

NS-LXMS

Single-Axis Robot Large Nut Rotation Type Main Unit Width 145mm 400W
Horizontal Type Single Slider



Model: **NS-LXMS-□-400-□-□-T2-□-AQ-□-RT**

| Series | Type | Encoder Type | Motor Type | Lead | Stroke | Applicable controller | Cable Length | Option |
|--------|------|-------------------------------|------------|-----------------------|---|-----------------------|--|-----------------------------|
| NS | LXMS | A: Absolute I: Incremental | 400: 400W | 40: 40mm 20: 20 mm | 500: 500mm T2: SCON 2200: 2,200mm | S: SSEL XSEL-P/Q | N: No S: 3m M: 5m X□□: Length Specified | See the options table below |

Model/Specification

| Model | Encoder Type | Motor Output (W) | Lead (mm) | Stroke (mm) | Speed (mm/s) | Acceleration (Note 1) | | | | Payload capacity (Note 1 & 2) | | | | Rated Thrust (N) |
|---------------------------------|--------------|------------------|-----------|-------------|--------------|-----------------------|---------|-----------------|---------|-------------------------------|---------|-----------------|---------|------------------|
| | | | | | | Horizontal (G) | | Vertical (G) | | Horizontal (kg) | | Vertical (kg) | | |
| | | | | | | Rated | Maximum | Rated | Maximum | Rated | Maximum | Rated | Maximum | |
| NS-LXMS-□-400-40-□-T2-□-AQ-□-RT | Absolute | 400 | 40 | 500~2200 | 2400 | 0.3 | 1.0 | Horizontal Only | | 40 | 10 | Horizontal Only | | 170 |
| NS-LXMS-□-400-20-□-T2-□-AQ-□-RT | Incremental | | 20 | | 1300 | 0.3 | 1.0 | | | 80 | 24 | | | 340.1 |

*In the model above, □ indicates the type of encoder, □ indicates the stroke, □ indicates the cable length, and □ indicates the option.

Option

| Name | Model | Reference page | Note |
|--|---------|----------------|-------------------------------------|
| AQ Seal | AQ | →P5 | Standard Equipment |
| Creep Sensor | C | →P5 | |
| Installation Direction of Standard Cable Track | CT1~CT4 | →P5 | Enter CT1 for standard installation |
| Installation Direction of Extended Cable Track | ET1~ET4 | →P5 | |
| Limit Switch | L | →P6 | |
| Guide with Ball-Retaining Mechanism | RT | →P6 | Standard Equipment |

