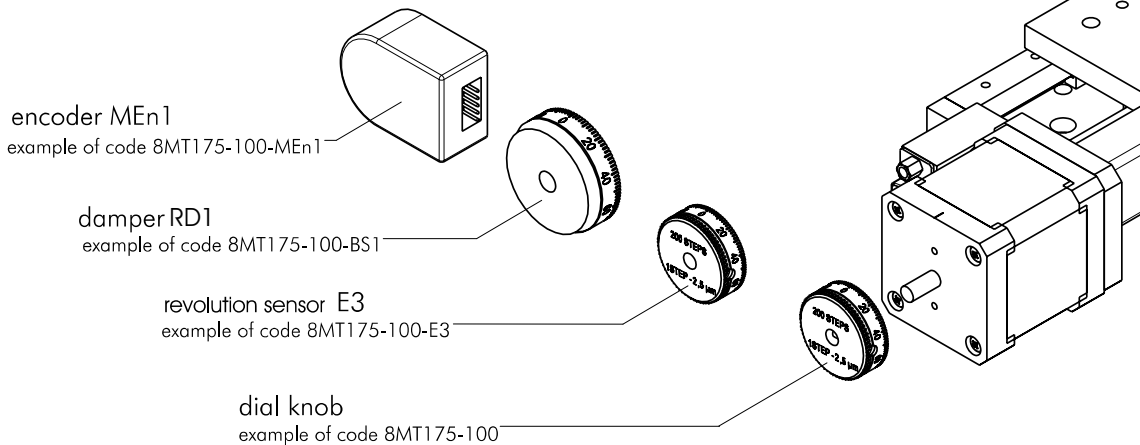


ORDERING INFORMATION for Motorized Translation and Rotation stages



DEFAULT CHOICE

Default choice for ordering motorized translation or rotation stages is with **dial knob**.

Example:

8MT175-100 - translation stage **8MT175-100** with **dial knob**.

8MR190-2-28 - rotation stage **8MR190-2-28** with **dial knob**.

REVOLUTION SENSOR

Revolution sensor counts stepper motor axis revolutions. It consists of Codewheel with one mark and Optointerrupter. When motor is connected to Standa controller **8SMC1-USBhF**, signal from **revolution sensor** allows monitoring of motor axis revolutions, possible loss of steps and detecting motor stalling. It is not as accurate as encoder, which provides feedback for each step of motor. **Revolution sensor** determines whether there was any loss of steps within one revolution of motor axis. This information is reported to the controller and corrective actions can be taken. **Revolution sensor** can also be used for precise home position setting.

For ordering motorized stages with **revolution sensor**, please **add symbols E3** to the code of motorized stages.

Example:

8MT175-100-E3 - translation stage **8MT175-100** with **revolution sensor E3**.

8MR190-2-28-E3 - rotation stage **8MR190-2-28** with **revolution sensor E3**.

DAMPER

When **damper RD** is used, **vibrations** and **motor noise** is greatly **reduced**, **settling time** is **improved** and **system resonances** are **suppressed**.

For ordering motorized stages with **damper**, please **add symbols RD1** to the code of motorized stages.

Example:

8MT175-100-RD1 - translation stage **8MT175-100** with **damper RD1**.

8MR190-2-28-RD1 - rotation stage **8MR190-2-28** with **damper RD1**.

Continued on next page

ORDERING INFORMATION: for Motorized Translation and Rotation stages

ENCODER

Our **2-channel encoder** is compact and lightweight.

Technical Characteristics of encoder

Operating Voltage	DC 4,5 V to 5,5 V
max. Current Consumption	(at 5 V) 57 mA
Pulse Width	180 ±45 degree
Signal-Phase Shift	(Channel A vs. B) 90 ±15 degree
Signal-Rise-/Fall-Time	0,25 / 0,25 μS
Limit Frequency	up to 100 kHz
Output Signals	rectangular 2
Pulses per Revolution	1000
Operating Temperature	0 °C to +70 °C

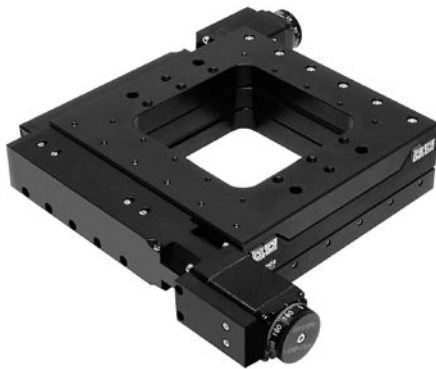
Encoder measures motor axis position change and direction and provides feedback to controller. **Encoder** type **HEDS-5540-B14** with **1000 pulses per revolution** is used by default. Standa controller **8SMC1-USBhF** can use signal from the encoder for motion monitoring. Result of the monitoring is high system reliability - controller can detect motor stall situation very quickly. Threshold level of motor stall detection is programmable using program SMCVieW included with controller **8SMC1-USBhF**. User specific software can get feedback from encoder through Standa controller **8SMC1-USBhF** and send motion correction commands back to it using provided software libraries. Unlike servo motors, stepper motors do not necessarily require encoders for operation. **Encoder provides monitoring option. 1000 pulses per revolution ensure precise step monitoring down to 1/4 microstep mode.**

For ordering motorized stages with encoder, please add symbols **ME_n1** to the code of motorized stages.

Example:

8MT175-100-ME_n1 - translation stage **8MT175-100** with encoder **ME_n1**.

8MR190-2-28-ME_n1 - rotation stage **8MR190-2-28** with encoder **ME_n1**.



8MTF-75LS05

Motorized XY Scanning Stage **8MTF75LS05** with stepper motor **28** and with dial knob



8MR151-1-ME_n1

Rotation stage **8MR151-1** with stepper motor **28** and with encoder **ME_n1**



8MR191-28-E3

Rotation stage **8MR191** with stepper motor **28** and with revolution sensor **E3**



8MR190-90-RD1

Rotation stage **8MR190-90** with stepper motor **4247** and with damper **RD1**



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