Ordering method

### STH06

- **Model**: STH06
- **Cable length (m)**: 0, 1
- **Motor installed on right**: 
- **Motor installed on left**: 
- **Effective stroke**:
  - 50: 31 (mm/sec)
  - 100: 61 (mm/sec)
  - 150: 91 (mm/sec)
- **Maximum payload**:
  - 50: 100 (kg)
  - 100: 200 (kg)
  - 150: 300 (kg)
- **MAX. pressing force (N)**:
  - 50: 1000 (N)
  - 100: 2000 (N)
  - 150: 3000 (N)
- **Ball screw lead (mm)**:
  - 50: 8 (mm/sec)
  - 100: 16 (mm/sec)
  - 150: 24 (mm/sec)
- **Step motor**
  - 50: 100 (mm)
  - 100: 200 (mm)
  - 150: 300 (mm)

### Basic specifications

- **Motor**: 42 [Step motor]
- **Resolution (Pulse/rotation)**: +/−0.05
- **Repeatability [mm]**: Note 1
- **Drive method**:
  - **Space-saving**
  - **Slide screw + belt**: Note 2
  - **Slide screw**: Note 3
- **Ball screw lead (mm)**:
  - 8
  - 16
- **Maximum speed (mm/sec)**:
  - 150
  - 400
- **Maximum payload (kg)**:
  - 9
  - 6
- **Max. pressing force (N)**:
  - 180
  - 100
  - 40
- **Maximum outside dimension**:
  - 155
  - 152
- **Motor installed on right**: 
- **Motor installed on left**: 
- **Origin on the non-motor side is selectable**

### Allowable overhang

- **Wall installation (mm)**:
  - 2kg: 3000, 1520, 1436
  - 4kg: 2493, 1031, 980
  - 6kg: 1571, 627, 428
  - 8kg: 956, 378, 260
  - 10kg: 3000, 2123, 1436
- **Horizontal installation (mm)**:
  - 2kg: 956, 378, 260
  - 4kg: 956, 378, 260
  - 6kg: 956, 378, 260
  - 8kg: 956, 378, 260
  - 10kg: 956, 378, 260

### Speed vs. payload

- **Vertical installation (mm)**:
  - 2kg: 3000, 2123, 1436
  - 4kg: 2493, 1031, 980
  - 6kg: 1571, 627, 428
  - 8kg: 956, 378, 260
- **Horizontal installation (mm)**:
  - 2kg: 3000, 2123, 1436
  - 4kg: 2493, 1031, 980
  - 6kg: 1571, 627, 428
  - 8kg: 956, 378, 260

### Static loading moment

- **Stroke**: 50, 100, 150
- **MY**: 75, 48, 65
- **MP**: 143, 207, 265
- **MR**: 242, 363, 425
- **Cable length (m)**:
  - 40: 2.32
  - 60: 2.27
  - 80: 3.0

### Controller

- **Controller**: TS-S2, TS-SH, TS-SD
- **Operation method**:
  - TS-S2: IO point command / Remote command
  - TS-SH: Pulse train control
  - TS-SD: Pulse train control

Note: Overhang at travelling service life of 3000km. (Service life is calculated for 100mm stroke models.)
STH06  Space-saving model (motor installed on right)  

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

Approx. 150
(Cable length without brake)
Approx. 110
(Cable length with brake)

Effective stroke
B  75  48  65
C  4  8  8
D  80  44  66
E  2  4  4
F  80  88  132
G  143  207  285
L  132  196  274

Weight (kg)
2.5  3.3  4.26

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. The minimum bending radius of the motor cable is R30.
Note 4. When installing the mechanical main unit using the back facing holes, push the slider toward the origin position on the motor side and insert the hex socket head cap (M6) bolt.
Note 5. The dimensions of the specifications with the brake are common to those shown above.
Note 6. Models with a brake will be 0.34kg heavier.

STH06  Space-saving model (motor installed on left)  

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

Approx. 150
(Cable length without brake)
Approx. 110
(Cable length with brake)

Effective stroke
B  75  48  65
C  4  8  8
D  80  44  66
E  2  4  4
F  80  88  132
G  143  207  285
L  132  196  274

Weight (kg)
2.5  3.3  4.26

Note 1. Return-to-origin position.
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Note 4. When installing the mechanical main unit using the back facing holes, push the slider toward the origin position on the motor side and insert the hex socket head cap (M6) bolt.
Note 5. The dimensions of the specifications with the brake are common to those shown above.
Note 6. Models with a brake will be 0.34kg heavier.