# LSA-S10HM

## Shaft type, 100 mm wide High-thrust type, multi-slider

■ Model Name **LSA – S10HM – I – 200 – ☐ – T2 – ☐ – ☐**

Series — Type — Encoder type — Applicable drive output — Stroke — Applicable controller — Cable length — Options

I: Incremental specification

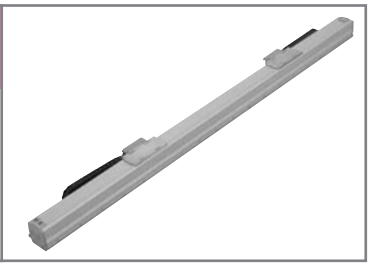
200 : 105:105mm
200W ≀
1815:1815mm

T2 : SCON SSEL XSEL-P/-Q

N: None S: 3m M: 5m X☐☐:

Refer to the options table below.

* Refer to P. 13 for details on each item comprising the model name.



## Model Specifications

| Model | Encoder type | Applicable drive output (per slider) | Stroke Specified in 90-mm steps (mm) | Speed (Note 1) (mm/sec) | Payload (Note 2) | | Rated thrust (N) | Maximum thrust (N) | Maximum acceleration (G) (Note 2) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | Horizontal (kg) | Vertical (kg) | | | |
| LSA-S10HM-I-200-①-T2-②-③ | I: Incremental | 200 | 105~1815 | 2500 | 20 | – | 80 | 320 | 3 |

* In the above model names, ① indicates the stroke, ② indicates the cable length, and ③ indicates the options.

## Options

| Name | Model | Reference page | Remarks |
|---|---|---|---|
| Cable track installation direction | CT5 | →P14 | Sideway specification |
| Cable track for user wiring, type S | US1/US5 | →P14 | Standard specification/ sideway specification |
| Cable track for user wiring, type M | UM1/UM5 | →P14 | Standard specification/ sideway specification |

Note) To change the cable track position to the opposite side, install the actuator by rotating it 180 degrees horizontally because the actuator is bilaterally symmetrical.

## Common Specifications

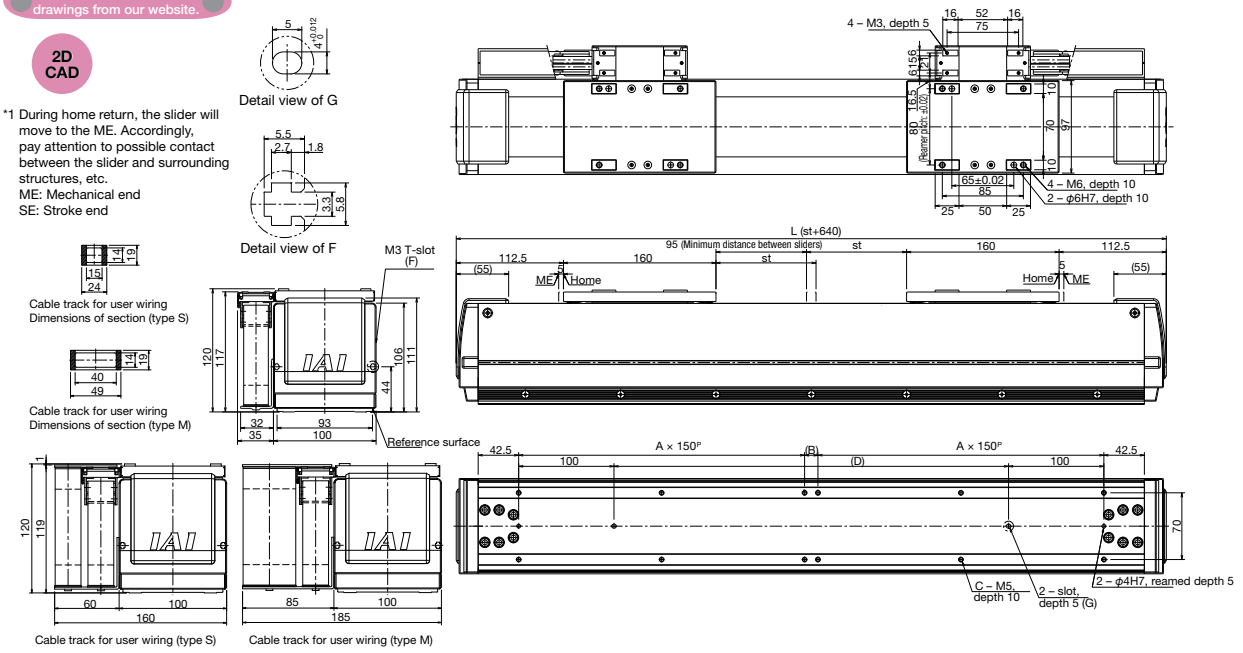
| | |
|---|---|
| Drive method | Linear servo motor |
| Positioning repeatability | ±0.005mm |
| Guide | Built-in linear guide |
| Permissible load moment | Ma: 57.4N • m Mb: 81.9 • m Mc: 60.8N • m |
| Overhang load length | 300 mm or less in Ma direction / 300 mm or less in Mb/Mc directions |
| Base | Material: Aluminum with white alumite treatment |
| Applicable controller | T2: SCON, SSEL, XSEL-P/Q |
| Cable length (Note 3) | N: No Cable S: 3m M: 5m X☐☐: Specified length |
| Ambient operating temperature | 0 to 40°C, 85% RH or below (non-condensing) |

