



Single Axis Electric Actuator Series **LJ1H** High Rigidity Direct Acting Guide

| Series | Motor type | Guide type | Mounting orientation | Model | Lead screw lead mm | | | Page |
|--------|--------------------|-----------------------------------|----------------------|--------|--------------------|-------------------|-------------|------|
| | | | | | Ground ball screw | Rolled ball screw | Slide screw | |
| LJ1H | Standard motor | High rigidity direct acting guide | Horizontal | LJ1H10 | 12 | 12 | 20 | 2 |
| | | | | LJ1H20 | 10 20 | 10 20 | 20 | 8 |
| | | | | LJ1H30 | 25 | 25 | 40 | 18 |
| | | | Vertical | LJ1H10 | 8 12 | 8 12 | | 24 |
| | | | | LJ1H20 | 5 10 | 5 10 | | 32 |
| | | | | LJ1H30 | 10 | 10 | | 40 |
| | Non-standard motor | High rigidity direct acting guide | Horizontal | LJ1H10 | 12 | 12 | 20 | 44 |
| | | | | LJ1H20 | 10 20 | 10 20 | 20 | 50 |
| | | | | LJ1H30 | 25 | 25 | 40 | 60 |
| | | | Vertical | LJ1H10 | 8 12 | 8 12 | | 66 |
| | | | | LJ1H20 | 5 10 | 5 10 | | 74 |
| | | | | LJ1H30 | 10 | 10 | | 82 |

LJ1
LG1
LC1
LX
LC6D/LC6C
Switches

- Options ————— Page 100
 - Made to Order ————— 101
 - Clean room specification ————— 104
 - Dust seal specification ————— 110
 - TSUBAKI CABLEVEYOR specification ————— 122
- Construction ————— 134
- Mounting ————— 140
- Non-standard Motor Mounting ————— 143
- Deflection Data ————— 145

Part Number Designations

LJ1 H 10 G 1 1 N B - 100 - F W - X10

Guide type

H High rigidity direct acting guide

Series

- 10 Series 10
- 20 Series 20
- 30 Series 30

Motor specification

| | |
|----------|--|
| N | Standard motor |
| G | Matsushita Electric Industrial Co., Ltd. |
| R | Mitsubishi Electric Corporation |
| Y | Yaskawa Electric Corporation |

Motor output

| | |
|---|------|
| 1 | 50W |
| 2 | 100W |
| 3 | 200W |

Power supply voltage

| | |
|---|--------------------|
| 1 | 100/110VAC 50/60Hz |
| 2 | 100/115VAC 50/60Hz |
| 2 | 200/220VAC 50/60Hz |
| 2 | 200/230VAC 50/60Hz |
| 0 | Without motor |

Lead screw type

| | |
|----------|-------------------|
| P | Ground ball screw |
| N | Rolled ball screw |
| S | Slide screw |

Stroke

| | |
|----------|------|
| H | 8mm |
| B | 12mm |
| C | 20mm |
| F | 5mm |
| A | 10mm |
| D | 25mm |
| E | 40mm |

Lead screw lead

| | |
|----------|------|
| H | 8mm |
| B | 12mm |
| C | 20mm |
| F | 5mm |
| A | 10mm |
| D | 25mm |
| E | 40mm |

Brake

| | |
|----------|------------|
| N | None |
| K | With brake |

Cable entry direction

| | |
|----------|--------|
| F | Axial |
| R | Right |
| L | Left |
| T | Top |
| B | Bottom |

Limit switch

| | |
|------------|--------------------------------|
| Nil | None |
| W | B contact specification 2 pcs. |

Cable length

| | |
|---|----|
| 2 | 2m |
| 3 | 3m |
| 4 | 4m |
| 5 | 5m |

X10 Non-standard motor

The tables above show the definition for each symbol only and cannot be used for actual model selection.

Standard Motor

Horizontal Mount

Series LJ1H10

Motor Output
50W

High Rigidity
Direct Acting
Guide

Ground Ball Screw
ø12mm/12mm lead

How to Order

LJ1H101 1 PB Stroke F 2

Power supply voltage

| | |
|---|----------------------|
| 1 | 100/110VAC (50/60Hz) |
| 2 | 200/220VAC (50/60Hz) |

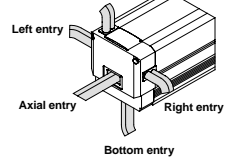
Cable entry direction

| | |
|---|--------|
| F | Axial |
| R | Right |
| L | Left |
| T | Top |
| B | Bottom |

Cable length

| | |
|---|----|
| 2 | 2m |
| 3 | 3m |
| 4 | 4m |
| 5 | 5m |

Cable entry direction



Specifications

| | | Standard stroke | mm | 100 | 200 | 300 | 400 | 500 | |
|--------------------|-----------------------------|---|--------------------------------|-----|-----|-----|-----|-----|--|
| Performance | Body weight | kg | 5.2 | 6.0 | 6.8 | 7.5 | 8.3 | | |
| | Operating temperature range | °C | 5 to 40 (with no condensation) | | | | | | |
| | Work load | kg | 10 | | | | | | |
| | Rated thrust | N | 74 | | | | | | |
| | Maximum speed | mm/s | 600 | | | | | | |
| | Positioning repeatability | mm | ±0.02 | | | | | | |
| Main parts | Motor | AC servomotor (50W) | | | | | | | |
| | Encoder | Incremental system | | | | | | | |
| | Lead screw | Ground ball screw ø12mm, 12mm lead | | | | | | | |
| | Guide | High rigidity direct acting guide | | | | | | | |
| | Motor/Screw connection | With coupling | | | | | | | |
| Controller | Model | LC1-1B1H□□□□ (Refer to page 185 for details.) | | | | | | | |

Intermediate strokes

For manufacture of strokes other than the standard strokes on the left, add "-X2" at the end of the part number.
Applicable strokes: 150, 250, 350, 450
Example) LJ1H101PB-150-F2-X2

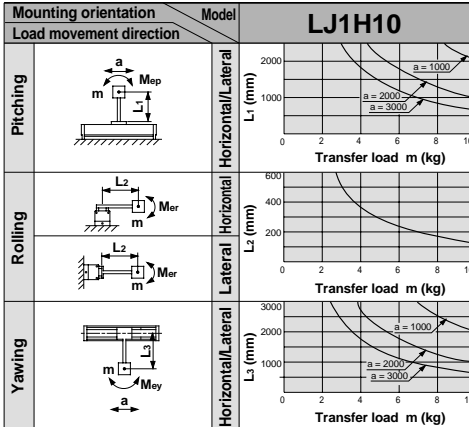
Allowable Moment (N·m)

Allowable static moment

| | |
|-----------------|------|
| Pitching | 10.2 |
| Rolling | 12.8 |
| Yawing | 10.2 |

m : Transfer load (kg)
a : Work piece acceleration (mm/s²)
Me: Dynamic moment
L : Overhang to work piece center of gravity (mm)

Allowable dynamic moment

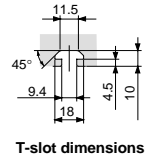
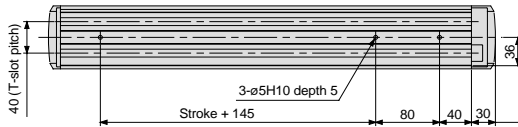
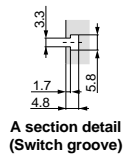
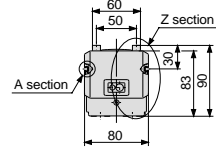
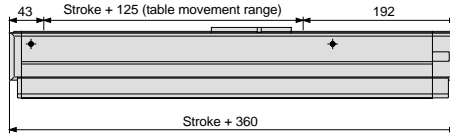
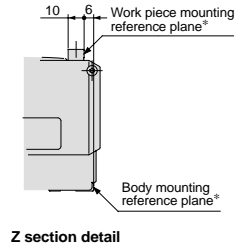
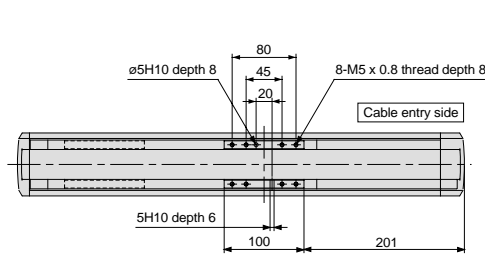


Refer to page 145 for deflection data.

Standard Motor/Horizontal Mount Specification *Series LJ1H10*

Dimensions/LJ1H10□PB

Scale: 15%

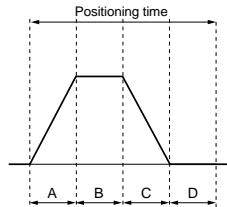


* The body mounting reference plane and work piece mounting reference plane should be used as standards when mounting onto equipment. Refer to pages starting with 140 for mounting.

Positioning Time Guide

| | | Positioning time (sec.) | | | | |
|--------------|-----|-------------------------|-----|------|------|------|
| | | 1 | 10 | 100 | 250 | 500 |
| Speed (mm/s) | 10 | 0.4 | 1.3 | 10.3 | 25.3 | 50.3 |
| | 100 | 0.4 | 0.5 | 1.4 | 2.9 | 5.4 |
| | 300 | 0.4 | 0.5 | 0.8 | 1.3 | 2.1 |
| | 600 | 0.4 | 0.5 | 0.7 | 1.0 | 1.4 |

* Values will vary slightly depending on the operating conditions.



A: Acceleration time
 B: Constant velocity time
 C: Deceleration time
 D: Resting time (0.3sec.)
 Maximum acceleration: 3000mm/s²

LJ1

LG1

LC1

LX

LC6D/LC6C

Switches

Standard Motor
Horizontal Mount

Series LJ1H10

Motor Output
50W

High Rigidity
Direct Acting
Guide

Rolled Ball Screw
ø12mm/12mm lead

How to Order

LJ1H101 **1** **NB** — **Stroke** — **F** **2**

Power supply voltage

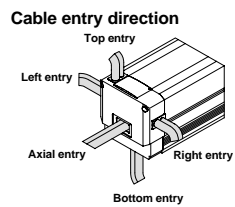
| | |
|---|----------------------|
| 1 | 100/110VAC (50/60Hz) |
| 2 | 200/220VAC (50/60Hz) |

Cable entry direction

| | |
|---|--------|
| F | Axial |
| R | Right |
| L | Left |
| T | Top |
| B | Bottom |

Cable length

| | |
|---|----|
| 2 | 2m |
| 3 | 3m |
| 4 | 4m |
| 5 | 5m |



Specifications

| | | Standard stroke | mm | 100 | 200 | 300 | 400 | 500 | |
|--------------------|-----------------------------|-----------------|---|-------|-----|-----|-----|-----|--|
| Performance | Body weight | kg | | 5.2 | 6.0 | 6.8 | 7.5 | 8.3 | |
| | Operating temperature range | °C | 5 to 40 (with no condensation) | | | | | | |
| | Work load | kg | | 10 | | | | | |
| | Rated thrust | N | | 74 | | | | | |
| | Maximum speed | mm/s | | 600 | | | | | |
| Main parts | Positioning repeatability | mm | | ±0.05 | | | | | |
| | Motor | | AC servomotor (50W) | | | | | | |
| | Encoder | | Incremental system | | | | | | |
| | Lead screw | | Rolled ball screw ø12mm, 12mm lead | | | | | | |
| | Guide | | High rigidity direct acting guide | | | | | | |
| Controller | Motor/Screw connection | | With coupling | | | | | | |
| | Model | | LC1-1B1H□-□□ (Refer to page 185 for details.) | | | | | | |

Intermediate strokes
For manufacture of strokes other than the standard strokes on the left, add "-X2" at the end of the part number.
Applicable strokes: 150, 250, 350, 450
Example) LJ1H1011NB-150-F2-X2

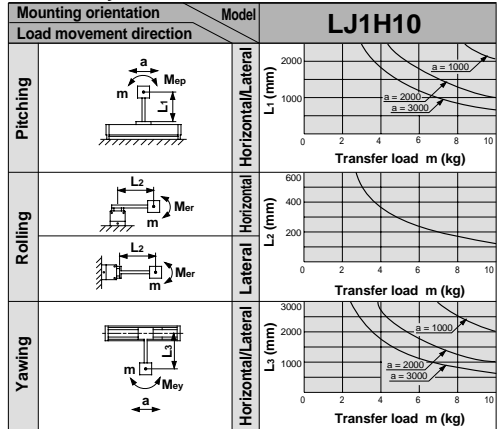
Allowable Moment (N·m)

Allowable static moment

| | |
|----------|------|
| Pitching | 10.2 |
| Rolling | 12.8 |
| Yawing | 10.2 |

m : Transfer load (kg)
a : Work piece acceleration (mm/s²)
Me : Dynamic moment
L : Overhang to work piece center of gravity (mm)

Allowable dynamic moment



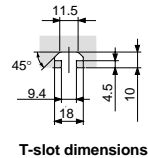
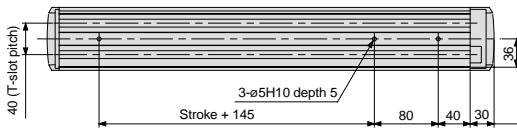
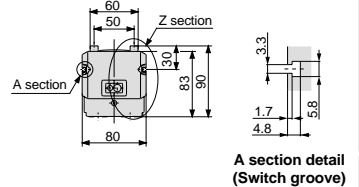
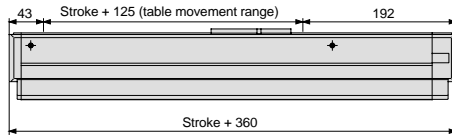
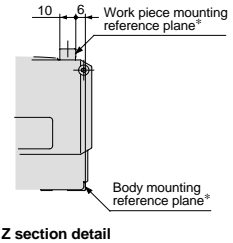
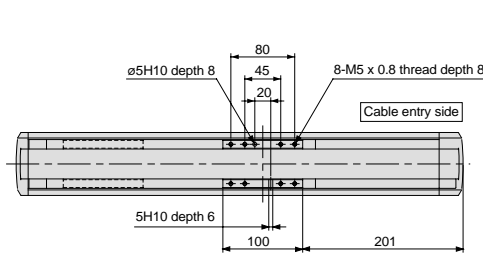
Refer to page 145 for deflection data.



Standard Motor/Horizontal Mount Specification **Series LJ1H10**

Dimensions/LJ1H101□NB

Scale: 15%

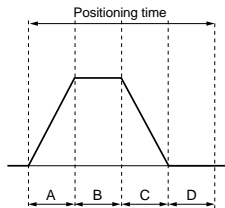


* The body mounting reference plane and work piece mounting reference plane should be used as standards when mounting onto equipment. Refer to pages starting with 140 for mounting.

Positioning Time Guide

| | | Positioning time (sec.) | | | | |
|--------------|-----|-------------------------|-----|------|------|------|
| | | 1 | 10 | 100 | 250 | 500 |
| Speed (mm/s) | 10 | 0.4 | 1.3 | 10.3 | 25.3 | 50.3 |
| | 100 | 0.4 | 0.5 | 1.4 | 2.9 | 5.4 |
| | 300 | 0.4 | 0.5 | 0.8 | 1.3 | 2.1 |
| | 600 | 0.4 | 0.5 | 0.7 | 1.0 | 1.4 |

* Values will vary slightly depending on the operating conditions.



A: Acceleration time
 B: Constant velocity time
 C: Deceleration time
 D: Resting time (0.3sec.)
 Maximum acceleration: 3000mm/s²

LJ1

LG1

LC1

LX

LC6D/LC6C

Switches

Standard Motor
Horizontal Mount

Series LJ1H10

Motor Output
50W

High Rigidity
Direct Acting
Guide

Slide Screw
Ø20mm/20mm lead

How to Order



Power supply voltage

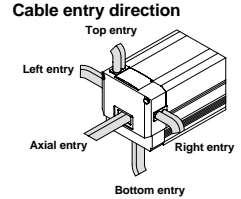
| | |
|---|----------------------|
| 1 | 100/110VAC (50/60Hz) |
| 2 | 200/220VAC (50/60Hz) |

Cable entry direction

| | |
|---|--------|
| F | Axial |
| R | Right |
| L | Left |
| T | Top |
| B | Bottom |

Cable length

| | |
|---|----|
| 2 | 2m |
| 3 | 3m |
| 4 | 4m |
| 5 | 5m |



Specifications

| | | Standard stroke | mm | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |
|--------------------|-----------------------------|---|--------------------------------|-----|-----|-----|-----|-----|-----|------|------|------|------|
| Performance | Body weight | kg | | 5.3 | 6.2 | 7.2 | 8.0 | 8.8 | 9.7 | 10.5 | 11.3 | 12.2 | 13.0 |
| | Operating temperature range | °C | 5 to 40 (with no condensation) | | | | | | | | | | |
| | Work load | kg | 10 | | | | | | | | | | |
| | Rated thrust | N | 24 | | | | | | | | | | |
| | Maximum speed | mm/s | 500 | | | | | | | | | | |
| Main parts | Positioning repeatability | mm | ±0.1 | | | | | | | | | | |
| | Motor | AC servomotor (50W) | | | | | | | | | | | |
| | Encoder | Incremental system | | | | | | | | | | | |
| | Lead screw | Slide screw Ø20mm, 20mm lead | | | | | | | | | | | |
| | Guide | High rigidity direct acting guide | | | | | | | | | | | |
| Controller | Motor/Screw connection | With coupling | | | | | | | | | | | |
| | Model | LC1-1B1M□-□□ (Refer to page 185 for details.) | | | | | | | | | | | |

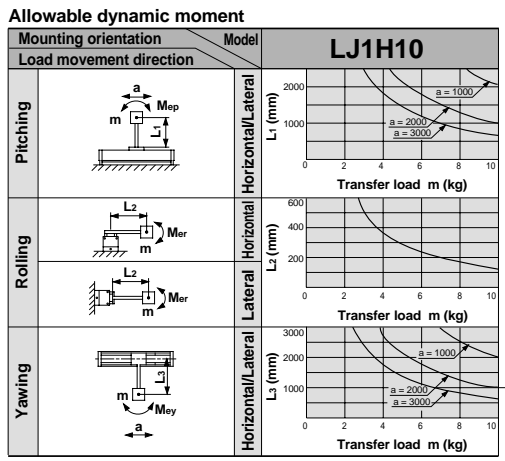
Intermediate strokes
For manufacture of strokes other than the standard strokes above, add "-X2" at the end of the part number.
Applicable strokes: 150, 250, 350, 450, 550, 650, 750, 850, 950
Example) LJ1H1011SC-150-F2-X2

Allowable Moment (N·m)

Allowable static moment

| | |
|-----------------|------|
| Pitching | 10.2 |
| Rolling | 12.8 |
| Yawing | 10.2 |

m : Transfer load (kg)
a : Work piece acceleration (mm/s²)
Me: Dynamic moment
L : Overhang to work piece center of gravity (mm)



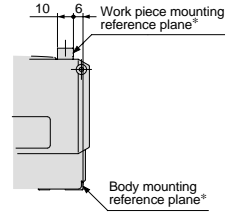
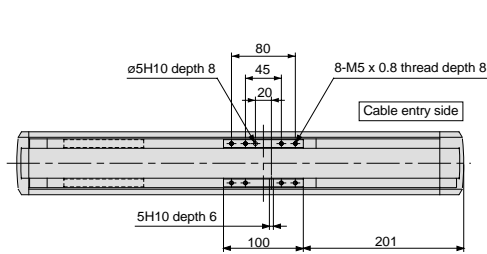
Refer to page 145 for deflection data.



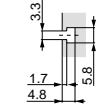
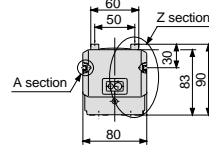
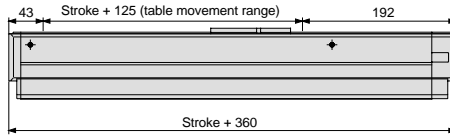
Standard Motor/Horizontal Mount Specification **Series LJ1H10**

Dimensions/LJ1H10□SC

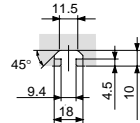
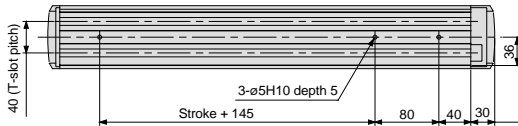
Scale: 15%



Z section detail



A section detail (Switch groove)



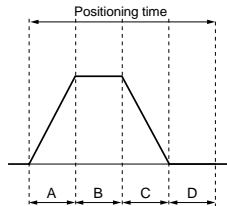
T-slot dimensions

* The body mounting reference plane and work piece mounting reference plane should be used as standards when mounting onto equipment. Refer to pages starting with 140 for mounting.

Positioning Time Guide

| | | Positioning time (sec.) | | | | |
|---------------------------|-----|-------------------------|-----|------|------|-------|
| Positioning distance (mm) | | 1 | 10 | 100 | 500 | 1000 |
| Speed (mm/s) | 10 | 0.5 | 1.4 | 10.4 | 50.4 | 100.4 |
| | 100 | 0.4 | 0.5 | 1.4 | 5.4 | 10.4 |
| | 250 | 0.4 | 0.5 | 0.9 | 2.5 | 4.5 |
| | 500 | 0.4 | 0.5 | 0.8 | 1.6 | 2.6 |

* Values will vary slightly depending on the operating conditions.



A: Acceleration time
 B: Constant velocity time
 C: Deceleration time
 D: Resting time (0.3sec.)
 Maximum acceleration: 2000mm/s²

LJ1

LG1

LC1

LX

LC6D/LC6C

Switches

Standard Motor
Horizontal Mount

Series LJ1H20

Motor Output
100W

High Rigidity
Direct Acting
Guide

Ground Ball Screw
ø15mm/10mm lead

How to Order

LJ1H202 **1** **PA** — Stroke — **F** **2**

Power supply voltage

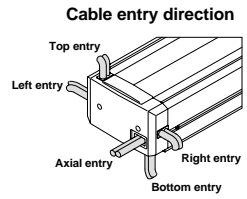
| | |
|---|----------------------|
| 1 | 100/110VAC (50/60Hz) |
| 2 | 200/220VAC (50/60Hz) |

Cable entry direction

| | |
|---|--------|
| F | Axial |
| R | Right |
| L | Left |
| T | Top |
| B | Bottom |

Cable length

| | |
|---|----|
| 2 | 2m |
| 3 | 3m |
| 4 | 4m |
| 5 | 5m |



Specifications

| | Standard stroke | mm | 100 | 200 | 300 | 400 | 500 | 600 |
|-------------|-----------------------------|------|---|-----|------|------|------|------|
| Performance | Body weight | kg | 7.7 | 8.9 | 10.1 | 11.2 | 12.6 | 13.7 |
| | Operating temperature range | °C | 5 to 40 (with no condensation) | | | | | |
| | Work load | kg | 30 | | | | | |
| | Rated thrust | N | 180 | | | | | |
| | Maximum speed | mm/s | 500 | | | | | |
| | Positioning repeatability | mm | ±0.02 | | | | | |
| Main parts | Motor | | AC servomotor (100W) | | | | | |
| | Encoder | | Incremental system | | | | | |
| | Lead screw | | Ground ball screw ø15mm, 10mm lead | | | | | |
| | Guide | | High rigidity direct acting guide | | | | | |
| | Motor/Screw connection | | With coupling | | | | | |
| Controller | Model | | LC1-1B2H□□□□ (Refer to page 185 for details.) | | | | | |

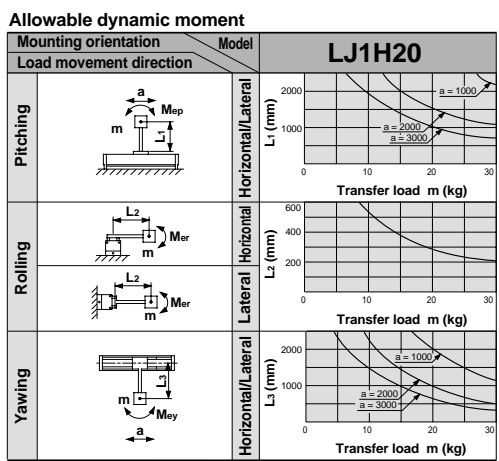
Intermediate strokes
For manufacture of strokes other than the standard strokes on the left, add "-X2" at the end of the part number.
Applicable strokes: 150, 250, 350, 450, 550
Example) **LJ1H2021PA-150-F2-X2**

Allowable Moment (N·m)

Allowable static moment

| | |
|----------|----|
| Pitching | 71 |
| Rolling | 83 |
| Yawing | 75 |

m : Transfer load (kg)
a : Work piece acceleration (mm/s²)
Me : Dynamic moment
L : Overhang to work piece center of gravity (mm)

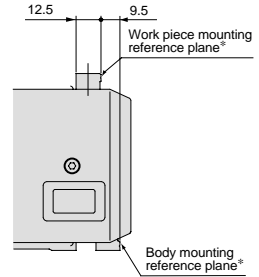
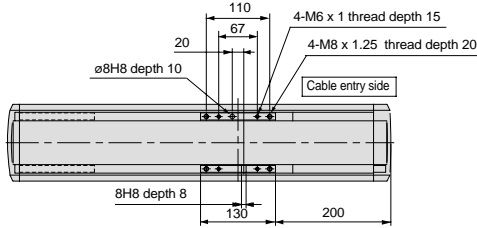


Refer to page 145 for deflection data.

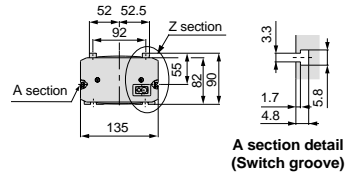
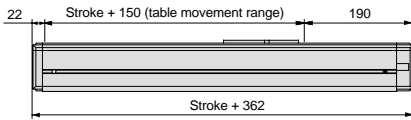
Standard Motor/Horizontal Mount Specification *Series LJ1H20*

Dimensions/LJ1H20□PA

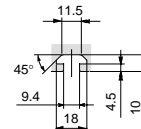
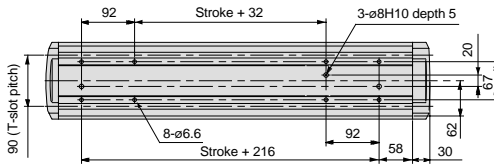
Scale: 10%



Z section detail



A section detail (Switch groove)



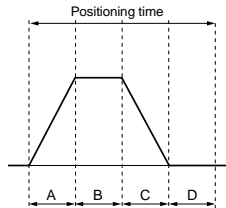
T-slot dimensions

* The body mounting reference plane and work piece mounting reference plane should be used as standards when mounting onto equipment. Refer to pages starting with 140 for mounting.

Positioning Time Guide

| | | Positioning time (sec.) | | | | |
|--------------|-----|-------------------------|-----|------|------|------|
| | | 1 | 10 | 100 | 300 | 600 |
| Speed (mm/s) | 10 | 0.5 | 1.4 | 10.4 | 30.4 | 60.4 |
| | 100 | 0.5 | 0.6 | 1.5 | 3.5 | 6.5 |
| | 250 | 0.5 | 0.6 | 0.9 | 1.7 | 2.9 |
| | 500 | 0.5 | 0.6 | 0.8 | 1.2 | 1.8 |

* Values will vary slightly depending on the operating conditions.



A: Acceleration time
 B: Constant velocity time
 C: Deceleration time
 D: Resting time (0.4sec.)
 Maximum acceleration: 3000mm/s²

LJ1

LG1

LC1

LX

LC6D/LC6C

Switches

Standard Motor
Horizontal Mount

Series LJ1H20

Motor Output
100W

High Rigidity
Direct Acting
Guide

Ground Ball Screw
 $\varnothing 15\text{mm}/20\text{mm}$ lead

How to Order

LJ1H202 **1** **PC** — Stroke — **F** **2**

Power supply voltage

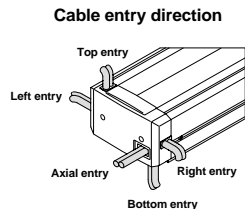
| | |
|---|----------------------|
| 1 | 100/110VAC (50/60Hz) |
| 2 | 200/220VAC (50/60Hz) |

Cable entry direction

| | |
|---|--------|
| F | Axial |
| R | Right |
| L | Left |
| T | Top |
| B | Bottom |

Cable length

| | |
|---|----|
| 2 | 2m |
| 3 | 3m |
| 4 | 4m |
| 5 | 5m |



Specifications

| Standard stroke | | mm | 500 | 600 | 700 | 800 | 900 | 1000 |
|-----------------|-----------------------------|---|--------------------------------|------|------|------|------|------|
| Performance | Body weight | kg | 12.6 | 13.7 | 14.5 | 15.3 | 17.2 | 18.6 |
| | Operating temperature range | °C | 5 to 40 (with no condensation) | | | | | |
| | Work load | kg | 30 | | | | | |
| | Rated thrust | N | 90 | | | | | |
| | Maximum speed (Note) | mm/s | 1000 | 1000 | 930 | 740 | 600 | 500 |
| | Positioning repeatability | mm | ±0.02 | | | | | |
| Main parts | Motor | AC servomotor (100W) | | | | | | |
| | Encoder | Incremental system | | | | | | |
| | Lead screw | Ground ball screw $\varnothing 15\text{mm}$, 20mm lead | | | | | | |
| | Guide | High rigidity direct acting guide | | | | | | |
| | Motor/Screw connection | With coupling | | | | | | |
| Controller | Model | LC1-1B2H□□□□ (Refer to page 185 for details.) | | | | | | |

Intermediate strokes

For manufacture of strokes other than the standard strokes on the left, add "-X2" at the end of the part number.
Applicable strokes: 550, 650, 750, 850, 950
Example) **LJ1H2021PC-550-F2-X2**

(Note) The speed is limited by the transfer load. Refer to the maximum speeds for each transfer load on the next page.

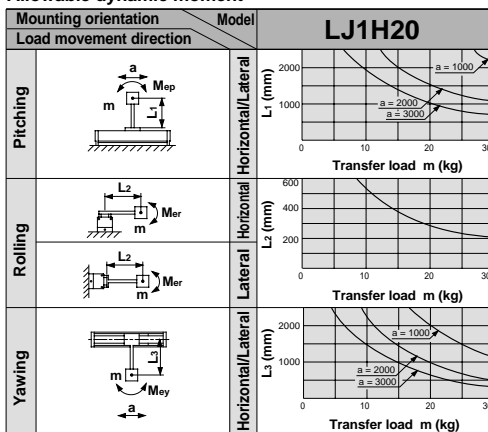
Allowable Moment (N·m)

Allowable static moment

| | |
|----------|----|
| Pitching | 71 |
| Rolling | 83 |
| Yawing | 75 |

m : Transfer load (kg)
a : Work piece acceleration (mm/s²)
Me : Dynamic moment
L : Overhang to work piece center of gravity (mm)

Allowable dynamic moment



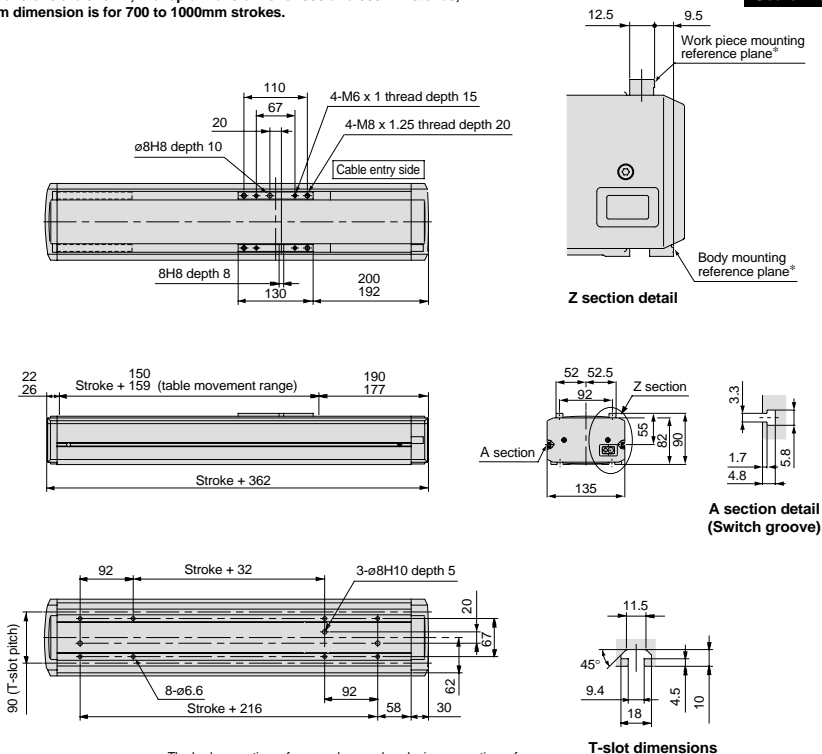
Refer to page 145 for deflection data.

Standard Motor/Horizontal Mount Specification **Series LJ1H20**

Dimensions/LJ1H20□PC

When two dimensions are shown, the top dimension is for 500 and 600mm strokes, and the bottom dimension is for 700 to 1000mm strokes.

Scale: 10%

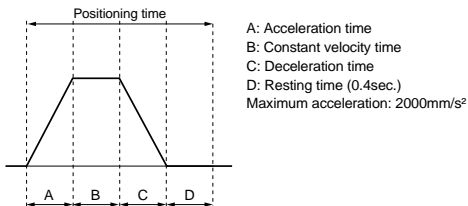


* The body mounting reference plane and work piece mounting reference plane should be used as standards when mounting onto equipment. Refer to pages starting with 140 for mounting.

