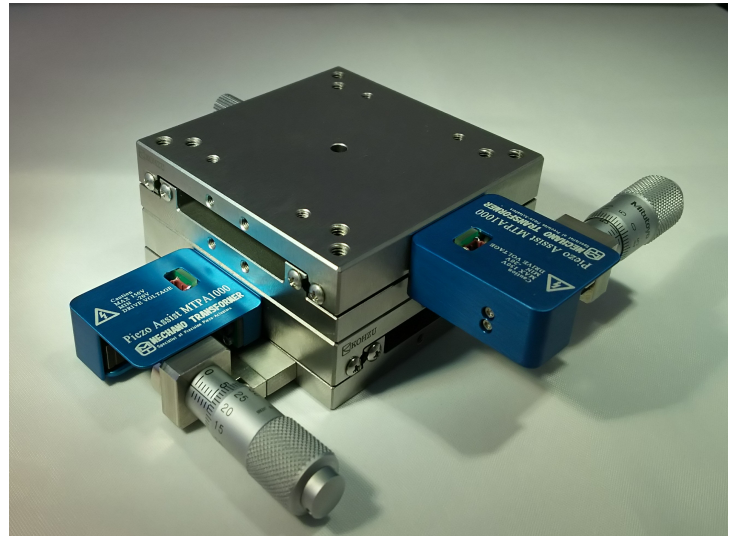


Specifications

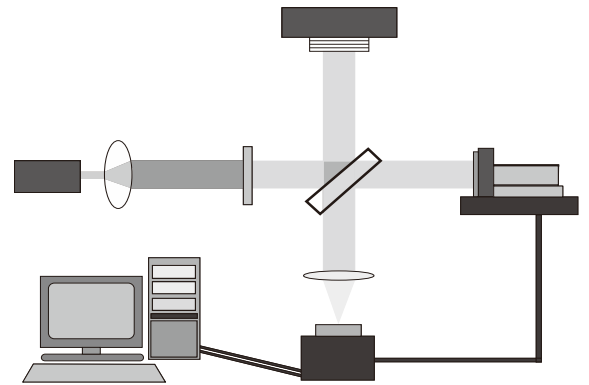
- Table size: 70x70 mm
- Bearing type: Gothic-Arch bearing
- Coarse adjustment : Micrometer
- Fine adjustment : Piezo Assist
- Travel range with coarse adjustment : 13 mm
- Travel range with fine adjustment : 60 μm
- Motion linearity : $\leq 1\mu\text{m}/13\text{mm}$
- Minimum reading for micrometer : 10 $\mu\text{m}/\text{div}$
- Minimum fine adjustment : 20nm
- Moment load stiffness : 0.1 arcsec/N·cm
- Horizontal load capacity : 117.6N(12kgf)
- Perpendicularity : $\leq 20\mu\text{m}/13\text{mm}$
- Material : Stainless steel
- Environment: 0 to 85°C with humidity less than 40%
- Mass: 1.2 kg (With Control Box: 1.7kg)

*All dimensions and specifications stated are nominal.

