# NS-MZMS

Single-Axis Robot Medium Nut Rotation Type Main Unit Width 125mm 200W
Vertical Type Single Slider

■Model

**NS — MZMS — □ — 200 — □ — □ — T2 — □ — AQ — B □ — RT**

| Series | Type | Encoder Type | Motor Type | Lead | Stroke | Applicable controller | Cable Length | |
|---|---|---|---|---|---|---|---|---|
| | | A: Absolute<br>I : Incremental | 200: 200W | 20: 20 mm | 500: 500mm<br>↓<br>800: 800mm | T2: SCON<br>SSEL<br>XSEL-P/Q | N :No<br>S :3m<br>M :5m<br>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 Acceleration | Maximum Acceleration | Rated Acceleration | Maximum Acceleration | |
| NS-MZMS-①-200-20-②-T2-③-AQ-④-RT | Absolute<br>Incremental | 200 | 20 | 500~800 | 1000 | Vertical Only | 0.3 | 0.5 | Vertical Only | 6 | 3 | 170.9 | | |

*In the model above, ① indicates the type of encoder, ② indicates the stroke, ③ indicates the cable length, and ④ indicates the option.

## Option

| Name | Model | Reference page | Note |
|---|---|---|---|
| AQ Seal | AQ | →P5 | Standard Equipment |
| Brake (*) | B | →P5 | Standard Equipment |
| Installation Direction of Standard Cable Track | CT1~CT4 | →P5 | Enter CT1 for standard installation |
| Guide with Ball-Retaining Mechanism | RT | →P6 | Standard Equipment |

(*) A brake box is attached for powering the brake.
(For details, see page 21)

## Common specifications

| | |
|---|---|
| Driving Method | Ball Thread, Diameter φ16 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: 69.6N·m, Mb: 99.0N·m, Mc: 81.3N·m |
| Overhung load length | Ma Direction: 600mm or less; Mb and Mc Direction: 600mm 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) |

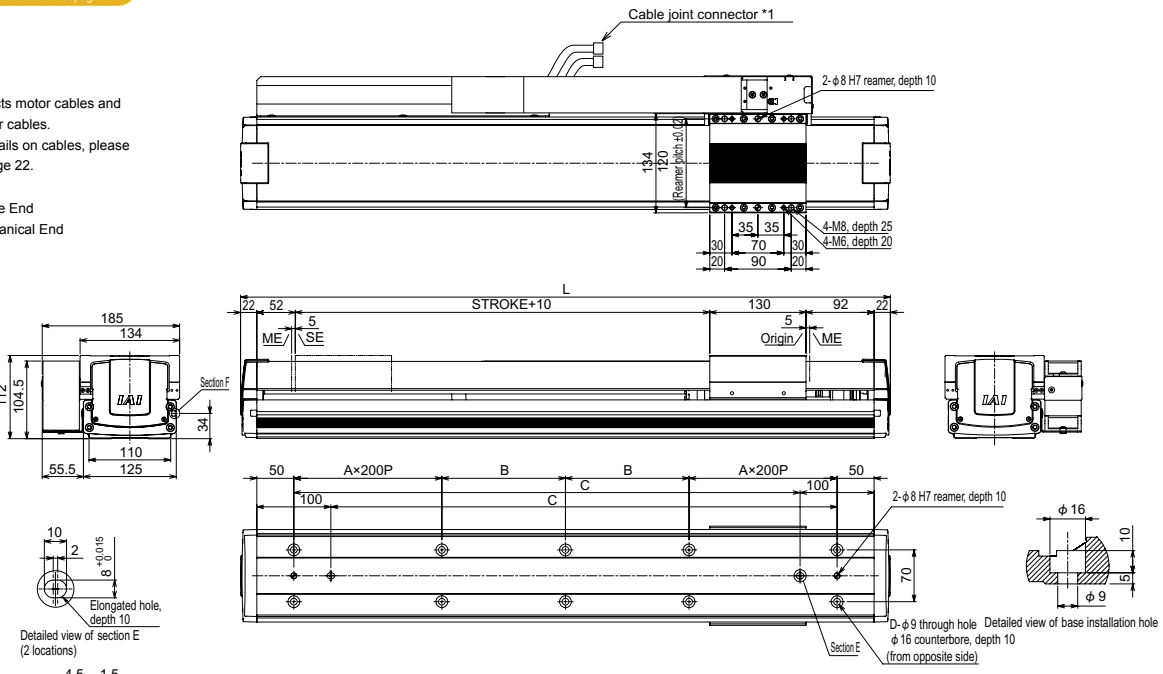
## Dimensional drawing

The CAD drawings can be downloaded from our homepage.

2D CAD

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

SE: Stroke End
ME: Mechanical End




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

| Stroke | 500 | 600 | 700 | 800 |
|---|---|---|---|---|
| L | 828 | 928 | 1028 | 1128 |
| A | 1 | 1 | 1 | 1 |
| B | 142 | 192 | 242 | 292 |
| C | 634 | 734 | 834 | 934 |
| D | 10 | 10 | 10 | 10 |
| Mass (kg) | 13.5 | 14.8 | 16.0 | 17.2 |

## 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 | | | Single-Phase 100/200VAC |
| SCON | 1 axis | | Positioner Pulse Train Control | |

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)