

Tescan Rocking Stage

Comfort

Tescan Rocking Stage control is implemented into G4 UI directly into Stage Control module.

Simplification

Based on our experience and application feedback from the field just **Tilt Y'** parameter with a range of $\pm 15^\circ$ was implemented while keeping its main application purpose, see Fig. 1. For taper angle correction **Tilt X** of standard stage can be used.

User-friendliness

With regards to users at all skill levels we have introduced also **Rocking wizard** which helps with position setting for smooth polishing results. This a few step guided wizard significantly speeds up the set-up process even for the novice users.

Load lock compatibility

Tescan Rocking Stage is fully compatible with automated and manual Load Lock, therefore unlimited number of samples can be processed within one vacuum cycle.

TESCAN Rocking stage is a replacement of rotation module of standard stage.

Technical specifications

X & Y axis travel range: 130 mm

Z axis travel range: 90 mm

Tilt range X: compucentric, -60° to $+90^\circ$

Tilt range Y': compucentric $\pm 15^\circ$, non-compucentric $\pm 20^\circ$

Tilt Y' repeatability: 0.5 μm

Keep view field accuracy for Tilt Y': 5 μm

Rotation: Closed loop (resolution 15 μrad) piezo rotation stage

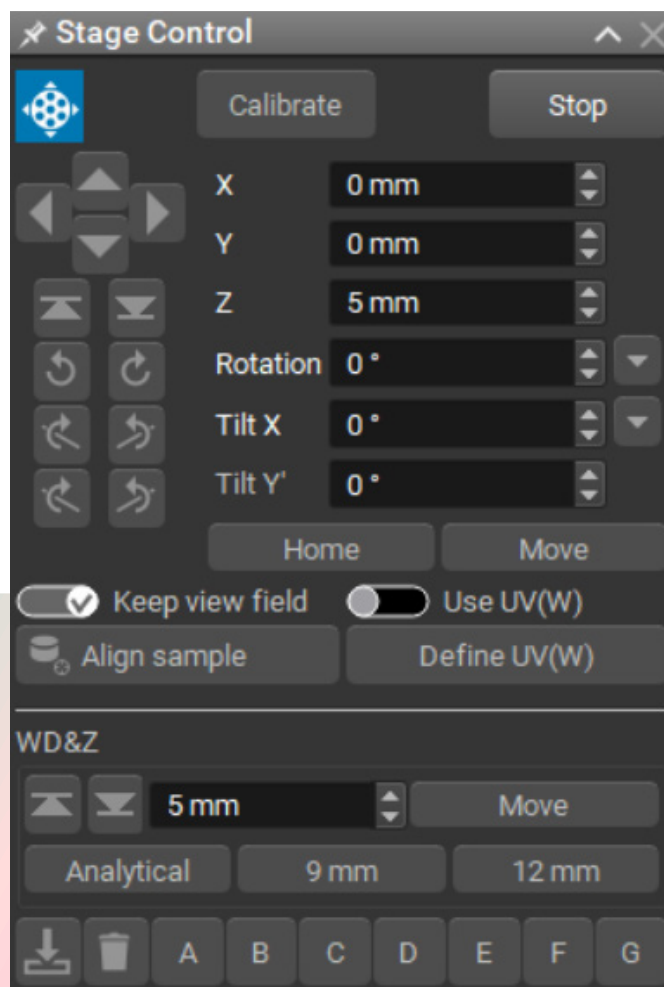
Max. specimen height: 90 mm (132 mm without stage rotation)

Max. normal load 1 kg (non-magnetic), 500 g (magnetic)