Positioning Time Guide

| Positioning distance (mm) | Positioning time (sec.) | | | | | |
|---------------------------|-------------------------|-----|-----|------|------|-------|
| | 1 | 10 | 100 | 500 | 1000 | |
| Speed (mm/s) | 10 | 0.6 | 1.5 | 10.5 | 50.5 | 100.5 |
| | 100 | 0.5 | 0.6 | 1.5 | 5.5 | 10.5 |
| | 500 | 0.5 | 0.6 | 0.9 | 1.7 | 2.7 |
| | 1000 | 0.5 | 0.6 | 0.9 | 1.4 | 1.9 |

* Values will vary slightly depending on the operating conditions.



Maximum Speeds for Each Transfer Load

| Model | Transfer load (kg) | | | | Note |
|-------------------|--------------------|-----|-----|-----|--|
| | 15 | 20 | 25 | 30 | |
| LJ1H20□PC-500-□□ | 1000 | 700 | 500 | 500 | Power supply: 100/110(V)AC ±10% Compatible controller: LC1-1B2H1-□□ |
| LJ1H20□PC-600-□□ | 1000 | 700 | 500 | 500 | |
| LJ1H20□PC-700-□□ | 930 | 600 | 500 | 500 | |
| LJ1H20□PC-800-□□ | 740 | 600 | 500 | 500 | Power supply: 200/220(V)AC ±10% Compatible controller: LC1-1B2H2-□□ |
| LJ1H20□PC-900-□□ | 600 | 500 | 500 | 500 | |
| LJ1H20□PC-1000-□□ | 500 | 500 | 500 | 500 | |

LJ1

LG1

LC1

LX

LC6D/LC6C

Switches

Standard Motor
Horizontal Mount

Series LJ1H20

Motor Output
100W

High Rigidity
Direct Acting
Guide

Rolled Ball Screw
ø15mm/10mm lead

How to Order

LJ1H202 **1** **NA** — **Stroke** — **F** **2**

Power supply voltage

| | |
|---|----------------------|
| 1 | 100/110VAC (50/60Hz) |
| 2 | 200/220VAC (50/60Hz) |

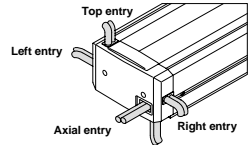
Cable entry direction

| | |
|---|--------|
| F | Axial |
| R | Right |
| L | Left |
| T | Top |
| B | Bottom |

Cable length

| | |
|---|----|
| 2 | 2m |
| 3 | 3m |
| 4 | 4m |
| 5 | 5m |

Cable entry direction



Specifications

| Standard stroke | | mm | 100 | 200 | 300 | 400 | 500 | 600 |
|-----------------|-----------------------------|---|--------------------------------|-----|------|------|------|------|
| Performance | Body weight | kg | 7.7 | 8.9 | 10.1 | 11.2 | 12.6 | 13.7 |
| | Operating temperature range | °C | 5 to 40 (with no condensation) | | | | | |
| | Work load | kg | 30 | | | | | |
| | Rated thrust | N | 180 | | | | | |
| | Maximum speed | mm/s | 500 | | | | | |
| | Positioning repeatability | mm | ±0.05 | | | | | |
| Main parts | Motor | AC servomotor (100W) | | | | | | |
| | Encoder | Incremental system | | | | | | |
| | Lead screw | Rolled ball screw ø15mm, 10mm lead | | | | | | |
| | Guide | High rigidity direct acting guide | | | | | | |
| | Motor/Screw connection | With coupling | | | | | | |
| Controller | Model | LC1-1B2H□□□□ (Refer to page 185 for details.) | | | | | | |

Intermediate strokes

For manufacture of strokes other than the standard strokes on the left, add "-X2" at the end of the part number.
Applicable strokes: 150, 250, 350, 450, 550
Example) LJ1H2021NA-150-F2-X2

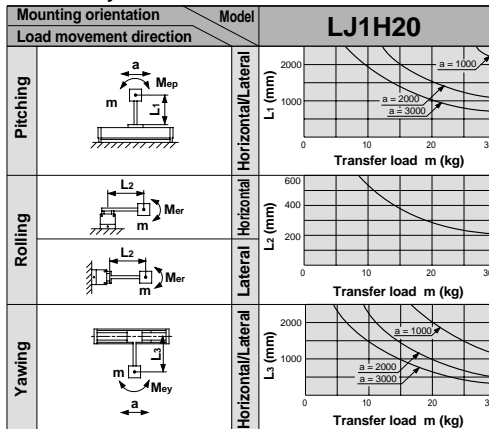
Allowable Moment (N·m)

Allowable static moment

| | |
|----------|----|
| Pitching | 71 |
| Rolling | 83 |
| Yawing | 75 |

m : Transfer load (kg)
a : Work piece acceleration (mm/s²)
Me : Dynamic moment
L : Overhang to work piece center of gravity (mm)

Allowable dynamic moment

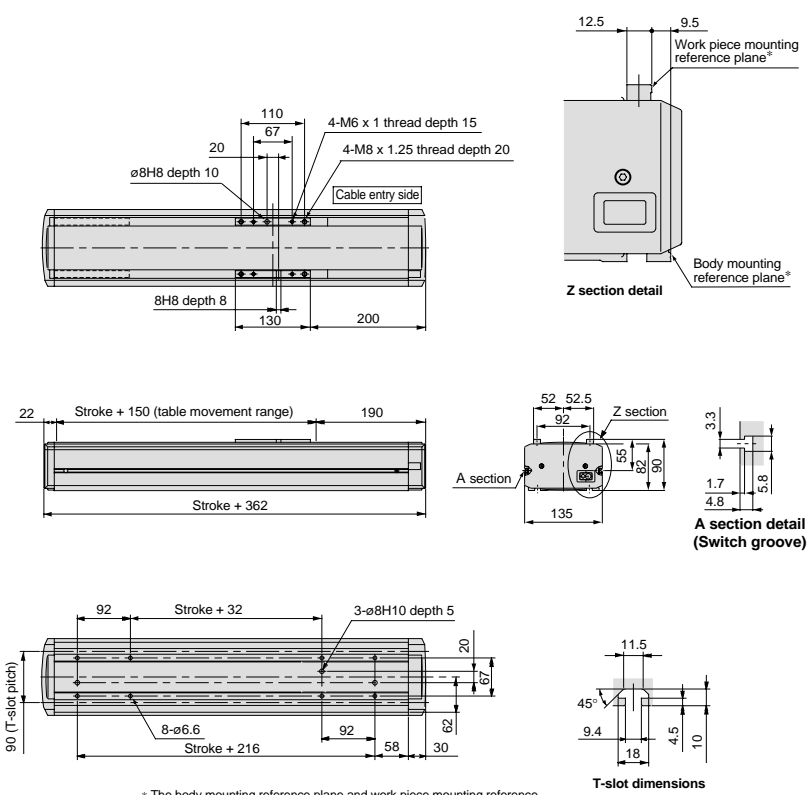


Refer to page 145 for deflection data.

Standard Motor/Horizontal Mount Specification **Series LJ1H20**

Dimensions/LJ1H20□NA

Scale: 10%

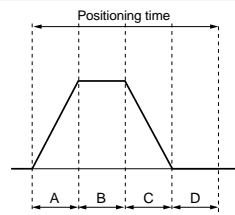


* The body mounting reference plane and work piece mounting reference plane should be used as standards when mounting onto equipment. Refer to pages starting with 140 for mounting.

Positioning Time Guide

| Positioning distance (mm) | | Positioning time (sec.) | | | | | |
|---------------------------|-----|-------------------------|-----|------|------|------|--|
| | | 1 | 10 | 100 | 300 | 600 | |
| Speed (mm/s) | 10 | 0.5 | 1.4 | 10.4 | 30.4 | 60.4 | |
| | 100 | 0.5 | 0.6 | 1.5 | 3.5 | 6.5 | |
| | 250 | 0.5 | 0.6 | 0.9 | 1.7 | 2.9 | |
| | 500 | 0.5 | 0.6 | 0.8 | 1.2 | 1.8 | |

* Values will vary slightly depending on the operating conditions.



A: Acceleration time
 B: Constant velocity time
 C: Deceleration time
 D: Resting time (0.4sec.)
 Maximum acceleration: 3000mm/s²

LJ1
 LG1
 LC1
 LX
 LC6D/LC6C
 Switches

Standard Motor
Horizontal Mount

Series LJ1H20

Motor Output
100W

High Rigidity
Direct Acting
Guide

Rolled Ball Screw
∅15mm/20mm lead

How to Order

LJ1H202 **1** **NC** — **Stroke** — **F** **2**

Power supply voltage

| | |
|---|----------------------|
| 1 | 100/110VAC (50/60Hz) |
| 2 | 200/220VAC (50/60Hz) |

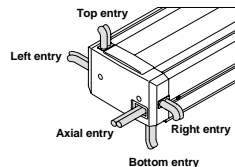
Cable entry direction

| | |
|---|--------|
| F | Axial |
| R | Right |
| L | Left |
| T | Top |
| B | Bottom |

Cable length

| | |
|---|----|
| 2 | 2m |
| 3 | 3m |
| 4 | 4m |
| 5 | 5m |

Cable entry direction



Specifications

| | | Standard stroke | mm | 500 | 600 | 700 | 800 | 900 | 1000 |
|--------------------|---------------------------------|---|--------------------------------|-------|------|------|------|------|------|
| Performance | Body weight | kg | | 12.6 | 13.7 | 14.5 | 15.3 | 17.2 | 18.6 |
| | Operating temperature range | °C | 5 to 40 (with no condensation) | | | | | | |
| | Work load | kg | 30 | | | | | | |
| | Rated thrust | N | 90 | | | | | | |
| | Maximum speed ^(Note) | mm/s | 1000 | 1000 | 930 | 740 | 600 | 500 | |
| | | Positioning repeatability | mm | ±0.05 | | | | | |
| Main parts | Motor | AC servomotor (100W) | | | | | | | |
| | Encoder | Incremental system | | | | | | | |
| | Lead screw | Rolled ball screw ∅15mm, 20mm lead | | | | | | | |
| | Guide | High rigidity direct acting guide | | | | | | | |
| | | Motor/Screw connection | With coupling | | | | | | |
| Controller | Model | LC1-1B2H□-□□ (Refer to page 185 for details.) | | | | | | | |

Intermediate strokes

For manufacture of strokes other than the standard strokes on the left, add "-X2" at the end of the part number. Applicable strokes: 550, 650, 750, 850, 950
Example) **LJ1H2021NC-550-F2-X2**

(Note) The speed is limited by the transfer load. Refer to the maximum speeds for each transfer load on the next page.

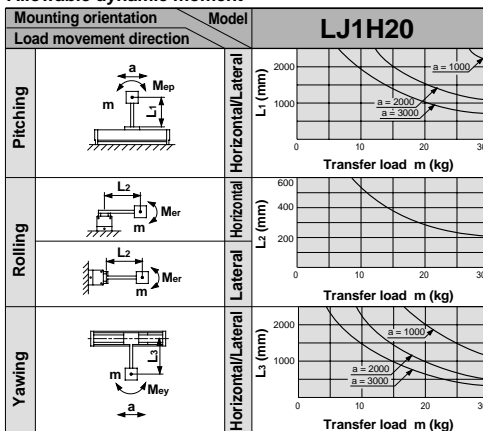
Allowable Moment (N.m)

Allowable static moment

| | |
|-----------------|----|
| Pitching | 71 |
| Rolling | 83 |
| Yawing | 75 |

m : Transfer load (kg)
a : Work piece acceleration (mm/s²)
Me: Dynamic moment
L : Overhang to work piece center of gravity (mm)

Allowable dynamic moment



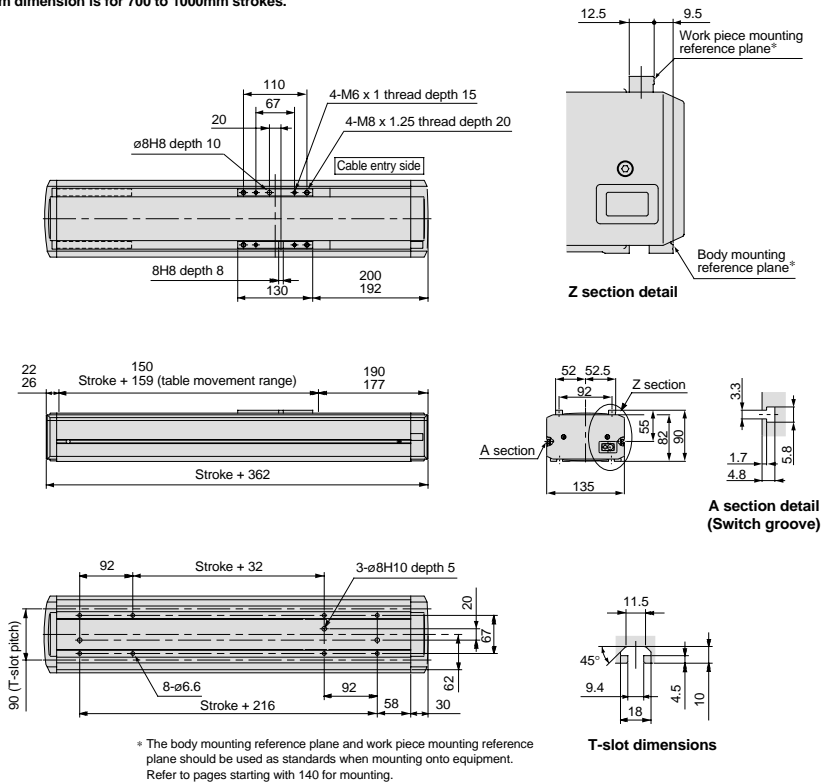
Refer to page 145 for deflection data.

Standard Motor/Horizontal Mount Specification *Series LJ1H20*

Dimensions/LJ1H20□NC

When two dimensions are shown, the top dimension is for 500 and 600mm strokes, and the bottom dimension is for 700 to 1000mm strokes.

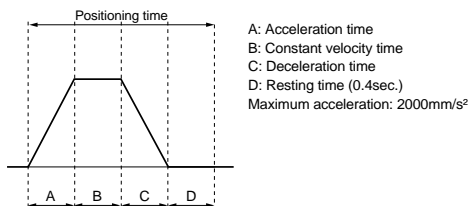
Scale: 10%



Positioning Time Guide

| | | Positioning time (sec.) | | | | |
|---------------------------|------|-------------------------|-----|------|------|-------|
| Positioning distance (mm) | | 1 | 10 | 100 | 500 | 1000 |
| Speed (mm/s) | 10 | 0.6 | 1.5 | 10.5 | 50.5 | 100.5 |
| | 100 | 0.5 | 0.6 | 1.5 | 5.5 | 10.5 |
| | 500 | 0.5 | 0.6 | 0.9 | 1.7 | 2.7 |
| | 1000 | 0.5 | 0.6 | 0.9 | 1.4 | 1.9 |

* Values will vary slightly depending on the operating conditions.



Maximum Speeds for Each Transfer Load

| Model | Transfer load (kg) | | | | Note |
|-------------------|--------------------|-----|-----|-----|--|
| | 15 | 20 | 25 | 30 | |
| LJ1H20□NC-500-□□ | 1000 | 700 | 500 | 500 | Power supply: 100/110(V)AC ±10% Compatible controller: LC1-1B2H1-□□ |
| LJ1H20□NC-600-□□ | 1000 | 700 | 500 | 500 | |
| LJ1H20□NC-700-□□ | 930 | 600 | 500 | 500 | |
| LJ1H20□NC-800-□□ | 740 | 600 | 500 | 500 | Power supply: 200/220(V)AC ±10% Compatible controller: LC1-1B2H2-□□ |
| LJ1H20□NC-900-□□ | 600 | 500 | 500 | 500 | |
| LJ1H20□NC-1000-□□ | 500 | 500 | 500 | 500 | |

LJ1

LG1

LC1

LX

LC6D/LC6C

Switches

Standard Motor
Horizontal Mount

Series LJ1H20

Motor Output
100W

High Rigidity
Direct Acting
Guide

Slide Screw
∅20mm/20mm lead

How to Order

LJ1H202 1 SC — Stroke — **F 2**

Power supply voltage

| | |
|---|----------------------|
| 1 | 100/110VAC (50/60Hz) |
| 2 | 200/220VAC (50/60Hz) |

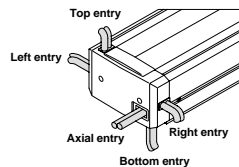
Cable entry direction

| | |
|---|--------|
| F | Axial |
| R | Right |
| L | Left |
| T | Top |
| B | Bottom |

Cable length

| | |
|---|----|
| 2 | 2m |
| 3 | 3m |
| 4 | 4m |
| 5 | 5m |

Cable entry direction



Specifications

| | | Standard stroke | mm | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1200 |
|--------------------|-----------------------------|---|--------------------------------|-----|------|------|------|------|------|------|------|------|------|------|
| Performance | Body weight | kg | | 9.0 | 10.0 | 11.1 | 12.2 | 13.3 | 14.3 | 15.3 | 17.2 | 19.1 | 20.6 | 24.7 |
| | Operating temperature range | °C | 5 to 40 (with no condensation) | | | | | | | | | | | |
| | Work load | kg | 15 | | | | | | | | | | | |
| | Rated thrust | N | 50 | | | | | | | | | | | |
| | Maximum speed | mm/s | 500 | | | | | | | | | | | |
| Main parts | Positioning repeatability | mm | ±0.1 | | | | | | | | | | | |
| | Motor | AC servomotor (100W) | | | | | | | | | | | | |
| | Encoder | Incremental system | | | | | | | | | | | | |
| | Lead screw | Slide screw ∅20mm, 20mm lead | | | | | | | | | | | | |
| | Guide | High rigidity direct acting guide | | | | | | | | | | | | |
| Controller | Motor/Screw connection | With coupling | | | | | | | | | | | | |
| Controller | Model | LC1-1B2M□-□□ (Refer to page 185 for details.) | | | | | | | | | | | | |

Intermediate strokes

For manufacture of strokes other than the standard strokes above, add "-X2" at the end of the part number.
Applicable strokes:150, 250, 350, 450, 550, 650, 750, 850, 950
Example) **LJ1H2021SC-150-F2-X2**

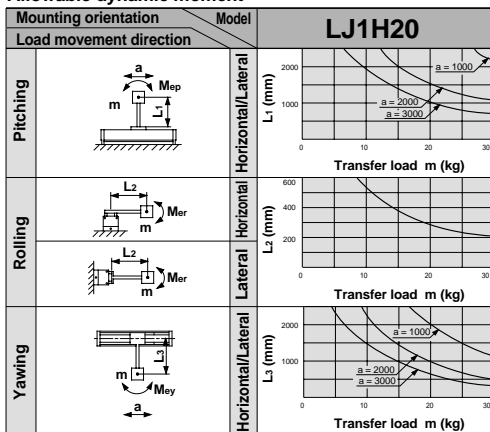
Allowable Moment (N·m)

Allowable static moment

| | |
|-----------------|----|
| Pitching | 71 |
| Rolling | 83 |
| Yawing | 75 |

m : Transfer load (kg)
a : Work piece acceleration (mm/s²)
Me : Dynamic moment
L : Overhang to work piece center of gravity (mm)

Allowable dynamic moment



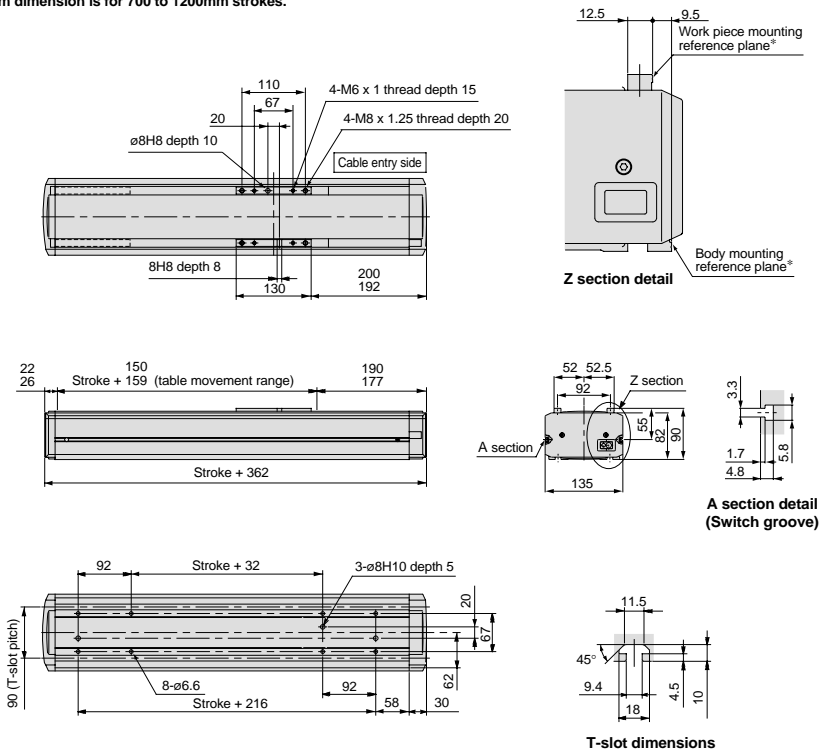
Refer to page 145 for deflection data.

Standard Motor/Horizontal Mount Specification *Series LJ1H20*

Dimensions/LJ1H20□SC

When two dimensions are shown, the top dimension is for 100 to 600mm strokes, and the bottom dimension is for 700 to 1200mm strokes.

Scale: 10%

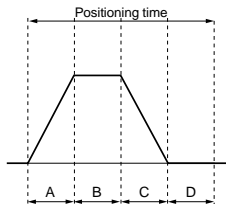


* The body mounting reference plane and work piece mounting reference plane should be used as standards when mounting onto equipment. Refer to pages starting with 140 for mounting.

Positioning Time Guide

| Positioning distance (mm) | | Positioning time (sec.) | | | | |
|---------------------------|-----|-------------------------|-----|------|------|-------|
| | | 1 | 10 | 100 | 600 | 1200 |
| Speed (mm/s) | 10 | 0.6 | 1.5 | 10.5 | 60.5 | 120.5 |
| | 100 | 0.5 | 0.6 | 1.5 | 6.5 | 12.5 |
| | 250 | 0.5 | 0.6 | 1.0 | 3.0 | 5.4 |
| | 500 | 0.5 | 0.6 | 0.9 | 1.9 | 3.1 |

* Values will vary slightly depending on the operating conditions.



A: Acceleration time
 B: Constant velocity time
 C: Deceleration time
 D: Resting time (0.4sec.)
 Maximum acceleration: 2000mm/s²

LJ1

LG1

LC1

LX

LC6D/LC6C

Switches

Standard Motor Horizontal Mount

Series LJ1H30

Motor Output
200W
**High Rigidity
Direct Acting
Guide**
Ground Ball Screw
∅25mm/25mm lead

How to Order

LJ1H303 1 PD Stroke F 2
Power supply voltage

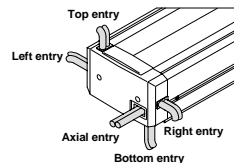
| | |
|---|----------------------|
| 1 | 100/110VAC (50/60Hz) |
| 2 | 200VAC (50/60Hz) |

Cable entry direction

| | |
|---|--------|
| F | Axial |
| R | Right |
| L | Left |
| T | Top |
| B | Bottom |

Cable length

| | |
|---|----|
| 2 | 2m |
| 3 | 3m |
| 4 | 4m |
| 5 | 5m |

Cable entry direction


Specifications

| Standard stroke | | mm | 200 | 300 | 400 | 500 | 600 | 800 | 1000 | 1200 | 1500 |
|-----------------|--------------------------------|--|--------------------------------|------|------|------|------|------|------|------|------|
| Performance | Body weight | kg | 16.0 | 18.0 | 20.0 | 22.0 | 24.0 | 28.5 | 33.0 | 37.0 | 43.0 |
| | Operating temperature range | °C | 5 to 40 (with no condensation) | | | | | | | | |
| | Work load | kg | 60 | | | | | | | | |
| | Rated thrust | N | 144 | | | | | | | | |
| | Maximum speed ^{Note)} | mm/s | 1000 | | | | | | | 700 | 500 |
| Main parts | Positioning repeatability | mm | ±0.02 | | | | | | | | |
| | Motor | AC servomotor (200W) | | | | | | | | | |
| | Encoder | Incremental system | | | | | | | | | |
| | Lead screw | Ground ball screw ∅25mm, 25mm lead | | | | | | | | | |
| | Guide | High rigidity direct acting guide | | | | | | | | | |
| Controller | Motor/Screw connection | With coupling | | | | | | | | | |
| | Model | LC1-1B3H□□□ (Refer to page 185 for details.) | | | | | | | | | |

Note) The speed is limited by the transfer load. Refer to the maximum speeds for each transfer load on the next page.

Intermediate strokes

For manufacture of strokes other than the standard strokes above, add "-X2" at the end of the part number.

Applicable strokes: 250, 350, 450, 550, 650, 700, 750, 850, 900, 950, 1050, 1100, 1150, 1250, 1300, 1350, 1400, 1450

Example) LJ1H3031PD-250-F2-X2

Allowable Moment (N·m)

Allowable static moment

| | |
|----------|-----|
| Pitching | 117 |
| Rolling | 137 |
| Yawing | 123 |

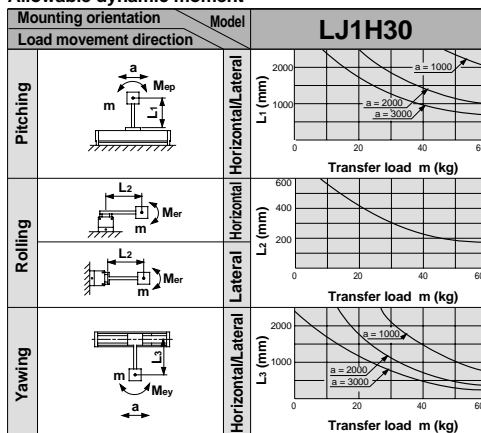
m : Transfer load (kg)

a : Work piece acceleration (mm/s²)

Me: Dynamic moment

L : Overhang to work piece center of gravity (mm)

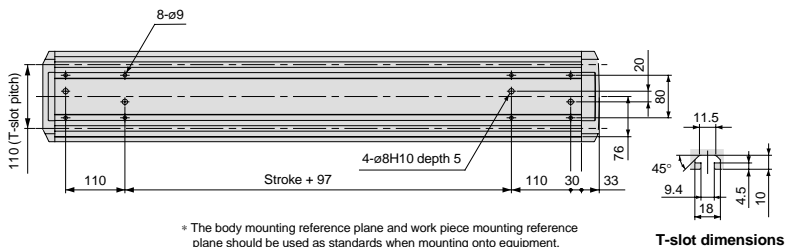
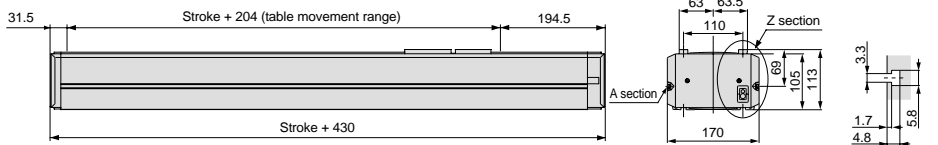
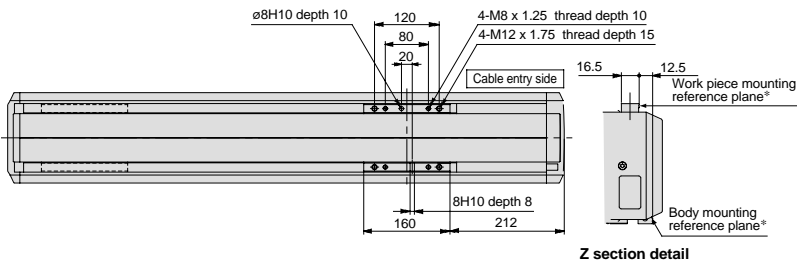
Allowable dynamic moment



Refer to page 145 for deflection data.

Dimensions/LJ1H30□PD

Scale: 10%

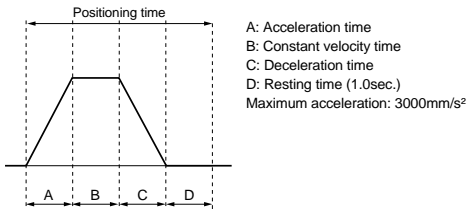


* The body mounting reference plane and work piece mounting reference plane should be used as standards when mounting onto equipment. Refer to pages starting with 140 for mounting.

Positioning Time Guide

| | | Positioning time (sec.) | | | | | |
|---------------------------|------|-------------------------|-----|------|------|-------|--|
| Positioning distance (mm) | | 1 | 10 | 100 | 750 | 1500 | |
| Speed (mm/s) | 10 | 1.1 | 2.0 | 11.0 | 76.0 | 151.0 | |
| | 100 | 1.1 | 1.2 | 2.1 | 8.6 | 16.1 | |
| | 500 | 1.1 | 1.2 | 1.4 | 2.7 | 4.2 | |
| | 1000 | 1.1 | 1.2 | 1.4 | 2.1 | 2.9 | |

* Values will vary slightly depending on the operating conditions.



Maximum Speeds for Each Transfer Load

| Model | Transfer load (kg) | | | | | | Note |
|---------------------------|--------------------|------|------|------|-----|-----|--|
| | 10 | 20 | 30 | 40 | 50 | 60 | |
| LJ1H3031PD-200 to 1000-□□ | 1000 | 1000 | 1000 | 1000 | 900 | 800 | Power supply: 100/110(V)AC ±10% Compatible controller: LC1-1B3H1-□□ |
| LJ1H3031PD-1200-□□ | 700 | 700 | 700 | 700 | 700 | 700 | |
| LJ1H3031PD-1500-□□ | 500 | 500 | 500 | 500 | 500 | 500 | Power supply: 200(V)AC ±10% Compatible controller: LC1-1B3H2-□□ |
| LJ1H3032PD-200 to 1000-□□ | 1000 | 900 | 800 | 700 | 650 | 600 | |
| LJ1H3032PD-1200-□□ | 700 | 700 | 700 | 700 | 650 | 600 | |
| LJ1H3032PD-1500-□□ | 500 | 500 | 500 | 500 | 500 | 500 | |

* Consult SMC if outside of the above conditions.

LJ1

LG1

LC1

LX

LC6D/LC6C

Switches

Standard Motor
Horizontal Mount

Series LJ1H30

Motor Output

200W

High Rigidity
Direct Acting
Guide

Rolled Ball Screw

∅25mm/25mm lead

How to Order

LJ1H303 1 ND Stroke F 2

Power supply voltage

| | |
|---|----------------------|
| 1 | 100/110VAC (50/60Hz) |
| 2 | 200VAC (50/60Hz) |

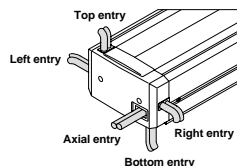
Cable entry direction

| | |
|---|--------|
| F | Axial |
| R | Right |
| L | Left |
| T | Top |
| B | Bottom |

Cable length

| | |
|---|----|
| 2 | 2m |
| 3 | 3m |
| 4 | 4m |
| 5 | 5m |

Cable entry direction



Specifications

| | Standard stroke | mm | 200 | 300 | 400 | 500 | 600 | 800 | 1000 | 1200 | 1500 |
|-------------|-----------------------------|------|---|------|------|------|------|------|------|------|------|
| Performance | Body weight | kg | 16.0 | 18.0 | 20.0 | 22.0 | 24.0 | 28.5 | 33.0 | 37.0 | 43.0 |
| | Operating temperature range | °C | 5 to 40 (with no condensation) | | | | | | | | |
| | Work load | kg | 60 | | | | | | | | |
| | Rated thrust | N | 144 | | | | | | | | |
| | Maximum speed (Note) | mm/s | 1000 | | | | | | | 700 | 500 |
| Main parts | Positioning repeatability | mm | ±0.05 | | | | | | | | |
| | Motor | | AC servomotor (200W) | | | | | | | | |
| | Encoder | | Incremental system | | | | | | | | |
| | Lead screw | | Rolled ball screw ∅25mm, 25mm lead | | | | | | | | |
| | Guide | | High rigidity direct acting guide | | | | | | | | |
| Controller | Motor/Screw connection | | With coupling | | | | | | | | |
| | Model | | LC1-1B3H□-□□ (Refer to page 185 for details.) | | | | | | | | |

Note) The speed is limited by the transfer load. Refer to the maximum speeds for each transfer load on the next page.

Intermediate strokes

For manufacture of strokes other than the standard strokes above, add "-X2" at the end of the part number.

