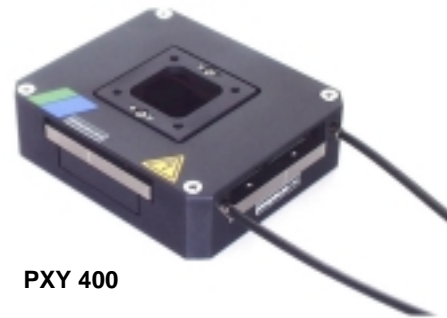


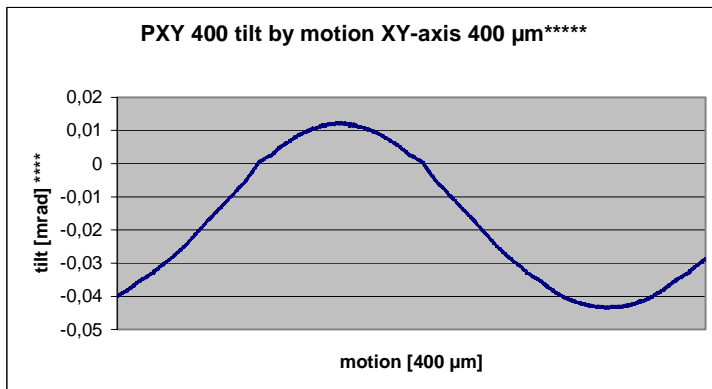
PXY 400

150 V

- motion up to 400 µm x 400 µm
- high resonant frequency
- integrated pre-load
- motion without mechanical play due to solid state hinges



PXY 400



applications:

- scanning systems
- wafer positioning
- scanning probe microscopy
- automation
- handling systems

series PXY part no.	unit	PXY 400 T-208-00	
motion in x and y**	µm	400	
operating voltage	V	-10 to +150	
integrated feedback system	-	no	
capacitance	x-axis	µF	7.6
(± 20%)***	y-axis	µF	7.6
resolution open loop*		nm	0.53
resonant frequency			
without additional mass	x-axis	Hz	385
	y-axis	Hz	240
with additional mass m = 70 g	x-axis	Hz	164
	y-axis	Hz	130
temperature range	°C		-20 to 80
connector	-		
cable length	m		1
dimensions	length L	mm	80
	width B	mm	68
	height H	mm	24
free central space	mm²		22 x 22
weight	g		275

Applications in the field of microscopy often require a positioning element with a free central hole. The model PXY 400 combines its compact size with a large motion of 400 µm (16 mil) in the x and y directions. A new design of the actuator produces a high resonant frequency and an improved dynamical behavior. Its free central space of 22 x 22 mm² makes this element ideally suited to a large number of applications such as wafer positioning, scanning, and handling systems.

* measured with E-103-18 amplifier
 ** typical value measured with -20V to 130V
 *** typical value for small electrical field strength
 **** measured with ZYGO Interferometer
 ***** typical measurement value PXY 400 part no. 3184