

# Single Axis Robot / Actuator Product List

## LX Series

P407~P452  
Standard Type



Lubrication Unit MX-equipped



Motor Folded



High Rigidity / High Precision / Compact  
Compatible to various motors and 3rd day shipping  
challenging to standard lead time in the industry.



### Features

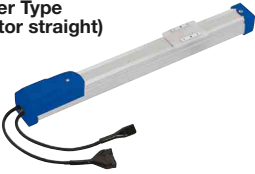
- High rigidity steel base and rust resistant low temp. black chrome plating.
- Preloaded precision ground ball screws enable low noise and high precision performance.
- Repeatability:  $\pm 5\mu\text{m}$ . (Precision Grade  $\pm 3\mu\text{m}$ )
- Large Lead Type and Low Particle Generation Grease Compatible Type are also available.
- Accuracy Certificates are enclosed with precision grade products.
- Mitsubishi Electric- and Oriental Motor-manufactured motor-mounted type are lined up.
- Lubrication Units provide long term maintenance-free operation.

### Specifications

Type	Lead (mm)	Screw Shaft Dia.	Maximum Effective Stroke (mm)
LX15	2	$\varnothing 5$	151.9
LX20	1/5	$\varnothing 6$	236.5
LX26	2/5/10	$\varnothing 8$	317
LX30	5/10	$\varnothing 10$	529.5
LX45	10/20	$\varnothing 15$	497.9

## RS Series

P453~P508  
Slider Type  
(Motor straight)



Slider Type  
(Motor Folded)



Large / Heavy Load  
Slider Type



Rod Type



Expanded the lineup of RS Series Single Axis Robot!!  
From Small / Economical Robot type to High Rigidity / High Precision type,  
extensive range of products.

**RS**  
SINGLE AXIS ROBOT

### Features

- Slider, rod, motor and etc. integrated actuator, easy operation controller and cables are all in a set.
- No need for complex robot language programming.
- Easy positioning operations by point data entry and I/O signals from a controller.
- Serial communication functions for write and read point data possible.

### Specifications

Item	Slider Type			
	Small / Economical Robot RS1, 2, 3 Series	Large / Heavy Load Robot RSH1, 2, 3, 4, 5 Series	Large / Heavy Load Robots Width Space-saving RSF4 Series	High Speed Belt Driven RSB1 / RSB2 Series
Load Capacity	Horizontal: ~ 12kg / Vertical: ~ 4kg	Horizontal: ~ 80kg / Vertical: ~ 20kg	Horizontal: ~ 80kg / Vertical: ~ 20kg	Horizontal: ~ 20kg / Vertical: ~ kg
Stroke	50 ~ 800mm (50mm increments)	150 ~ 1050mm (50mm increments)	150 ~ 1050mm (50mm increments)	150 ~ 3050mm (50mm increments)
Max. Velocity	~ 1000mm/sec	~ 1800mm/sec	~ 1800mm/sec	~ 1875mm/sec
Repeatability	$\pm 0.02\text{mm}$	$\pm 0.02\text{mm}/\pm 0.01\text{mm}$	$\pm 0.01\text{mm}$	$\pm 0.04\text{mm}$

Item	Rod Type	
	Small / Economical Robot RSD1, 2, 3 Series	Small / Economical Robot With Support Guide RSDG1, 2, 3 Series
Load Capacity	Horizontal: ~ 60kg / Vertical: ~ 30kg	Horizontal: ~ 60kg / Vertical: ~ 28.5kg
Stroke	50 ~ 300mm (50mm increments)	50 ~ 300mm (50mm increments)
Max. Velocity	~ 500mm/sec	~ 500mm/sec
Repeatability	$\pm 0.02\text{mm}$	$\pm 0.02\text{mm}$

## KU Series

P509~P516

Single Axis Units



Best suited for positioning heavy loads. The total cost is just about the same as the total of the components.

### Features

- Frequently used in-house built mechanisms are standardized.
- Dedicated aluminum extrusion bases and Linear Guides support heavy loads.
- 150 and 200mm-wide Tables support large workpieces.
- For Single Axis Units, rolled and precision ball screws are selectable.

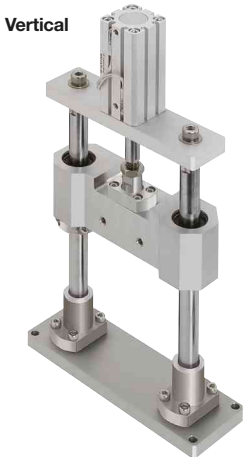
### Specifications

Type	KUA, KUB, KUH, KUT	KUAC, KUBC, KUHC, KUTC
Applications	Positioning of Heavy Loads, Multi Point Positioning	
Type	Std.	Dust / Splash Proof
Name	Single Axis Units	Single Axis Unit Cover
Drive Source	AC Servo / Stepping Motor	
Drive Section	Precision / Rolled Ball Screw	Rolled Ball Screw

## MA Series

P517

Vertical



Pneumatically driven end-point positioning for simple transfers.  
Cost effective - costs 20% less than the total of individual parts

### Features

- Air cylinder driven horizontal / vertical Integrated Motion Units.
- Units combined with MISUMI standard products save the trouble of designing and building.
- With or without cylinder is selectable. (Applicable to cylinders from other manufacturers.)

Mounting Orientation

Vertical Type: Vertical mounting. Slider components can be mounted on either of 3 surfaces.

### Specifications

Unit Configuration	Cylinder Dia.	Cylinder Stroke (mm)	Reference Thrust Force (kN)			
			0.4MPa		0.5MPa	
Vertical MAT	$\varnothing 25$	30, 50	0.15	0.2	0.19	0.25
	$\varnothing 32$	30, 50	0.24	0.32	0.3	0.4
	$\varnothing 40$	30, 50	0.42	0.50	0.53	0.63
	$\varnothing 50$	30, 50	0.66	0.79	0.82	0.98
	$\varnothing 63$	30, 50	1.12	1.25	1.40	1.56