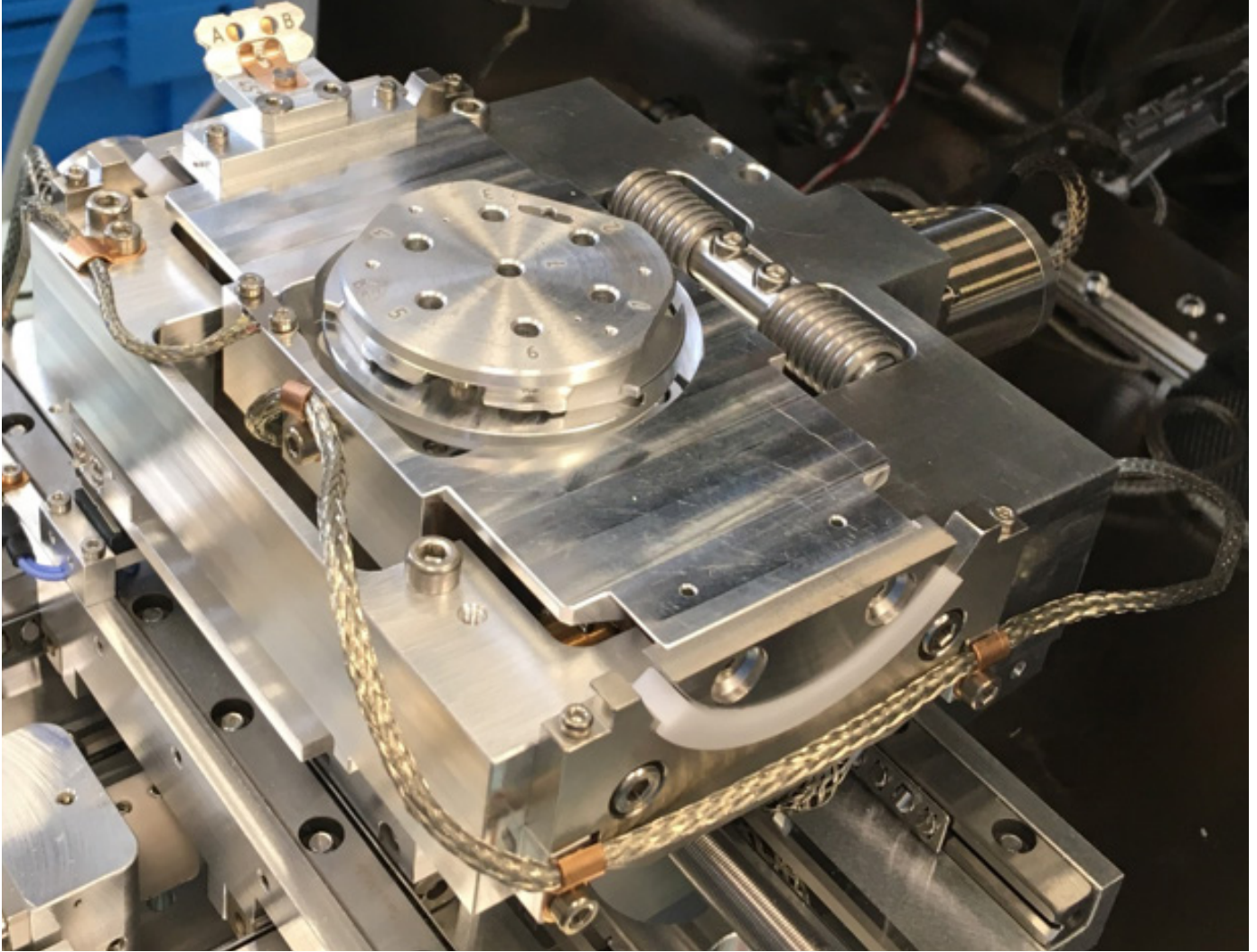
7 sample positions


Automated and manual LL compatible (max. sample height including stub: 50 mm – only for center position)

RSTEM compatible (25° pretilted holder)



 **Figure 1:** Stage Control panel including Tilt Y'.



 **Figure 2:** TESCAN Rocking stage mounted inside FIB-SEM chamber.

Tescan

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