## Dimensions

You can download CAD drawings from our website.

2D CAD

*1 During home return, the slider will move to the ME. Accordingly, pay attention to possible contact between the slider and surrounding structures, etc.
ME: Mechanical end
SE: Stroke end




| Stroke | 105 | 195 | 285 | 375 | 465 | 555 | 645 | 735 | 825 | 915 | 1005 | 1095 | 1185 | 1275 | 1365 | 1455 | 1545 | 1635 | 1725 | 1815 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 745 | 835 | 925 | 1015 | 1105 | 1195 | 1285 | 1375 | 1465 | 1555 | 1645 | 1735 | 1825 | 1915 | 2005 | 2095 | 2185 | 2275 | 2365 | 2455 |
| A | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 7 | 7 | 7 |
| B | 14 | 104 | 194 | 284 | 74 | 164 | 254 | 44 | 134 | 224 | 14 | 104 | 194 | 284 | 74 | 164 | 254 | 44 | 134 | 224 |
| C | 12 | 12 | 12 | 12 | 16 | 16 | 16 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 28 | 28 | 28 | 32 | 32 | 32 |
| D | 414 | 504 | 594 | 684 | 774 | 864 | 954 | 1044 | 1134 | 1224 | 1314 | 1404 | 1494 | 1584 | 1674 | 1764 | 1854 | 1944 | 2034 | 2124 |
| Weight(kg) | 15.6 | 16.4 | 17.3 | 18.1 | 18.9 | 19.8 | 20.6 | 21.4 | 22.3 | 23.1 | 23.9 | 24.8 | 25.6 | 26.4 | 27.3 | 28.1 | 28.9 | 29.8 | 30.6 | 31.4 |

## Applicable Controller Specifications

| Applicable controller | Maximum controlled axes | Operating method | Power-supply voltage | Reference page |
|---|---|---|---|---|
| XSEL | 6 axes | Program | Single-phase/ three-phase AC 200 V | →P53 |
| SSEL | 2 axes | Program/positioner | Single-phase AC100/200V | →P52 |
| SCON | 1 axis | Pulse train/positioner | Single-phase AC100/200V | →P51 |