Applicable strokes: 250, 350, 450, 550, 650, 700, 750, 850, 900, 950, 1050, 1100, 1150, 1250, 1300, 1350, 1400, 1450

Example) LJ1H3031ND-250-F2-X2

Allowable Moment (N·m)

Allowable static moment

| | |
|----------|-----|
| Pitching | 117 |
| Rolling | 137 |
| Yawing | 123 |

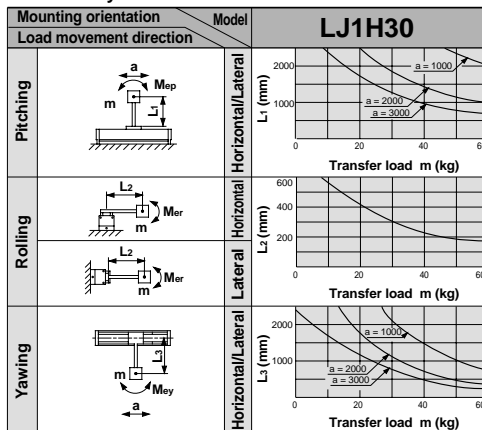
m : Transfer load (kg)

a : Work piece acceleration (mm/s²)

Me : Dynamic moment

L : Overhang to work piece center of gravity (mm)

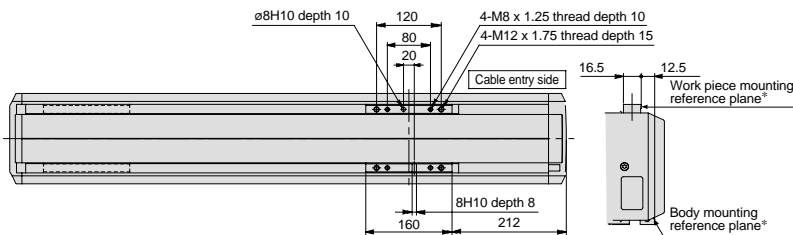
Allowable dynamic moment



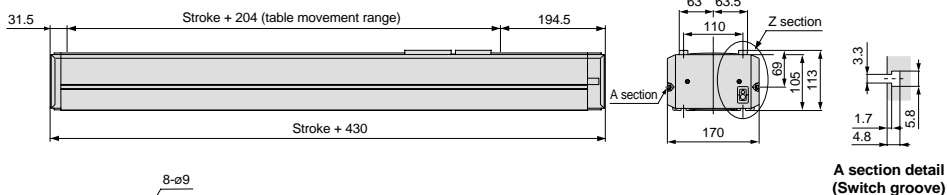
Refer to page 145 for deflection data.

Dimensions/LJ1H303□ND

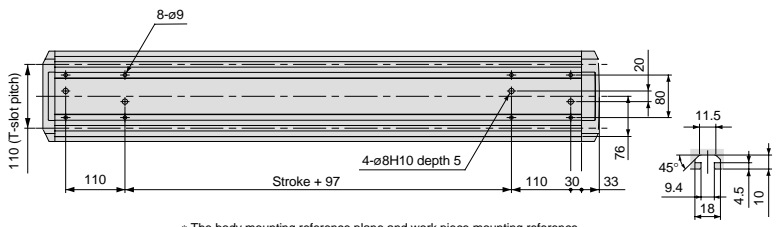
Scale: 10%



Z section detail



A section detail (Switch groove)



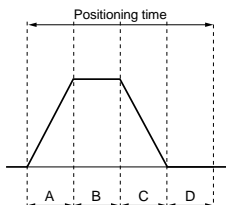
T-slot dimensions

* The body mounting reference plane and work piece mounting reference plane should be used as standards when mounting onto equipment. Refer to pages starting with 140 for mounting.

Positioning Time Guide

| | | Positioning time (sec.) | | | | |
|---------------------------|------|-------------------------|-----|------|------|-------|
| Positioning distance (mm) | | 1 | 10 | 100 | 750 | 1500 |
| Speed (mm/s) | 10 | 1.1 | 2.0 | 11.0 | 76.0 | 151.0 |
| | 100 | 1.1 | 1.2 | 2.1 | 8.6 | 16.1 |
| | 500 | 1.1 | 1.2 | 1.4 | 2.7 | 4.2 |
| | 1000 | 1.1 | 1.2 | 1.4 | 2.1 | 2.9 |

* Values will vary slightly depending on the operating conditions.



A: Acceleration time
B: Constant velocity time
C: Deceleration time
D: Resting time (1.0sec.)
Maximum acceleration: 3000mm/s²

Maximum Speeds for Each Transfer Load

| Model | Transfer load (kg) | | | | | | Note |
|---------------------------|--------------------|------|------|------|-----|-----|--|
| | 10 | 20 | 30 | 40 | 50 | 60 | |
| LJ1H3031ND-200 to 1000-□□ | 1000 | 1000 | 1000 | 1000 | 900 | 800 | Power supply: 100/110(V)AC ±10% Compatible controller: LC1-1B3H1-□□ |
| LJ1H3031ND-1200-□□ | 700 | 700 | 700 | 700 | 700 | 700 | |
| LJ1H3031ND-1500-□□ | 500 | 500 | 500 | 500 | 500 | 500 | |
| LJ1H3032ND-200 to 1000-□□ | 1000 | 900 | 800 | 700 | 650 | 600 | Power supply: 200(V)AC ±10% Compatible controller: LC1-1B3H2-□□ |
| LJ1H3032ND-1200-□□ | 700 | 700 | 700 | 700 | 650 | 600 | |
| LJ1H3032ND-1500-□□ | 500 | 500 | 500 | 500 | 500 | 500 | |

* Consult SMC if outside of the above conditions.

Standard Motor
Horizontal Mount

Series LJ1H30

Motor Output
200W

High Rigidity
Direct Acting
Guide

Slide Screw
∅30mm/40mm lead

How to Order

LJ1H303 1 SE Stroke F 2

Power supply voltage

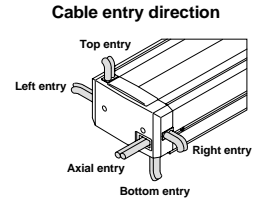
| | |
|---|----------------------|
| 1 | 100/110VAC (50/60Hz) |
| 2 | 200/220VAC (50/60Hz) |

Cable entry direction

| | |
|---|--------|
| F | Axial |
| R | Right |
| L | Left |
| T | Top |
| B | Bottom |

Cable length

| | |
|---|----|
| 2 | 2m |
| 3 | 3m |
| 4 | 4m |
| 5 | 5m |



Specifications

| Standard stroke | | 200 | 300 | 400 | 500 | 600 | 800 | 1000 | 1200 | 1500 |
|-----------------|-----------------------------|---|--------------------------------|------|------|------|------|------|------|------|
| Performance | Body weight | kg | 14.9 | 17.0 | 19.0 | 21.1 | 23.2 | 27.3 | 31.5 | 41.9 |
| | Operating temperature range | °C | 5 to 40 (with no condensation) | | | | | | | |
| | Work load | kg | 30 | | | | | | | |
| | Rated thrust | N | 50 | | | | | | | |
| | Maximum speed | mm/s | 500 | | | | | | | |
| Main parts | Motor | AC servomotor (200W) | | | | | | | | |
| | Encoder | Incremental system | | | | | | | | |
| | Lead screw | Slide screw ∅30mm, 40mm lead | | | | | | | | |
| | Guide | High rigidity direct acting guide | | | | | | | | |
| | Motor/Screw connection | With coupling | | | | | | | | |
| Controller | Model | LC1-1B3M□□□ (Refer to page 185 for details.) | | | | | | | | |

Intermediate strokes

For manufacture of strokes other than the standard strokes above, add "-X2" at the end of the part number.
Applicable strokes: 250, 350, 450, 550, 650, 700, 750, 850, 900, 950, 1050, 1100, 1150, 1250, 1300, 1350, 1400, 1450
Example) LJ1H3031SE-250-F2-X2

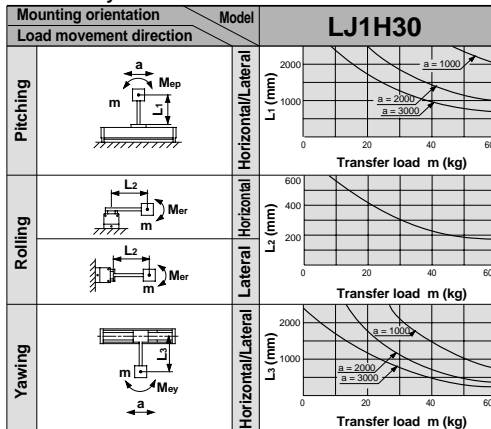
Allowable Moment (N·m)

Allowable static moment

| | |
|----------|-----|
| Pitching | 117 |
| Rolling | 137 |
| Yawing | 123 |

m : Transfer load (kg)
a : Work piece acceleration (mm/s²)
Me: Dynamic moment
L : Overhang to work piece center of gravity (mm)

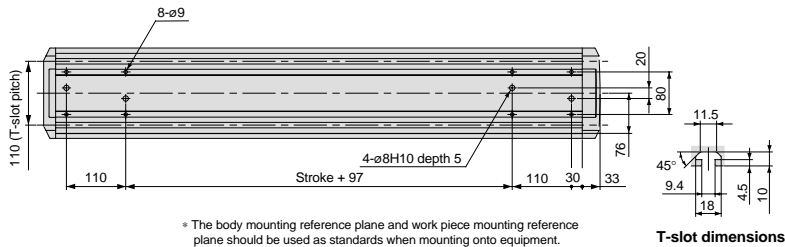
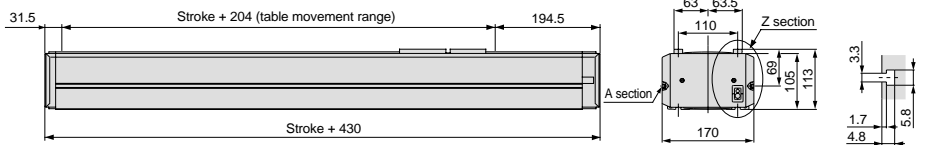
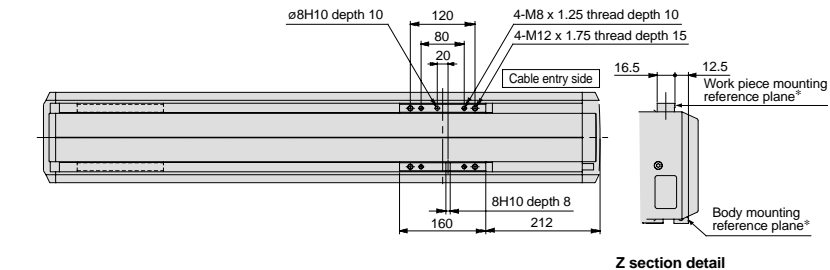
Allowable dynamic moment



Refer to page 145 for deflection data.

Dimensions/LJ1H30□SE

Scale: 10%

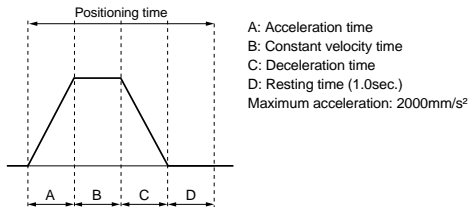


* The body mounting reference plane and work piece mounting reference plane should be used as standards when mounting onto equipment. Refer to pages starting with 140 for mounting.

Positioning Time Guide

| | | Positioning time (sec.) | | | | |
|---------------------------|-----|-------------------------|-----|------|------|-------|
| Positioning distance (mm) | | 1 | 10 | 100 | 750 | 1500 |
| Speed (mm/s) | 10 | 1.2 | 2.1 | 11.1 | 76.1 | 151.1 |
| | 100 | 1.1 | 1.2 | 2.1 | 8.6 | 16.1 |
| | 250 | 1.1 | 1.2 | 1.6 | 4.2 | 7.2 |
| | 500 | 1.1 | 1.2 | 1.5 | 2.8 | 4.3 |

* Values will vary slightly depending on the operating conditions.



LJ1
 LG1
 LC1
 LX
 LC6D/LC6C
 Switches

Standard Motor
Vertical Mount

Series LJ1H10

Motor Output
100W

High Rigidity
Direct Acting
Guide

Ground Ball Screw
∅ 12mm/8mm lead

How to Order

LJ1H102 **1** **PH** — Stroke **K** — **F** **2**

Power supply voltage

| | |
|---|------------------|
| 1 | 100VAC (50/60Hz) |
| 2 | 200VAC (50/60Hz) |

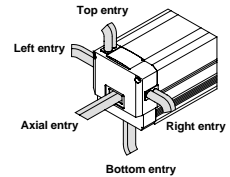
Cable entry direction

| | Actuator cable | Brake cable |
|----------|----------------|-------------|
| F | Axial | Left |
| R | Right | Axial |
| L | Left | Axial |
| T | Top | Axial |
| B | Bottom | Axial |

Cable length

| | |
|---|----|
| 2 | 2m |
| 3 | 3m |
| 4 | 4m |
| 5 | 5m |

Cable entry direction



Specifications

| | | Standard stroke | mm | 100 | 200 | 300 | 400 | 500 |
|-------------------------------------|-----------------------------|---|---|-----|-----|-----|-----|-----|
| Performance | Body weight | kg | | 5.5 | 6.3 | 7.1 | 7.8 | 8.6 |
| | Operating temperature range | °C | 5 to 40 (with no condensation) | | | | | |
| | Work load | kg | 10 | | | | | |
| | Rated thrust | N | 225 | | | | | |
| | Maximum speed | mm/s | 400 | | | | | |
| | Positioning repeatability | mm | ±0.02 | | | | | |
| Main parts | Motor | AC servomotor (100W) | | | | | | |
| | Encoder | Incremental system | | | | | | |
| | Lead screw | Ground ball screw ∅12mm, 8mm lead | | | | | | |
| | Guide | High rigidity direct acting guide | | | | | | |
| | Motor/Screw connection | With coupling | | | | | | |
| | Electromagnetic brake | Specifications | De-energized operation type, Rated voltage 24VDC ±10%, 0.4A | | | | | |
| Holding torque | | 0.4N·m | | | | | | |
| Connection method | | Ball screw mounting | | | | | | |
| Controller | Model | LC1-1B1VH□□□ (Refer to page 185 for details.) | | | | | | |
| Regenerative absorption unit | Model | LC7R-K1□A□□ (Refer to page 200 for details.) | | | | | | |

Intermediate strokes

For manufacture of strokes other than the standard strokes on the left, add "-X2" at the end of the part number.
Applicable strokes: 150, 250, 350, 450
Example) LJ1H1021PH-150K-F2-X2

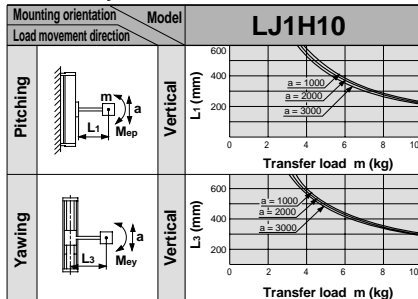
Allowable Moment (N·m)

Allowable static moment

| | |
|-----------------|------|
| Pitching | 10.2 |
| Yawing | 10.2 |

m : Transfer load (kg)
a : Work piece acceleration (mm/s²)
Me: Dynamic moment
L : Overhaul to work piece center of gravity (mm)

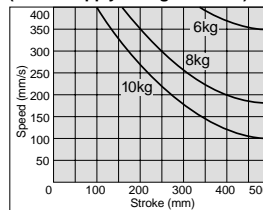
Allowable dynamic moment



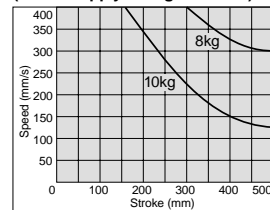
Refer to page 145 for deflection data.

Regenerative Absorption Unit Selection Guide

LJ1H1021PH-□□□K
(Power supply voltage 100VAC)



LJ1H1022PH-□□□K
(Power supply voltage 200VAC)



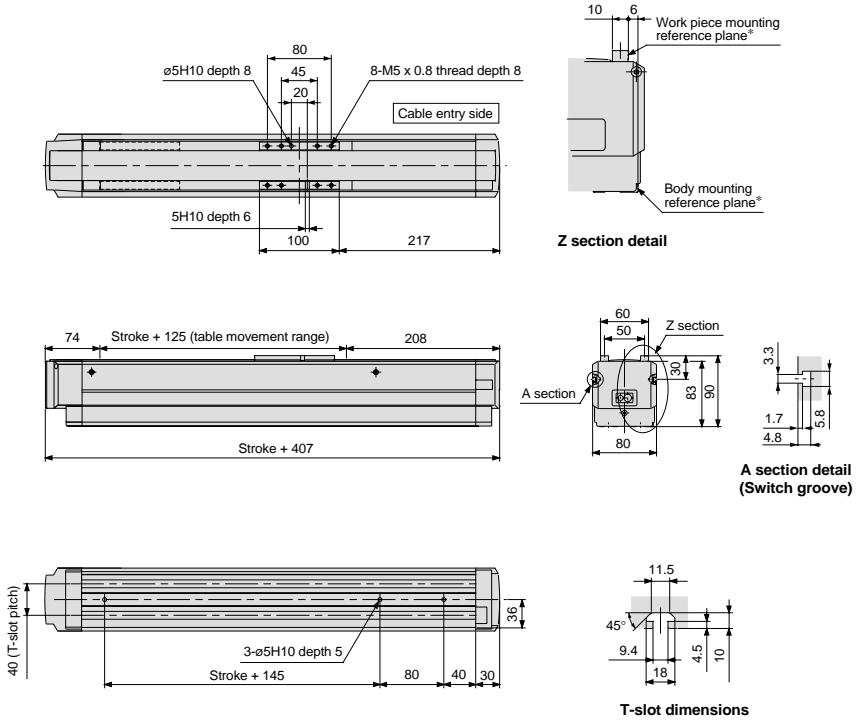
When an actuator is operated under conditions that exceed the lines in the graphs above, **be sure to use a regenerative absorption unit.**

Be sure to refer to page 200 regarding regenerative absorption units.
Refer to page 204 regarding brake wiring.

Standard Motor/Vertical Mount Specification **Series LJ1H10**

Dimensions/LJ1H102□PH

Scale: 15%

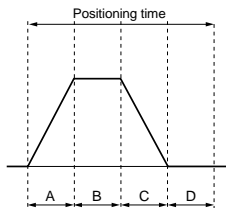


* The body mounting reference plane and work piece mounting reference plane should be used as standards when mounting onto equipment. Refer to pages starting with 140 for mounting.

Positioning Time Guide

| | | Positioning time (sec.) | | | | |
|--------------|-----|-------------------------|-----|------|------|------|
| | | 1 | 10 | 100 | 250 | 500 |
| Speed (mm/s) | 10 | 0.4 | 1.3 | 10.3 | 25.3 | 50.3 |
| | 100 | 0.4 | 0.5 | 1.4 | 2.9 | 5.4 |
| | 200 | 0.4 | 0.5 | 0.9 | 1.7 | 2.9 |
| | 400 | 0.4 | 0.5 | 0.7 | 1.1 | 1.7 |

* Values will vary slightly depending on the operating conditions.



A: Acceleration time
 B: Constant velocity time
 C: Deceleration time
 D: Resting time (0.3sec.)
 Maximum acceleration: 3000mm/s²

LJ1

LG1

LC1

LX

LC6D/LC6C

Switches

Standard Motor
Vertical Mount

Series LJ1H10

Motor Output
100W

High Rigidity
Direct Acting
Guide

Ground Ball Screw
∅12mm/12mm lead

How to Order

LJ1H102 **1** **PB** — Stroke **K** — **F** **2**

Power supply voltage

| | |
|---|------------------|
| 1 | 100VAC (50/60Hz) |
| 2 | 200VAC (50/60Hz) |

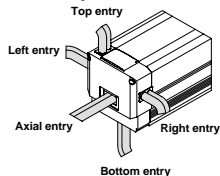
Cable entry direction

| | Actuator cable | Brake cable |
|----------|----------------|-------------|
| F | Axial | Left |
| R | Right | Axial |
| L | Left | Axial |
| T | Top | Axial |
| B | Bottom | Axial |

Cable length

| | |
|---|----|
| 2 | 2m |
| 3 | 3m |
| 4 | 4m |
| 5 | 5m |

Cable entry direction



Specifications

| | | Standard stroke | mm | 100 | 200 | 300 | 400 | 500 |
|-------------------------------------|-----------------------------|---|--------------------------------|-----|-----|-----|-----|-----|
| Performance | Body weight | kg | | 5.5 | 6.3 | 7.1 | 7.8 | 8.6 |
| | Operating temperature range | °C | 5 to 40 (with no condensation) | | | | | |
| | Work load | kg | 5 | | | | | |
| | Rated thrust | N | 150 | | | | | |
| | Maximum speed | mm/s | 600 | | | | | |
| Main parts | Positioning repeatability | mm | ±0.02 | | | | | |
| | Motor | AC servomotor (100W) | | | | | | |
| | Encoder | Incremental system | | | | | | |
| | Lead screw | Ground ball screw ∅12mm, 12mm lead | | | | | | |
| | Guide | High rigidity direct acting guide | | | | | | |
| Electromagnetic brake | Motor/Screw connection | With coupling | | | | | | |
| | Specifications | De-energized operation type, Rated voltage 24VDC ±10%, 0.4A | | | | | | |
| | Holding torque | 0.4N·m | | | | | | |
| Controller | Connection method | Ball screw mounting | | | | | | |
| | Model | LC1-1B1VB□□□□ (Refer to page 185 for details.) | | | | | | |
| Regenerative absorption unit | Model | LC7R-K1□A□□□ (Refer to page 200 for details.) | | | | | | |

Intermediate strokes

For manufacture of strokes other than the standard strokes on the left, add "-X2" at the end of the part number.
Applicable strokes: 150, 250, 350, 450
Example) **LJ1H1021PB-150K-F2-X2**

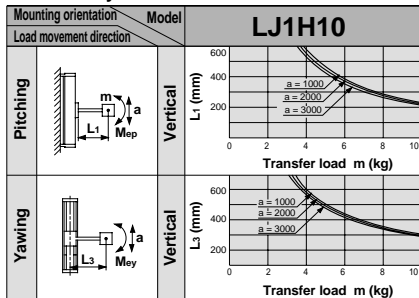
Allowable Moment (N·m)

Allowable static moment

| | |
|-----------------|------|
| Pitching | 10.2 |
| Yawing | 10.2 |

m : Transfer load (kg)
a : Work piece acceleration (mm/s²)
Me: Dynamic moment
L : Overhang to work piece center of gravity (mm)

Allowable dynamic moment



Refer to page 145 for deflection data.

Regenerative Absorption Unit Selection Guide

It is not necessary to mount a regenerative absorption unit when the work piece load, speed, and stroke are within the actuator rating. However, use of the regenerative absorption unit is recommended under all conditions.

Actuator rating

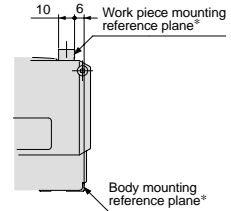
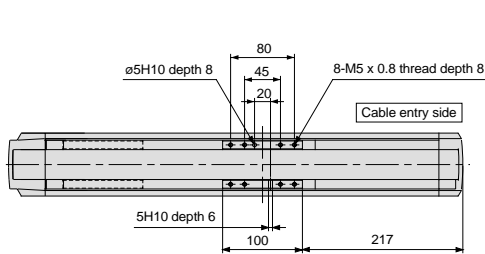
| | |
|----------------|---------|
| Work load | 5kg |
| Maximum speed | 600mm/s |
| Maximum stroke | 500mm |

Refer to page 204 regarding brake wiring.

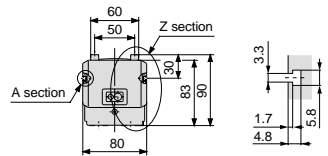
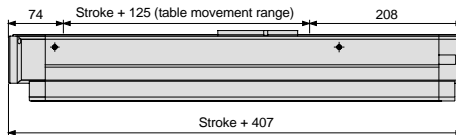
Standard Motor/Vertical Mount Specification **Series LJ1H10**

Dimensions/LJ1H102□PB

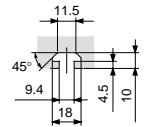
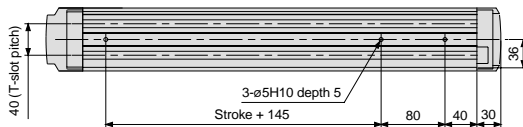
Scale: 15%



Z section detail



A section detail (Switch groove)



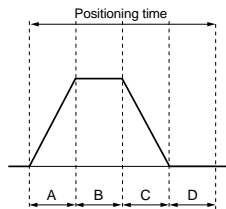
T-slot dimensions

* The body mounting reference plane and work piece mounting reference plane should be used as standards when mounting onto equipment. Refer to pages starting with 140 for mounting.

Positioning Time Guide

| | | Positioning time (sec.) | | | | |
|--------------|-----|-------------------------|-----|------|------|------|
| | | 1 | 10 | 100 | 250 | 500 |
| Speed (mm/s) | 10 | 0.4 | 1.3 | 10.3 | 25.3 | 50.3 |
| | 100 | 0.4 | 0.5 | 1.4 | 2.9 | 5.4 |
| | 300 | 0.4 | 0.5 | 0.8 | 1.3 | 2.1 |
| | 600 | 0.4 | 0.5 | 0.7 | 1.0 | 1.4 |

* Values will vary slightly depending on the operating conditions.



A: Acceleration time
 B: Constant velocity time
 C: Deceleration time
 D: Resting time (0.3sec.)
 Maximum acceleration: 3000mm/s²

LJ1

LG1

LC1

LX

LC6D/LC6C

Switches

Standard Motor Vertical Mount

Series LJ1H10

Motor Output
100W

High Rigidity
Direct Acting
Guide

Rolled Ball Screw
∅12mm/8mm lead

How to Order

LJ1H102 **1** **NH** — Stroke **K** — **F** **2**

Power supply voltage

| | |
|---|------------------|
| 1 | 100VAC (50/60Hz) |
| 2 | 200VAC (50/60Hz) |

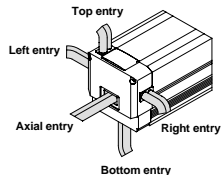
Cable entry direction

| | | |
|---|----------------|-------------|
| | Actuator cable | Brake cable |
| F | Axial | Left |
| R | Right | Axial |
| L | Left | Axial |
| T | Top | Axial |
| B | Bottom | Axial |

Cable length

| | |
|---|----|
| 2 | 2m |
| 3 | 3m |
| 4 | 4m |
| 5 | 5m |

Cable entry direction



Specifications

| Standard stroke | | mm | 100 | 200 | 300 | 400 | 500 |
|------------------------------|-----------------------------|--|---|-----|-----|-----|-----|
| Performance | Body weight | kg | 5.5 | 6.3 | 7.1 | 7.8 | 8.6 |
| | Operating temperature range | °C | 5 to 40 (with no condensation) | | | | |
| | Work load | kg | 10 | | | | |
| | Rated thrust | N | 225 | | | | |
| | Maximum speed | mm/s | 400 | | | | |
| | Positioning repeatability | mm | ±0.05 | | | | |
| Main parts | Motor | AC servomotor (100W) | | | | | |
| | Encoder | Incremental system | | | | | |
| | Lead screw | Rolled ball screw ∅12mm, 8mm lead | | | | | |
| | Guide | High rigidity direct acting guide | | | | | |
| | Motor/Screw connection | With coupling | | | | | |
| | Electromagnetic brake | Specifications | De-energized operation type, Rated voltage 24VDC ±10%, 0.4A | | | | |
| Holding torque | | 0.4N·m | | | | | |
| Connection method | | Ball screw mounting | | | | | |
| Controller | Model | LC1-1B1VH□□□□ (Refer to page 185 for details.) | | | | | |
| Regenerative absorption unit | Model | LC7R-K1□A□□ (Refer to page 200 for details.) | | | | | |

Intermediate strokes

For manufacture of strokes other than the standard strokes on the left, add "-X2" at the end of the part number.
Applicable strokes: 150, 250, 350, 450
Example) LJ1H1021NH-150K-F2-X2

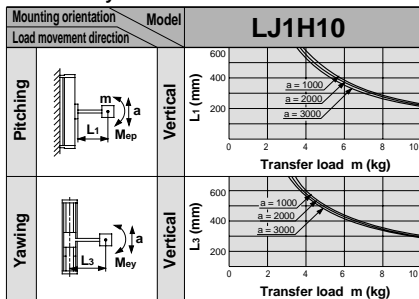
Allowable Moment (N·m)

Allowable static moment

| | |
|----------|------|
| Pitching | 10.2 |
| Yawing | 10.2 |

m : Transfer load (kg)
a : Work piece acceleration (mm/s²)
Me: Dynamic moment
L : Overhang to work piece center of gravity (mm)

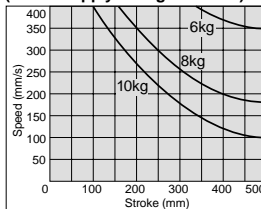
Allowable dynamic moment



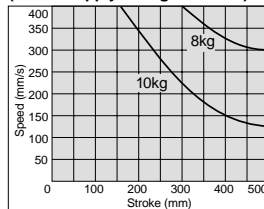
Refer to page 145 for deflection data.

Regenerative Absorption Unit Selection Guide

LJ1H1021NH-□□□K (Power supply voltage 100VAC)



LJ1H1022NH-□□□K (Power supply voltage 200VAC)

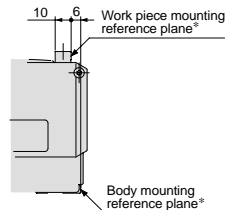
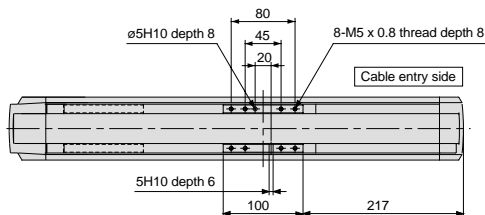


When an actuator is operated under conditions that exceed the lines in the graphs above, **be sure to use a regenerative absorption unit.**

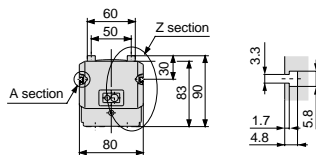
Be sure to refer to page 200 regarding regenerative absorption units.
Refer to page 204 regarding brake wiring.

Dimensions/LJ1H102□NH

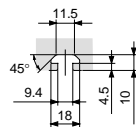
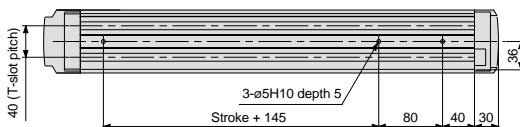
Scale: 15%



Z section detail



A section detail (Switch groove)



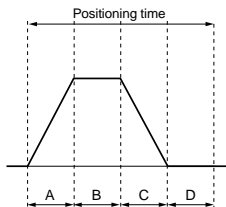
T-slot dimensions

* The body mounting reference plane and work piece mounting reference plane should be used as standards when mounting onto equipment. Refer to pages starting with 140 for mounting.

Positioning Time Guide

| | | Positioning time (sec.) | | | | |
|---------------------------|-----|-------------------------|-----|------|------|------|
| Positioning distance (mm) | | 1 | 10 | 100 | 250 | 500 |
| Speed (mm/s) | 10 | 0.4 | 1.3 | 10.3 | 25.3 | 50.3 |
| | 100 | 0.4 | 0.5 | 1.4 | 2.9 | 5.4 |
| | 200 | 0.4 | 0.5 | 0.9 | 1.7 | 2.9 |
| | 400 | 0.4 | 0.5 | 0.7 | 1.1 | 1.7 |

* Values will vary slightly depending on the operating conditions.



A: Acceleration time
 B: Constant velocity time
 C: Deceleration time
 D: Resting time (0.3sec.)
 Maximum acceleration: 3000mm/s²

LJ1

LG1

LC1

LX

LC6D/LC6C

Switches

Standard Motor Vertical Mount

Series LJ1H10

Motor Output
100W

High Rigidity
Direct Acting
Guide

Rolled Ball Screw
 $\varnothing 12\text{mm}/12\text{mm lead}$

How to Order

LJ1H102 **1** **NB** — Stroke **K** — **F** **2**

Power voltage

| | |
|---|------------------|
| 1 | 100VAC (50/60Hz) |
| 2 | 200VAC (50/60Hz) |

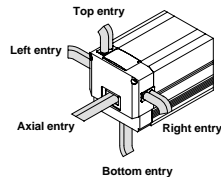
Cable entry direction

| | Actuator cable | Brake cable |
|----------|----------------|-------------|
| F | Axial | Left |
| R | Right | Axial |
| L | Left | Axial |
| T | Top | Axial |
| B | Bottom | Axial |

Cable length

| | |
|---|----|
| 2 | 2m |
| 3 | 3m |
| 4 | 4m |
| 5 | 5m |

Cable entry direction



Specifications

| Standard stroke | | mm | 100 | 200 | 300 | 400 | 500 |
|------------------------------|-----------------------------|---|--------------------------------|-----|-----|-----|-----|
| Performance | Body weight | kg | 5.5 | 6.3 | 7.1 | 7.8 | 8.6 |
| | Operating temperature range | °C | 5 to 40 (with no condensation) | | | | |
| | Work load | kg | 5 | | | | |
| | Rated thrust | N | 150 | | | | |
| | Maximum speed | mm/s | 600 | | | | |
| | Positioning repeatability | mm | ±0.05 | | | | |
| Main parts | Motor | AC servomotor (100W) | | | | | |
| | Encoder | Incremental system | | | | | |
| | Lead screw | Rolled ball screw $\varnothing 12\text{mm}$, 12mm lead | | | | | |
| | Guide | High rigidity direct acting guide | | | | | |
| | Motor/Screw connection | With coupling | | | | | |
| Electromagnetic brake | Specifications | De-energized operation type, Rated voltage 24VDC ±10%, 0.4A | | | | | |
| | Holding torque | 0.4N·m | | | | | |
| | Connection method | Ball screw mounting | | | | | |
| Controller | Model | LC1-1B1VB□□□□ (Refer to page 185 for details.) | | | | | |
| Regenerative absorption unit | Model | LC7R-K1□A□□□ (Refer to page 200 for details.) | | | | | |

Intermediate strokes

For manufacture of strokes other than the standard strokes on the left, add "-X2" at the end of the part number.
Applicable strokes: 150, 250, 350, 450
Example) LJ1H1021NB-150K-F2-X2

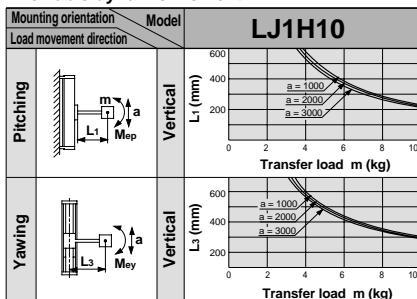
Allowable Moment (N·m)

Allowable static moment

| | |
|----------|------|
| Pitching | 10.2 |
| Yawing | 10.2 |

m : Transfer load (kg)
a : Work piece acceleration (mm/s²)
Me: Dynamic moment
L : Overhang to work piece center of gravity (mm)

Allowable dynamic moment



Refer to page 145 for deflection data.

