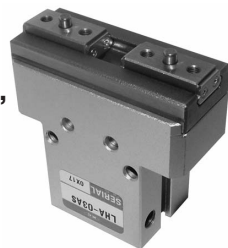


# LHA Series Linear Guide Hand

## Gripper Designed to Achieve High Durability for Use in High-Speed Applications

### Key Features

- Integral linear guide used for high rigidity, high accuracy, and long service life
- Supporting long external finger
- Extra-smooth sliding (option)
- Centering accuracy  $\pm 0.05\text{mm}$  (option)
- Rubber cover (option)
- L1 series (long stroke type) available



LHA-03AS

### How To Order

Standard ----- **LHA-01AS**

Option ----- **LHA - 01AS1 - L1 - ET3S2 - NO** ----- LHA-01AS-L1-NO (single acting to open) with 2 of ET3 non-contact reed switches

| Model     |                  |
|-----------|------------------|
| Symbol    | Name             |
| LHA       | Normal           |
| LHA-□□-L1 | Long Stroke Type |

| Size                |                     |
|---------------------|---------------------|
| Symbol              |                     |
| 006AS <sup>*3</sup> |                     |
| 01AS                | 01AS1 <sup>*4</sup> |
| 03AS                | 03AS1 <sup>*4</sup> |
| 04AS                | 04AS1 <sup>*4</sup> |
| 05AS                | 05AS1 <sup>*4</sup> |
| 06AS                | 06AS1 <sup>*4</sup> |

| Stroke    |                  |
|-----------|------------------|
| Symbol    | Name             |
| No Symbol | Normal           |
| L1        | Long Stroke Type |

| Sensor, Quantity |                    |
|------------------|--------------------|
| Symbol           | Name               |
| ET3              | Non-Contact 3-Lead |
| ET3L             | Non-Contact 3-Lead |
| ET2              | Non-Contact 2-Lead |
| ET2L             | Non-Contact 2-Lead |
| E24              | Contact 2-Lead     |
| E24L             | Contact 2-Lead     |
| E25              | Contact 2-Lead     |
| E25L             | Contact 2-Lead     |
| E18              | Non-Contact 3-Lead |
| E18L             | Non-Contact 3-Lead |
| E19              | Non-Contact 2-Lead |
| E19L             | Non-Contact 2-Lead |
| S1               | 1 Sensor           |
| S2               | 2 Sensors          |

| Option |                             |
|--------|-----------------------------|
| Symbol | Name                        |
| NO     | Normally Open               |
| NC     | Normally Closed             |
| U      | Extra-Smooth Sliding        |
| K      | Self-Centering              |
| G      | Rubber Cover                |
| GT     | Heat (Silicon Rubber) Cover |
| GH     | Oil (Fluororubber) Cover    |

\*1 06AS only  
 \*2 Switch only for 006AS  
 \*3 L1 option not available  
 \*4 Available only for LHA-L1  
 \*5 Available except 006AS, 05AS1, and 06AS1

For option detail ▶36P

For sensor detail ▶277P

### Specification

| Model   | LHA-006   | LHA-01                  |                         | LHA-03                  |                         | LHA-04                  |               | LHA-05        |               | LHA-06        |               |
|---|---|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|---------------|---------------|---------------|---------------|---------------|
|   | For Layout Drawing ▶39P                                     | For Layout Drawing ▶40P | For Layout Drawing ▶41P | For Layout Drawing ▶42P | For Layout Drawing ▶43P | For Layout Drawing ▶44P | AS (Standard) | AS (Standard) | AS (Standard) | AS (Standard) | AS (Standard) |
| Working Pressure  | Pneumatic: 0.1 to 0.7 MPa (0.3 to 0.7MPa for NO & NC types) |                         |                         |                         |                         |                         |               |               |               |               |               |
| Lubrication   | Not Required or Turbine Oil Class 1 (ISOVG32)               |                         |                         |                         |                         |                         |               |               |               |               |               |
| Ambient Temperature (°C)                                | 5 to 60   |                         |                         |                         |                         |                         |               |               |               |               |               |
| Total Jaw Stroke (mm)                                   | 4   | 5                       | 10                      | 9                       | 18                      | 11                      | 22            | 15            | 30            | 20            | 40            |
| Cylinder Diameter (mm)                                  | dia.6   | dia.12                  |                         | dia.16                  |                         | dia.20                  |               | dia.25        |               | dia.32        |               |
| Rod Diameter (mm)                                       | dia.3   | dia.6                   |                         | dia.8                   |                         | dia.10                  |               | dia.12        |               | dia.16        |               |
| Internal Volume [Reciprocation] (cm <sup>3</sup> /time) | 0.10  | 0.32                    | 0.64                    | 1.58                    | 3.16                    | 2.89                    | 5.78          | 6.32          | 12.6          | 14.07         | 28.1          |
| Repeatability (mm)                                      | ±0.01   |                         |                         |                         |                         |                         |               |               |               |               |               |
| Weight (kg)   | 0.04  | 0.085                   | 0.094                   | 0.15                    | 0.19                    | 0.36                    | 0.37          | 0.52          | 0.62          | 0.82          | 0.97          |