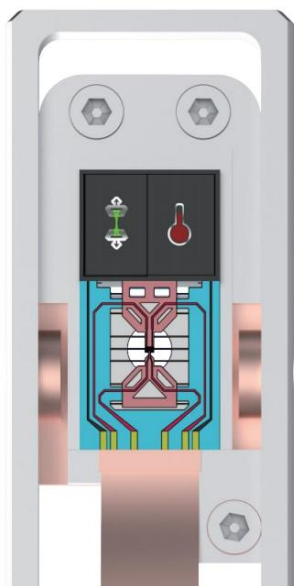




## In-situ Atomic-scale Straining-Heating (800°C) Coupling System



### Double-tilt

- $\alpha$  tilting up to  $\pm 20^\circ$  \*
- $\beta$  tilting up to  $\pm 10^\circ$  \*

### Stable atomic-scale imaging

- Ultimate sample drift < 50 pm/s
- Spatial resolution  $\leq 0.1$  nm\*

### Multiple mechanical loading conditions

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

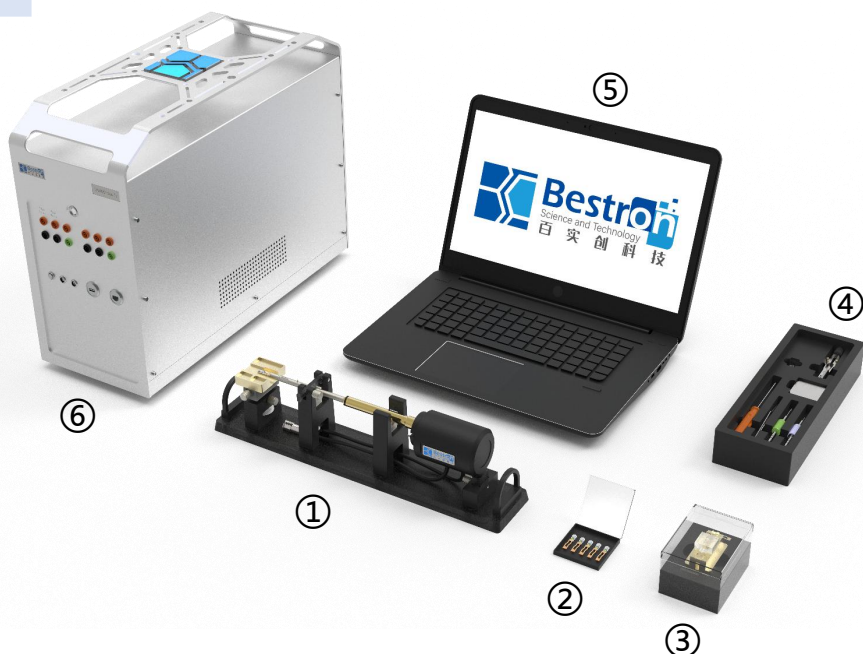
### Unprecedented heating ability during straining

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

## 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



Note: The specifications listed in \* depend on the TEM and the type of Mini lab.



## 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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