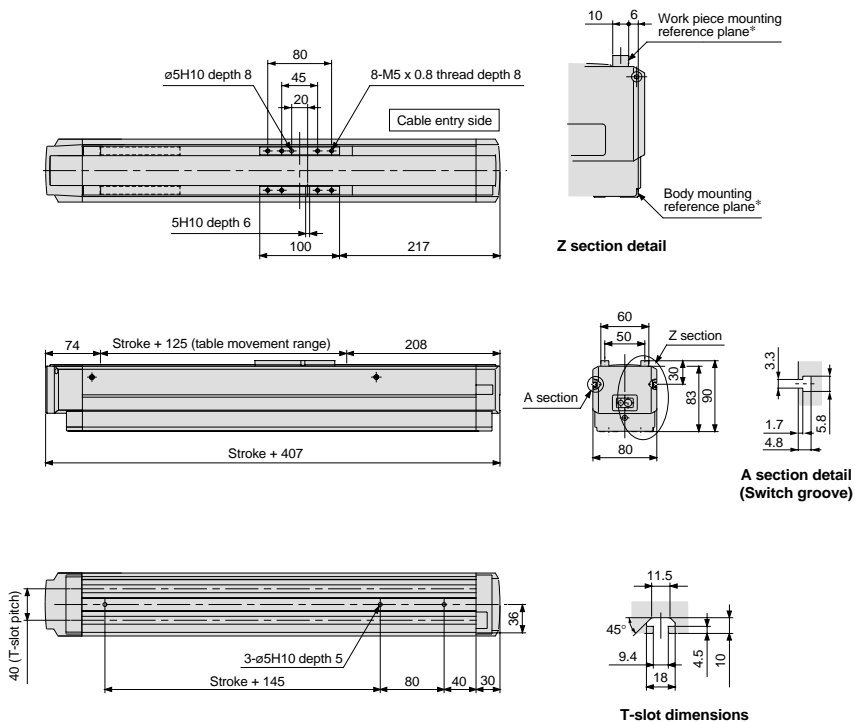
Regenerative Absorption Unit Selection Guide

It is not necessary to mount a regenerative absorption unit when the work piece load, speed, and stroke are within the actuator rating. However, use of a regenerative absorption unit is recommended under all conditions.

Actuator rating

| | |
|----------------|---------|
| Work load | 5kg |
| Maximum speed | 600mm/s |
| Maximum stroke | 500mm |

Refer to page 204 regarding brake wiring.

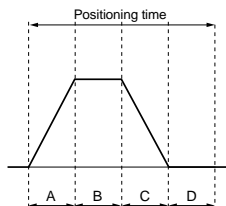
Dimensions/LJ1H102□NB**Scale: 15%**

* The body mounting reference plane and work piece mounting reference plane should be used as standards when mounting onto equipment. Refer to pages starting with 140 for mounting.

Positioning Time Guide

| | | Positioning time (sec.) | | | | |
|--------------|-----|-------------------------|-----|------|------|------|
| | | 1 | 10 | 100 | 250 | 500 |
| Speed (mm/s) | 10 | 0.4 | 1.3 | 10.3 | 25.3 | 50.3 |
| | 100 | 0.4 | 0.5 | 1.4 | 2.9 | 5.4 |
| | 300 | 0.4 | 0.5 | 0.8 | 1.3 | 2.1 |
| | 600 | 0.4 | 0.5 | 0.7 | 1.0 | 1.4 |

* Values will vary slightly depending on the operating conditions.



A: Acceleration time
 B: Constant velocity time
 C: Deceleration time
 D: Resting time (0.3sec.)
 Maximum acceleration: 3000mm/s²

Standard Motor Vertical Mount

Series LJ1H20

Motor Output
100W

High Rigidity
Direct Acting
Guide

Ground Ball Screw
∅15mm/5mm lead

How to Order

LJ1H202 **1** **PF** — Stroke **K** — **F** **2**

Power supply voltage

| | |
|---|------------------|
| 1 | 100VAC (50/60Hz) |
| 2 | 200VAC (50/60Hz) |

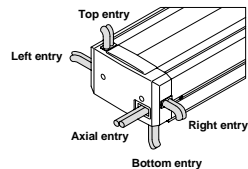
Cable entry direction

| | Actuator cable | Brake cable |
|---|----------------|-------------|
| F | Axial | Left |
| R | Right | Axial |
| L | Left | Axial |
| T | Top | Axial |
| B | Bottom | Axial |

Cable length

| | |
|---|----|
| 2 | 2m |
| 3 | 3m |
| 4 | 4m |
| 5 | 5m |

Cable entry direction



Specifications

| Standard stroke | | mm | 100 | 200 | 300 | 400 | 500 | 600 |
|------------------------------|-----------------------------|--|---|-----|------|------|------|------|
| Performance | Body weight | kg | 8.0 | 9.2 | 10.4 | 11.5 | 12.9 | 14.0 |
| | Operating temperature range | °C | 5 to 40 (with no condensation) | | | | | |
| | Work load | kg | 15 | | | | | |
| | Rated thrust | N | 360 | | | | | |
| | Maximum speed | mm/s | 250 | | | | | |
| | Positioning repeatability | mm | ±0.02 | | | | | |
| Main parts | Motor | AC servomotor (100W) | | | | | | |
| | Encoder | Incremental system | | | | | | |
| | Lead screw | Ground ball screw ∅15mm, 5mm lead | | | | | | |
| | Guide | High rigidity direct acting guide | | | | | | |
| | Motor/Screw connection | With coupling | | | | | | |
| | Electromagnetic brake | Specifications | De-energized operation type, Rated voltage 24VDC ±10%, 0.4A | | | | | |
| Holding torque | | 0.4N·m | | | | | | |
| Connection method | | Ball screw mounting | | | | | | |
| Controller | Model | LC1-1B2VF□□□□ (Refer to page 185 for details.) | | | | | | |
| Regenerative absorption unit | Model | LC7R-K1□A□□□ (Refer to page 200 for details.) | | | | | | |

Intermediate strokes

For manufacture of strokes other than the standard strokes on the left, add "-X2" at the end of the part number.
Applicable strokes: 150, 250, 350, 450, 550
Example) **LJ1H2021PF-150K-F2-X2**

Allowable Moment (N·m)

Allowable static moment

| | |
|----------|----|
| Pitching | 71 |
| Yawing | 75 |

m : Transfer load (kg)
a : Work piece acceleration (mm/s²)
Me: Dynamic moment
L : Overhang to work piece center of gravity (mm)

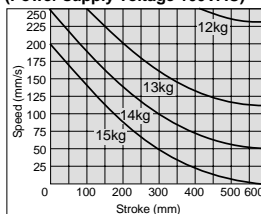
Allowable dynamic moment

| Mounting orientation | Model | |
|----------------------|--------|--|
| Pitching | LJ1H20 | |
| | | |
| Yawing | LJ1H20 | |
| | | |

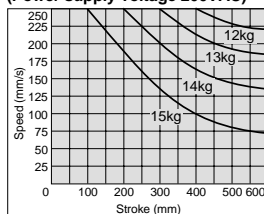
Refer to page 145 for deflection data.

Regenerative Absorption Unit Selection Guide

LJ1H2021PF-□□□K
(Power supply voltage 100VAC)



LJ1H2022PF-□□□K
(Power supply voltage 200VAC)



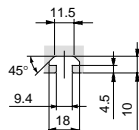
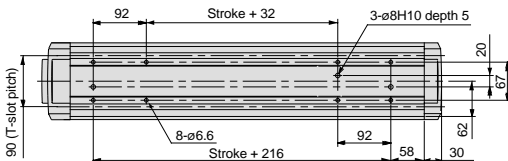
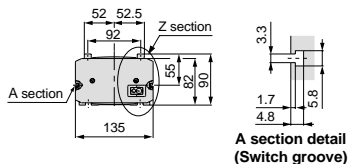
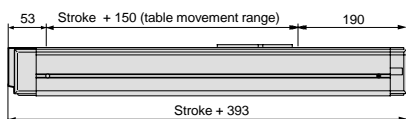
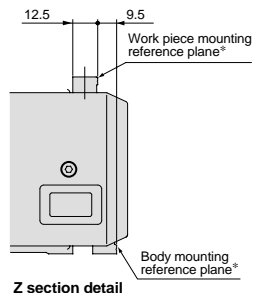
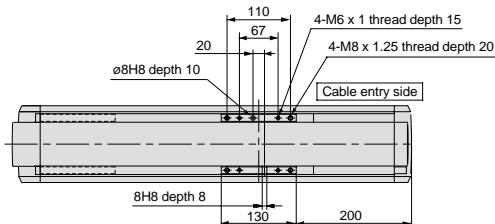
When an actuator is operated under conditions that exceed the lines in the graphs above, **be sure to use a regenerative absorption unit.**

Be sure to refer to page 200 regarding regenerative absorption units.

Refer to page 204 regarding brake wiring.

Dimensions/LJ1H20□PF

Scale: 10%



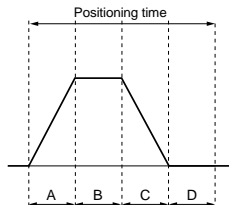
* The body mounting reference plane and work piece mounting reference plane should be used as standards when mounting onto equipment. Refer to pages starting with 140 for mounting.

T-slot dimensions

Positioning Time Guide

| | | Positioning time (sec.) | | | | |
|---------------------------|-----|-------------------------|-----|------|------|------|
| Positioning distance (mm) | | 1 | 10 | 100 | 300 | 600 |
| Speed (mm/s) | 10 | 0.5 | 1.4 | 10.4 | 30.4 | 60.4 |
| | 100 | 0.5 | 0.6 | 1.5 | 3.5 | 6.5 |
| | 125 | 0.5 | 0.6 | 1.3 | 2.9 | 5.3 |
| | 250 | 0.5 | 0.6 | 0.9 | 1.7 | 2.9 |

* Values will vary slightly depending on the operating conditions.



A: Acceleration time
 B: Constant velocity time
 C: Deceleration time
 D: Resting time (0.4sec.)
 Maximum acceleration: 3000mm/s²

LJ1

LG1

LC1

LX

LC6D/LC6C

Switches

Standard Motor
Vertical Mount

Series LJ1H20

Motor Output
100W

High Rigidity
Direct Acting
Guide

Ground Ball Screw
ø15mm/10mm lead

How to Order

LJ1H202 **1** **PA** — Stroke **K** — **F** **2**

Power supply voltage

| | |
|---|------------------|
| 1 | 100VAC (50/60Hz) |
| 2 | 200VAC (50/60Hz) |

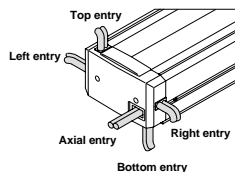
Cable entry direction

| | Actuator cable | Brake cable |
|----------|----------------|-------------|
| F | Axial | Left |
| R | Right | Axial |
| L | Left | Axial |
| T | Top | Axial |
| B | Bottom | Axial |

Cable length

| | |
|---|----|
| 2 | 2m |
| 3 | 3m |
| 4 | 4m |
| 5 | 5m |

Cable entry direction



Specifications

| Standard stroke | | mm | 100 | 200 | 300 | 400 | 500 | 600 | |
|------------------------------|-----------------------------|--|---|-----|------|------|------|------|--|
| Performance | Body weight | kg | 8.0 | 9.2 | 10.4 | 11.5 | 12.9 | 14.0 | |
| | Operating temperature range | °C | 5 to 40 (with no condensation) | | | | | | |
| | Work load | kg | 8 | | | | | | |
| | Rated thrust | N | 180 | | | | | | |
| | Maximum speed | mm/s | 500 | | | | | | |
| | Positioning repeatability | mm | ±0.02 | | | | | | |
| Main parts | Motor | AC servomotor (100W) | | | | | | | |
| | Encoder | Incremental system | | | | | | | |
| | Lead screw | Ground ball screw ø15mm, 10mm lead | | | | | | | |
| | Guide | High rigidity direct acting guide | | | | | | | |
| | Motor/Screw connection | With coupling | | | | | | | |
| | Electromagnetic brake | Specifications | De-energized operation type, Rated voltage 24VDC ±10%, 0.4A | | | | | | |
| | | Holding torque | 0.4N·m | | | | | | |
| Connection method | | Ball screw mounting | | | | | | | |
| Controller | Model | LC1-1B2VA□□□□ (Refer to page 185 for details.) | | | | | | | |
| Regenerative absorption unit | Model | LC7R-K1□A□□□ (Refer to page 200 for details.) | | | | | | | |

Intermediate strokes

For manufacture of strokes other than the standard strokes on the left, add "-X2" at the end of the part number. Applicable strokes: 150, 250, 350, 450, 550
Example) LJ1H2021PA-150K-F2-X2

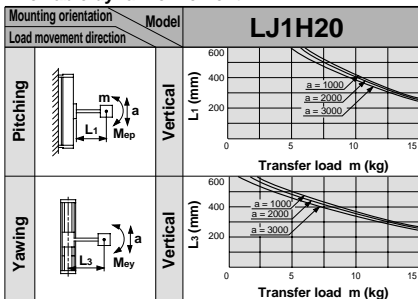
Allowable Moment (N·m)

Allowable static moment

| | |
|-----------------|----|
| Pitching | 71 |
| Yawing | 75 |

m : Transfer load (kg)
a : Work piece acceleration (mm/s²)
Me: Dynamic moment
L : Overhang to work piece center of gravity (mm)

Allowable dynamic moment



Refer to page 145 for deflection data.

Regenerative Absorption Unit Selection Guide

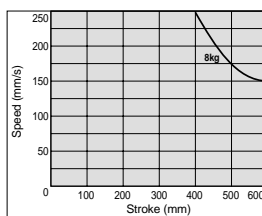
LJ1H2021PA-□□□K (Power supply voltage 100VAC)

It is not necessary to mount a regenerative absorption unit when the work piece load, speed, and stroke are within the actuator rating. However, use of a regenerative absorption unit is recommended under all conditions.

Actuator rating

| | |
|----------------|---------|
| Work load | 8kg |
| Maximum speed | 500mm/s |
| Maximum stroke | 600mm |

LJ1H2022PA-□□□K (Power supply voltage 200VAC)



When an actuator is operated under conditions that exceed the lines in the graphs above, **be sure to use a regenerative absorption unit.**

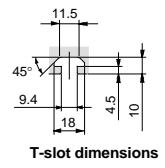
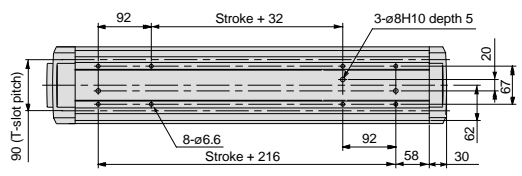
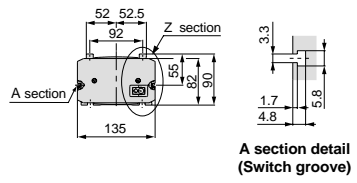
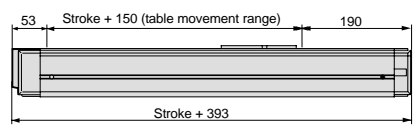
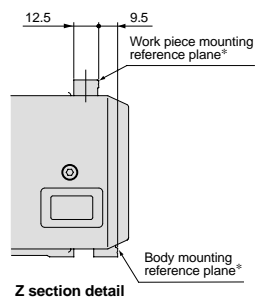
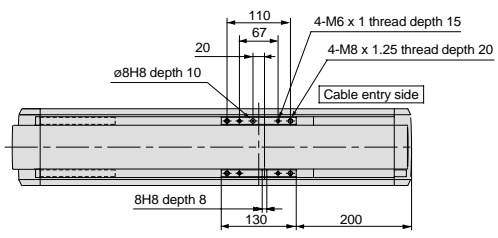
Be sure to refer to page 200 regarding regenerative absorption units.

Refer to page 204 regarding brake wiring.

Standard Motor/Vertical Mount Specification **Series LJ1H20**

Dimensions/LJ1H20□PA

Scale: 10%

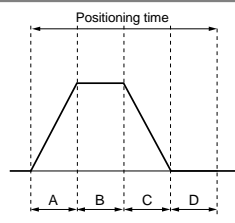


* The body mounting reference plane and work piece mounting reference plane should be used as standards when mounting onto equipment. Refer to pages starting with 140 for mounting.

Positioning Time Guide

| | | Positioning time (sec.) | | | | |
|--------------|-----|-------------------------|-----|------|------|------|
| | | 1 | 10 | 100 | 300 | 600 |
| Speed (mm/s) | 10 | 0.5 | 1.4 | 10.4 | 30.4 | 60.4 |
| | 100 | 0.5 | 0.6 | 1.5 | 3.5 | 6.5 |
| | 250 | 0.5 | 0.6 | 0.9 | 1.7 | 2.9 |
| | 500 | 0.5 | 0.6 | 0.8 | 1.2 | 1.8 |

* Values will vary slightly depending on the operating conditions.



A: Acceleration time
 B: Constant velocity time
 C: Deceleration time
 D: Resting time (0.4sec.)
 Maximum acceleration: 3000mm/s²

LJ1
 LG1
 LC1
 LX
 LC6D/LC6C
 Switches

Standard Motor
Vertical Mount

Series LJ1H20

Motor Output
100W

High Rigidity
Direct Acting
Guide

Rolled Ball Screw
∅15mm/5mm lead

How to Order

LJ1H202 **1** **NF** — Stroke **K** — **F** **2**

Power supply voltage

| | |
|---|------------------|
| 1 | 100VAC (50/60Hz) |
| 2 | 200VAC (50/60Hz) |

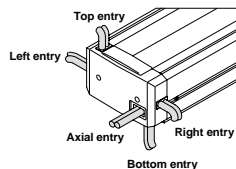
Cable entry direction

| | Actuator cable | Brake cable |
|----------|----------------|-------------|
| F | Axial | Left |
| R | Right | Axial |
| L | Left | Axial |
| T | Top | Axial |
| B | Bottom | Axial |

Cable length

| | |
|---|----|
| 2 | 2m |
| 3 | 3m |
| 4 | 4m |
| 5 | 5m |

Cable entry direction



Specifications

| Standard stroke | | mm | 100 | 200 | 300 | 400 | 500 | 600 |
|------------------------------|-----------------------------|--|---|-----|------|------|------|------|
| Performance | Body weight | kg | 8.0 | 9.2 | 10.4 | 11.5 | 12.9 | 14.0 |
| | Operating temperature range | °C | 5 to 40 (with no condensation) | | | | | |
| | Work load | kg | 15 | | | | | |
| | Rated thrust | N | 360 | | | | | |
| | Maximum speed | mm/s | 250 | | | | | |
| | Positioning repeatability | mm | ±0.05 | | | | | |
| Main parts | Motor | AC servomotor (100W) | | | | | | |
| | Encoder | Incremental system | | | | | | |
| | Lead screw | Rolled ball screw ∅15mm, 5mm lead | | | | | | |
| | Guide | High rigidity direct acting guide | | | | | | |
| | Motor/Screw connection | With coupling | | | | | | |
| | Electromagnetic brake | Specifications | De-energized operation type, Rated voltage 24VDC ±10%, 0.4A | | | | | |
| Holding torque | | 0.4N·m | | | | | | |
| Connection method | | Ball screw mounting | | | | | | |
| Controller | Model | LC1-1B2VF□□□□ (Refer to page 185 for details.) | | | | | | |
| Regenerative absorption unit | Model | LC7R-K1□□□□ (Refer to page 200 for details.) | | | | | | |

Intermediate strokes

For manufacture of strokes other than the standard strokes on the left, add "-X2" at the end of the part number.
Applicable strokes: 150, 250, 350, 450, 550
Example) **LJ1H2021NF-150K-F2-X2**

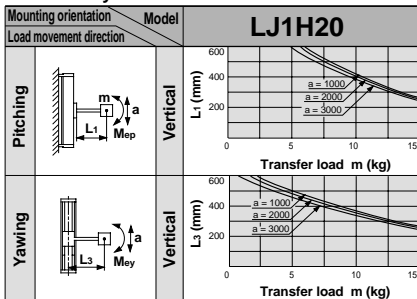
Allowable Moment (N·m)

Allowable static moment

| | |
|----------|----|
| Pitching | 71 |
| Yawing | 75 |

m : Transfer load (kg)
a : Work piece acceleration (mm/s²)
Me: Dynamic moment
L : Overhang to work piece center of gravity (mm)

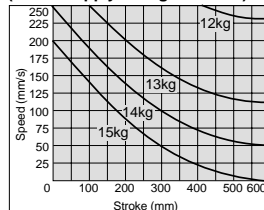
Allowable dynamic moment



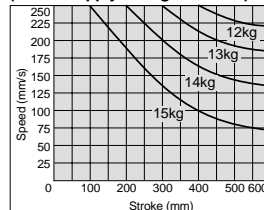
Refer to page 145 for deflection data.

Regenerative Absorption Unit Selection Guide

LJ1H2021NF-□□□K
(Power supply voltage 100VAC)



LJ1H2022NF-□□□K
(Power supply voltage 200VAC)

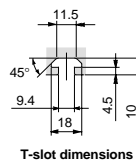
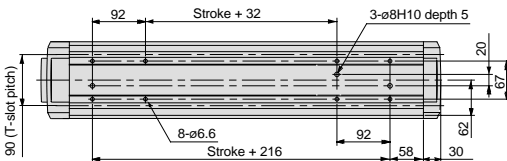
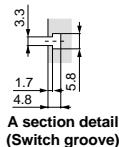
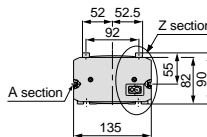
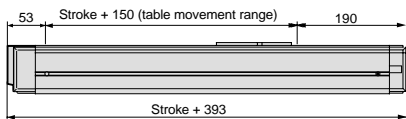
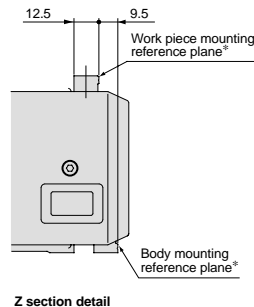
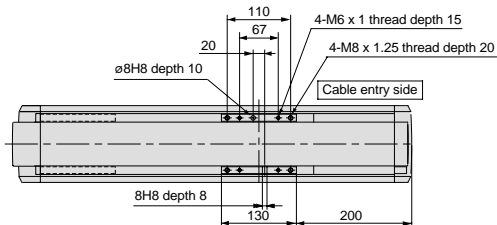


When an actuator is operated under conditions that exceed the lines in the graphs above, **be sure to use a regenerative absorption unit.**

Be sure to refer to page 200 regarding regenerative absorption units.
Refer to page 204 regarding brake wiring.

Dimensions/LJ1H20□NF

Scale: 10%

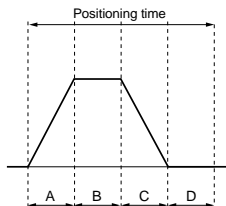


* The body mounting reference plane and work piece mounting reference plane should be used as standards when mounting onto equipment. Refer to pages starting with 140 for mounting.

Positioning Time Guide

| | | Positioning time (sec.) | | | | |
|---------------------------|-----|-------------------------|-----|------|------|------|
| Positioning distance (mm) | | 1 | 10 | 100 | 300 | 600 |
| Speed (mm/s) | 10 | 0.5 | 1.4 | 10.4 | 30.4 | 60.4 |
| | 100 | 0.5 | 0.6 | 1.5 | 3.5 | 6.5 |
| | 125 | 0.5 | 0.6 | 1.3 | 2.9 | 5.3 |
| | 250 | 0.5 | 0.6 | 0.9 | 1.7 | 2.9 |

* Values will vary slightly depending on the operating conditions.



A: Acceleration time
 B: Constant velocity time
 C: Deceleration time
 D: Resting time (0.4sec.)
 Maximum acceleration: 3000mm/s²

LJ1

LG1

LC1

LX

LC6D/LC6C

Switches

Standard Motor Vertical Mount

Series LJ1H20

Motor Output
100W

High Rigidity
Direct Acting
Guide

Rolled Ball Screw
ø 15mm/10mm lead

How to Order

LJ1H202 **1** **NA** — Stroke **K** — **F** **2**

Power supply voltage

| | |
|---|------------------|
| 1 | 100VAC (50/60Hz) |
| 2 | 200VAC (50/60Hz) |

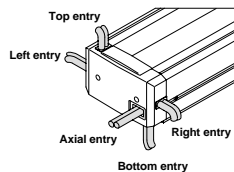
Cable entry direction

| | Actuator cable | Brake cable |
|----------|----------------|-------------|
| F | Axial | Left |
| R | Right | Axial |
| L | Left | Axial |
| T | Top | Axial |
| B | Bottom | Axial |

Cable length

| | |
|---|----|
| 2 | 2m |
| 3 | 3m |
| 4 | 4m |
| 5 | 5m |

Cable entry direction



Specifications

| | | Standard stroke | mm | 100 | 200 | 300 | 400 | 500 | 600 | |
|------------------------------|-----------------------------|--|---|-----|-----|------|------|------|------|--|
| Performance | Body weight | kg | | 8.0 | 9.2 | 10.4 | 11.5 | 12.9 | 14.0 | |
| | Operating temperature range | °C | 5 to 40 (with no condensation) | | | | | | | |
| | Work load | kg | 8 | | | | | | | |
| | Rated thrust | N | 180 | | | | | | | |
| | Maximum speed | mm/s | 500 | | | | | | | |
| | Positioning repeatability | mm | ±0.05 | | | | | | | |
| Main parts | Motor | AC servomotor (100W) | | | | | | | | |
| | Encoder | Incremental system | | | | | | | | |
| | Lead screw | Rolled ball screw ø15mm, 10mm lead | | | | | | | | |
| | Guide | High rigidity direct acting guide | | | | | | | | |
| | Motor/Screw connection | With coupling | | | | | | | | |
| | Electromagnetic brake | Specifications | De-energized operation type, Rated voltage 24VDC ±10%, 0.4A | | | | | | | |
| | | Holding torque | 0.4N·m | | | | | | | |
| Connection method | | Ball screw mounting | | | | | | | | |
| Controller | Model | LC1-1B2VA□-□□ (Refer to page 185 for details.) | | | | | | | | |
| Regenerative absorption unit | Model | LC7R-K1□A□□ (Refer to page 200 for details.) | | | | | | | | |

Intermediate strokes

For manufacture of strokes other than the standard strokes on the left, add "-X2" at the end of the part number.
Applicable strokes: 150, 250, 350, 450, 550
Example) LJ1H2021NA-150K-F2-X2

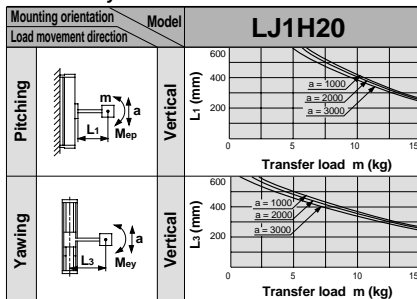
Allowable Moment (N·m)

Allowable static moment

| | |
|----------|----|
| Pitching | 71 |
| Yawing | 75 |

m : Transfer load (kg)
a : Work piece acceleration (mm/s²)
Me: Dynamic moment
L : Overhang to work piece center of gravity (mm)

Allowable dynamic moment



Refer to page 145 for deflection data.

Regenerative Absorption Unit Selection Guide

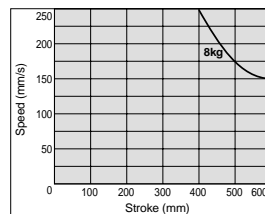
LJ1H2021NA-□□□K (Power supply voltage 100VAC)

It is not necessary to mount a regenerative absorption unit when the work piece load, speed, and stroke are within the actuator rating. However, use of a regenerative absorption unit is recommended under all conditions.

Actuator rating

| | |
|----------------|---------|
| Work load | 8kg |
| Maximum speed | 500mm/s |
| Maximum stroke | 600mm |

LJ1H2022NA-□□□K (Power supply voltage 200VAC)



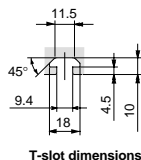
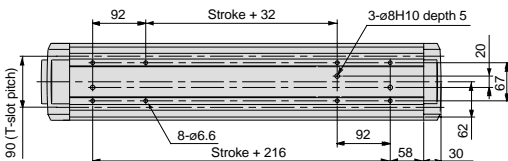
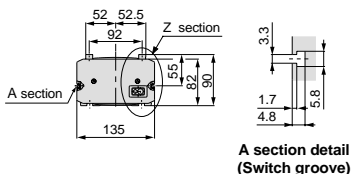
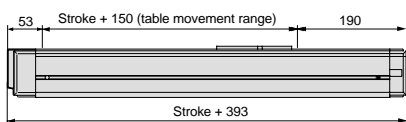
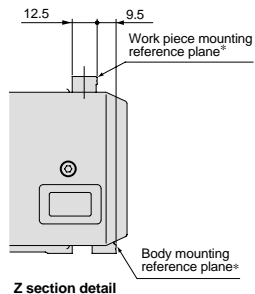
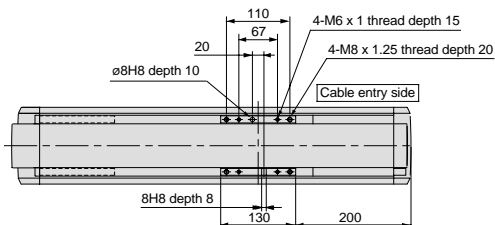
When an actuator is operated under conditions that exceed the lines in the graphs above, **be sure to use a regenerative absorption unit.**

Be sure to refer to page 200 regarding regenerative absorption units.

Refer to page 204 regarding brake wiring.

Dimensions/LJ1H20□NA

Scale: 10%

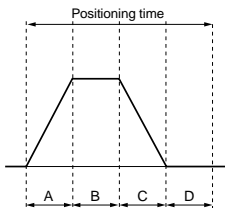


* The body mounting reference plane and work piece mounting reference plane should be used as standards when mounting onto equipment. Refer to pages starting with 140 for mounting.

Positioning Time Guide

| | | Positioning time (sec.) | | | | |
|---------------------------|-----|-------------------------|-----|------|------|------|
| Positioning distance (mm) | | 1 | 10 | 100 | 300 | 600 |
| Speed (mm/s) | 10 | 0.5 | 1.4 | 10.4 | 30.4 | 60.4 |
| | 100 | 0.5 | 0.6 | 1.5 | 3.5 | 6.5 |
| | 250 | 0.5 | 0.6 | 0.9 | 1.7 | 2.9 |
| | 500 | 0.5 | 0.6 | 0.8 | 1.2 | 1.8 |

= Values will vary slightly depending on the operating conditions.



A: Acceleration time
 B: Constant velocity time
 C: Deceleration time
 D: Resting time (0.4sec.)
 Maximum acceleration: 3000mm/s²

LJ1

LG1

LC1

LX

LC6D/LC6C

Switches

Standard Motor
Vertical Mount

Series LJ1H30

Motor Output
200W

High Rigidity
Direct Acting
Guide

Ground Ball Screw
ø20mm/10mm lead

How to Order

LJ1H303 **1** **PA** — Stroke **K** — **F** **2**

Power supply voltage

| | |
|---|------------------|
| 1 | 100VAC (50/60Hz) |
| 2 | 200VAC (50/60Hz) |

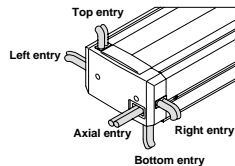
Cable entry direction

| | | |
|---|----------------|-------------|
| | Actuator cable | Brake cable |
| F | Axial | Left |
| R | Right | Axial |
| L | Left | Axial |
| T | Top | Axial |
| B | Bottom | Axial |

Cable length

| | |
|---|----|
| 2 | 2m |
| 3 | 3m |
| 4 | 4m |
| 5 | 5m |

Cable entry direction



Specifications

| | | | | | | | |
|-----------------------|------------------------------|-------|---|------------|------------|------------|------------|
| | Standard stroke | mm | 200 | 300 | 400 | 500 | 600 |
| Performance | Body weight | kg | 16.3 | 18.3 | 20.3 | 22.3 | 24.3 |
| | Operating temperature range | °C | 5 to 40 (with no condensation) | | | | |
| | Work load | kg | 20 | | | | |
| | Rated thrust | N | 360 | | | | |
| | Maximum speed | mm/s | 500 | | | | |
| Main parts | Positioning repeatability | mm | ±0.02 | | | | |
| | Motor | | AC servomotor (200W) | | | | |
| | Encoder | | Incremental system | | | | |
| | Lead screw | | Ground ball screw ø20mm, 10mm lead | | | | |
| | Guide | | High rigidity direct acting guide | | | | |
| | Motor/Screw connection | | With coupling | | | | |
| Electromagnetic brake | Specifications | | De-energized operation type, Rated voltage 24VDC ±10%, 0.5A | | | | |
| | Holding torque | | 1.0N·m | | | | |
| | Connection method | | Ball screw mounting | | | | |
| Controller | Model | | LC1-1B3VA□□□□ (Refer to page 185 for details.) | | | | |
| | Regenerative absorption unit | Model | LC7R-K1□A□□ (Refer to page 200 for details.) | | | | |

Intermediate strokes

For manufacture of strokes other than the standard strokes on the left, add "X2" at the end of the part number.
Applicable strokes: 250, 350, 450, 550
Example) LJ1H3031PA-250K-F2-X2

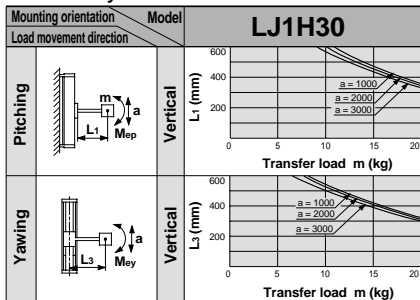
Allowable Moment (N·m)

Allowable static moment

| | |
|----------|-----|
| Pitching | 117 |
| Yawing | 123 |

m : Transfer load (kg)
a : Work piece acceleration (mm/s²)
Me: Dynamic moment
L : Overhang to work piece center of gravity (mm)

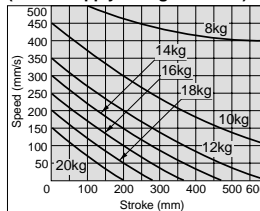
Allowable dynamic moment



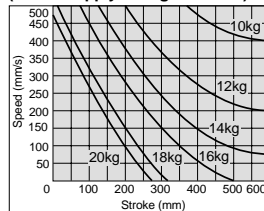
Refer to page 145 for deflection data.

