### Basic specifications

- **Motor**: 42 µ Step motor
- **Resolution (Pulse/rotation)**: 2048
- **Repeatability** (mm): +/-0.05
- **Drive method**: Space-saving
- **Ball screw lead**: 8 mm
- **Maximum speed** (mm/sec): 150
- **Maximum payload** (kg): 9
- **Max. pressing force**: 42 N
- **Cable length**: 10 m

#### Note
- **Note 1**: The maximum speed needs to be changed in accordance with the payload. See the “Speed vs. payload” graph shown on the right. For details, see P. 254.
- **Note 2**: Positioning repeatability in one direction.
- **Note 3**: The maximum speed needs to be changed in accordance with the payload. See the “Speed vs. payload” graph shown on the right. For details, see P. 254.
- **Note 4**: When installing the mechanical main unit using the back facing holes, use the hex socket head cap M6 bolts.
- **Note 5**: The installation hole positions of the main unit with the specifications with the brake are common to those shown above.
- **Note 6**: Models with a brake will be 0.34 kg heavier.

### Allowable overhang

- **Note**: Overhang at travelling service life of 3000 km. (Service life is calculated for 100 mm stroke models.)

### Static loading moment

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

### Ordering method

#### STH06 Straight model

- **Motor**: 42 µ Step motor
- **Resolution (Pulse/rotation)**: 2048
- **Repeatability** (mm): +/-0.05
- **Drive method**: Space-saving (Motor installed on left)
- **Ball screw lead**: 8 mm
- **Maximum speed** (mm/sec): 150
- **Maximum payload** (kg): 9
- **Max. pressing force**: 42 N
- **Cable length**: 10 m

#### Note
- **Note 1**: The maximum speed needs to be changed in accordance with the payload. See the “Speed vs. payload” graph shown on the right. For details, see P. 254.
- **Note 2**: Positioning repeatability in one direction.
- **Note 3**: The maximum speed needs to be changed in accordance with the payload. See the “Speed vs. payload” graph shown on the right. For details, see P. 254.
- **Note 4**: When installing the mechanical main unit using the back facing holes, use the hex socket head cap M6 bolts.
- **Note 5**: The installation hole positions of the main unit with the specifications with the brake are common to those shown above.
- **Note 6**: Models with a brake will be 0.34 kg heavier.

### Controller

#### Operation method
- **TS-S2**: P0 point trace / Remote command
- **TS-SH**: Pulse train control
- **TS-SD**: Pulse train control

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

### Contents of option: Plate, 4 pcs.
STH06  Space-saving model (motor installed on right)

STH06  Space-saving model (motor installed on left)