**Introduction** 

H01 piezo fiber stretcher is designed for fiber stretching applications. Its principle is to cause the hinge structure outward expansion by the action of three piezo stacks placed at 120 degrees thereby stretching the optical fiber

wound in the outer diameter groove.



# Radial expansion | H01.6K Piezo Fiber Stretchers



- Radial stroke is 7µm
- Resolution of the 0.5 nm
- Radial expansion
- Large displacement

# Applications >>

- Fiber stretching
- Fiber optic sensor
- Optical fiber intensity, optical wavelength adjustment

Harbin Core Tomorrow Science & Technology Co., Ltd.

Tel: +86-451-86268790 Fax: +86-451-86267847

0 Email: info@coremorrow.com 17 Web: www.coremorrow.com Headquarters: Building I2, No.191 Xuefu Road, Nangang District, Harbin Shanghai Office: Building 2, No.608 Shengxia Road, Pudong District, Shanghai



#### Make Your Motion and Control More Accurate!

# Technical Data >>

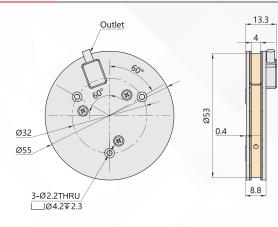
Туре		H01.6K	Units
Motion		Radial expansion	
Travel range (0~120V)	Radial	5.6	μm±20%
	Fiber/circle	28	
Travel range (0~150V)	Radial	7	µm±20%, Cal.
	Fiber/circle	35	
Resolution	Radial	0.5	nm±20%, Cal.
	Fiber/circle	2.5	
Radial max. blocking force		250	Ν
Unloaded resonant frequency		9500	Hz±20%
Stiffness		30	N/µm±20%
El. capacitance		1.2	μF±20%
Operating temperature <sup>[1]</sup>		-20~80	°C
Material		Titanium, al	
Mass		60	g±5%
Size		Ø55×8	mm
Cable length <sup>[2]</sup>		1.5	m±10mm
Sensor/voltage connector <sup>[2]</sup>		-	

Note: Max driving voltage -20~150V, recommended voltage 0~120V for long-term and high-reliable operation. Technical data is measured by CoreMorrow E00/E01 series piezo controller.

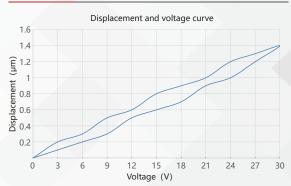
[1] Custom ultralow temperature and ultrahigh vacuum versions are available.[2] Custom cable length and connector is available.

Note: The parallelism of the moving platform is about  $20\mu m$ , and the roughness is about 1.6 to 3.2. Please contact the sales engineer for confirmation before purchase.

# Drawing >>



### Curves >>



Disclaimer: The data here are typical, only for reference. Some variations will occur for different batch.

## Recommended Controllers >>



E01.C1 LCD, membrane button, up to 625mA RS-232/RS-422/USB interface Software secondary development

#### E53.C Small size, 60mA RS-232/RS-422/USB interface Software secondary development



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