Common specifications

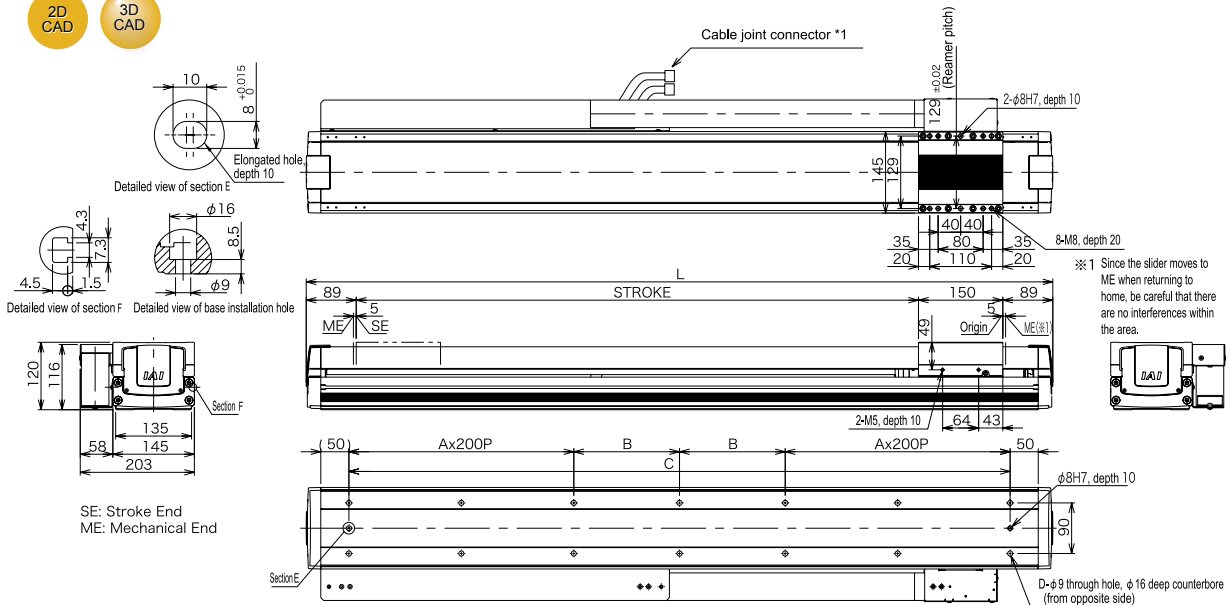
| | |
|-----------------------------------|---|
| Driving Method | Ball Thread, Diameter φ20 mm, Equivalent to Rolled C5 |
| Repeated Positioning Accuracy | +/- 0.01 mm |
| Backlash | 0.02 mm or less |
| Guide | Integrated to Base |
| Dynamic Allowable Moment (Note 3) | Ma: 104.9N·m, Mb: 149.9N·m, Mc: 248.9N·m |
| Overhung load length | Ma Direction: 750 mm or less; Mb and Mc Direction: 750 mm or less |
| Base | Material: Aluminium, White Alumite Treatment |
| Cable Length (Note 4) | N: No cable; S: 3 m; M: 5 m; X□□: Length specified |
| Ambient Temperature | 0~40 degrees Celsius, 85% RH or less (No condensation) |

Dimensional drawing

The CAD drawings can be downloaded from our homepage.



*1 Connects motor cables and encoder cables.
For details on cables, please see page 22.



*For the internal dimensions of the cable track, please see page 6.

| Stroke | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 | |
|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| L | 828 | 928 | 1028 | 1128 | 1228 | 1328 | 1428 | 1528 | 1628 | 1728 | 1828 | 1928 | 2028 | 2128 | 2228 | 2328 | 2428 | 2528 | |
| A | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 |
| B | 138 | 188 | 238 | 288 | 338 | 388 | 438 | 488 | 538 | 588 | 638 | 688 | 738 | 788 | 838 | 888 | 938 | 988 | 1038 |
| C | 676 | 776 | 876 | 976 | 1076 | 1176 | 1276 | 1376 | 1476 | 1576 | 1676 | 1776 | 1876 | 1976 | 2076 | 2176 | 2276 | 2376 | |
| D | 10 | 10 | 10 | 10 | 14 | 14 | 14 | 14 | 18 | 18 | 18 | 18 | 22 | 22 | 22 | 22 | 26 | 26 | |
| Mass (kg) | 18.6 | 20.1 | 21.6 | 23.1 | 24.5 | 26.0 | 27.5 | 29.0 | 30.5 | 32.0 | 33.5 | 35.0 | 36.5 | 38.0 | 39.5 | 41.0 | 42.5 | 43.9 | |

Applicable Controller Specifications

| Applicable Controller | Max. Number of Axes Controlled | Compatible Encoder Type | Operation Method | Power/Voltage |
|-----------------------|--------------------------------|--------------------------|--------------------------------|-------------------------------------|
| X-SEL-P/Q | 6 axis | Absolute/ Incremental | Programs | Three-Phase/ Single-Phase 200VAC |
| SSEL | 2 axis | | Positioner/Pulse Train Control | Single-Phase 100/200VAC |
| SCON | 1 axis | | | |



Note

(Note 1) For the relationship between acceleration and payload capacity, see page 4.
 (Note 2) The values shown are payload capacities during operation at maximum speed.
 (Note 3) For a 10,000-km running life.
 (Note 4) The maximum cable length is 30 m. Please specify length in meters.
 (E.g., X08 = 8 m)
 (Note 5) When an axis with a long stroke (1,300 mm or more) is used hanging from the ceiling, the cover of the body may hang down and contact the slider. Therefore, in cases of such use, please contact our sales representative in advance.