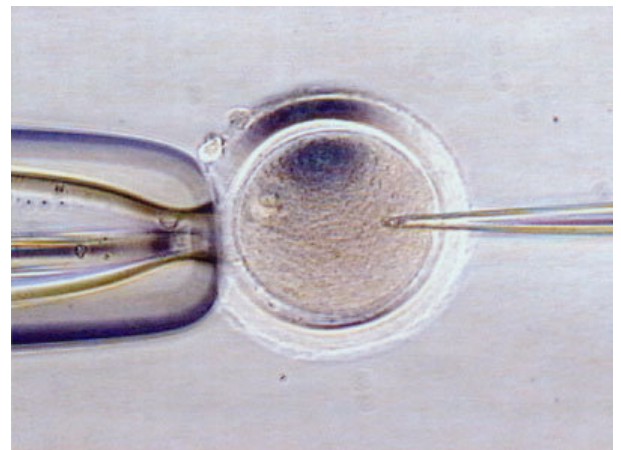


Suggested applications

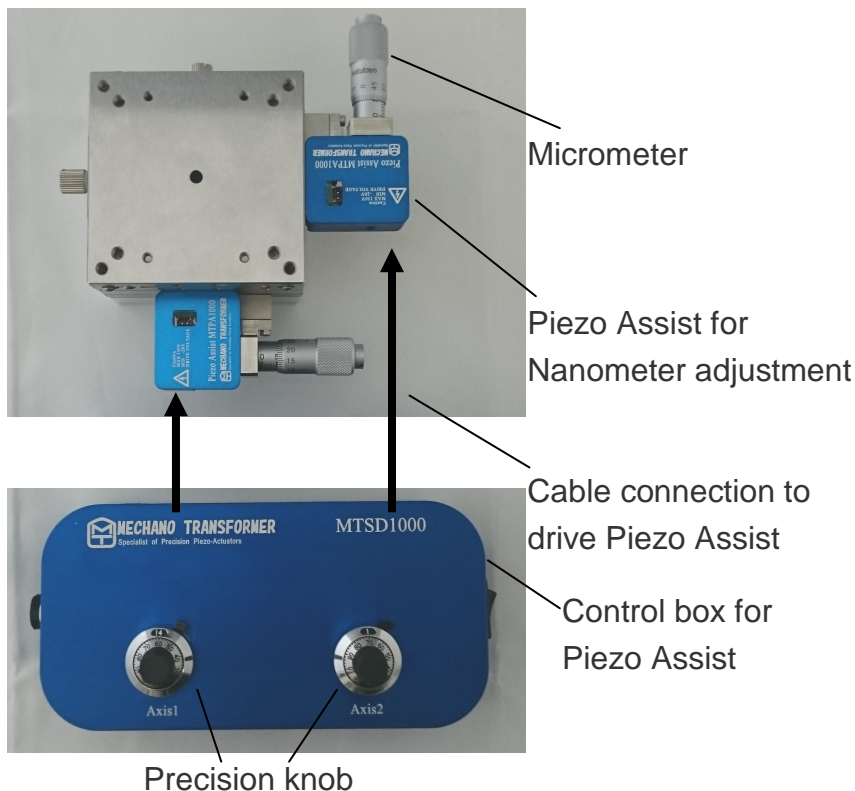
1. Optical alignment



2. Cell manipulation



Configurations and connections



Data

<Resolution>

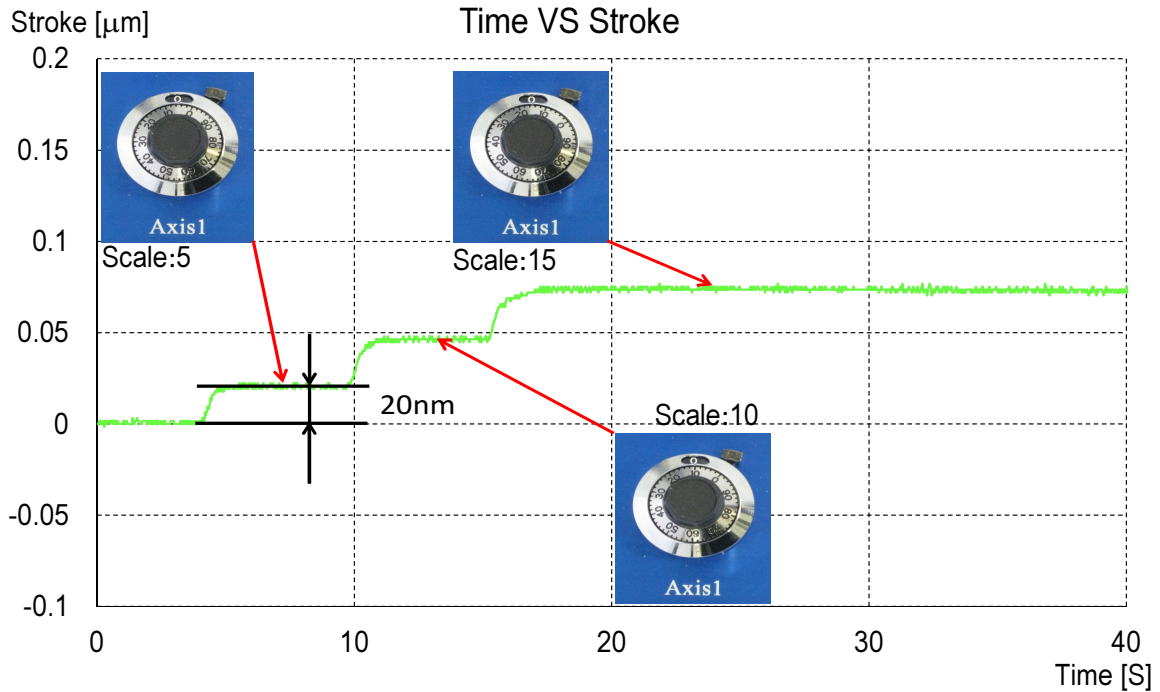


Fig1 Time Vs Scale reading of precision knob

(This experiment was conducted on shock absorbing desk)