Regenerative Absorption Unit Selection Guide

LJ1H3031PA-□□□K
(Power supply voltage 100VAC)



LJ1H3032PA-□□□K
(Power supply voltage 200VAC)

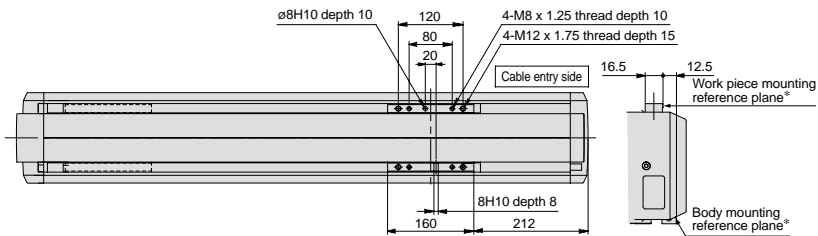
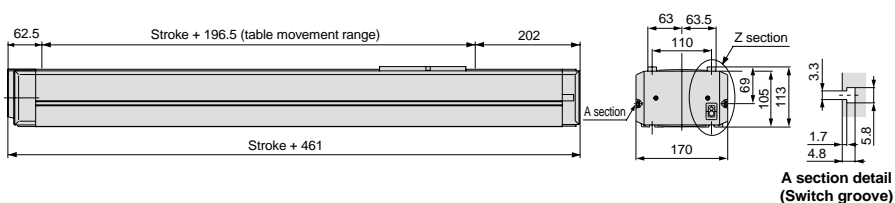
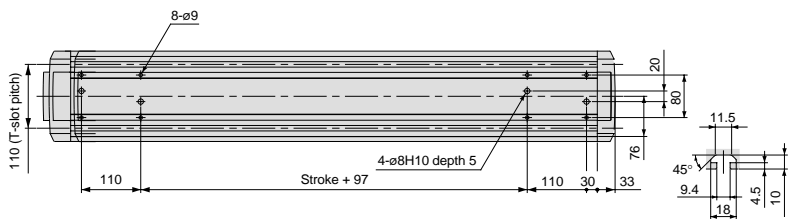


When an actuator is operated under conditions that exceed the lines in the graphs above, **be sure to use a regenerative absorption unit.**

Be sure to refer to page 200 regarding regenerative absorption units.
Refer to page 204 regarding brake wiring.

Standard Motor/Vertical Mount Specification *Series LJ1H30*

Dimensions/LJ1H30□PA

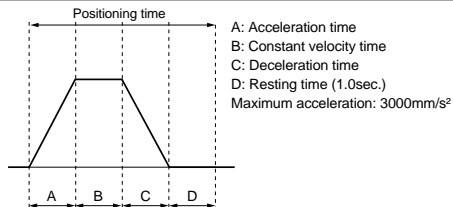
Scale: 10%

Z section detail

A section detail (Switch groove)

T-slot dimensions

* The body mounting reference plane and work piece mounting reference plane should be used as standards when mounting onto equipment. Refer to pages starting with 140 for mounting.

Positioning Time Guide

| | | Positioning time (sec.) | | | | |
|--------------|-----|-------------------------|-----|------|------|------|
| | | 1 | 10 | 100 | 300 | 600 |
| Speed (mm/s) | 10 | 1.1 | 2.0 | 11.0 | 31.0 | 61.0 |
| | 100 | 1.1 | 1.2 | 2.1 | 4.1 | 7.1 |
| | 250 | 1.1 | 1.2 | 1.5 | 2.3 | 3.5 |
| | 500 | 1.1 | 1.2 | 1.4 | 1.8 | 2.4 |

* Values will vary slightly depending on the operating conditions.



A: Acceleration time
 B: Constant velocity time
 C: Deceleration time
 D: Resting time (1.0sec.)
 Maximum acceleration: 3000mm/s²

LJ1
LG1
LC1
LX
LC6D/LC6C
Switches

Standard Motor
Vertical Mount

Series LJ1H30

Motor Output
200W

High Rigidity
Direct Acting
Guide

Rolled Ball Screw
∅20mm/10mm lead

How to Order

LJ1H303 **1** **NA** — Stroke **K** — **F** **2**

Power supply voltage

| | |
|---|------------------|
| 1 | 100VAC (50/60Hz) |
| 2 | 200VAC (50/60Hz) |

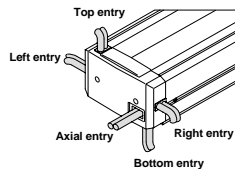
Cable entry direction

| | Actuator cable | Brake cable |
|----------|----------------|-------------|
| F | Axial | Left |
| R | Right | Axial |
| L | Left | Axial |
| T | Top | Axial |
| B | Bottom | Axial |

Cable length

| | |
|---|----|
| 2 | 2m |
| 3 | 3m |
| 4 | 4m |
| 5 | 5m |

Cable entry direction



Specifications

| Standard stroke | | mm | 200 | 300 | 400 | 500 | 600 |
|------------------------------|-----------------------------|--|---|------|------|------|------|
| Performance | Body weight | kg | 16.3 | 18.3 | 20.3 | 22.3 | 24.3 |
| | Operating temperature range | °C | 5 to 40 (with no condensation) | | | | |
| | Work load | kg | 20 | | | | |
| | Rated thrust | N | 360 | | | | |
| | Maximum speed | mm/s | 500 | | | | |
| | Positioning repeatability | mm | ±0.05 | | | | |
| Main parts | Motor | AC servomotor (200W) | | | | | |
| | Encoder | Incremental system | | | | | |
| | Lead screw | Rolled ball screw ∅20mm, 10mm lead | | | | | |
| | Guide | High rigidity direct acting guide | | | | | |
| | Motor/Screw connection | With coupling | | | | | |
| | Electromagnetic brake | Specifications | De-energized operation type, Rated voltage 24VDC ±10%, 0.5A | | | | |
| Holding torque | | 1.0N-m | | | | | |
| Connection method | | Ball screw mounting | | | | | |
| Controller | Model | LC1-1B3VA□□□□ (Refer to page 185 for details.) | | | | | |
| Regenerative absorption unit | Model | LC7R-K1□A□□□ (Refer to page 200 for details.) | | | | | |

Intermediate strokes

For manufacture of strokes other than the standard strokes on the left, add "-X2" at the end of the part number.
Applicable strokes: 250, 350, 450, 550
Example) LJ1H3031NA-250K-F2-X2

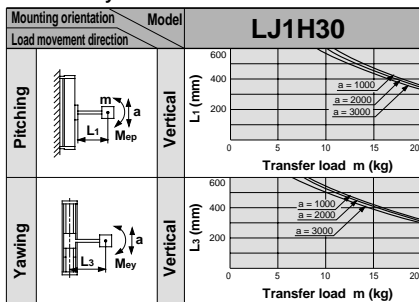
Allowable Moment (N-m)

Allowable static moment

| | |
|----------|-----|
| Pitching | 117 |
| Yawing | 123 |

m : Transfer load (kg)
a : Work piece acceleration (mm/s²)
Me: Dynamic moment
L : Overhang to work piece center of gravity (mm)

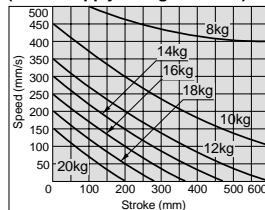
Allowable dynamic moment



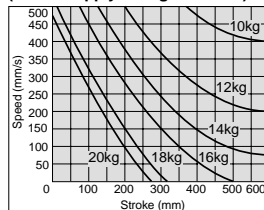
Refer to page 145 for deflection data.

Regenerative Absorption Unit Selection Guide

LJ1H3031NA-□□□K
(Power supply voltage 100VAC)



LJ1H3032NA-□□□K
(Power supply voltage 200VAC)

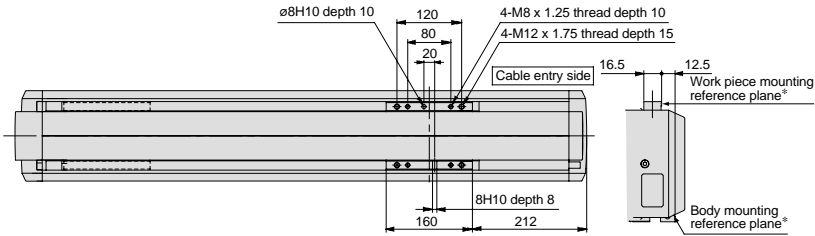


When an actuator is operated under conditions that exceed the lines in the graphs above, **be sure to use a regenerative absorption unit.**

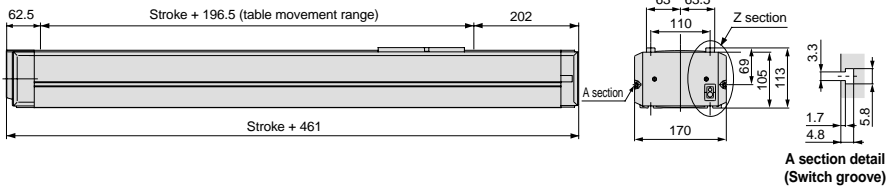
Be sure to refer to page 200 regarding regenerative absorption units.
Refer to page 204 regarding brake wiring.

Dimensions/LJ1H30□NA

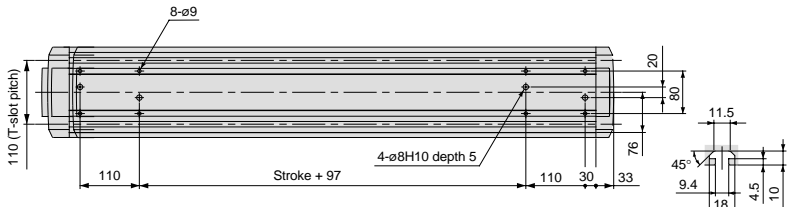
Scale: 10%



Z section detail



A section detail (Switch groove)



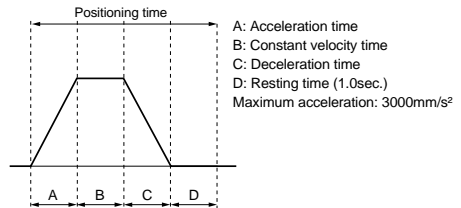
T-slot dimensions

* The body mounting reference plane and work piece mounting reference plane should be used as standards when mounting onto equipment. Refer to pages starting with 140 for mounting.

Positioning Time Guide

| | | Positioning time (sec.) | | | | |
|--------------|-----|-------------------------|-----|------|------|------|
| | | 1 | 10 | 100 | 300 | 600 |
| Speed (mm/s) | 10 | 0.5 | 2.0 | 11.0 | 31.0 | 61.0 |
| | 100 | 1.1 | 1.2 | 2.1 | 4.1 | 7.1 |
| | 250 | 1.1 | 1.2 | 1.5 | 2.3 | 3.5 |
| | 500 | 1.1 | 1.2 | 1.4 | 1.8 | 2.4 |

* Values will vary slightly depending on the operating conditions.



LJ1

LG1

LC1

LX

LC6D/LC6C

Switches

Non-standard Motor

Horizontal Mount

Series LJ1H10

Motor Output
50W

High Rigidity
Direct Acting
Guide

Ground Ball Screw
∅12mm/12mm lead

How to Order

LJ1H10 **G** 1 **1** **PB** — Stroke — **F** **W** — X10

Motor specification

| | |
|----------|--|
| G | Matsushita Electric Industrial Co., Ltd. |
| R | Mitsubishi Electric Corporation |
| Y | Yaskawa Electric Corporation |

Power supply voltage

| | |
|----------|----------------------|
| 1 | 100/115VAC (50/60Hz) |
| 2 | 200/230VAC (50/60Hz) |
| 0 | Without motor |

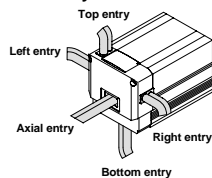
Cable entry direction

| | |
|----------|--------|
| F | Axial |
| R | Right |
| L | Left |
| T | Top |
| B | Bottom |

Switch

| | |
|------------|-------------------------|
| Nil | None |
| W | N.C. (B contact) 2 pcs. |

Cable entry direction



Specifications

| | | Standard stroke | mm | 100 | 200 | 300 | 400 | 500 |
|--------------------|-----------------------------|--|--------------------------------|-----|-----|-----|-----|-----|
| Performance | Body weight (without motor) | kg | | 4.8 | 5.6 | 6.4 | 7.1 | 7.9 |
| | Operating temperature range | °C | 5 to 40 (with no condensation) | | | | | |
| | Work load | kg | 10 | | | | | |
| | Maximum speed | mm/s | 600 | | | | | |
| | Positioning repeatability | mm | ±0.02 | | | | | |
| Main parts | Motor | AC servomotor (50W) | | | | | | |
| | Encoder | Incremental system | | | | | | |
| | Lead screw | Ground ball screw ∅12mm, 12mm lead | | | | | | |
| | Guide | High rigidity direct acting guide | | | | | | |
| | Motor/Screw connection | With coupling | | | | | | |
| Switch | Model | D-Y7GL | | | | | | |
| | Specifications | Power supply voltage: 4.5 to 28VDC Current consumption: 10mA or less Control output: Open collector, Load current: 40mA or less Internal voltage drop: 1.5V or less | | | | | | |

Intermediate strokes

Strokes other than the standard strokes on the left are available by special order. Consult SMC.

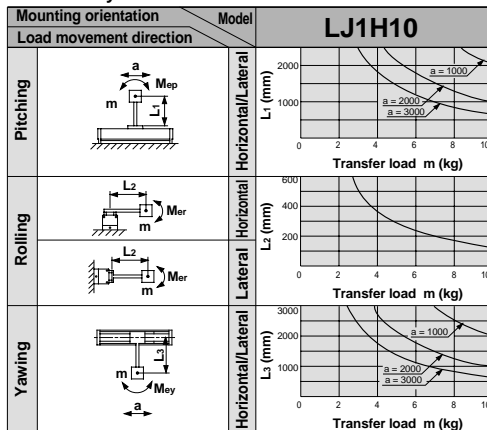
Allowable Moment (N·m)

Allowable static moment

| | |
|-----------------|------|
| Pitching | 10.2 |
| Rolling | 12.8 |
| Yawing | 10.2 |

m : Transfer load (kg)
a : Work piece acceleration (mm/s²)
Me: Dynamic moment
L : Overhang to work piece center of gravity (mm)

Allowable dynamic moment

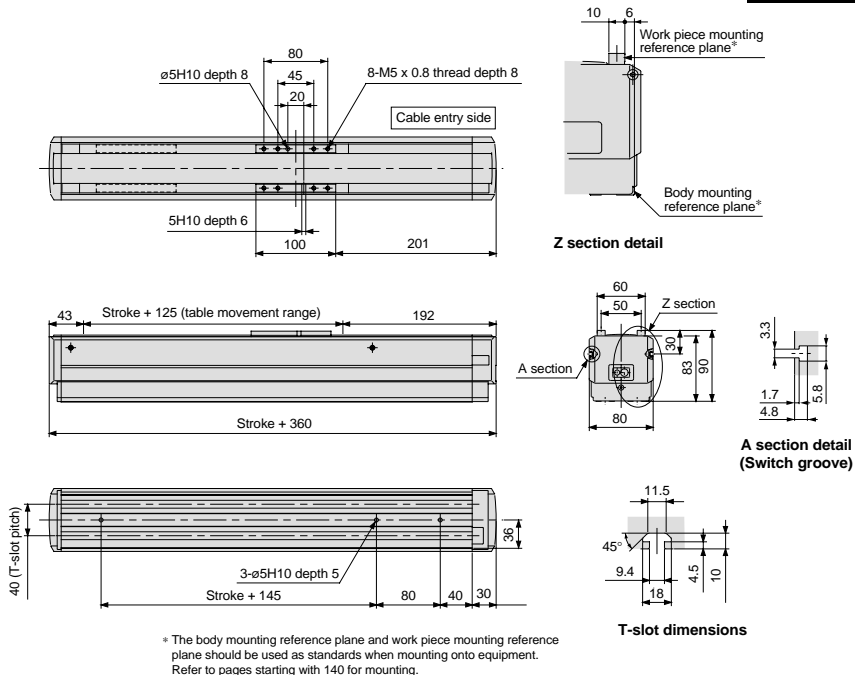


Refer to page 145 for deflection data.

Non-standard Motor/Horizontal Mount Specification *Series LJ1H10*

Dimensions/LJ1H10□1□PB(X10)

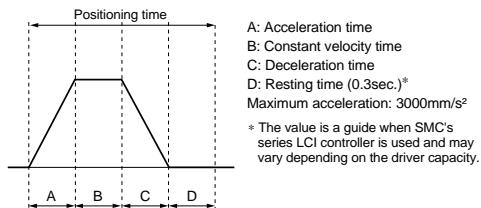
Scale: 15%



Positioning Time Guide

| | | Positioning time (sec.) | | | | |
|---------------------------|-----|-------------------------|-----|------|------|------|
| Positioning distance (mm) | | 1 | 10 | 100 | 250 | 500 |
| Speed (mm/s) | 10 | 0.4 | 1.3 | 10.3 | 25.3 | 50.3 |
| | 100 | 0.4 | 0.5 | 1.4 | 2.9 | 5.4 |
| | 300 | 0.4 | 0.5 | 0.8 | 1.3 | 2.1 |
| | 600 | 0.4 | 0.5 | 0.7 | 1.0 | 1.4 |

* Values will vary slightly depending on the operating conditions.



Non-standard Motors: The following motors will be mounted when a motor mounted type is specified.

| | Motor output (W) | Power supply voltage (VAC) | Motor model | Compatible driver model |
|--|------------------|----------------------------|-------------|-------------------------|
| Matsushita Electric Industrial Co., Ltd. | 50 | 100/115 | MSM5AZP1A | MSD5A1P1E |
| | | 200/230 | | MSD5A3P1E |
| Mitsubishi Electric Corporation | 50 | 100/115 | HC-PQ053 | MR-C10A1 |
| | | 200/230 | | MR-C10A |
| Yaskawa Electric Corporation | 50 | 100/115 | SGME-A5BF12 | SGDE-A5BP |
| | | 200/230 | | SGME-A5AF12 |

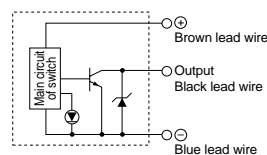
* For motor mounting dimensions, refer to the dimensions for series LJ1H10 on page 143 as a reference for mounting and design.

* Refer to pages starting with 205 for driver dimensions, etc. Furthermore, for detailed specifications, etc., contact each motor manufacturer.

* For a non-standard motor specification when the motor is mounted before shipping, the driver is included but the cable that connects the motor and driver is optional. Refer to page 100 for part numbers.

Switch Internal Circuit

D-Y7GL



Non-standard Motor

Horizontal Mount

Series LJ1H10

Motor Output
50W

High Rigidity
Direct Acting
Guide

Rolled Ball Screw
∅12mm/12mm lead

How to Order

LJ1H10 **G** 1 1 **NB** — Stroke — **F** **W** — X10

Motor specification

| | |
|----------|--|
| G | Mitsubishi Electric Industrial Co., Ltd. |
| R | Mitsubishi Electric Corporation |
| Y | Yaskawa Electric Corporation |

Power supply voltage

| | |
|----------|----------------------|
| 1 | 100/115VAC (50/60Hz) |
| 2 | 200/230VAC (50/60Hz) |
| 0 | Without motor |

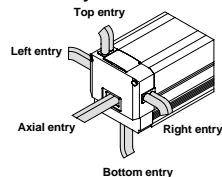
Cable entry direction

| | |
|----------|--------|
| F | Axial |
| R | Right |
| L | Left |
| T | Top |
| B | Bottom |

Switch

| | |
|------------|-------------------------|
| Nil | None |
| W | N.C. (B contact) 2 pcs. |

Cable entry direction



Specifications

| Standard stroke | | mm | 100 | 200 | 300 | 400 | 500 |
|--------------------|-----------------------------|--|--------------------------------|-----|-----|-----|-----|
| Performance | Body weight (without motor) | kg | 4.8 | 5.6 | 6.4 | 7.1 | 7.9 |
| | Operating temperature range | °C | 5 to 40 (with no condensation) | | | | |
| | Work load | kg | 10 | | | | |
| | Maximum speed | mm/s | 600 | | | | |
| | Positioning repeatability | mm | ±0.05 | | | | |
| Main parts | Motor | AC servomotor (50W) | | | | | |
| | Encoder | Incremental system | | | | | |
| | Lead screw | Rolled ball screw ∅12mm, 12mm lead | | | | | |
| | Guide | High rigidity direct acting guide | | | | | |
| Switch | Motor/Screw connection | With coupling | | | | | |
| | Model | D-Y7GL | | | | | |
| Switch | Specifications | Power supply voltage: 4.5 to 28VDC Current consumption: 10mA or less Control output: Open collector, Load current: 40mA or less Internal voltage drop: 1.5V or less | | | | | |

Intermediate strokes

Strokes other than the standard strokes on the left are available by special order. Consult SMC.

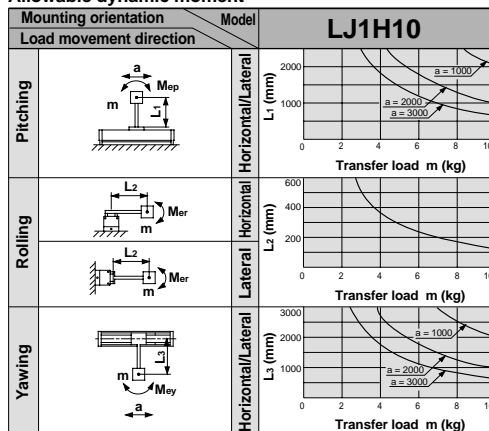
Allowable Moment (N·m)

Allowable static moment

| | |
|-----------------|------|
| Pitching | 10.2 |
| Rolling | 12.8 |
| Yawing | 10.2 |

m : Transfer load (kg)
a : Work piece acceleration (mm/s²)
Me: Dynamic moment
L : Overhang to work piece center of gravity (mm)

Allowable dynamic moment

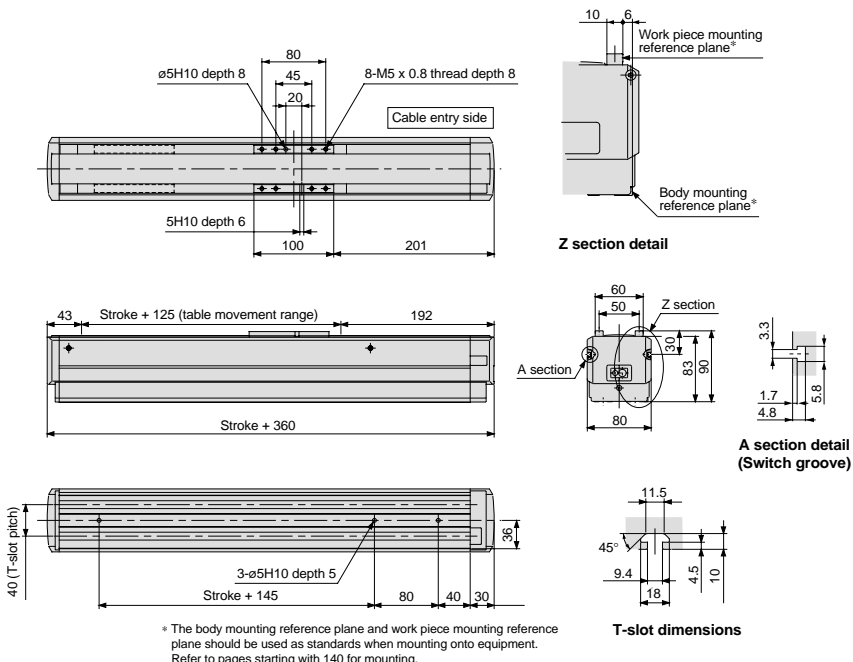


Refer to page 145 for deflection data.

Non-standard Motor/Horizontal Mount Specification *Series LJ1H10*

Dimensions/LJ1H10□1□NB(X10)

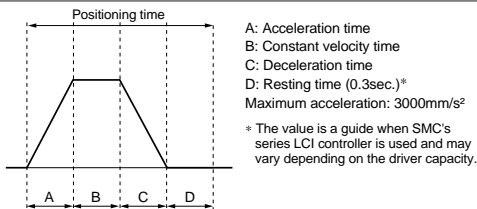
Scale: 15%



Positioning Time Guide

| Positioning distance (mm) | Positioning time (sec.) | | | | |
|---------------------------|-------------------------|-----|------|------|------|
| | 1 | 10 | 100 | 250 | 500 |
| Speed (mm/s) | | | | | |
| 10 | 0.4 | 1.3 | 10.3 | 25.3 | 50.3 |
| 100 | 0.4 | 0.5 | 1.4 | 2.9 | 5.4 |
| 300 | 0.4 | 0.5 | 0.8 | 1.3 | 2.1 |
| 600 | 0.4 | 0.5 | 0.7 | 1.0 | 1.4 |

* Values will vary slightly depending on the operating conditions.



Non-standard Motors: The following motors will be mounted when a motor mounted type is specified.

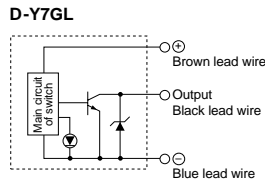
| | Motor output (W) | Power supply voltage (VAC) | Motor model | Compatible driver model |
|--|------------------|----------------------------|-------------|-------------------------|
| Matsushita Electric Industrial Co., Ltd. | 50 | 100/115 | MSM5AZP1A | MSD5A1P1E |
| | | 200/230 | | MSD5A3P1E |
| Mitsubishi Electric Corporation | 50 | 100/115 | HC-PQ053 | MR-C10A1 |
| | | 200/230 | | MR-C10A |
| Yaskawa Electric Corporation | 50 | 100/115 | SGME-A5BF12 | SGDE-A5BP |
| | | 200/230 | SGME-A5AF12 | SGDE-A5AP |

* For motor mounting dimensions, refer to the dimensions for series LJ1H10 on page 143 as a reference for mounting and design.

* Refer to pages starting with 205 for driver dimensions, etc. Furthermore, for detailed specifications, etc., contact each motor manufacturer.

* For a non-standard motor specification, when the motor is mounted before shipping, the driver is included but the cable that connects the motor and driver is optional. Refer to page 100 for part numbers.

Switch Internal Circuit



Non-standard Motor

Horizontal Mount

Series LJ1H10

Motor Output
50W

High Rigidity
Direct Acting
Guide

Slide Screw
 $\varnothing 20\text{mm}/20\text{mm}$ lead

How to Order

LJ1H10 **G** 1 1 **SC** — Stroke — **F** **W** — X10

Motor specification

| | |
|----------|--|
| G | Matsushita Electric Industrial Co., Ltd. |
| R | Mitsubishi Electric Corporation |
| Y | Yaskawa Electric Corporation |

Power supply voltage

| | |
|----------|----------------------|
| 1 | 100/115VAC (50/60Hz) |
| 2 | 200/230VAC (50/60Hz) |
| 0 | Without motor |

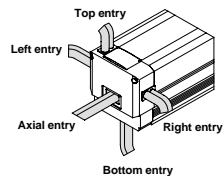
Cable entry direction

| | |
|----------|--------|
| F | Axial |
| R | Right |
| L | Left |
| T | Top |
| B | Bottom |

Switch

| | |
|------------|-------------------------|
| Nil | None |
| W | N.C. (B contact) 2 pcs. |

Cable entry direction



Specifications

| | Standard stroke | mm | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |
|--------------------|-----------------------------|------|--|-----|-----|-----|-----|-----|------|------|------|------|
| Performance | Body weight (without motor) | kg | 4.9 | 5.8 | 6.8 | 7.6 | 8.4 | 9.3 | 10.1 | 10.9 | 11.8 | 12.6 |
| | Operating temperature range | °C | 5 to 40 (with no condensation) | | | | | | | | | |
| | Work load | kg | 10 | | | | | | | | | |
| | Maximum speed | mm/s | 500 | | | | | | | | | |
| | Positioning repeatability | mm | ±0.1 | | | | | | | | | |
| Main parts | Motor | | AC servomotor (50W) | | | | | | | | | |
| | Encoder | | Incremental system | | | | | | | | | |
| | Lead screw | | Slide screw $\varnothing 20\text{mm}$, 20mm lead | | | | | | | | | |
| | Guide | | High rigidity direct acting guide | | | | | | | | | |
| | Motor/Screw connection | | With coupling | | | | | | | | | |
| Switch | Model | | D-Y7GL | | | | | | | | | |
| | Specifications | | Power supply voltage: 4.5 to 28VDC, Current consumption: 10mA or less Control output: Open collector, Load current: 40mA or less, Internal voltage drop: 1.5V or less | | | | | | | | | |

Intermediate strokes

Strokes other than the standard strokes above are available by special order. Consult SMC.

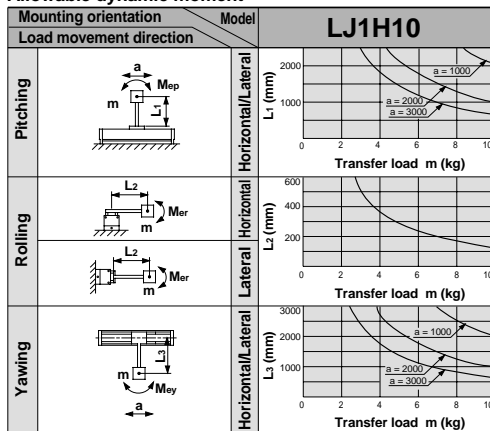
Allowable Moment (N·m)

Allowable static moment

| | |
|-----------------|------|
| Pitching | 10.2 |
| Rolling | 12.8 |
| Yawing | 10.2 |

m : Transfer load (kg)
a : Work piece acceleration (mm/s²)
Me : Dynamic moment
L : Overhang to work piece center of gravity (mm)

Allowable dynamic moment

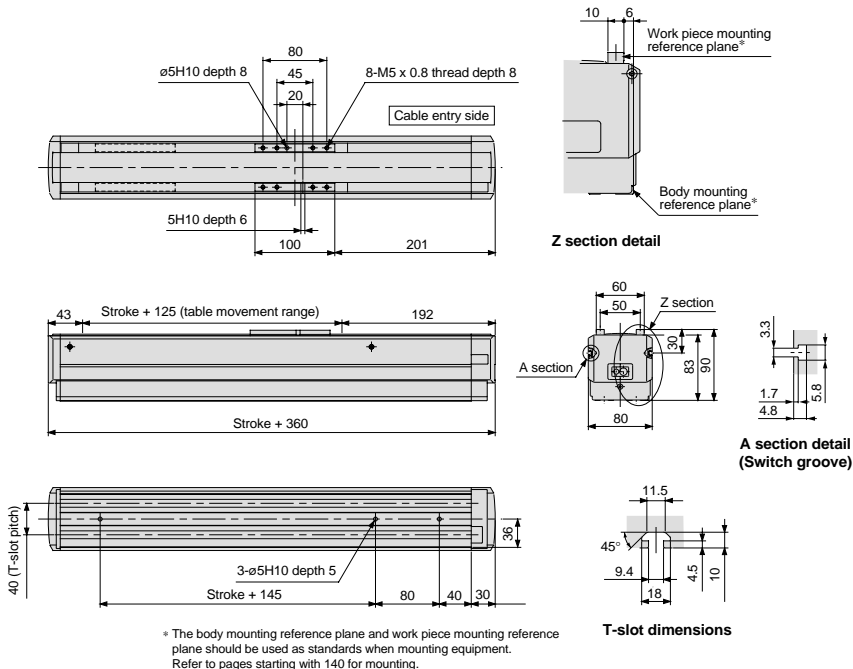


Refer to page 145 for deflection data.

