

Pneumatic Cylinders II Catalog No. CB-030SA

## Discontinue

Hybrid robot Single axis unit

# HRL-1 Series

● Load capacity: 5, 10, 15, 25, 50, 65 kg





Specifications

| Specifications                 |    |           |                         |                                   |                                   |                                |                                   |                                    |                                    |                                   |
|--------------------------------|----|-----------|-------------------------|-----------------------------------|-----------------------------------|--------------------------------|-----------------------------------|------------------------------------|------------------------------------|-----------------------------------|
| Descriptions                   |    |           | HRL-1□-05               | HRL-1□-10                         | HRL-1□-15                         | HRL-1□-15H                     | HRL-1□-25                         | HRL-1□-50                          | HRL-1□-65                          |                                   |
| Load capacity (vertical) *1 kg |    |           | *1 kg                   | 5                                 | 10                                | 15                             |                                   | 25                                 | 50                                 | 65                                |
| Basic cylinder                 |    |           |                         | SCM-00-20D                        | SCM-00-25D                        | SCM-00-32D                     |                                   | SCM-00-40D                         | SCM-00-50D                         | SCM-00-63B                        |
| Bore size mm                   |    |           | mm                      | 20                                | 25                                | 32                             |                                   | 40                                 | 50                                 | 63                                |
| Guide rod diameter             |    |           | mm                      | 13                                | 13                                | 16                             | 20                                | 20                                 | 25                                 | 30                                |
| Speed mm/s                     |    |           | mm/s                    | 50 to 500                         |                                   |                                |                                   |                                    |                                    |                                   |
| Working pressure MPa           |    |           | 0.3 to 0.7              |                                   |                                   |                                |                                   |                                    |                                    |                                   |
| Adjustable stroke range *2 mm  |    |           | 0 to -10 mm (push side) |                                   |                                   |                                |                                   |                                    |                                    |                                   |
| Shock absorber *3              |    |           | *3                      | NCK-00-0.7-P4                     |                                   | NCK-00-1.2-P4                  |                                   | NCK-00-12-P4                       |                                    |                                   |
| Product weight k               |    | Basic     |                         | 2 + (0.0033<br>× stroke length)   | 2.1 + (0.0037 ×<br>stroke length) | 2.8 + (0.0051 × stroke length) | 2.9 + (0.0069 ×<br>stroke length) |                                    | 11.9 + (0.0122<br>× stroke length) | 13.3 + (0.02 × stroke length)     |
|                                | kg | Long body |                         | 2.3 + (0.0033 ×<br>stroke length) | 2.4 + (0.0037 ×<br>stroke length) | 3.1 + (0.0051 × stroke length) | 3.2 + (0.0069 × stroke length)    | 12.5 + (0.0081<br>× stroke length) | 13.6 + (0.0122<br>× stroke length) | 15 + (0.02<br>× stroke length)    |
| Movable part                   |    | Basic     |                         | 0.9 + (0.0025 × stroke length)    | 0.9 + (0.0027 ×<br>stroke length) | 1.3 + (0.0041 × stroke length) | 1.6 + (0.0059 × stroke length)    | 4.1 + (0.0066 × stroke length)     | 5.2 + (0.0102 ×<br>stroke length)  | 6.1 + (0.0137 ×<br>stroke length) |
| weight k                       | kg | Long b    | ody                     | 1.0 + (0.0025 × stroke length)    | 1.0 + (0.0027 × stroke length)    | 1.5 + (0.0041 × stroke length) | 1.8 + (0.0059 × stroke length)    | 4.4 + (0.0066 × stroke length)     | 5.7 + (0.0102 × stroke length)     | 6.8 + (0.0137 ×<br>stroke length) |
| Speed controller *4            |    |           | SC3W-6-6-P4             |                                   |                                   |                                | SC3W-6-8-P4 SC3W-8-8-P4           |                                    |                                    |                                   |

<sup>\*1:</sup> Load capacity varies with air pressure, speed and absorption energy. (Value is for reference.)

<sup>\*2:</sup> Adjustable stroke is not available for pulled side.

<sup>\*3:</sup> The shock absorber is built into the body. Use within the following allowable shock absorber tolerance values at the working speed and working air pressure.

<sup>·</sup> HRL-1 F-05/10/15/15H Pull side: 70% or less

<sup>·</sup> HRL-1□F-25/50/65 Pull side: 65% or less

<sup>·</sup> Other than the above: 74% or less

<sup>\*4:</sup> The speed controller is an attachment.

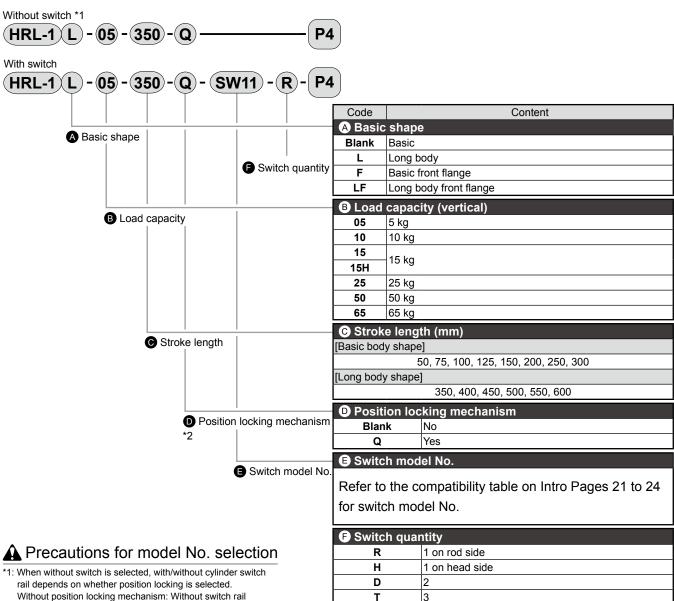
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### HRL-1 Series

#### Compatibility table by variation



#### How to order



- Without position locking mechanism: Without switch rail With position locking mechanism: With switch rail
- \*2: The position locking mechanism can be installed on the head side of the cylinder only.