

Update : 12/10/2015



Non contractual photo

1 - Description

- The TMP ER 25-500-50 translation stage is driven by a step by step motor.
- It generates an irreversible translation motion through a precision screw.
- The translation stage got a linear guidance without recirculation at crossed roller bearings which perform a soft and accurate motion.
- Geometry and characteristic can be adapted upon customer's request.

2 - Applications

Accurate positioning of optical and captors.

3 -Technical Specifications

Motorization :

Stepper motor, bipolar 400 steps/revolution:

Voltage	24V
Current	0.35 A/phase
Resistance	3 G/phase
Inductance	1.8 mH/phase

Connector technology :

Standard delivery with 1m cable and SUBD 25 point plugs connector (pinout details page 2)

Limit switches :

2 optical sensors (commutation 5V)

FDC - : NO

FDC + : NF

Technical specifications:

Travel range	25 mm
Unidirectional repeatability	<1 μ m RMS
Mounting resolution	100 nm/pm
Minimum, control increment	5 s
Control frequency	$\leq$ 1000Hz
Loading capacity (vertically centred)	50 N

Option : Incremental encoder

10 steps / motor's turn

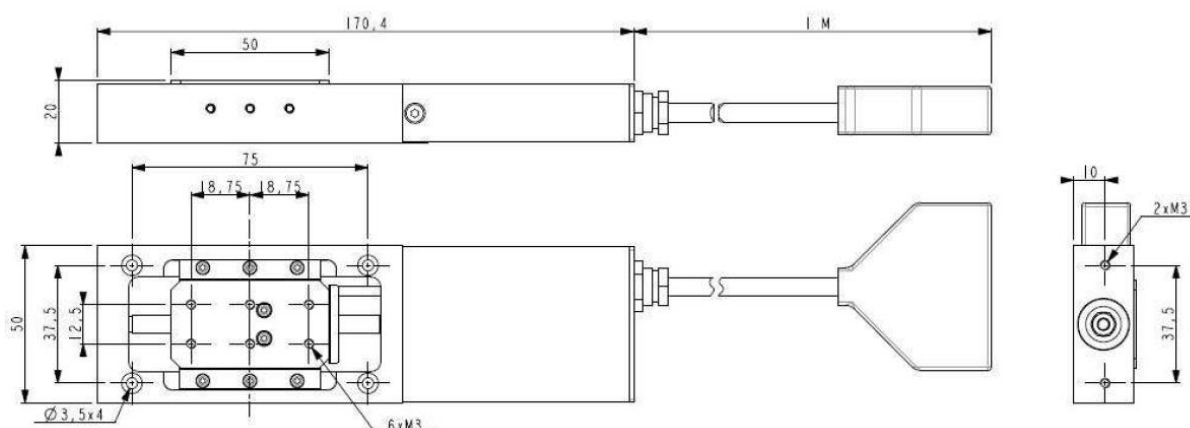
Used under high vacuum atmosphere

TMP ER 25-1000-50 is compatible in use in high vacuum atmosphere (10⁻⁶ mbar). Service factor must be limited at 50% in this use configuration.

Use temperature : 19 to 23°C

Mass : $\pm 900\text{g}$

4 - Dimensions



5 - Pinouts Connector

N° Pin	Designation	N° Pin	Designation
1	Phase A+	19	Encodeur A
2		20	Encodeur B
3		21	Supply 5V
4	Phase A-	22	0V (common with pin N°16)
5		23	Encodeur A (option)
6	Phase B+	24	Encodeur B (option)
7		25	Index
8	Phase B-		
14			
15	Earth		
16	Index		
17	0V (common with pin N°22)		
18	FDC + (usually closed)		
	FDC - (usually open)		

Nota: These data are provided, for information, subject to modifications as a result of technical improvements.



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