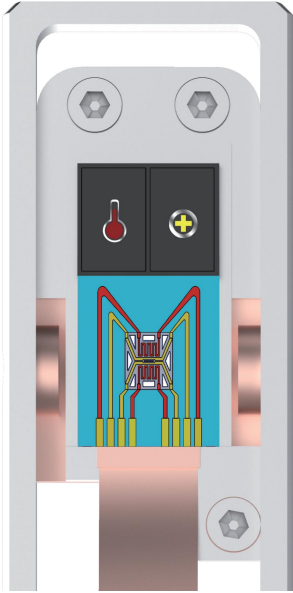




## In-situ Atomic-scale Heating-Biasing Coupling System



### INSTEMS – TE pro Heating & Biasing

#### Double-tilt

- $\alpha$  tilting up to  $\pm 25^\circ$  \*
- $\beta$  tilting up to  $\pm 20^\circ$  \*

#### Multiple external field conditions

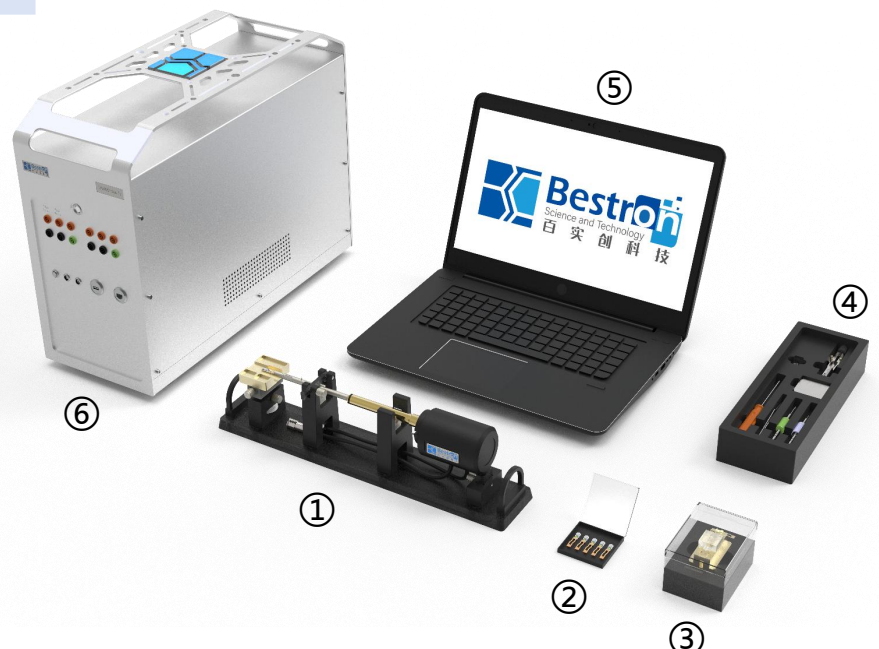
- Heating field
- Biasing field
- Coupled field of heating and biasing

#### Outstanding thermal and electrical application and measurement

- Wide temperature range ( RT - 800°C)
- Ultra high heating precision (  $\pm 0.1^\circ\text{C}$ \*)
- Programmable heating
- Versatile biasing procedures
- pA-level measurement

## COMPONENTS

- ① Double-tilt holder
- ② Mini Labs
- ③ Mini Lab Transfer box
- ④ Tool kit
- ⑤ PC, Software
- ⑥ Control Unit





## SPECIFICATIONS

Heating	Temperature range	RT - 800°C
	Heating precision	± 0.1°C*
	Temperature measurement	Four-electrode method
	EDS	√
Biasing	Max output voltage	± 50 V *
	Current range	0 – 60 mA*
Double-tilt	Alpha (α) tilt	± 25° *
	Beta (β) tilt	± 20° *
	Accuracy	< 0.1°
Imaging	Spatial resolution	≤ 0.1 nm *
External field	Heating, Biasing, Coupled heating & biasing	

## ABOUT US

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