### Ordering method

**STH04**

#### Lead Model

<table>
<thead>
<tr>
<th>Model</th>
<th>Lead Model</th>
<th>Motor</th>
<th>Resolution (Pulse/rotation)</th>
<th>Repeatability (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>Straight</td>
<td>28</td>
<td>4096</td>
<td>+/-0.05</td>
</tr>
</tbody>
</table>

#### Basic specifications

- **Motor**: 28 Step motor
- **Resolution (Pulse/rotation)**: 4096
- **Repeatability (mm)**: +/-0.05
- **Drive method**: Straight, Slide screw
- **Ball screw lead (mm)**: 5, 10
- **Maximum speed (mm/sec)**: 200, 400
- **Maximum payload (kg)**: 6, 4
- **Max. pressing force (N)**: 55, 30

#### Allowable overhang

- **Horizontal installation**: 2kg: 1534, 611, 415; 3kg: 944, 374, 255; 4kg: 659, 255, 175; 5kg: 653, 255, 145; 6kg: 659, 255, 175
- **Wall installation**: 2kg: 435, 595, 1004; 3kg: 263, 399, 920; 4kg: 177, 241, 629; 5kg: 435, 595, 1004; 6kg: 435, 595, 1004

#### Static loading moment

- **Stroke (mm)**: 50/100
- **Maximum loading moment (Unit: N.m)**: 1164, 1164, 1164

### Controller

- **Controller Operation method**
  - TS-S2: PC point trace / Remote command
  - TS-SH: Pulse train control

Note: The robot with the brake cannot use the TS-SD.

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**STH04 Straight model**

- **Effective stroke**: 50, 100
- **Motor installed on right**
- **Motor installed on left**

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**STH04** CTM slide type

Note 1: For the space saving models (R and L), the specifications with brake are applicable to only 100mm strokes.

Note 2: If changing from the origin position at the time of purchase, the machine reference amount must be reset. For details, refer to the manual.

Note 3: The space-saving models (R and L) with the plate cannot be selected.

Note 4: For details, see P.128.

Note 5: The robot cable is flexible and resists bending.

Note 6: The robot with the brake cannot use the TS-SD.

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**Controller**

- **TS-S2**: 490
- **TS-SH**: 490
- **TS-SD**: 500

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**Table of contents**:

- Option: Installation plate
- Contents of option: Plate, 4 pcs.

*For additional settings, contact your distributor.*

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**Diagram of installation hole**

- **Type of motor installation**
  - **Motor installed on right**
  - **Motor installed on left**

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**Drawing of installation hole**

- **Cross-sectional drawing**: A-A
- **Detailed drawing of installation hole**

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**Motor specifications**

- **Cable length with brake**: Approx. 200
- **Allowable overhang**: Note 1. Overhang all travelling service life of 3000km. (Service life is calculated for 75mm stroke models.)

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**Technical information**

- **STH04**
- **Step motor**
- **Shaft diameter**: 8

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**Technical specifications**

- **Motor**: 28 Step motor
- **Resolution (Pulse/rotation)**: 4096
- **Repeatability (mm)**: +/-0.05

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**S2**

- **Controller**: 490
- **Origin on the non-motor side is selectable**

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**SH**

- **Controller**: 490
- **Robot driver I/O cable**: 1m

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**1**

- **Controller**: 500
- **Origin on the non-motor side is selectable**

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**Controller**

- **Type of controller**: TS-S2, TS-SH, TS-SD
- **Operation method**: Pulse train control

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**Note**

- Note 1: Return-to-origin position.
- Note 2: Table movable range during return-to-origin operation. The values in | | show those when the return-to-origin direction is changed.
- Note 3: Linear encoder range during return-to-origin operation.
- Note 4: Linear encoder range during return-to-origin operation.
- Note 5: The minimum bending radius of the motor cable is 30mm.
- Note 6: Installation hole positions of the main unit with the specifications with the brake are common to those shown above.
- Note 7: Models with a brake will be 0.11kg heavier.