Non-standard Motor/Horizontal Mount Specification **Series LJ1H10**

Dimensions/LJ1H10□1□SC(X10)

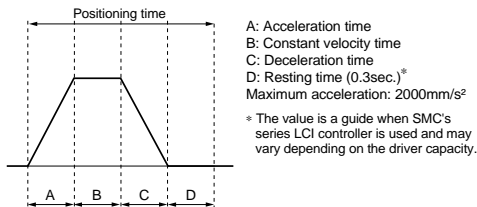
Scale: 15%



Positioning Time Guide

| Positioning distance (mm) | | Positioning time (sec.) | | | | |
|---------------------------|-----|-------------------------|-----|------|------|-------|
| | | 1 | 10 | 100 | 500 | 1000 |
| Speed (mm/s) | 10 | 0.5 | 1.4 | 10.4 | 50.4 | 100.4 |
| | 100 | 0.4 | 0.5 | 1.4 | 5.4 | 10.4 |
| | 250 | 0.4 | 0.5 | 0.9 | 2.5 | 4.5 |
| | 500 | 0.4 | 0.5 | 0.8 | 1.6 | 2.6 |

* Values will vary slightly depending on the operating conditions.



Non-standard Motors: The following motors will be mounted when a motor mounted type is specified.

| | Motor output (W) | Power supply voltage (VAC) | Motor model | Compatible driver model |
|--|------------------|----------------------------|-------------|-------------------------|
| Matsushita Electric Industrial Co., Ltd. | 50 | 100/115 | MSM5AZP1A | MSD5A1P1E |
| | | 200/230 | | MSD5A3P1E |
| Mitsubishi Electric Corporation | 50 | 100/115 | HC-PQ053 | MR-C10A1 |
| | | 200/230 | | MR-C10A |
| Yaskawa Electric Corporation | 50 | 100/115 | SGME-A5BF12 | SGDE-A5BP |
| | | 200/230 | SGME-A5AF12 | SGDE-A5AP |

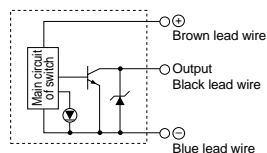
* For motor mounting dimensions, refer to the dimensions for series LJ1₅H10 on page 143 as a reference for mounting and design.

* Refer to pages starting with 205 for driver dimensions, etc. Furthermore, for detailed specifications, etc., contact each motor manufacturer.

* For a non-standard motor specification, when the motor is mounted before shipping, the driver is included but the cable that connects the motor and driver is optional. Refer to page 100 for part numbers.

Switch Internal Circuit

D-Y7GL



Non-standard Motor
Horizontal Mount

Series LJ1H20

Motor Output
100W

High Rigidity
Direct Acting
Guide

Ground Ball Screw
 $\varnothing 15\text{mm}/10\text{mm}$ lead

How to Order

LJ1H20 **G** **2** **1** **PA** — **Stroke** — **F** **W** — **X10**

Motor specification

| | |
|----------|--|
| G | Matsushita Electric Industrial Co., Ltd. |
| R | Mitsubishi Electric Corporation |
| Y | Yaskawa Electric Corporation |

Power supply voltage

| | |
|----------|----------------------|
| 1 | 100/115VAC (50/60Hz) |
| 2 | 200/230VAC (50/60Hz) |
| 0 | Without motor |

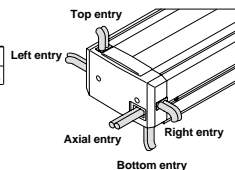
Cable entry direction

| | |
|----------|--------|
| F | Axial |
| R | Right |
| L | Left |
| T | Top |
| B | Bottom |

Switch

| | |
|------------|-------------------------|
| Nil | None |
| W | N.C. (B contact) 2 pcs. |

Cable entry direction



Specifications

| | Standard stroke | mm | 100 | 200 | 300 | 400 | 500 | 600 |
|--------------------|-----------------------------|------|--|-----|-----|------|------|------|
| Performance | Body weight (without motor) | kg | 7.2 | 8.4 | 9.6 | 10.7 | 12.1 | 13.2 |
| | Operating temperature range | °C | 5 to 40 (with no condensation) | | | | | |
| | Work load | kg | 30 | | | | | |
| | Maximum speed | mm/s | 500 | | | | | |
| | Positioning repeatability | mm | ±0.02 | | | | | |
| Main parts | Motor | | AC servomotor (100W) | | | | | |
| | Encoder | | Incremental system | | | | | |
| | Lead screw | | Ground ball screw $\varnothing 15\text{mm}$, 10mm lead | | | | | |
| | Guide | | High rigidity direct acting guide | | | | | |
| | Motor/Screw connection | | With coupling | | | | | |
| Switch | Model | | D-Y7GL | | | | | |
| | Specifications | | Power supply voltage: 4.5 to 28VDC Current consumption: 10mA or less Control output: Open collector, Load current: 40mA or less Internal voltage drop: 1.5V or less | | | | | |

Intermediate strokes

Strokes other than the standard strokes on the left are available by special order. Consult SMC.

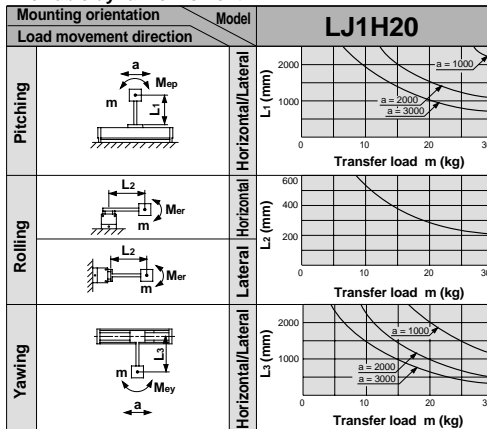
Allowable Moment (N·m)

Allowable static moment

| | |
|-----------------|----|
| Pitching | 71 |
| Rolling | 83 |
| Yawing | 75 |

m : Transfer load (kg)
a : Work piece acceleration (mm/s²)
Me: Dynamic moment
L : Overhang to work piece center of gravity (mm)

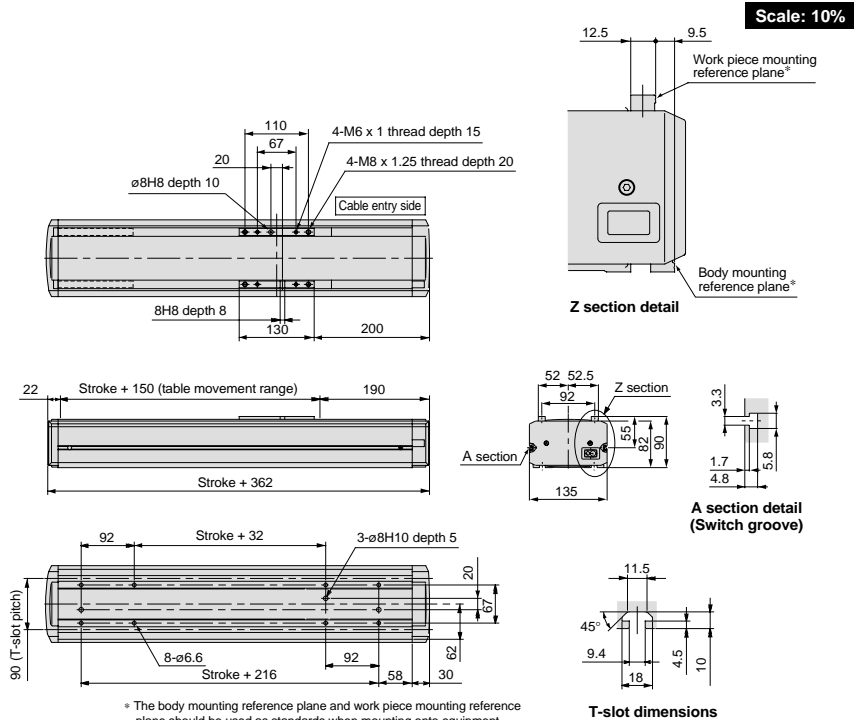
Allowable dynamic moment



Refer to page 145 for deflection data.

Non-standard Motor/Horizontal Mount Specification **Series LJ1H20**

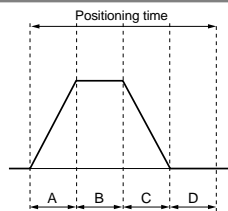
Dimensions/LJ1H20□2□PA(X10)



Positioning Time Guide

| Positioning distance (mm) | Positioning time (sec.) | | | | | |
|---------------------------|-------------------------|-----|-----|------|------|------|
| | 1 | 10 | 100 | 300 | 600 | |
| Speed (mm/s) | 10 | 0.5 | 1.4 | 10.4 | 30.4 | 60.4 |
| | 100 | 0.5 | 0.6 | 1.5 | 3.5 | 6.5 |
| | 250 | 0.5 | 0.6 | 0.9 | 1.7 | 2.9 |
| | 500 | 0.5 | 0.6 | 0.8 | 1.2 | 1.8 |

* Values will vary slightly depending on the operating conditions.



* Maximum acceleration: 3000mm/s²
* The value is a guide when SMC's series LCI controller is used and may vary depending on the driver capacity.

Non-standard Motors: The following motors will be mounted when a motor mounted type is specified.

| | Motor output (W) | Power supply voltage (VAC) | Motor model | Compatible driver model |
|--|------------------|----------------------------|-------------|-------------------------|
| Matsushita Electric Industrial Co., Ltd. | 100 | 100/115 | MSM011P1A | MSD011P1E |
| | | 200/230 | MSM012P1A | MSD013P1E |
| Mitsubishi Electric Corporation | 100 | 100/115 | HC-PQ13 | MR-C10A1 |
| | | 200/230 | | MR-C10A |
| Yaskawa Electric Corporation | 100 | 100/115 | SGME-01BF12 | SGDE-01BP |
| | | 200/230 | SGME-01AF12 | SGDE-01AP |

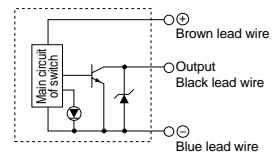
* For motor mounting dimensions, refer to the dimensions for series LJ1_{H20} on page 143 as a reference for mounting and design.

* Refer to pages starting with 205 for driver dimensions, etc. Furthermore, for detailed specifications, etc., contact each motor manufacturer.

* For a non-standard motor specification, when the motor is mounted before shipping, the driver is included but the cable that connects the motor and driver is optional. Refer to page 100 for part numbers.

Switch Internal Circuit

D-Y7GL



Non-standard Motor

Horizontal Mount

Series **LJ1H20**

Motor Output

100WHigh Rigidity
Direct Acting
Guide

Ground Ball Screw

ø15mm/20mm lead

How to Order

LJ1H20 **G** 2 **1** **PC** — Stroke — **F** **W** — X10

Motor specification

| | |
|----------|--|
| G | Mitsubishi Electric Industrial Co., Ltd. |
| R | Mitsubishi Electric Corporation |
| Y | Yaskawa Electric Corporation |

Power supply voltage

| | |
|----------|----------------------|
| 1 | 100/115VAC (50/60Hz) |
| 2 | 200/230VAC (50/60Hz) |
| 0 | Without motor |

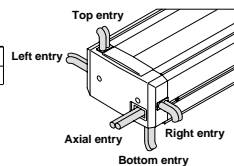
Cable entry direction

| | |
|----------|--------|
| F | Axial |
| R | Right |
| L | Left |
| T | Top |
| B | Bottom |

Switch

| | |
|------------|-------------------------|
| Nil | None |
| W | N.C. (B contact) 2 pcs. |

Cable entry direction



Specifications

| Standard stroke | | mm | 500 | 600 | 700 | 800 | 900 | 1000 |
|-----------------|--------------------------------|--|--------------------------------|------|------|------|------|------|
| Performance | Body weight (without motor) | kg | 12.1 | 13.2 | 14.4 | 15.6 | 16.8 | 18.0 |
| | Operating temperature range | °C | 5 to 40 (with no condensation) | | | | | |
| | Work load | kg | 30 | | | | | |
| | Maximum speed ^{Note)} | mm/s | 1000 | 1000 | 930 | 740 | 600 | 500 |
| | Positioning repeatability | mm | ±0.02 | | | | | |
| Main parts | Motor | AC servomotor (100W) | | | | | | |
| | Encoder | Incremental system | | | | | | |
| | Lead screw | Ground ball screw ø15mm, 20mm lead | | | | | | |
| | Guide | High rigidity direct acting guide | | | | | | |
| | Motor/Screw connection | With coupling | | | | | | |
| Switch | Model | D-Y7GL | | | | | | |
| | Specifications | Power supply voltage: 4.5 to 28VDC Current consumption: 10mA or less Control output: Open collector, Load current: 40mA or less Internal voltage drop: 1.5V or less | | | | | | |

Intermediate strokes

Strokes other than the standard strokes on the left are available by special order. Consult SMC.

Note) The speed is limited by the transfer load.

Consult each motor manufacturer regarding the maximum speed for each transfer load.

Allowable Moment (N·m)

Allowable static moment

| | |
|-----------------|----|
| Pitching | 71 |
| Rolling | 83 |
| Yawing | 75 |

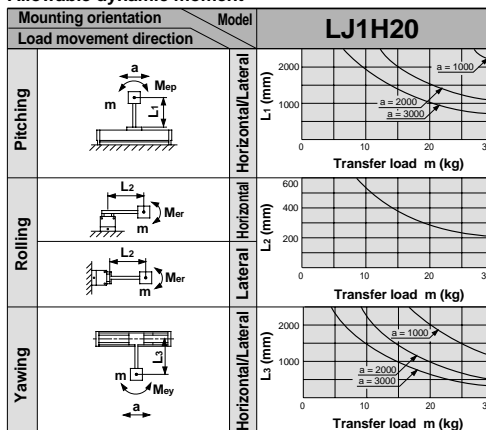
m : Transfer load (kg)

a : Work piece acceleration (mm/s²)

Me: Dynamic moment

L : Overhang to work piece center of gravity (mm)

Allowable dynamic moment

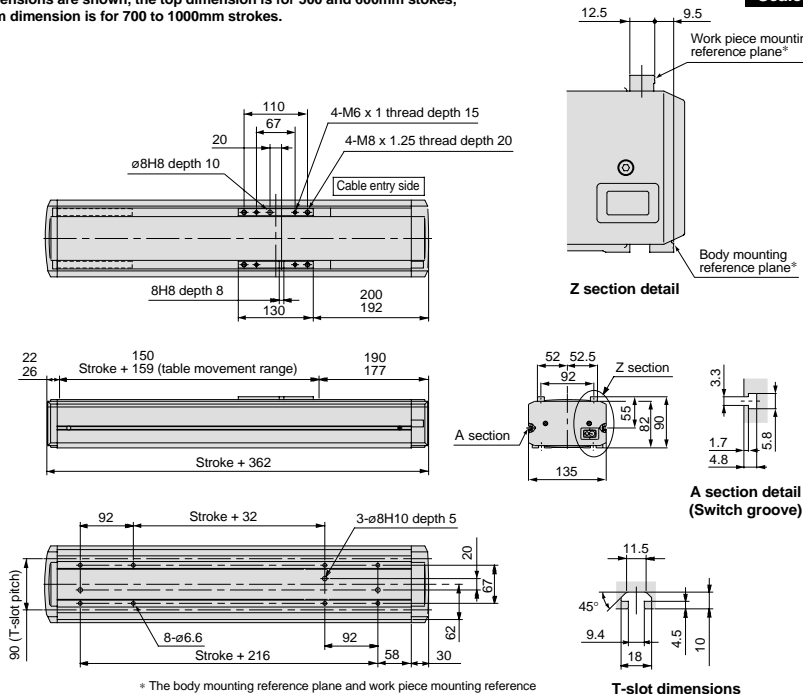


Refer to page 145 for deflection data.

Non-standard Motor/Horizontal Mount Specification **Series LJ1H20**

Dimensions/LJ1H20□□PC(X10)

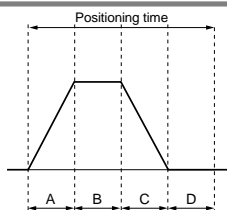
When two dimensions are shown, the top dimension is for 500 and 600mm strokes, and the bottom dimension is for 700 to 1000mm strokes.



Positioning Time Guide

| | | Positioning time (sec.) | | | | |
|---------------------------|------|-------------------------|-----|------|------|-------|
| Positioning distance (mm) | | 1 | 10 | 100 | 500 | 1000 |
| Speed (mm/s) | 10 | 0.6 | 1.5 | 10.5 | 50.5 | 100.5 |
| | 100 | 0.5 | 0.6 | 1.5 | 5.5 | 10.5 |
| | 500 | 0.5 | 0.6 | 0.9 | 1.7 | 2.7 |
| | 1000 | 0.5 | 0.6 | 0.9 | 1.4 | 1.9 |

* Values will vary slightly depending on the operating conditions.



A: Acceleration time
B: Constant velocity time
C: Deceleration time
D: Resting time (0.4sec.)*
Maximum acceleration: 2000mm/s²

* The value is a guide when SMC's series LC1 controller is used and may vary depending on the driver capacity.

Non-standard Motors: The following motors will be mounted when a motor mounted type is specified.

| | Motor output (W) | Power supply voltage (VAC) | Motor model | Compatible driver model |
|--|------------------|----------------------------|-------------|-------------------------|
| Matsushita Electric Industrial Co., Ltd. | 100 | 100/115 | MSM011P1A | MSD011P1E |
| | | 200/230 | MSM012P1A | MSD013P1E |
| Mitsubishi Electric Corporation | 100 | 100/115 | HC-PQ13 | MR-C10A1 |
| | | 200/230 | | MR-C10A |
| Yaskawa Electric Corporation | 100 | 100/115 | SGME-01BF12 | SGDE-01BP |
| | | 200/230 | SGME-01AF12 | SGDE-01AP |

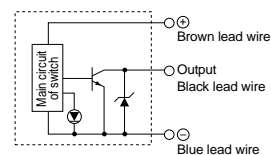
* For motor mounting dimensions, refer to the dimensions for series LJ1H20 on page 143 as a reference for mounting and design.

* Refer to pages starting with 205 for driver dimensions, etc. Furthermore, for detailed specifications, etc., contact each motor manufacturer.

* For a non-standard motor specification, when the motor is mounted before shipping, the driver is included but the cable that connects the motor and driver is optional. Refer to page 100 for part numbers.

Switch Internal Circuit

D-Y7GL



Non-standard Motor
Horizontal Mount

Series LJ1H20

Motor Output
100W

High Rigidity
Direct Acting
Guide

Rolled Ball Screw
 $\varnothing 15\text{mm}/10\text{mm}$ lead

How to Order

LJ1H20 **G** 2 **1** **NA** — Stroke — **F** **W** — X10

Motor specification

| | |
|----------|--|
| G | Matsushita Electric Industrial Co., Ltd. |
| R | Mitsubishi Electric Corporation |
| Y | Yaskawa Electric Corporation |

Power supply voltage

| | |
|----------|----------------------|
| 1 | 100/115VAC (50/60Hz) |
| 2 | 200/230VAC (50/60Hz) |
| 0 | Without motor |

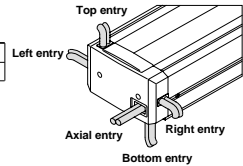
Cable entry direction

| | |
|----------|--------|
| F | Axial |
| R | Right |
| L | Left |
| T | Top |
| B | Bottom |

Switch

| | |
|------------|-------------------------|
| NII | None |
| W | N.C. (B contact) 2 pcs. |

Cable entry direction



Specifications

| Standard stroke | | mm | 100 | 200 | 300 | 400 | 500 | 600 |
|--------------------|-----------------------------|--|--------------------------------|-----|-----|------|------|------|
| Performance | Body weight (without motor) | kg | 7.2 | 8.4 | 9.6 | 10.7 | 12.1 | 13.2 |
| | Operating temperature range | °C | 5 to 40 (with no condensation) | | | | | |
| | Work load | kg | 30 | | | | | |
| | Maximum speed | mm/s | 500 | | | | | |
| | Positioning repeatability | mm | ±0.05 | | | | | |
| Main parts | Motor | AC servomotor (100W) | | | | | | |
| | Encoder | Incremental system | | | | | | |
| | Lead screw | Rolled ball screw $\varnothing 15\text{mm}$, 10mm lead | | | | | | |
| | Guide | High rigidity direct acting guide | | | | | | |
| | Motor/Screw connection | With coupling | | | | | | |
| Switch | Model | D-Y7GL | | | | | | |
| | Specifications | Power supply voltage: 4.5 to 28VDC Current consumption: 10mA or less Control output: Open collector Load current: 40mA or less, Internal voltage drop: 1.5V or less | | | | | | |

Intermediate strokes

Strokes other than the standard strokes on the left are available by special order. Consult SMC.

Allowable Moment (N·m)

Allowable static moment

| | |
|-----------------|----|
| Pitching | 71 |
| Rolling | 83 |
| Yawing | 75 |

m : Transfer load (kg)
a : Work piece acceleration (mm/s²)
Me: Dynamic moment
L : Overhang to work piece center of gravity (mm)

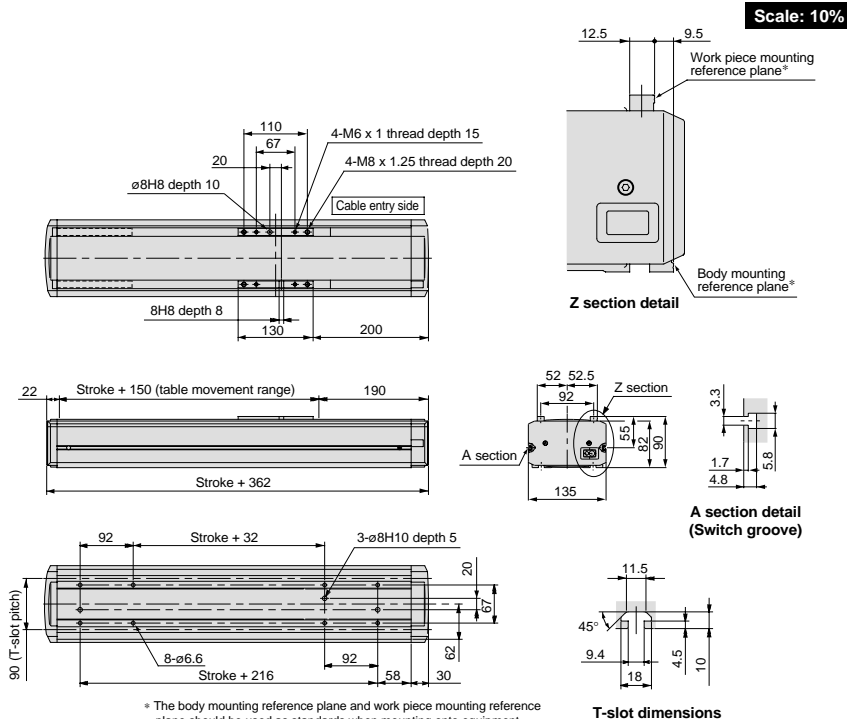
Allowable dynamic moment

| Mounting orientation | Load movement direction | Model | LJ1H20 | |
|----------------------|-------------------------|---------------------|----------------------|----------------------|
| | | | Transfer load m (kg) | Transfer load m (kg) |
| Pitching | | Horizontal/Lateral | | |
| | | Horizontal/Vertical | | |
| Rolling | | Horizontal/Vertical | | |
| | | Lateral/Vertical | | |
| Yawing | | Horizontal/Lateral | | |
| | | Horizontal/Vertical | | |

Refer to page 145 for deflection data.

Non-standard Motor/Horizontal Mount Specification *Series LJ1H20*

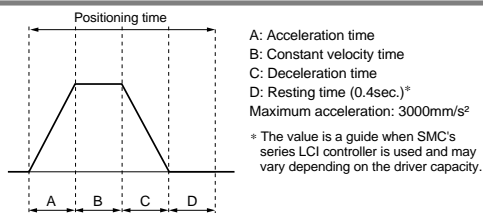
Dimensions/LJ1H20□□NA(X10)



Positioning Time Guide

| Positioning distance (mm) | Positioning time (sec.) | | | | | |
|---------------------------|-------------------------|-----|-----|------|------|------|
| | 1 | 10 | 100 | 300 | 600 | |
| Speed (mm/s) | 10 | 0.5 | 1.4 | 10.4 | 30.4 | 60.4 |
| | 100 | 0.5 | 0.6 | 1.5 | 3.5 | 6.5 |
| | 250 | 0.5 | 0.6 | 0.9 | 1.7 | 2.9 |
| | 500 | 0.5 | 0.6 | 0.8 | 1.2 | 1.8 |

* Values will vary slightly depending on the operating conditions.



Non-standard Motors: The following motors will be mounted when a motor mounted type is specified.

| | Motor output (W) | Power supply voltage (VAC) | Motor model | Compatible driver model |
|--|------------------|----------------------------|-------------|-------------------------|
| Matsushita Electric Industrial Co., Ltd. | 100 | 100/115 | MSM011P1A | MSD011P1E |
| | | 200/230 | MSM012P1A | MSD013P1E |
| Mitsubishi Electric Corporation | 100 | 100/115 | HC-PQ13 | MR-C10A1 |
| | | 200/230 | | MR-C10A |
| Yaskawa Electric Corporation | 100 | 100/115 | SGME-01BF12 | SGDE-01BP |
| | | 200/230 | SGME-01AF12 | SGDE-01AP |

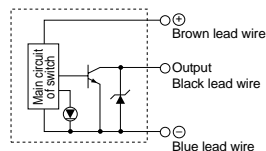
* For motor mounting dimensions, refer to the dimensions for series LJ1H20 on page 143 as a reference for mounting and design.

* Refer to pages starting with 205 for driver dimensions, etc. Furthermore, for detailed specifications, etc., contact each motor manufacturer.

* For a non-standard motor specification, when the motor is mounted before shipping, the driver is included but the cable that connects the motor and driver is optional. Refer to page 100 for part numbers.

Switch Internal Circuit

D-Y7GL



Non-standard Motor

Horizontal Mount

Series LJ1H20

Motor Output
100W

High Rigidity
Direct Acting
Guide

Rolled Ball Screw
 $\varnothing 15\text{mm}/20\text{mm}$ lead

How to Order

LJ1H20 **G** 2 **1** **NC** — Stroke — **F** **W** — X10

Motor specification

| | |
|----------|--|
| G | Matsushita Electric Industrial Co., Ltd. |
| R | Mitsubishi Electric Corporation |
| Y | Yaskawa Electric Corporation |

Power supply voltage

| | |
|----------|----------------------|
| 1 | 100/115VAC (50/60Hz) |
| 2 | 200/230VAC (50/60Hz) |
| 0 | Without motor |

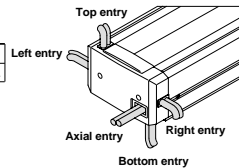
Cable entry direction

| | |
|----------|--------|
| F | Axial |
| R | Right |
| L | Left |
| T | Top |
| B | Bottom |

Switch

| | |
|------------|-------------------------|
| NII | None |
| W | N.C. (B contact) 2 pcs. |

Cable entry direction



Specifications

| Standard stroke | | mm | 500 | 600 | 700 | 800 | 900 | 1000 |
|--------------------|--------------------------------|--|--------------------------------|------|------|------|------|------|
| Performance | Body weight (without motor) | kg | 12.1 | 13.2 | 14.4 | 15.6 | 16.8 | 18.0 |
| | Operating temperature range | °C | 5 to 40 (with no condensation) | | | | | |
| | Work load | kg | 30 | | | | | |
| | Maximum speed ^{Note)} | mm/s | 1000 | 1000 | 930 | 740 | 600 | 500 |
| | Positioning repeatability | mm | ±0.05 | | | | | |
| Main parts | Motor | AC servomotor (100W) | | | | | | |
| | Encoder | Incremental system | | | | | | |
| | Lead screw | Rolled ball screw $\varnothing 15\text{mm}$, 20mm lead | | | | | | |
| | Guide | High rigidity direct acting guide | | | | | | |
| | Motor/Screw connection | With coupling | | | | | | |
| Switch | Model | D-Y7GL | | | | | | |
| | Specifications | Power supply voltage: 4.5 to 28VDC Current consumption: 10mA or less Control output: Open collector, Load current: 40mA or less Internal voltage drop: 1.5V or less | | | | | | |

Intermediate strokes

Strokes other than the standard strokes on the left are available by special order. Consult SMC.

Note) The speed is limited by the transfer load.

Consult each motor manufacturer regarding the maximum speed for each transfer load.

Allowable Moment (N·m)

Allowable static moment

| | |
|-----------------|----|
| Pitching | 71 |
| Rolling | 83 |
| Yawing | 75 |

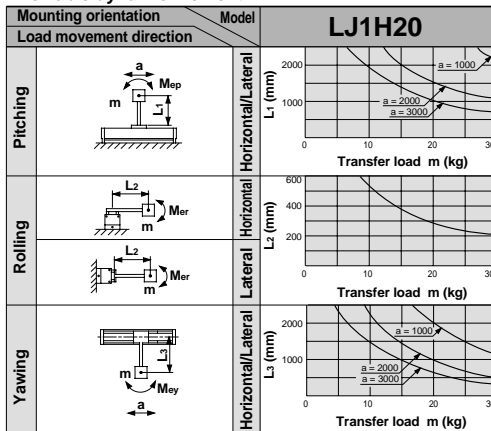
m : Transfer load (kg)

a : Work piece acceleration (mm/s²)

Me: Dynamic moment

L : Overhang to work piece center of gravity (mm)


Allowable dynamic moment

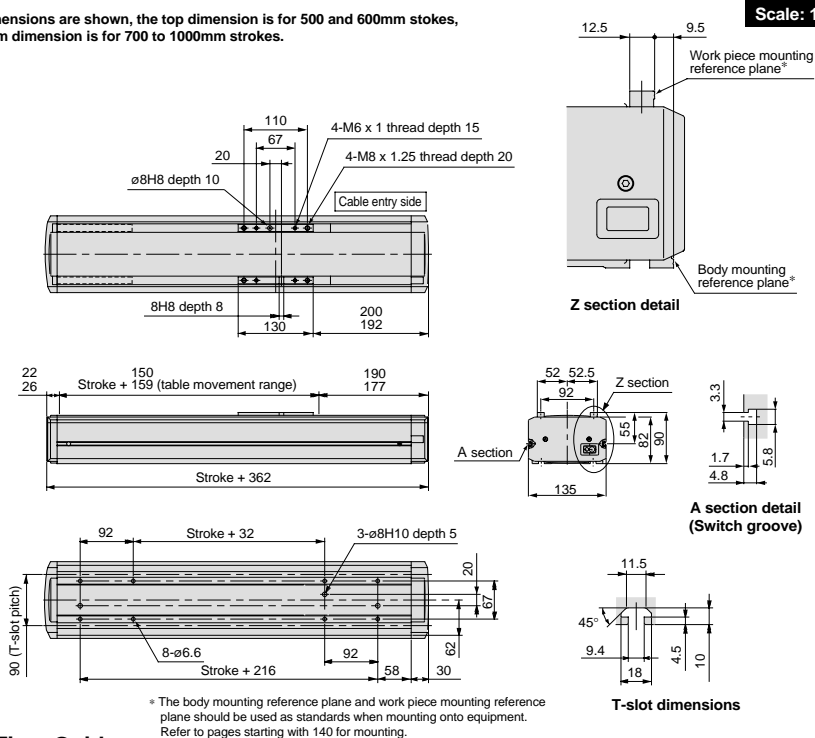


Refer to page 145 for deflection data.

Non-standard Motor/Horizontal Mount Specification **Series LJ1H20**

Dimensions/LJ1H20□2□NC(X10)

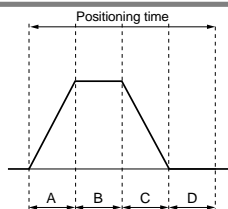
 When two dimensions are shown, the top dimension is for 500 and 600mm strokes, and the bottom dimension is for 700 to 1000mm strokes.



Positioning Time Guide

| Positioning distance (mm) | | Positioning time (sec.) | | | | | |
|---------------------------|------|-------------------------|-----|------|------|-------|--|
| | | 1 | 10 | 100 | 500 | 1000 | |
| Speed (mm/s) | 10 | 0.6 | 1.5 | 10.5 | 50.5 | 100.5 | |
| | 100 | 0.5 | 0.6 | 1.5 | 5.5 | 10.5 | |
| | 500 | 0.5 | 0.6 | 0.9 | 1.7 | 2.7 | |
| | 1000 | 0.5 | 0.6 | 0.9 | 1.4 | 1.9 | |

* Values will vary slightly depending on the operating conditions.



A: Acceleration time
 B: Constant velocity time
 C: Deceleration time
 D: Resting time (0.4sec.)*
 Maximum acceleration: 2000mm/s²
 * The value is a guide when SMC's series LCI controller is used and may vary depending on the driver capacity.

Non-standard Motors: The following motors will be mounted when a motor mounted type is specified.

| | Motor output (W) | Power supply voltage (VAC) | Motor model | Compatible driver model |
|--|------------------|----------------------------|-------------|-------------------------|
| Matsushita Electric Industrial Co., Ltd. | 100 | 100/115 | MSM011P1A | MSD011P1E |
| | | 200/230 | MSM012P1A | MSD013P1E |
| Mitsubishi Electric Corporation | 100 | 100/115 | HC-PQ13 | MR-C10A1 |
| | | 200/230 | | MR-C10A |
| Yaskawa Electric Corporation | 100 | 100/115 | SGME-01BF12 | SGDE-01BP |
| | | 200/230 | SGME-01AF12 | SGDE-01AP |

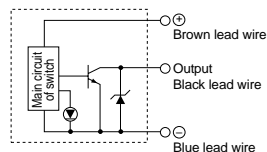
* For motor mounting dimensions, refer to the dimensions for series LJ1H20 on page 143 as a reference for mounting and design.

