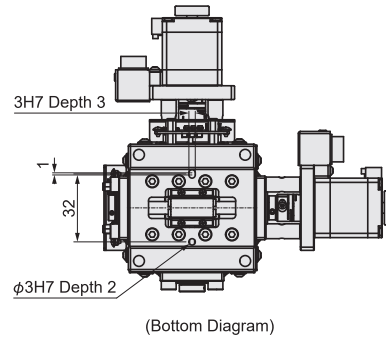
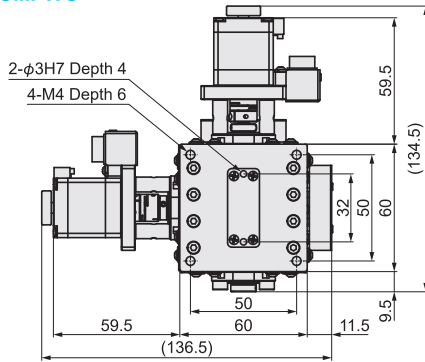
Quantity	1~3	4~5	6~
Discount	Unit Price	15%	30%



Shipping days may differ by Quantity.  
Quantity of volume discount above is for representative Part No. It may differ by the Part.

Material	Surface Treatment
Aluminum alloy	Black Anodized

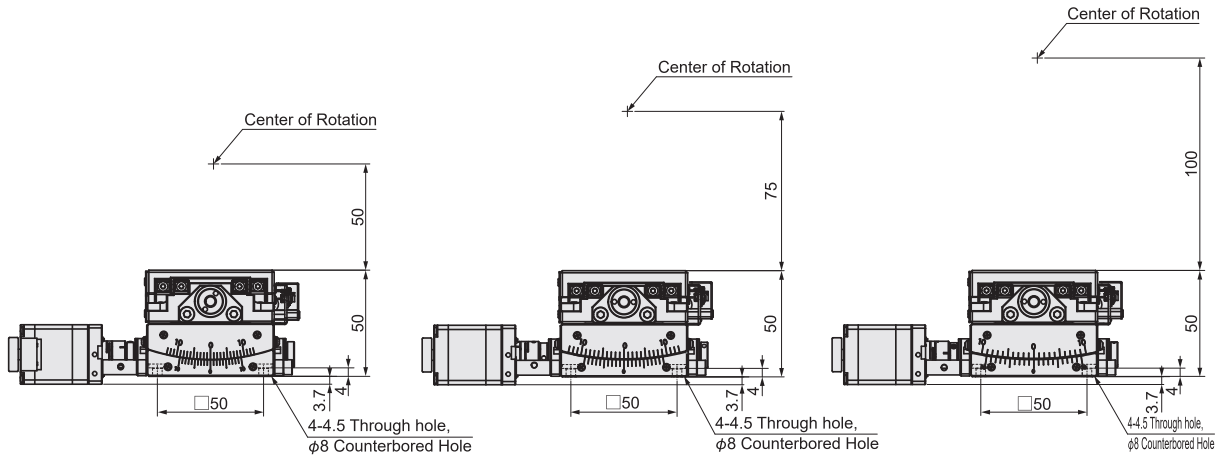
**E-GMPWG**



**E-GMPWG60-50**

**E-GMPWG60-75**

**E-GMPWG60-100**



Part Number						Mechanical Specification					Accuracy Specification	
	1 Type	2 No.	3 Sensor Position	4 Driver	5 Cable	Stage Surface (mm)	Travel Distance (°) Upper / Lower Axis	Load Capacity (N)	Height of Rotation Center (mm)	Weight (kg)	Maximum Speed (°/sec) Upper / Lower Axis	One-Way Positioning Accuracy
<b>E-GMPWG</b>	60-50	L (forward) R (reverse)	A	2 (2m cable) 4 (4m cable)	60×60	±9°/±5.5°	49	50±0.2	1.0	10.5/7	Within 0.08°	Within ±0.01°
	60-75					±5.5°/±5°		75±0.2		7/5.5		
	60-100					±5°/±4°		100±0.2		5.5/4.5		

Ordering Example

Please order after selecting part number and parameters according to the selection steps 1 to 5.

Part Number (1 Type · 2 No.) - 3 Sensor Position - 4 Driver - 5 Cable  
**E-GMPWG60-50 - L - A - 2**

\* The position of the sensor cover is L in the figure above.

9  
Locating Pins / Bushings / Clamping Screws / Positioning Stages

Locating Pins

P.745  
Bushings for Locating Pins  
P.749

Adjusting Bolts

P.753

Clamp Screws

P.760

Urethane Pushers

P.763

Micrometer Heads

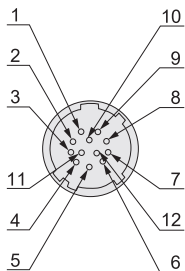
P.767

Motorized Positioning Stages  
P.769

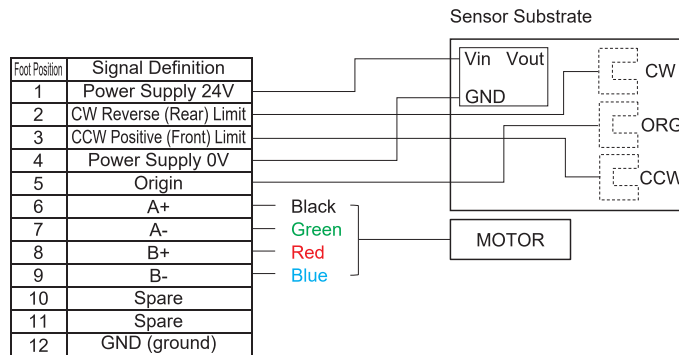
Specification Table

No.		60-50	60-75	60-100
Feed Screw		Ball Screw $\phi 6$ , Lead 1mm		
Guide		Curved cross roller guide		
Motor	Type	2-Phase Stepper Motor 1.3A / Phase		
	Step Angle	1.8°		
Resolution (Pulse)	Upper axis	$\approx 0.0052^\circ$	$\approx 0.0036^\circ$	$\approx 0.0027^\circ$
	Lower axis	$\approx 0.0036^\circ$	$\approx 0.0027^\circ$	$\approx 0.0022^\circ$
Driver	Power Voltage	DC12~50V		
	Output Current	0.1~2.2A		
	Pulse Signal Voltage	5~24V		
	Subdivision	200~51200		
Connector	Part Number	HR10A-10R-12P (HIROSE)		
	Receiving Side Part Number	HR10A-10P-12S (HIROSE)		
Sensor Substrate	Limit Sensor	Provided		
	Origin Sensor	Provided		
	Power Voltage	DC24V $\pm$ 10%		
	Sensor Type	Photomicro Sensor EE-SX4320 (OMRON)		
	Control Output	NPN Open Collector Output		
	Output Logic	When detecting (shading): output transistor OFF (non-conductive)		

Connector Pin Configuration



Connecting Diagram



9  
Locating Pins / Bushings / Clamping Screws / Positioning Stages  
Locating Pins  
P.745  
Bushings for Locating Pins  
P.749  
Adjusting Bolts  
P.753  
Clamp Screws  
P.760  
Urethane Pushers  
P.763  
Micrometer Heads  
P.767  
Motorized Positioning Stages  
P.769

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