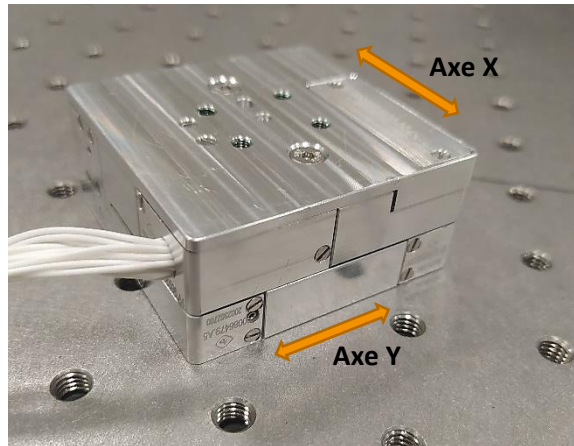


Update : 11/23/2020



1 – System application

Sample positioner on a robot arm. Space constraint application. Research and industrial market.

2 - Description

- The XY positioner is made up of 2 translation stages (Tx and Ty).
- Each stage of the assembly is driven by a stepper motor (2 phases), associated with a reduction stage.
- The translational movement generated through a precision screw is irreversible (positional stability without power supply).
- The translation stages are fitted with pre-stressed linear ball guides which ensure smooth and precise movement, while guaranteeing optimum rigidity.
- The geometry and characteristics of the positioner can be adapted to the customer's request.

3 - Technical specifications

TMP 2-1000-10 stage

Motorization :

Hybrid stepper motor 2 phases 200 steps/revolution :

Supply voltage	24V
Power	0.225 A/phase
Strength	7.3 Ω/phase
Inductance (1kHz)	1.4 mH/phase

Technical specifications :

Usable stroke	2 mm
Uni-directional repeatability	<5 μm
Resolution	0.4 μm/pm
Minimum control increment	5 step/motor
control frequency	1500Hz

vertical load capacity	10 N
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Connection:

No connection.

Operating temperature:

15 to 25 °C

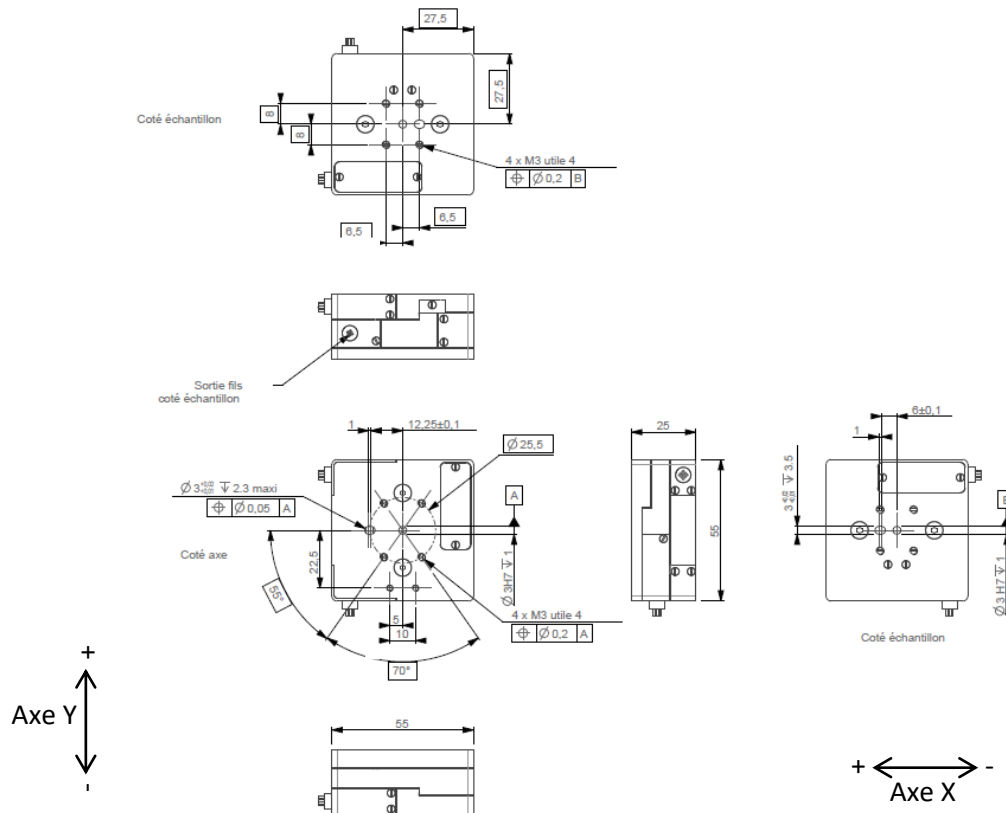
Limit switches:

FDC - : NF
FDC + : NF

Mass:

250 g approximately

4 - Dimensions and interfaces



5 - Connection

The electrical harness is marked wire by wire for each axis:

Landmark	Designation
A+	Phase A+
A-	Phase A-
B+	Phase B+
B-	Phase B-
COM	Common contacts
FDC-	FDC-
FDC+	FDC+

Note: The data in this sheet are provided for information only, subject to modifications following technical improvements.