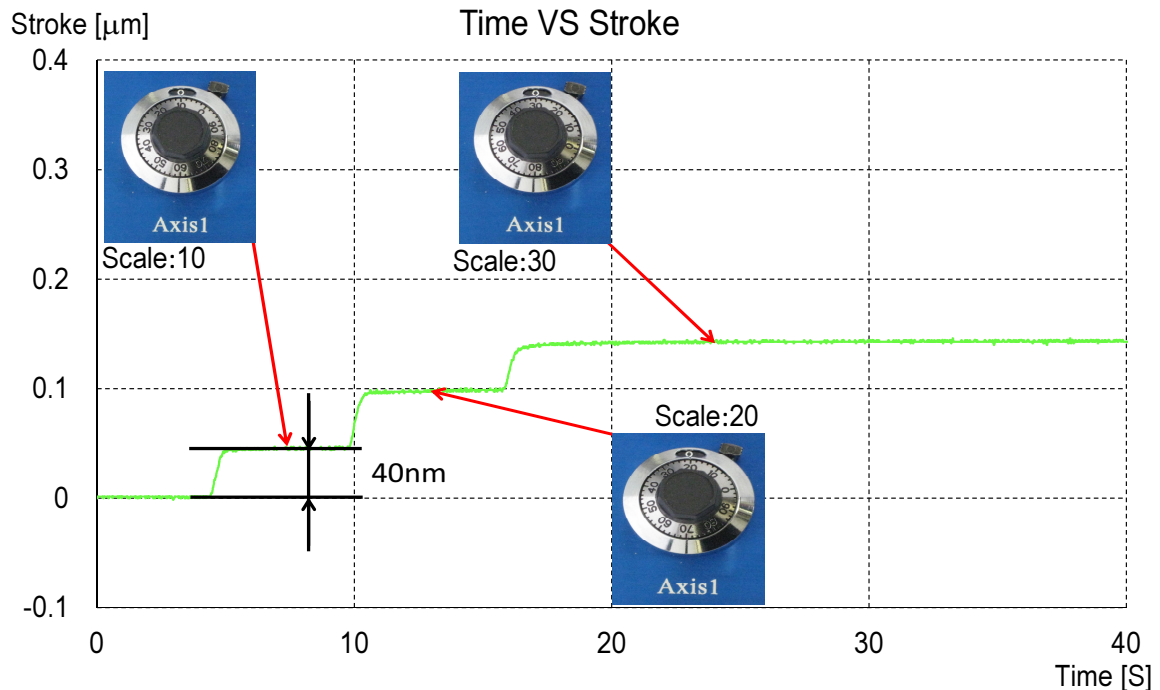


Fig2 Time Vs Scale reading of precision knob

(This experiment was conducted on shock absorbing desk)