* Refer to pages starting with 205 for driver dimensions, etc. Furthermore, for detailed specifications, etc., contact each motor manufacturer.

* For a non-standard motor specification, when the motor is mounted before shipping, the driver is included but the cable that connects the motor and driver is optional. Refer to page 100 for part numbers.

Switch Internal Circuit

D-Y7GL



Non-standard Motor
Horizontal Mount

Series LJ1H20

Motor Output
100W

High Rigidity
Direct Acting
Guide

Slide Screw
 $\varnothing 20\text{mm}/20\text{mm}$ lead

How to Order

LJ1H20 **G** 2 **1** **SC** — Stroke — **F** **W** — X10

Motor specification

| | |
|----------|---|
| G | Matsumita Electric Industrial Co., Ltd. |
| R | Mitsubishi Electric Corporation |
| Y | Yaskawa Electric Corporation |

Power supply voltage

| | |
|----------|----------------------|
| 1 | 100/115VAC (50/60Hz) |
| 2 | 200/230VAC (50/60Hz) |
| 0 | Without motor |

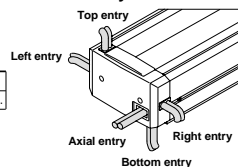
Cable entry direction

| | |
|----------|--------|
| F | Axial |
| R | Right |
| L | Left |
| T | Top |
| B | Bottom |

Switch

| | |
|------------|-------------------------|
| Nil | None |
| W | N.C. (B contact) 2 pcs. |

Cable entry direction



Specifications

| Standard stroke | | mm | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1200 |
|-----------------|-----------------------------|--|--------------------------------|-----|-----|------|------|------|------|------|------|------|------|
| Performance | Body weight (without motor) | kg | 7.5 | 8.5 | 9.6 | 10.8 | 12.3 | 13.8 | 16.3 | 16.8 | 18.6 | 20.4 | 24.2 |
| | Operating temperature range | °C | 5 to 40 (with no condensation) | | | | | | | | | | |
| | Work load | kg | 15 | | | | | | | | | | |
| | Maximum speed | mm/s | 500 | | | | | | | | | | |
| | Positioning repeatability | mm | ±0.1 | | | | | | | | | | |
| Main parts | Motor | AC servomotor (100W) | | | | | | | | | | | |
| | Encoder | Incremental system | | | | | | | | | | | |
| | Lead screw | Slide screw $\varnothing 20\text{mm}$, 20mm lead | | | | | | | | | | | |
| | Guide | High rigidity direct acting guide | | | | | | | | | | | |
| | Motor/Screw connection | With coupling | | | | | | | | | | | |
| Switch | Model | D-Y7GL | | | | | | | | | | | |
| | Specifications | Power supply voltage: 4.5 to 28VDC, Current consumption: 10mA or less Control output: Open collector, Load current: 40mA or less, Internal voltage drop: 1.5V or less | | | | | | | | | | | |

Immediate strokes

Strokes other than the standard strokes above are available by special order. Consult SMC.

Allowable Moment (N·m)

Allowable static moment

| | |
|-----------------|----|
| Pitching | 71 |
| Rolling | 83 |
| Yawing | 75 |

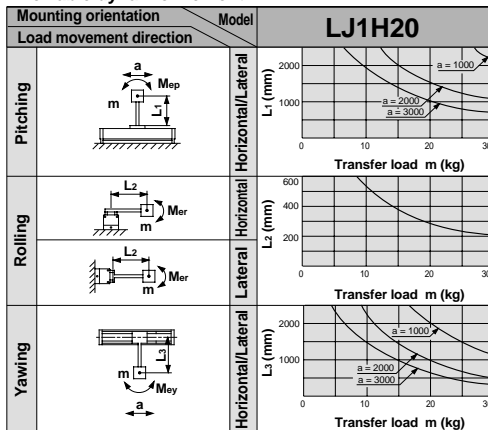
m : Transfer load (kg)

a : Work piece acceleration (mm/s²)

Me : Dynamic moment

L : Overhang to work piece center of gravity (mm)

Allowable dynamic moment



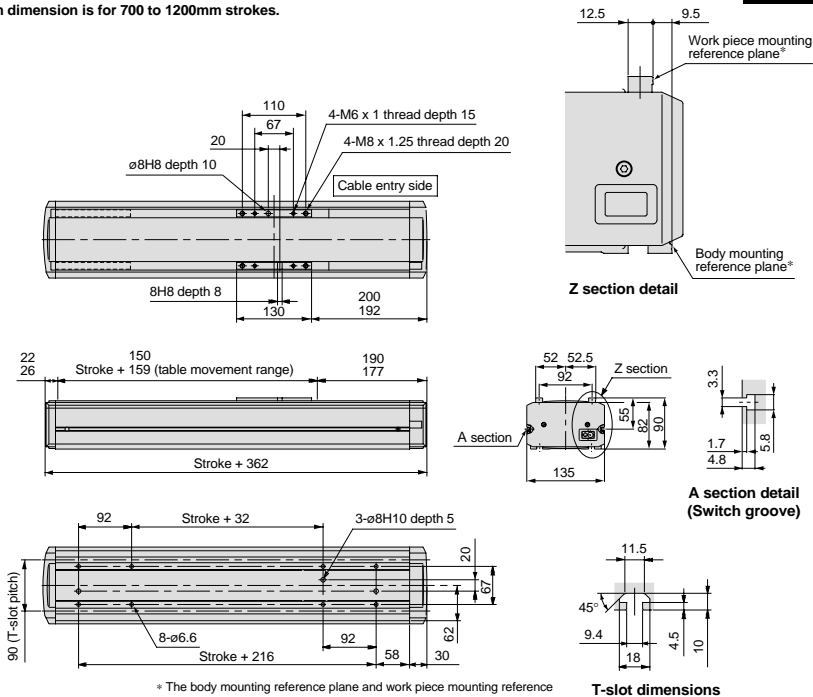
Refer to page 145 for deflection data.

Non-standard Motor/Horizontal Mount Specification *Series LJ1H20*

Dimensions/LJ1H20□2□PC(X10)

When two dimensions are shown, the top dimension is for 100 to 600mm strokes, and the bottom dimension is for 700 to 1200mm strokes.

Scale: 10%

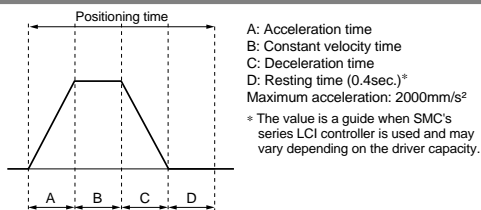


* The body mounting reference plane and work piece mounting reference plane should be used as standards when mounting onto equipment. Refer to pages starting with 140 for mounting.

Positioning Time Guide

| Positioning distance (mm) | | Positioning time (sec.) | | | | | |
|---------------------------|-----|-------------------------|-----|------|------|-------|--|
| | | 1 | 10 | 100 | 500 | 1000 | |
| Speed (mm/s) | 10 | 0.6 | 1.5 | 10.5 | 60.5 | 120.5 | |
| | 100 | 0.5 | 0.6 | 1.5 | 6.5 | 12.5 | |
| | 250 | 0.5 | 0.6 | 1.0 | 3.0 | 5.4 | |
| | 500 | 0.5 | 0.6 | 0.9 | 1.9 | 3.1 | |

* Values will vary slightly depending on the operating conditions.



Non-standard Motors: The following motors will be mounted when a motor mounted type is specified.

| | Motor output (W) | Power supply voltage (VAC) | Motor model | Compatible driver model |
|--|------------------|----------------------------|-------------|-------------------------|
| Matsushita Electric Industrial Co., Ltd. | 100 | 100/115 | MSM011P1A | MSD011P1E |
| | | 200/230 | MSM012P1A | MSD013P1E |
| Mitsubishi Electric Corporation | 100 | 100/115 | HC-PQ13 | MR-C10A1 |
| | | 200/230 | | MR-C10A |
| Yaskawa Electric Corporation | 100 | 100/115 | SGME-01BF12 | SGDE-01BP |
| | | 200/230 | SGME-01AF12 | SGDE-01AP |

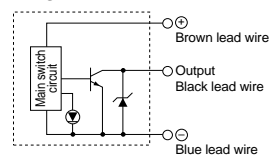
* For motor mounting dimensions, refer to the dimensions for series LJ1H20 on page 143 as a reference for mounting and design.

* Refer to pages starting with 205 for driver dimensions, etc. Furthermore, for detailed specifications, etc., contact each motor manufacturer.

* For a non-standard motor specification, when the motor is mounted before shipping, the driver is included but the cable that connects the motor and driver is optional. Refer to page 100 for part numbers.

Switch Internal Circuit

D-Y7GL



Non-standard Motor

Horizontal Mount

Series LJ1H30

Motor Output
200W

High Rigidity
Direct Acting
Guide

Ground Ball Screw
 $\varnothing 25\text{mm}/25\text{mm}$ lead

How to Order

LJ1H30 **G** **3** **1** **PD** — Stroke — **F** **W** — **X10**

Motor specification

| | |
|----------|--|
| G | Matsushita Electric Industrial Co., Ltd. |
| R | Mitsubishi Electric Corporation |
| Y | Yaskawa Electric Corporation |

Power supply voltage

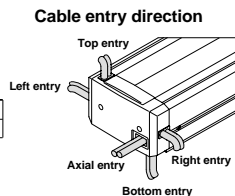
| | |
|----------|----------------------|
| 1 | 100/115VAC (50/60Hz) |
| 2 | 200/230VAC (50/60Hz) |
| 0 | Without motor |

Cable entry direction

| | |
|----------|--------|
| F | Axial |
| R | Right |
| L | Left |
| T | Top |
| B | Bottom |

Switch

| | |
|------------|-------------------------|
| NII | None |
| W | N.C. (B contact) 2 pcs. |



Specifications

| Standard stroke | | mm | 200 | 300 | 400 | 500 | 600 | 800 | 1000 | 1200 | 1500 |
|-----------------|-----------------------------|------|--|------|------|------|------|------|------|------|------|
| Performance | Body weight (without motor) | kg | 14.9 | 16.9 | 18.9 | 20.9 | 22.9 | 27.4 | 31.9 | 35.9 | 41.9 |
| | Operating temperature range | °C | 5 to 40 (with no condensation) | | | | | | | | |
| | Work load | kg | 60 | | | | | | | | |
| | Maximum speed | mm/s | 1000 | | | | | | | | |
| Main parts | Positioning repeatability | mm | ±0.02 | | | | | | | | |
| | Motor | | AC servomotor (200W) | | | | | | | | |
| | Encoder | | Incremental system | | | | | | | | |
| | Lead screw | | Ground ball screw $\varnothing 25\text{mm}$, 25mm lead | | | | | | | | |
| | Guide | | High rigidity direct acting guide | | | | | | | | |
| Switch | Motor/Screw connection | | With coupling | | | | | | | | |
| | Model | | D-Y7GL | | | | | | | | |
| | Specifications | | Power supply voltage: 4.5 to 28VDC, Current consumption: 10mA or less Control output: Open collector, Load current: 40mA or less, Internal voltage drop: 1.5V or less | | | | | | | | |

Immediate strokes

Strokes other than the standard strokes above are available by special order. Consult SMC.

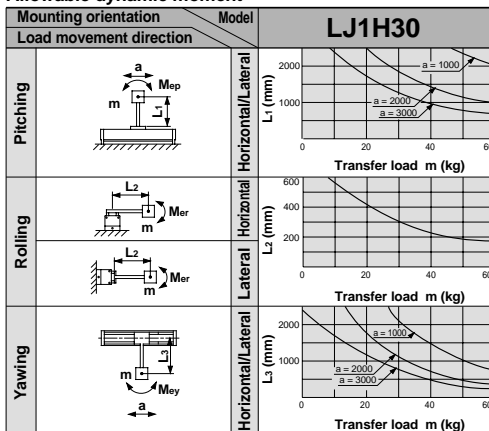
Allowable Moment (N·m)

Allowable static moment

| | |
|-----------------|-----|
| Pitching | 117 |
| Rolling | 137 |
| Yawing | 123 |

m : Transfer load (kg)
a : Work piece acceleration (mm/s²)
Me : Dynamic moment
L : Overhang to work piece center of gravity (mm)

Allowable dynamic moment

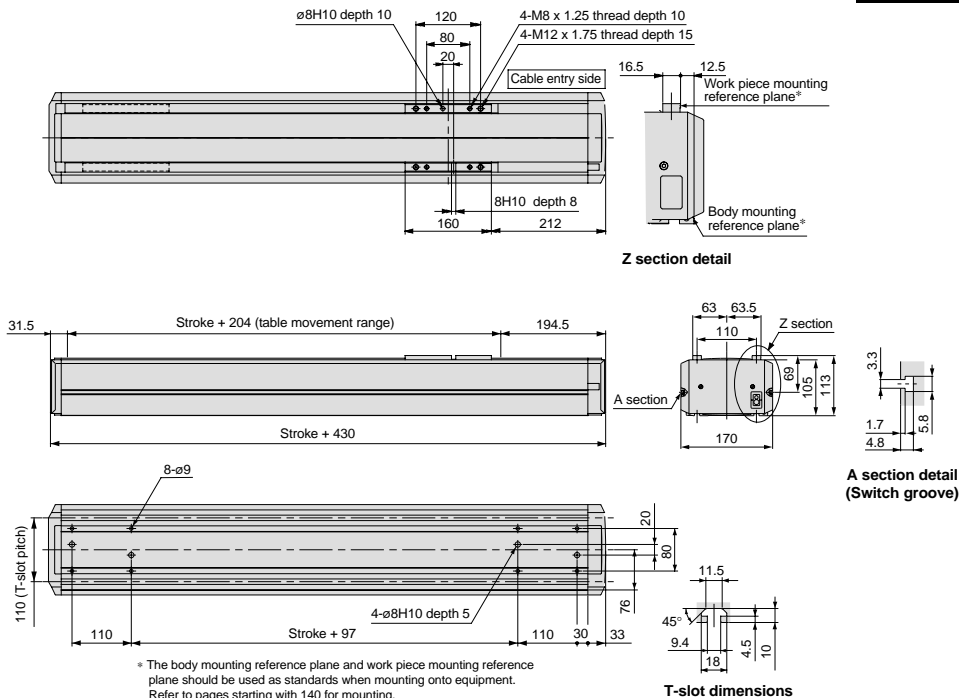


Refer to page 145 for deflection data.

Non-standard Motor/Horizontal Mount Specification **Series LJ1H30**

Dimensions/LJ1H30□3□PD(X10)

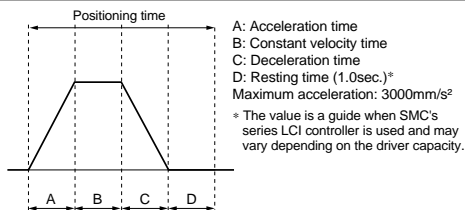
Scale: 10%



Positioning Time Guide

| Positioning distance (mm) | | Positioning time (sec.) | | | | |
|---------------------------|------|-------------------------|-----|------|------|-------|
| | | 1 | 10 | 100 | 750 | 1500 |
| Speed (mm/s) | 10 | 1.1 | 2.0 | 11.0 | 76.0 | 151.0 |
| | 100 | 1.1 | 1.2 | 2.1 | 8.6 | 16.1 |
| | 500 | 1.1 | 1.2 | 1.4 | 2.7 | 4.2 |
| | 1000 | 1.1 | 1.2 | 1.4 | 2.1 | 2.9 |

* Values will vary slightly depending on the operating conditions.



Non-standard Motors: The following motors will be mounted when a motor mounted type is specified.

| | Motor output (W) | Power supply voltage (VAC) | Motor model | Compatible driver model |
|--|------------------|----------------------------|-------------|-------------------------|
| Matsushita Electric Industrial Co., Ltd. | 200 | 100/115 | MSM021P1A | MSD021P1E |
| | | 200/230 | MSM022P1A | MSD023P1E |
| Mitsubishi Electric Corporation | 200 | 100/115 | HC-PQ23 | MR-C20A1 |
| | | 200/230 | | MR-C20A |
| Yaskawa Electric Corporation | 200 | 100/115 | SGME-02BF12 | SGDE-02BP |
| | | 200/230 | SGME-02AF12 | SGDE-02AP |

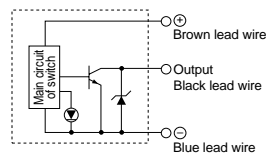
* For motor mounting dimensions, refer to the dimensions for series LJ1H30 on page 143 as a reference for mounting and design.

* Refer to pages starting with 205 for driver dimensions, etc. Furthermore, for detailed specifications, etc., contact each motor manufacturer.

* For a non-standard motor specification, when the motor is mounted before shipping, the driver is included but the cable that connects the motor and driver is optional. Refer to page 100 for part numbers.

Switch Internal Circuit

D-Y7GL



Non-standard Motor
Horizontal Mount

Series LJ1H30

Motor Output
200W

High Rigidity
Direct Acting
Guide

Rolled Ball Screw
∅25mm/25mm lead

How to Order

LJ1H30 **G** **3** **1** **ND** — Stroke — **F** **W** — **X10**

Motor specification

| | |
|----------|--|
| G | Matsushita Electric Industrial Co., Ltd. |
| R | Mitsubishi Electric Corporation |
| Y | Yaskawa Electric Corporation |

Power supply voltage

| | |
|----------|----------------------|
| 1 | 100/115VAC (50/60Hz) |
| 2 | 200/230VAC (50/60Hz) |
| 0 | Without motor |

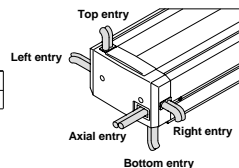
Cable entry direction

| | |
|----------|--------|
| F | Axial |
| R | Right |
| L | Left |
| T | Top |
| B | Bottom |

Switch

| | |
|------------|-------------------------|
| Nil | None |
| W | N.C. (B contact) 2 pcs. |

Cable entry direction



Specifications

| | | Standard stroke | mm | 200 | 300 | 400 | 500 | 600 | 800 | 1000 | 1200 | 1500 | |
|--------------------|-----------------------------|--|--------------------------------|------|------|------|------|------|------|------|------|------|-----|
| Performance | Body weight (without motor) | kg | 14.9 | 16.9 | 18.9 | 20.9 | 22.9 | 27.4 | 31.9 | 35.9 | 41.9 | | |
| | Operating temperature range | °C | 5 to 40 (with no condensation) | | | | | | | | | | |
| | Work load | kg | 60 | | | | | | | | | | |
| | Maximum speed | mm/s | 1000 | | | | | | | | | 700 | 500 |
| | Positioning repeatability | mm | ±0.05 | | | | | | | | | | |
| Main parts | Motor | AC servomotor (200W) | | | | | | | | | | | |
| | Encoder | Incremental system | | | | | | | | | | | |
| | Lead screw | Rolled ball screw ∅25mm, 25mm lead | | | | | | | | | | | |
| | Guide | High rigidity direct acting guide | | | | | | | | | | | |
| | Motor/Screw connection | With coupling | | | | | | | | | | | |
| Switch | Model | D-Y7GL | | | | | | | | | | | |
| | Specifications | Power supply voltage: 4.5 to 28VDC, Current consumption: 10mA or less Control output: Open collector, Load current: 40mA or less, Internal voltage drop: 1.5V or less | | | | | | | | | | | |

Immediate strokes

Strokes other than the standard strokes above are available by special order. Consult SMC.

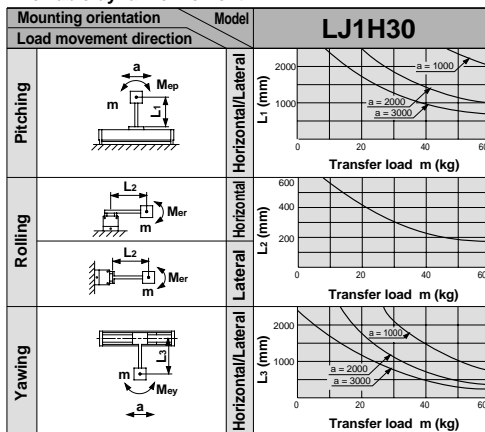
Allowable Moment (N·m)

Allowable static moment

| | |
|-----------------|-----|
| Pitching | 117 |
| Rolling | 137 |
| Yawing | 123 |

m : Transfer load (kg)
a : Work piece acceleration (mm/s²)
Me: Dynamic moment
L : Overhang to work piece center of gravity (mm)

Allowable dynamic moment

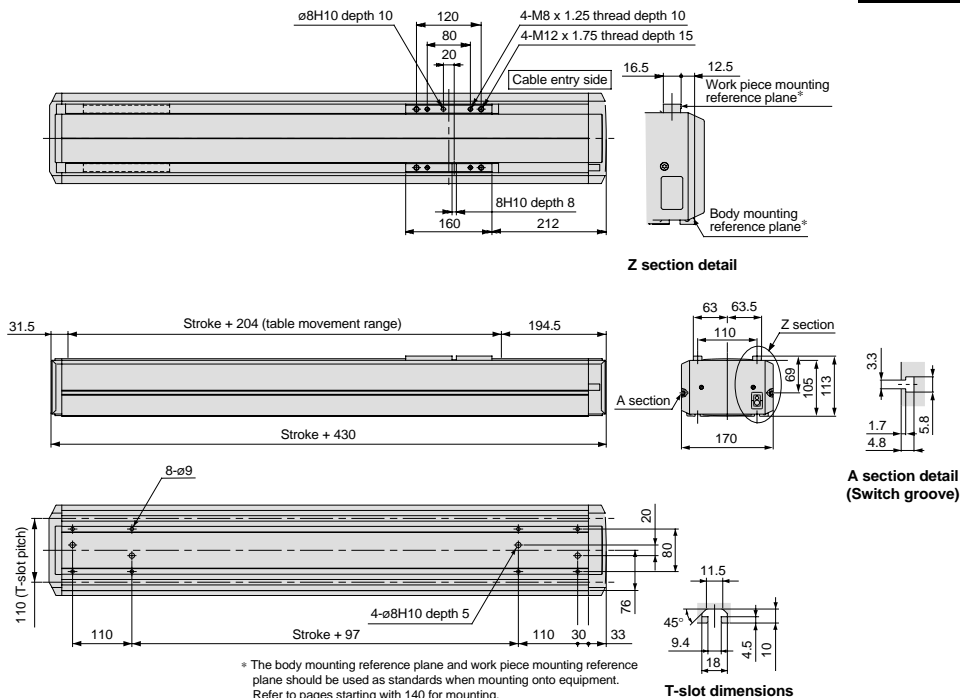


Refer to page 145 for deflection data.

Non-standard Motor/Horizontal Mount Specification *Series LJ1H30*

Dimensions/LJ1H30□3□ND(X10)

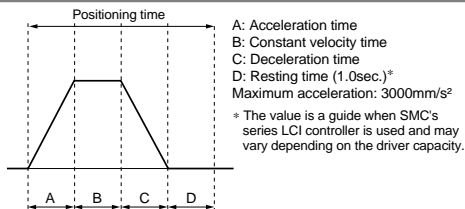
Scale: 10%



Positioning Time Guide

| | | Positioning time (sec.) | | | | |
|---------------------------|------|-------------------------|-----|------|------|-------|
| Positioning distance (mm) | | 1 | 10 | 100 | 750 | 1500 |
| Speed (mm/s) | 10 | 1.1 | 2.0 | 11.0 | 76.0 | 151.0 |
| | 100 | 1.1 | 1.2 | 2.1 | 8.6 | 16.1 |
| | 500 | 1.1 | 1.2 | 1.4 | 2.7 | 4.2 |
| | 1000 | 1.1 | 1.2 | 1.4 | 2.1 | 2.9 |

* Values will vary slightly depending on the operating conditions.



Non-standard Motors: The following motors will be mounted when a motor mounted type is specified.

| | Motor output (W) | Power supply voltage (VAC) | Motor model | Compatible driver model |
|--|------------------|----------------------------|-------------|-------------------------|
| Matsushita Electric Industrial Co., Ltd. | 200 | 100/115 | MSM021P1A | MSD021P1E |
| | | 200/230 | MSM022P1A | MSD023P1E |
| Mitsubishi Electric Corporation | 200 | 100/115 | HC-PQ23 | MR-C20A1 |
| | | 200/230 | | MR-C20A |
| Yaskawa Electric Corporation | 200 | 100/115 | SGME-02BF12 | SGDE-02BP |
| | | 200/230 | SGME-02AF12 | SGDE-02AP |

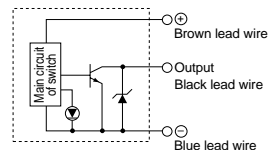
* For motor mounting dimensions, refer to the dimensions for series LJ1H30 on page 143 as a reference for mounting and design.

* Refer to pages starting with 205 for driver dimensions, etc. Furthermore, for detailed specifications, etc., contact each motor manufacturer.

* For a non-standard motor specification, when the motor is mounted before shipping, the driver is included but the cable that connects the motor and driver is optional. Refer to page 100 for part numbers.

Switch Internal Circuit

D-Y7GL



Non-standard Motor

Horizontal Mount

Series LJ1H30

Motor Output
200_w

High Rigidity
Direct Acting
Guide

Slide Screw

∅30mm/40mm lead

How to Order

LJ1H30 **G** 3 **1** **SE** — Stroke — **F** **W** — X10

Motor specification

| | |
|----------|--|
| G | Matsushita Electric Industrial Co., Ltd. |
| R | Mitsubishi Electric Corporation |
| Y | Yaskawa Electric Corporation |

Power supply voltage

| | |
|----------|----------------------|
| 1 | 100/115VAC (50/60Hz) |
| 2 | 200/230VAC (50/60Hz) |
| 0 | Without motor |

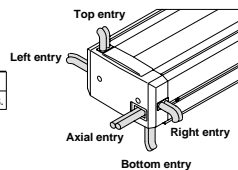
Cable entry direction

| | |
|----------|--------|
| F | Axial |
| R | Right |
| L | Left |
| T | Top |
| B | Bottom |

Switch

| | |
|------------|-------------------------|
| Nil | None |
| W | N.C. (B contact) 2 pcs. |

Cable entry direction



Specifications

| | | Standard stroke | mm | 200 | 300 | 400 | 500 | 600 | 800 | 1000 | 1200 | 1500 |
|--------------------|-----------------------------|--|--------------------------------|------|------|------|------|------|------|------|------|------|
| Performance | Body weight (without motor) | kg | | 13.8 | 15.9 | 17.9 | 20.0 | 22.1 | 26.2 | 30.4 | 34.5 | 40.8 |
| | Operating temperature range | °C | 5 to 40 (with no condensation) | | | | | | | | | |
| | Work load | kg | 30 | | | | | | | | | |
| | Maximum speed | mm/s | 500 | | | | | | | | | |
| | Positioning repeatability | mm | ±0.1 | | | | | | | | | |
| Main parts | Motor | AC servomotor (200W) | | | | | | | | | | |
| | Encoder | Incremental system | | | | | | | | | | |
| | Lead screw | Slide screw ∅30mm, 40mm lead | | | | | | | | | | |
| | Guide | High rigidity direct acting guide | | | | | | | | | | |
| | Motor/Screw connection | With coupling | | | | | | | | | | |
| Switch | Model | D-Y7GL | | | | | | | | | | |
| | Specifications | Power supply voltage: 4.5 to 28VDC, Current consumption: 10mA or less Control output: Open collector, Load current: 40mA or less, Internal voltage drop: 1.5V or less | | | | | | | | | | |

Immediate strokes

Strokes other than the standard strokes above are available by special order. Consult SMC.

Allowable Moment (N·m)

Allowable static moment

| | |
|-----------------|-----|
| Pitching | 117 |
| Rolling | 137 |
| Yawing | 123 |

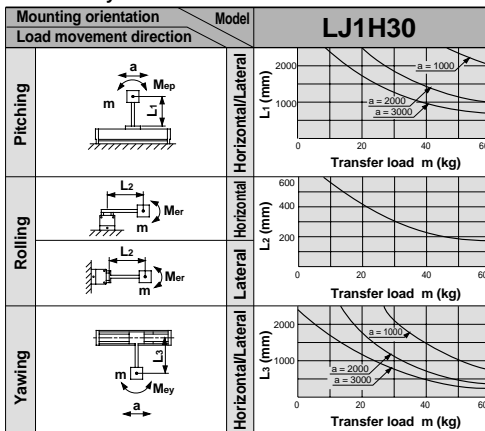
m : Transfer load (kg)

a : Work piece acceleration (mm/s²)

Me: Dynamic moment

L : Overhang to work piece center of gravity (mm)

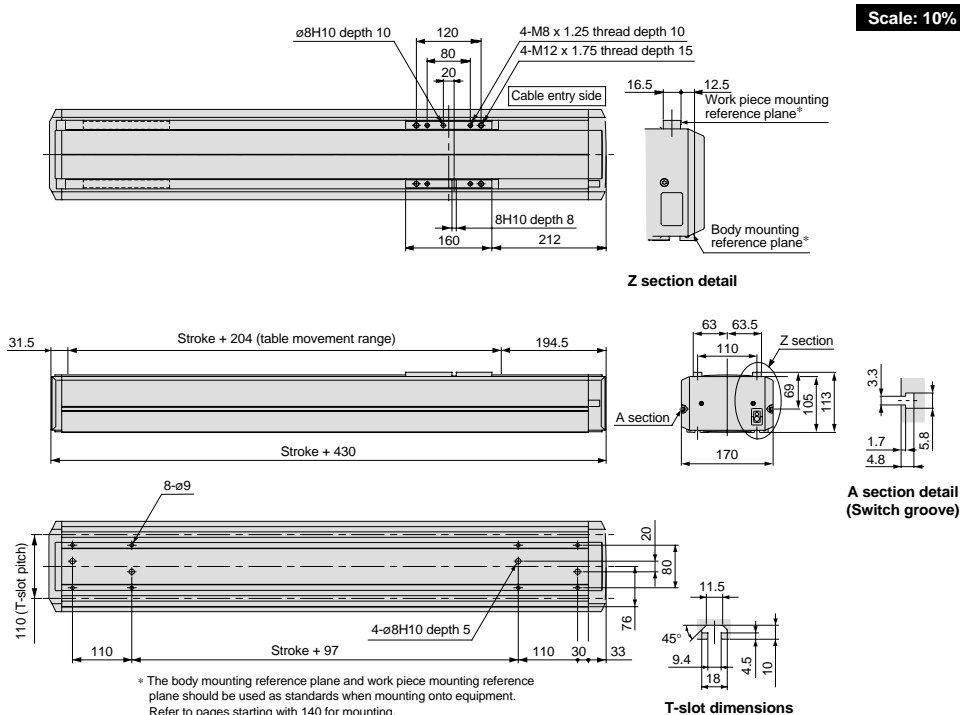
Allowable dynamic moment



Refer to page 145 for deflection data.

Non-standard Motor/Horizontal Mount Specification **Series LJ1H30**

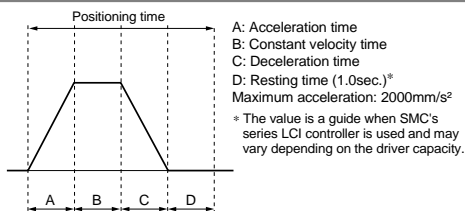
Dimensions/LJ1H30□3□SE(X10)



Positioning Time Guide

| Positioning distance (mm) | Positioning time (sec.) | | | | | |
|---------------------------|-------------------------|-----|-----|------|------|-------|
| | 1 | 10 | 100 | 750 | 1500 | |
| Speed (mm/s) | 10 | 1.2 | 2.1 | 11.1 | 76.1 | 151.1 |
| | 100 | 1.1 | 1.2 | 2.1 | 8.6 | 16.1 |
| | 250 | 1.1 | 1.2 | 1.6 | 4.2 | 7.2 |
| | 500 | 1.1 | 1.2 | 1.5 | 2.8 | 4.3 |

* Values will vary slightly depending on the operating conditions.



Non-standard Motors: The following motors will be mounted when a motor mounted type is specified.

| | Motor output (W) | Power supply voltage (VAC) | Motor model | Compatible driver model |
|--|------------------|----------------------------|-------------|-------------------------|
| Matsushita Electric Industrial Co., Ltd. | 200 | 100/115 | MSM021P1A | MSD021P1E |
| | | 200/230 | MSM022P1A | MSD023P1E |
| Mitsubishi Electric Corporation | 200 | 100/115 | HC-PQ23 | MR-C20A1 |
| | | 200/230 | | MR-C20A |
| Yaskawa Electric Corporation | 200 | 100/115 | SGME-02BF12 | SGDE-02BP |
| | | 200/230 | SGME-02AF12 | SGDE-02AP |

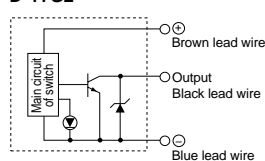
* For motor mounting dimensions, refer to the dimensions for series LJ1³⁰30 on page 143 as a reference for mounting and design.

* Refer to pages starting with 205 for driver dimensions, etc. Furthermore, for detailed specifications, etc., contact each motor manufacturer.

* For a non-standard motor specification, when the motor is mounted before shipping, the driver is included but the cable that connects the motor and driver is optional. Refer to page 100 for part numbers.

