

APPLICATIONS

- > Space
- > Biotechnology
- > Medical devices
- > Defence
- > Microscopy
- > Laboratory automation
- > Materials characterization
- > Digital imaging
- > Recreational equipment

KEY FEATURES

- > High resolution
- > Blocking at rest. Position is preserved when power is removed
- > High resistance to external forces (shock, vibrations). It is ideal for embedded applications
- > High resolution within the nanometre range if required

RELATED PRODUCT

- > Stepping Piezo Controller SPC45



SPECIFICATIONS

> Preliminary data

PARAMETER	TYPICAL VALUE	UNIT
> Forces		
Actuation force ⁽¹⁾	20 / 100	N
Holding force ⁽²⁾	> 200	N
Stepping mode		
Travel range	5	mm
Typical min step size ⁽³⁾	< 100	nm
Typical max speed ⁽⁴⁾	200	µm/s

> Mechanical properties

Typical lifetime ⁽⁵⁾	100	cycles
Dimensions	Diam 40x62	mm
Total mass	160.00	g

ANNOTATIONS

⁽¹⁾ Max actuation stall force, no more displacement, depending on the max output peak current of the driver (20N @ 150 mA peak with SPC45 / 100N @ 1.2 A with High power amplifier)

⁽²⁾ Unpowered

⁽³⁾ Minimum Step size in coarse positioning mode for 50V output voltage step with SPC45

⁽⁴⁾ Maximum speed in coarse positioning mode for 100V output voltage step with SPC45

⁽⁵⁾ 1 cycle is over 2 mm stroke at max speed , for higher number than 100 cycles please contact CTEC

MISCELLANEOUS

> **Operating temperature :** 0°C ... +50°C

OPTIONS

- > **Longer stroke :** Please contact CTEC for more detail
- > **Non magnetic :** Please contact CTEC for more detail
- > **Additional guiding :** Please contact CTEC for more detail
- > **Vacuum compatible version :** Please contact CTEC for more detail