Data

<Resolution>

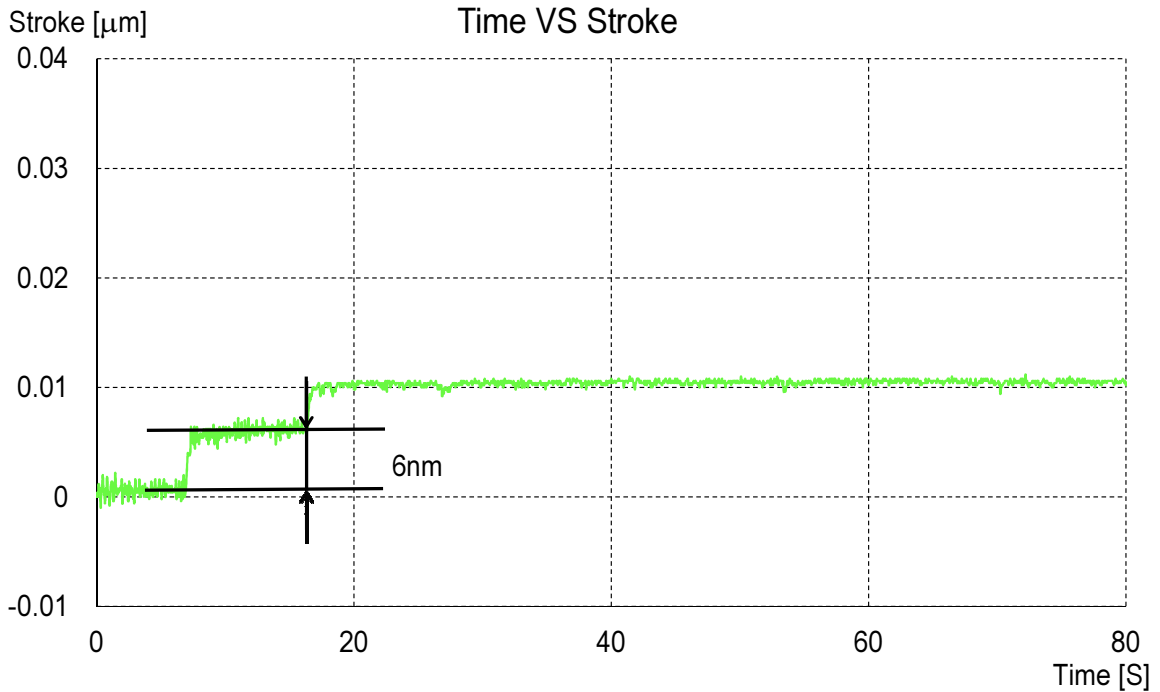


Fig3 Time Vs Scale (Reference data)

(This experiment was conducted on shock absorbing desk)

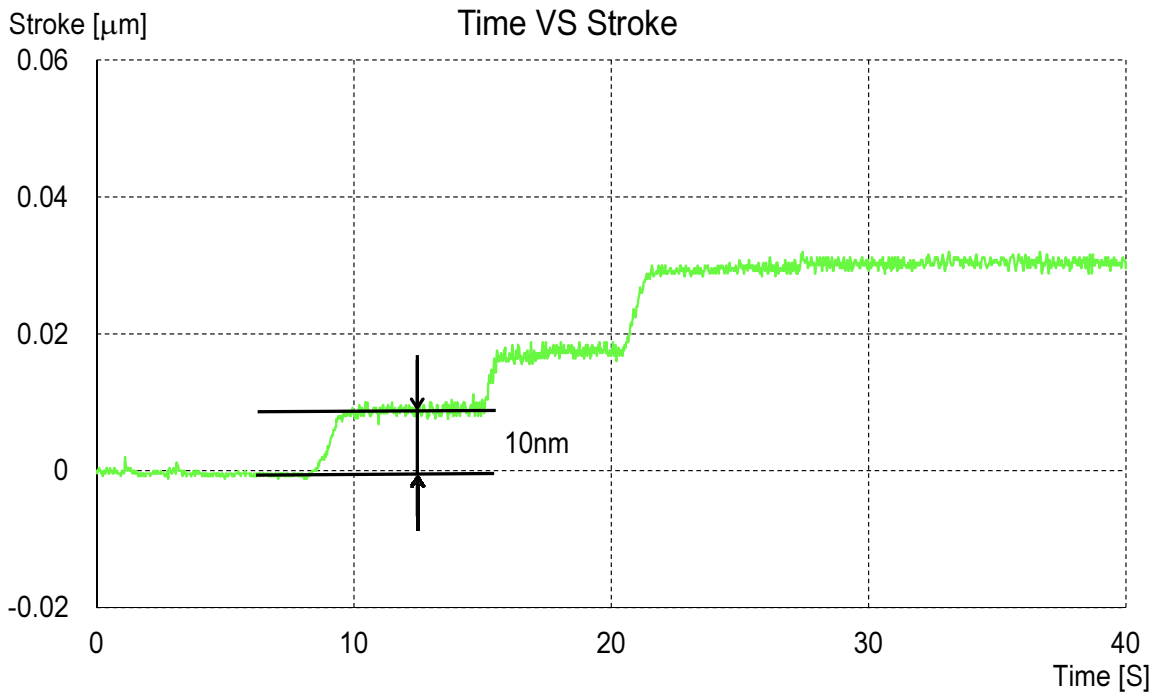


Fig4 Time Vs Scale (Reference data)

(This experiment was conducted on shock absorbing desk)

Custom made for your stage

We have more than ten years experience in designing the amplified/ magnified mechanical structure for piezoelectric actuator and applying the piezoelectric actuator in industrial applications. We can tailor the Piezo Assist such as modified the travel length, the sizes, the mechanical interface and etc, based on your requirements. We can also tailor the Piezo Assist to suit other applications.

Safety

1. The device produces hazardous potentials and should be used by suitably qualified personnel.
2. Do not disassemble the Piezo Assist MTAP1000 and the MTSD1000.
3. Do not apply external force to the Piezo Assist MTAP1000 and the MTSD1000.