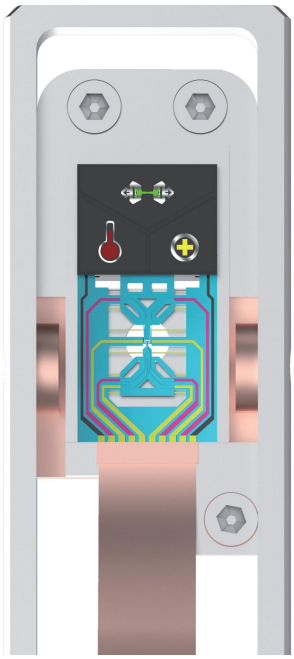
Straining & Heating & Biasing

Bestron Science & Technology 百实创科技

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



Double-tilt

- α tilting up to ±25° *
- β tilting up to ±20° *

Stable atomic-scale imaging

- Spatial resolution ≤ 0.1 nm*

Flexible coupling of thermal/ mechanical/electrical fields

- Wide temperature range (RT-1200°C*)
- pm-level driving control
- Multiple load conditions
- Versatile biasing procedures
- pA-level measurement

INSTEMS - MET

Straining & Heating & Biasing

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 - 1200 °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
Biasing	Max output voltage	± 50 V*
	Current range	0 - 60mA*
Double-tilt	Alpha (α) tilt	± 25° *
	Beta (β) tilt	± 20° *
	Accuracy	< 0.1°
Imaging	Spatial resolution	≤ 0.1 nm *

ABOUT US

百实创 (北京)科技有限公司
Bestron (Beijing) Science and Technology Co., LTD.
Address: Beijing University of Technology Science park, Building 29, Yard 1, Jinghai Fifth Road, Tongzhou District, Beijing, China
Tel:00-86-010-67866979
E-mail: info@bestronst.com
http://www.bestronst.com

Wechat Bestron St Bestron St

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