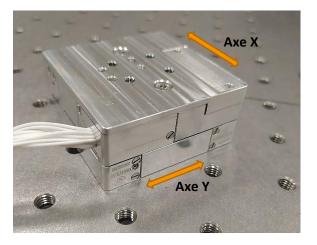


# MICRO-POSITIONING STAGE XY 2-1000-10

DATASHEET ISP19A1034FPI0001A

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 :

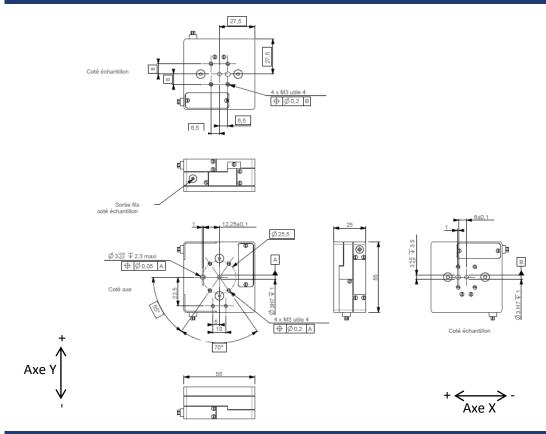
Usable stroke	2 mm
Uni-directional repeatability	<5 µm
Resolution	0.4 µm/pm
Minimum control increment	5 step/motor
control frequency	1500Hz

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	vertical load capacity	10 N		
Connection:	Operating temperature:	Operating temperature:		
No connection.	15 to 25 °C			
Limit switches:	Mass:			
FDC - : NF	250 g approximately			
FDC + : NF				

## 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+	

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

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