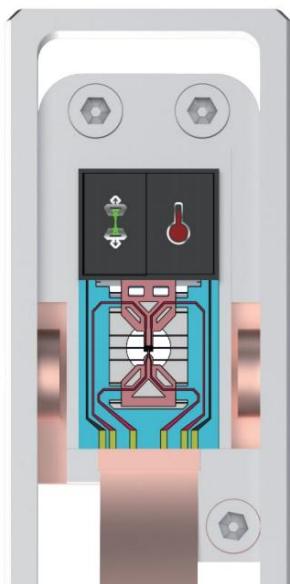


In-situ Atomic-scale Straining-Heating (800°C) Coupling System



INSTEMS - MT 800

Straining & Heating

COMPONENTS

① Double-tilt holder

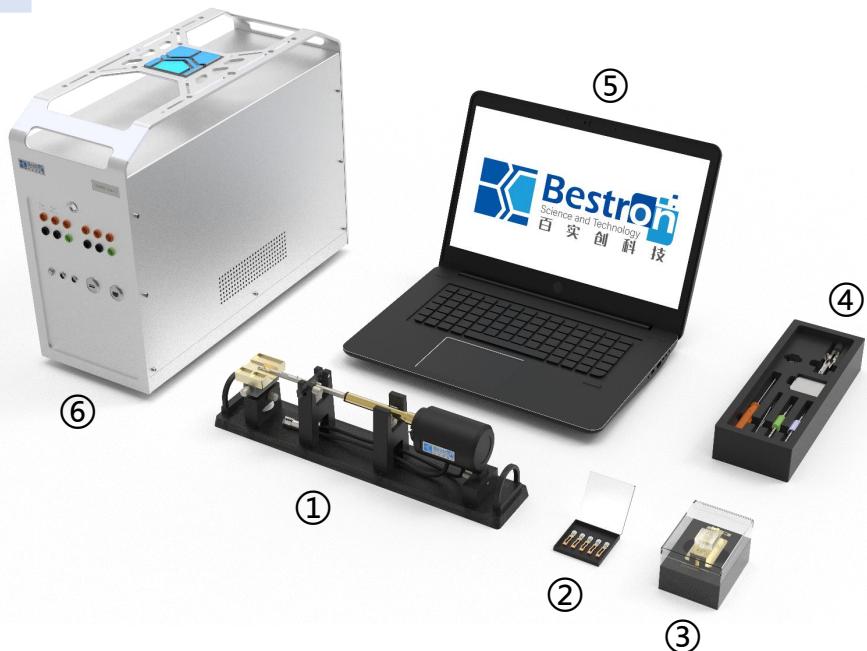
② Mini Labs

③ Mini Lab Transfer box

④ Tool kit

⑤ PC, Software

⑥ Control Unit



Double-tilt

- α tilting up to $\pm 20^\circ$ *
- β tilting up to $\pm 10^\circ$ *

Stable atomic-scale imaging

- Ultimate sample drift < 50 pm/s
- Spatial resolution ≤ 0.1 nm*

Multiple mechanical loading conditions

- Tension/Compression, etc.
- Auto, manual, cyclic loading
- pm-level driving control

Unprecedented heating ability during straining

- Ultra wide temperature range (RT - 800°C)
- Ultra high heating precision ($\pm 0.1^\circ\text{C}$ *)
- Programmable heating
- Four-probe measurement

SPECIFICATIONS

Heating	Temperature range	RT - 800°C
	Heating precision	± 0.1°C*
	Temperature measurement	Four-electrode method
	EDS	√
Straining	Actuation accuracy	< 500 pm
	Max force	> 2 mN
	Max displacement	2 μm
Double-tilt	Alpha (α) tilt	± 20° *
	Beta (β) tilt	± 10° *
	Accuracy	< 0.1°
Imaging	Spatial resolution	≤ 0.1 nm *

ABOUT US

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