Switch Internal Circuit

D-Y7GL



Non-standard Motor

Vertical Mount

Series LJ1H10

Motor Output
100W

High Rigidity
Direct Acting
Guide

Ground Ball Screw
∅12mm/8mm lead

How to Order

LJ1H10 **G** 2 **1** **PH** — Stroke **K** — **F** **W** — X10

Motor specification

| | |
|----------|--|
| G | Mitsubishi Electric Industrial Co., Ltd. |
| R | Mitsubishi Electric Corporation |
| Y | Yaskawa Electric Corporation |

Power supply voltage

| | |
|----------|----------------------|
| 1 | 100/115VAC (50/60Hz) |
| 2 | 200/230VAC (50/60Hz) |
| 0 | Without motor |

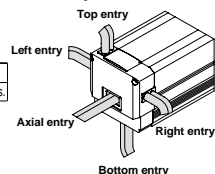
Cable entry direction

| | Actuator cable | Brake cable |
|----------|----------------|-------------|
| F | Axial | Left |
| R | Right | Axial |
| L | Left | Axial |
| T | Top | Axial |
| B | Bottom | Axial |

Switch

| | |
|------------|-------------------------|
| Nil | None |
| W | N.C. (B contact) 2 pcs. |

Cable entry direction



Specifications

| | | Standard stroke | mm | 100 | 200 | 300 | 400 | 500 |
|-------------------------------------|-----------------------------|--|---|-----|-----|-----|-----|-----|
| Performance | Body weight (without motor) | kg | | 5.1 | 5.9 | 6.7 | 7.4 | 8.2 |
| | Operating temperature range | °C | 5 to 40 (with no condensation) | | | | | |
| | Work load | kg | 10 | | | | | |
| | Rated thrust | N | 225 | | | | | |
| | Maximum speed | mm/s | 400 | | | | | |
| | Positioning repeatability | mm | ±0.02 | | | | | |
| Main parts | Motor | AC servomotor (100W) | | | | | | |
| | Encoder | Incremental system | | | | | | |
| | Lead screw | Ground ball screw ∅12mm, 8mm lead | | | | | | |
| | Guide | High rigidity direct acting guide | | | | | | |
| | Motor/Screw connection | With coupling | | | | | | |
| | Electromagnetic brake | Specifications | De-energized operation type, Rated voltage 24VDC ±10%, 0.4A | | | | | |
| Holding torque | | 0.4N·m | | | | | | |
| Connection method | | Ball screw mounting | | | | | | |
| Switch | Model | D-Y7GL | | | | | | |
| | Specifications | Power supply voltage: 4.5 to 28VDC Current consumption: 10mA or less Control output: Open collector, Load current: 40mA or less Internal voltage drop: 1.5V or less | | | | | | |
| Regenerative absorption unit | | | Refer to the selection guide below. | | | | | |

Intermediate strokes

Strokes other than the standard strokes on the left are available by special order. Consult SMC.

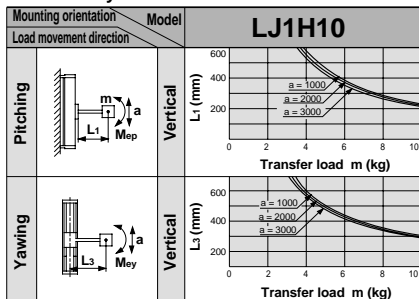
Allowable Moment (N·m)

Allowable static moment

| | |
|-----------------|------|
| Pitching | 10.2 |
| Yawing | 10.2 |

m : Transfer load (kg)
a : Work piece acceleration (mm/s²)
Me: Dynamic moment
L : Overhang to work piece center of gravity (mm)

Allowable dynamic moment



Refer to page 145 for deflection data.

Regenerative Absorption Unit/Regenerative Resistor Selection Guide

Depending on operating conditions, a regenerative absorption unit or regenerative resistor may be required for a non-standard motor with vertical mount specification. How to determine regenerative energy is shown below.

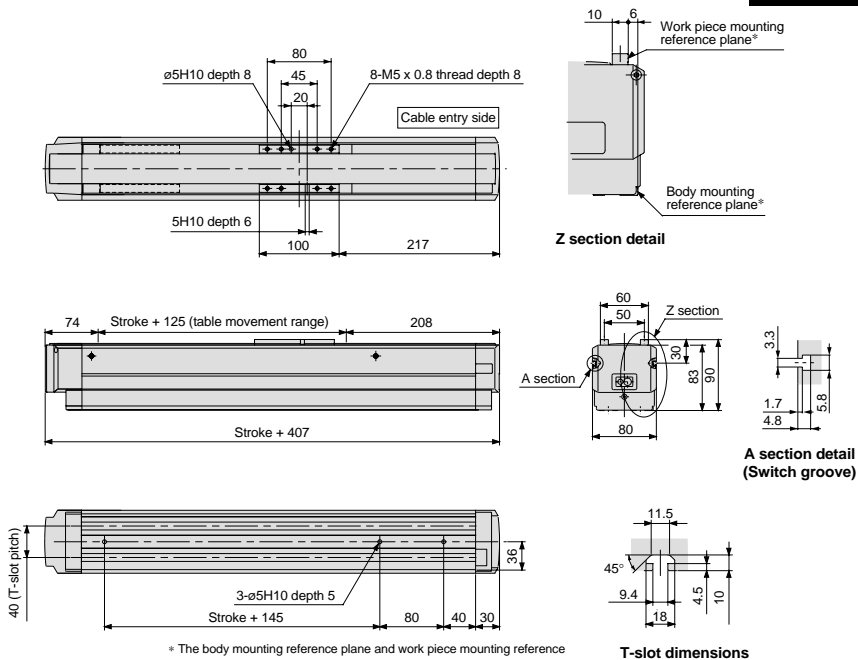
Regenerative energy = Motor coil energy consumption

- + Driver capacitor energy consumption (A)
- + Regenerative resistor energy consumption (B)

(A) and (B) vary depending on each motor and driver. Use of a regenerative absorption unit or regenerative resistor is recommended under any conditions when a vertical specification is used. Contact SMC for questions regarding selections. Regenerative absorption units and regenerative resistors are available as options, therefore, separately order a model compatible with the motor and driver selection from the options ordering procedures on page 100.

Non-standard Motor/Vertical Mount Specification **Series LJ1H10**

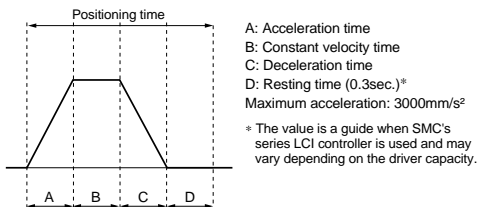
Dimensions/LJ1H10□2□PH(X10)

Scale: 15%


Positioning Time Guide

| | | Positioning time (sec.) | | | | |
|---------------------------|-----|-------------------------|-----|------|------|------|
| Positioning distance (mm) | | 1 | 10 | 100 | 250 | 500 |
| Speed (mm/s) | 10 | 0.4 | 1.3 | 10.3 | 25.3 | 50.3 |
| | 100 | 0.4 | 0.5 | 1.4 | 2.9 | 5.4 |
| | 200 | 0.4 | 0.5 | 0.9 | 1.7 | 2.9 |
| | 400 | 0.4 | 0.5 | 0.7 | 1.1 | 1.7 |

* Values will vary slightly depending on the operating conditions.



Non-standard Motors: The following motors will be mounted when a motor mounted type is specified.

| | Motor output (W) | Power supply voltage (VAC) | Motor model | Compatible driver model |
|--|------------------|----------------------------|-------------|-------------------------|
| Matsushita Electric Industrial Co., Ltd. | 100 | 100/115 | MSM011P1A | MSD011P1E |
| | | 200/230 | MSM012P1A | MSD013P1E |
| Mitsubishi Electric Corporation | 100 | 100/115 | HC-PQ13 | MR-C10A1 |
| | | 200/230 | | MR-C10A |
| Yaskawa Electric Corporation | 100 | 100/115 | SGME-01BF12 | SGDE-01BP |
| | | 200/230 | SGME-01AF12 | SGDE-01AP |

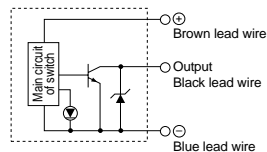
* For motor mounting dimensions, refer to the dimensions for series LJ1₅H10 on page 143 as a reference for mounting and design.

* Refer to pages starting with 205 for driver dimensions, etc. Furthermore, for detailed specifications, etc., contact each motor manufacturer.

* For a non-standard motor specification, when the motor is mounted before shipping, the driver is included but the cable that connects the motor and driver is optional. Refer to page 100 for part numbers.

Switch Internal Circuit

D-Y7GL



Non-standard Motor Vertical Mount

Series LJ1H10

Motor Output
100W
**High Rigidity
Direct Acting
Guide**
Ground Ball Screw
∅ 12mm/12mm lead

How to Order

LJ1H10 **G** **2** **1** **PB** — **Stroke** **K** — **F** **W** — **X10**

Motor specification

| | |
|----------|--|
| G | Mitsubishi Electric Industrial Co., Ltd. |
| R | Mitsubishi Electric Corporation |
| Y | Yaskawa Electric Corporation |

Power supply voltage

| | |
|----------|----------------------|
| 1 | 100/115VAC (50/60Hz) |
| 2 | 200/230VAC (50/60Hz) |
| 0 | Without motor |

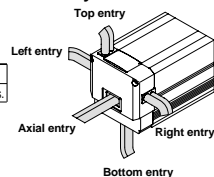
Cable entry direction

| | Actuator cable | Brake cable |
|----------|----------------|-------------|
| F | Axial | Left |
| R | Right | Axial |
| L | Left | Axial |
| T | Top | Axial |
| B | Bottom | Axial |

Switch

| | |
|------------|-------------------------|
| Nll | None |
| W | N.C. (B contact) 2 pcs. |

Cable entry direction



Specifications

| | | Standard stroke | mm | 100 | 200 | 300 | 400 | 500 |
|-------------------------------------|-----------------------------|--|---|-----|-----|-----|-----|-----|
| Performance | Body weight (without motor) | kg | | 5.1 | 5.9 | 6.7 | 7.4 | 8.2 |
| | Operating temperature range | °C | 5 to 40 (with no condensation) | | | | | |
| | Work load | kg | 5 | | | | | |
| | Rated thrust | N | 150 | | | | | |
| | Maximum speed | mm/s | 600 | | | | | |
| | Positioning repeatability | mm | ±0.02 | | | | | |
| Main parts | Motor | AC servomotor (100W) | | | | | | |
| | Encoder | Incremental system | | | | | | |
| | Lead screw | Ground ball screw ∅12mm, 12mm lead | | | | | | |
| | Guide | High rigidity direct acting guide | | | | | | |
| | Motor/Screw connection | With coupling | | | | | | |
| | Electromagnetic brake | Specifications | De-energized operation type, Rated voltage 24VDC ±10%, 0.4A | | | | | |
| Holding torque | | 0.4N·m | | | | | | |
| Connection method | | Ball screw mounting | | | | | | |
| Switch | Model | D-Y7GL | | | | | | |
| | Specifications | Power supply voltage: 4.5 to 28VDC Current consumption: 10mA or less Control output: Open collector, Load current: 40mA or less Internal voltage drop: 1.5V or less | | | | | | |
| Regenerative absorption unit | | | Refer to the selection guide below. | | | | | |

Intermediate strokes

Strokes other than the standard strokes on the left are available by special order. Consult SMC.

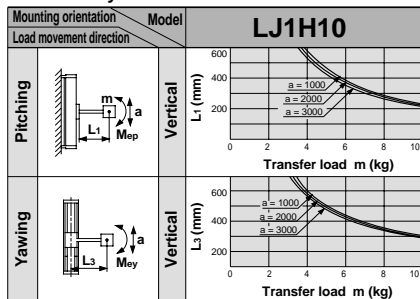
Allowable Moment (N·m)

Allowable static moment

| | |
|-----------------|------|
| Pitching | 10.2 |
| Yawing | 10.2 |

m : Transfer load (kg)
 a : Work piece acceleration (mm/s²)
 Me: Dynamic moment
 L : Overhang to work piece center of gravity (mm)

Allowable dynamic moment



Refer to page 145 for deflection data.

Regenerative Absorption Unit/Regenerative Resistor Selection Guide

Depending on operating conditions, a regenerative absorption unit or regenerative resistor may be required for a non-standard motor with vertical mounting specification. How to determine regenerative energy is shown below.

Regenerative energy = Motor coil energy consumption

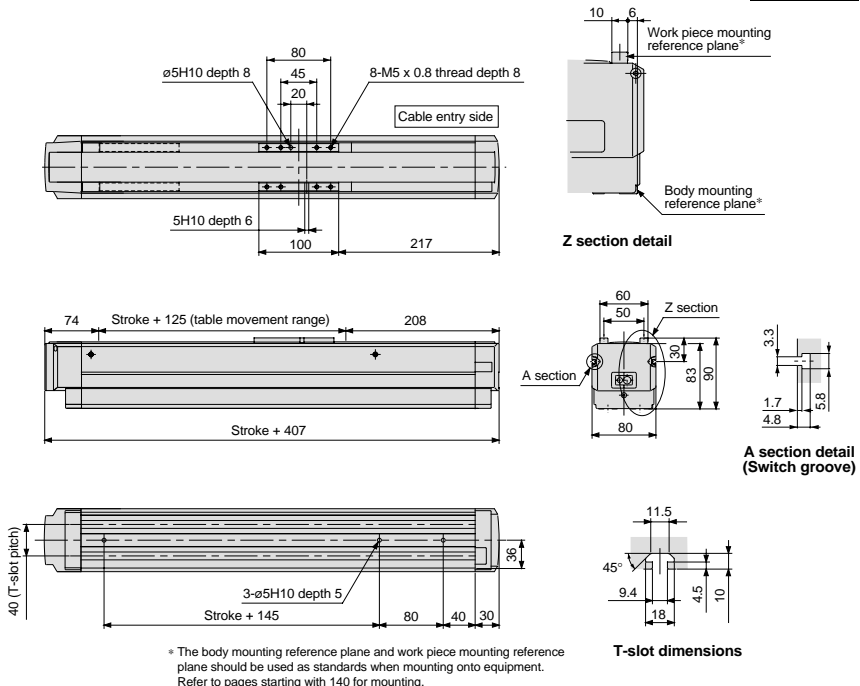
+ Driver capacitor energy consumption (A)

+ Regenerative resistor energy consumption (B)

(A) and (B) vary depending on each motor and driver. Use of a regenerative absorption unit or regenerative resistor is recommended under any conditions when a vertical specification is used. Contact SMC for questions regarding selections. Regenerative absorption units and regenerative resistors are available as options, therefore, separately order a model compatible with the motor and driver selection from the options ordering procedures on page 100.

Dimensions/LJ1H10□2□PB(X10)

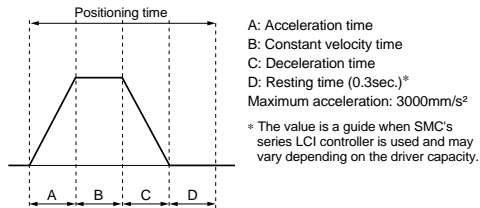
Scale: 15%



Positioning Time Guide

| | | Positioning time (sec.) | | | | |
|--------------|-----|-------------------------|-----|------|------|------|
| | | 1 | 10 | 100 | 250 | 500 |
| Speed (mm/s) | 10 | 0.4 | 1.3 | 10.3 | 25.3 | 50.3 |
| | 100 | 0.4 | 0.5 | 1.4 | 2.9 | 5.4 |
| | 300 | 0.4 | 0.5 | 0.8 | 1.3 | 2.1 |
| | 600 | 0.4 | 0.5 | 0.7 | 1.0 | 1.4 |

* Values will vary slightly depending on the operating conditions.



Non-standard Motors: The following motors will be mounted when a motor mounted type is specified.

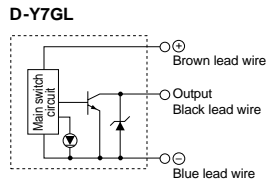
| | Motor output (W) | Power supply voltage (VAC) | Motor model | Compatible driver model |
|---|------------------|----------------------------|-------------|-------------------------|
| Matsushita Electric Industrial Co., Ltd. | 100 | 100/115 | MSM011P1A | MSD011P1E |
| | | 200/230 | MSM012P1A | MSD013P1E |
| Mitsubishi Electric Corporation | 100 | 100/115 | HC-PQ13 | MR-C10A1 |
| | | 200/230 | | MR-C10A |
| Yaskawa Electric Corporation | 100 | 100/115 | SGME-01BF12 | SGDE-01BP |
| | | 200/230 | SGME-01AF12 | SGDE-01AP |

* For motor mounting dimensions, refer to the dimensions for series LJ1_S10 on page 143 as a reference for mounting and design.

* Refer to pages starting with 205 for driver dimensions, etc. Furthermore, for detailed specifications, etc., contact each motor manufacturer.

* For a non-standard motor specification, when the motor is mounted before shipping, the driver is included but the cable that connects the motor and driver is optional. Refer to page 100 for part numbers.

Switch Internal Circuit



Non-standard Motor Vertical Mount

Series LJ1H10

Motor Output
100W
**High Rigidity
Direct Acting
Guide**
Rolled Ball Screw
∅12mm/8mm lead

How to Order

LJ1H10 **G** **2** **1** **NH** — Stroke **K** — **F** **W** — **X10**

Motor specification

| | |
|----------|--|
| G | Mitsubishi Electric Industrial Co., Ltd. |
| R | Mitsubishi Electric Corporation |
| Y | Yaskawa Electric Corporation |

Power supply voltage

| | |
|----------|----------------------|
| 1 | 100/115VAC (50/60Hz) |
| 2 | 200/230VAC (50/60Hz) |
| 0 | Without motor |

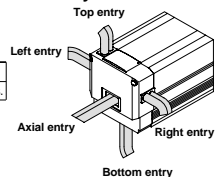
Cable entry direction

| | Actuator cable | Brake cable |
|----------|----------------|-------------|
| F | Axial | Left |
| R | Right | Axial |
| L | Left | Axial |
| T | Top | Axial |
| B | Bottom | Axial |

Switch

| | |
|------------|-------------------------|
| Nil | None |
| W | N.C. (B contact) 2 pcs. |

Cable entry direction



Specifications

| Standard stroke | | mm | 100 | 200 | 300 | 400 | 500 |
|-------------------------------------|-----------------------------|--|---|-----|-----|-----|-----|
| Performance | Body weight (without motor) | kg | 5.1 | 5.9 | 6.7 | 7.4 | 8.2 |
| | Operating temperature range | °C | 5 to 40 (with no condensation) | | | | |
| | Work load | kg | 10 | | | | |
| | Rated thrust | N | 225 | | | | |
| | Maximum speed | mm/s | 400 | | | | |
| | Positioning repeatability | mm | ±0.05 | | | | |
| Main parts | Motor | AC servomotor (100W) | | | | | |
| | Encoder | Incremental system | | | | | |
| | Lead screw | Rolled ball screw ∅12mm, 8mm lead | | | | | |
| | Guide | High rigidity direct acting guide | | | | | |
| | Motor/Screw connection | With coupling | | | | | |
| | Electromagnetic brake | Specifications | De-energized operation type, Rated voltage 24VDC ±10%, 0.4A | | | | |
| Holding torque | | 0.4N·m | | | | | |
| Connection method | | Ball screw mounting | | | | | |
| Switch | Model | D-Y7GL | | | | | |
| | Specifications | Power supply voltage: 4.5 to 28VDC Current consumption: 10mA or less Control output: Open collector, Load current: 40mA or less Internal voltage drop: 1.5V or less | | | | | |
| Regenerative absorption unit | | Refer to the selection guide below. | | | | | |

Intermediate strokes

Strokes other than the standard strokes on the left are available by special order. Consult SMC.

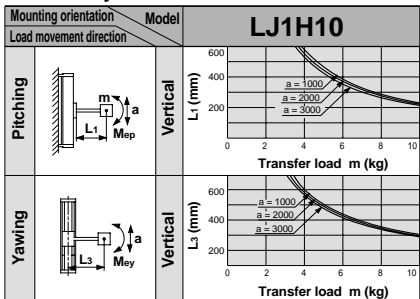
Allowable Moment (N·m)

Allowable static moment

| | |
|-----------------|------|
| Pitching | 10.2 |
| Yawing | 10.2 |

m : Transfer load (kg)
 a : Work piece acceleration (mm/s²)
 Me: Dynamic moment
 L : Overhang to work piece center of gravity (mm)

Allowable dynamic moment



Refer to page 145 for deflection data.

Regenerative Absorption Unit/Regenerative Resistor Selection Guide

Depending on operating conditions, a regenerative absorption unit or regenerative resistor may be required for a non-standard motor with vertical mounting specification. How to determine regenerative energy is shown below.

Regenerative energy = Motor coil energy consumption

+ Driver capacitor energy consumption (A)

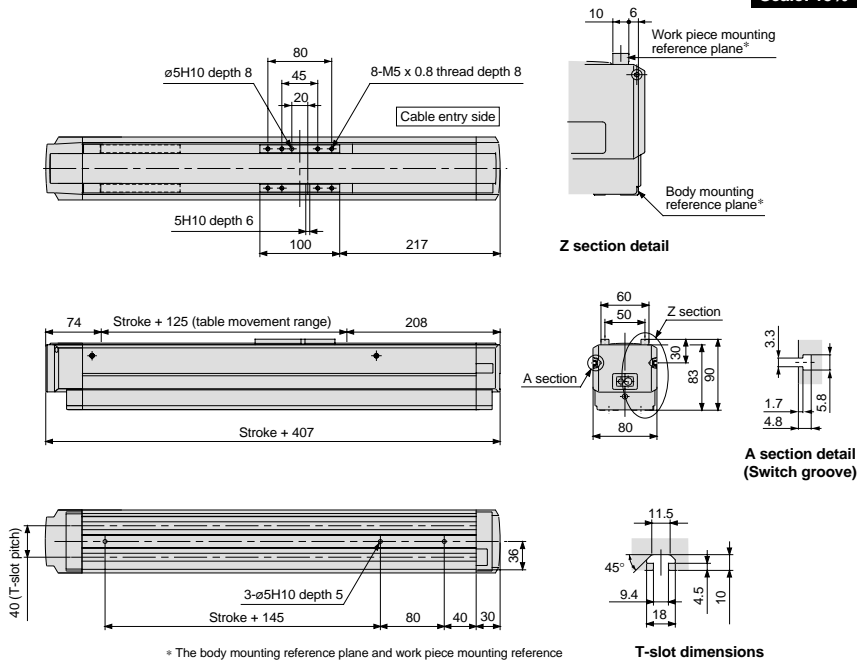
+ Regenerative resistor energy consumption (B)

(A) and (B) vary depending on each motor and driver. Use of a regenerative absorption unit or regenerative resistor is recommended under any conditions when a vertical specification is used. Contact SMC for questions regarding selections. Regenerative absorption units and regenerative resistors are available as options, therefore, separately order a model compatible with the motor and driver selection from the options ordering procedures on page 100.

Non-standard Motor/Vertical Mount Specification *Series LJ1H10*

Dimensions/LJ1H10□2□NH(X10)

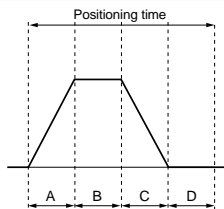
Scale: 15%



Positioning Time Guide

| | | Positioning time (sec.) | | | | |
|--------------|-----|-------------------------|-----|------|------|------|
| | | 1 | 10 | 100 | 250 | 500 |
| Speed (mm/s) | 10 | 0.4 | 1.3 | 10.3 | 25.3 | 50.3 |
| | 100 | 0.4 | 0.5 | 1.4 | 2.9 | 5.4 |
| | 200 | 0.4 | 0.5 | 0.9 | 1.7 | 2.9 |
| | 400 | 0.4 | 0.5 | 0.7 | 1.1 | 1.7 |

* Values will vary slightly depending on the operating conditions.



Maximum acceleration: 3000mm/s²

* The value is a guide when SMC's series LCI controller is used and may vary depending on the driver capacity.

Non-standard Motors: The following motors will be mounted when a motor mounted type is specified.

| | Motor output (W) | Power supply voltage (VAC) | Motor model | Compatible driver model |
|--|------------------|----------------------------|-------------|-------------------------|
| Matsushita Electric Industrial Co., Ltd. | 100 | 100/115 | MSM011P1A | MSD011P1E |
| | | 200/230 | MSM012P1A | MSD013P1E |
| Mitsubishi Electric Corporation | 100 | 100/115 | HC-PQ13 | MR-C10A1 |
| | | 200/230 | | MR-C10A |
| Yaskawa Electric Corporation | 100 | 100/115 | SGME-01BF12 | SGDE-01BP |
| | | 200/230 | SGME-01AF12 | SGDE-01AP |

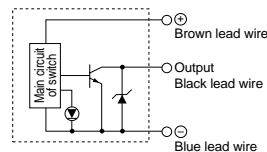
* For motor mounting dimensions, refer to the dimensions for series LJ1H10 on page 143 as a reference for mounting and design.

* Refer to pages starting with 205 for driver dimensions, etc. Furthermore, for detailed specifications, etc., contact each motor manufacturer.

* For a non-standard motor specification, when the motor is mounted before shipping, the driver is included but the cable that connects the motor and driver is optional. Refer to page 100 for part numbers.

Switch Internal Circuit

D-Y7GL



Non-standard Motor Vertical Mount

Series LJ1H10

Motor Output
100W
**High Rigidity
Direct Acting
Guide**
Rolled Ball Screw
 $\phi 12\text{mm}/12\text{mm}$ lead

How to Order

LJ1H10 **G** **2** **1** **NB** — Stroke **K** — **F** **W** — **X10**

Motor specification

| | |
|----------|--|
| G | Matsushita Electric Industrial Co., Ltd. |
| R | Mitsubishi Electric Corporation |
| Y | Yaskawa Electric Corporation |

Power supply voltage

| | |
|----------|----------------------|
| 1 | 100/115VAC (50/60Hz) |
| 2 | 200/230VAC (50/60Hz) |
| 0 | Without motor |

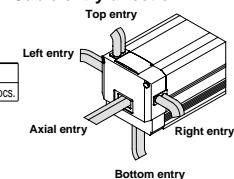
Cable entry direction

| | Actuator cable | Brake cable |
|----------|----------------|-------------|
| F | Axial | Left |
| R | Right | Axial |
| L | Left | Axial |
| T | Top | Axial |
| B | Bottom | Axial |

Switch

| | |
|------------|-------------------------|
| Nll | None |
| W | N.C. (B contact) 2 pcs. |

Cable entry direction



Specifications

| Performance | Standard stroke | mm | 100 | 200 | 300 | 400 | 500 |
|------------------------------|-----------------------------|--|--|-----|-----|-----|-----|
| | Body weight (without motor) | kg | 5.1 | 5.9 | 6.7 | 7.4 | 8.2 |
| | Operating temperature range | °C | 5 to 40 (with no condensation) | | | | |
| | Work load | kg | 5 | | | | |
| | Rated thrust | N | 150 | | | | |
| | Maximum speed | mm/s | 600 | | | | |
| | Positioning repeatability | mm | ±0.05 | | | | |
| Main parts | Motor | AC servomotor (100W) | | | | | |
| | Encoder | Incremental system | | | | | |
| | Lead screw | Rolled ball screw $\phi 12\text{mm}$, 12mm lead | | | | | |
| | Guide | High rigidity direct acting guide | | | | | |
| | Motor/Screw connection | With coupling | | | | | |
| | Electromagnetic brake | Specifications | De-energized operation type, Rated voltage 24VDC $\pm 10\%$, 0.4A | | | | |
| Holding torque | | 0.4N·m | | | | | |
| Connection method | | Ball screw mounting | | | | | |
| Switch | Model | D-Y7GL | | | | | |
| | Specifications | Power supply voltage: 4.5 to 28VDC Current consumption: 10mA or less Control output: Open collector, Load current: 40mA or less Internal voltage drop: 1.5V or less | | | | | |
| Regenerative absorption unit | | Refer to the selection guide below. | | | | | |

Intermediate strokes

Manufacture of strokes other than the standard strokes on the left will be treated as a special order. Consult SMC.

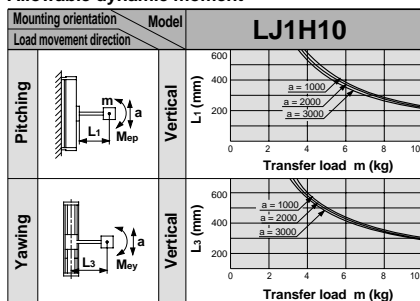
Allowable Moment (N·m)

Allowable static moment

| | |
|-----------------|------|
| Pitching | 10.2 |
| Yawing | 10.2 |

m : Transfer load (kg)
 a : Work piece acceleration (mm/s²)
 Me: Dynamic moment
 L : Overhang to work piece center of gravity (mm)

Allowable dynamic moment



Refer to page 145 for deflection data.

Regenerative Absorption Unit/Regenerative Resistor Selection Guide

Depending on operating conditions, a regenerative absorption unit or regenerative resistor may be required for a non-standard motor with vertical mounting specification. How to determine regenerative energy is shown below.

Regenerative energy = Motor coil energy consumption

+ Driver capacitor energy consumption (A)

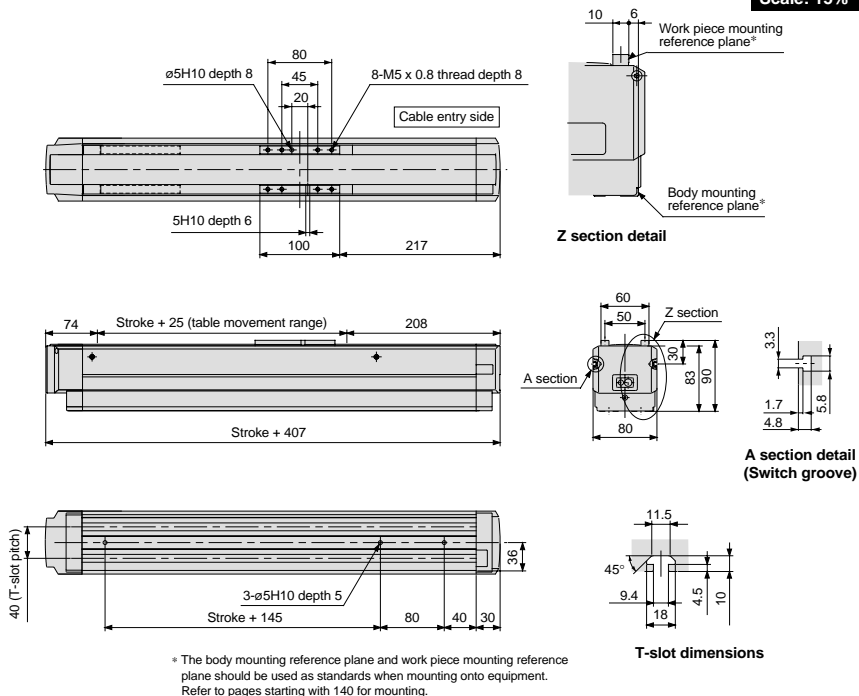
+ Regenerative resistor energy consumption (B)

(A) and (B) vary depending on each motor and driver. Use of a regenerative absorption unit or regenerative resistor is recommended under any conditions when a vertical specification is used. Contact SMC for questions regarding selections. Regenerative absorption units and regenerative resistors are available as options, therefore, separately order a model compatible with the motor and driver selection from the options ordering procedures on page 100.

Non-standard Motor/Vertical Mount Specification **Series LJ1H10**

Dimensions/LJ1H10□2□NB(X10)

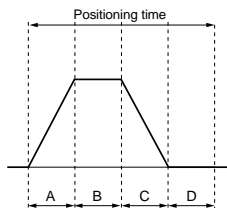
Scale: 15%



Positioning Time Guide

| | | Positioning time (sec.) | | | | |
|--------------|-----|-------------------------|-----|------|------|------|
| | | 1 | 10 | 100 | 250 | 500 |
| Speed (mm/s) | 10 | 0.4 | 1.3 | 10.3 | 25.3 | 50.3 |
| | 100 | 0.4 | 0.5 | 1.4 | 2.9 | 5.4 |
| | 300 | 0.4 | 0.5 | 0.8 | 1.3 | 2.1 |
| | 600 | 0.4 | 0.5 | 0.7 | 2.0 | 1.4 |

* Values will vary slightly depending on the operating conditions.



A: Acceleration time
 B: Constant velocity time
 C: Deceleration time
 D: Resting time (0.3sec.)*
 Maximum acceleration: 3000mm/s²
 * The value is a guide when SMC's series LC1 controller is used and may vary depending on the driver capacity.

Non-standard Motors: The following motors will be mounted when a motor mounted type is specified.

| | Motor output (W) | Power supply voltage (VAC) | Motor model | Compatible driver model |
|--|------------------|----------------------------|-------------|-------------------------|
| Matsushita Electric Industrial Co., Ltd. | 100 | 100/115 | MSM011P1A | MSD011P1E |
| | | 200/230 | MSM012P1A | MSD013P1E |
| Mitsubishi Electric Corporation | 100 | 100/115 | HC-PQ13 | MR-C10A1 |
| | | 200/230 | | MR-C10A |
| Yaskawa Electric Corporation | 100 | 100/115 | SGME-01BF12 | SGDE-01BP |
| | | 200/230 | SGME-01AF12 | SGDE-01AP |

* For motor mounting dimensions, refer to the dimensions for series LJ1H10 on page 143 as a reference for mounting and design.

* Refer to pages starting with 205 for driver dimensions, etc. Furthermore, for detailed specifications, etc., contact each motor manufacturer.

* For a non-standard motor specification, when the motor is mounted before shipping, the driver is included but the cable that connects the motor and driver is optional. Refer to page 100 for part numbers.

Switch Internal Circuit

D-Y7GL