**Caution**

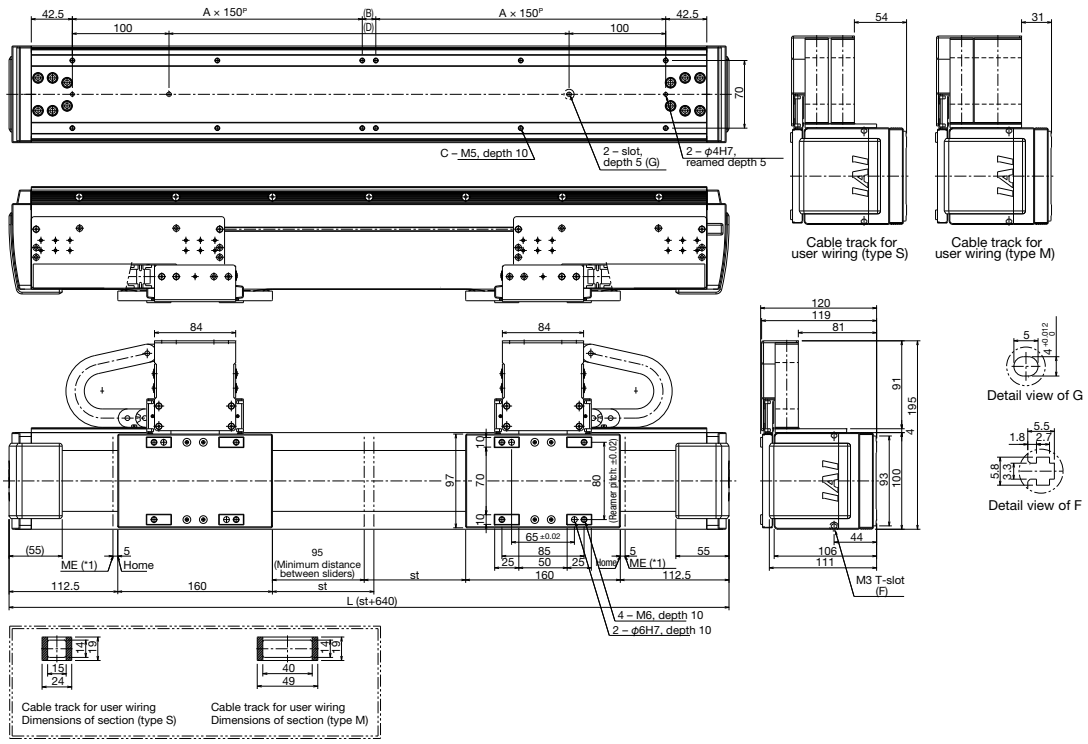
(Note 1) The maximum speed may not be attained if the stroke is short.
(Note 2) The maximum acceleration varies depending on the operating conditions.
(Note 3) The maximum cable length is 20 m for the SCON/SSEL and 30 m for the XSEL. Specify a desired length in units of meters.
(Example: X08 = 8 m)

## Dimensions – Sideway Specification

You can download CAD drawings from our website.

2D CAD

*1 During home return, the slider will move to the ME. Accordingly, pay attention to possible contact between the slider and surrounding structures, etc.
ME: Mechanical end
SE: Stroke end




| Stroke | 105 | 195 | 285 | 375 | 465 | 555 | 645 | 735 | 825 | 915 | 1005 | 1095 | 1185 | 1275 | 1365 | 1455 | 1545 | 1635 | 1725 | 1815 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 745 | 835 | 925 | 1015 | 1105 | 1195 | 1285 | 1375 | 1465 | 1555 | 1645 | 1735 | 1825 | 1915 | 2005 | 2095 | 2185 | 2275 | 2365 | 2455 |
| A | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 7 | 7 | 7 |
| B | 14 | 104 | 194 | 284 | 74 | 164 | 254 | 44 | 134 | 224 | 14 | 104 | 194 | 284 | 74 | 164 | 254 | 44 | 134 | 224 |
| C | 12 | 12 | 12 | 12 | 16 | 16 | 16 | 20 | 20 | 20 | 24 | 24 | 24 | 24 | 28 | 28 | 28 | 32 | 32 | 32 |
| D | 414 | 504 | 594 | 684 | 774 | 864 | 954 | 1044 | 1134 | 1224 | 1314 | 1404 | 1494 | 1584 | 1674 | 1764 | 1854 | 1944 | 2034 | 2124 |
| Weight (kg) | 16.6 | 17.4 | 18.3 | 19.1 | 19.9 | 20.8 | 21.6 | 22.4 | 23.3 | 24.1 | 24.9 | 25.8 | 26.6 | 27.4 | 28.3 | 29.1 | 29.9 | 30.8 | 31.6 | 32.4 |