

SAPHIR X-CHANGE

- ▶ Intuitive operation with touch function
- ▶ Programming and call-up with visualized modularity
- ▶ Easy manual loosening and tightening of sample holder

NEW



SAPHIR X-CHANGE

www.atm-m.com/saphirxchange

Saphir X-Change

Grinding and polishing robot

Fully integrated into the System Lab 2.0, it binds together several metres of standard equipment for grinding and polishing in one unit.

COMPACT AND EFFICIENT

Saphir X-Change binds together a length of several metres of standard equipment for grinding and polishing in one unit. A **grinding and polishing station with integrated settling tank** as well as an **ultrasonic & cleaning station** reduce preparation time and provide an efficient work process with reproducible results. The process is automated by intuitive touchscreen-controls. During the cleaning cycle the media changer automatically chooses and changes between up to 16 different grinding & polishing medias.

Thanks to **material removal measurement** the removal height can be set within 0.1 mm accuracy. All parameters can be adjusted directly during the process.

THE SAPHIR X-CHANGE CONSISTS OF FOLLOWING STATIONS:

- Grinding & polishing station with Vacu-Jet-System, working wheel cooling/basin rinsing
- Integrated 6x-dosing unit for different suspensions and lubricants
- Grinding and polishing head with central pressure
- Changer with stack for 16 grinding and polishing medias
- Cleaning station with water, air and ethanol
- Ultrasonic cleaning station
- Integrated settling tank
- Safety concept: Semi-covered working space with large front panel and extraction ventilation (preparation), operation zone protected by light-barrier



Magazine for grinding suspensions and media



Settling tank



Media changer and grinding station

POLISHING CLOTH BETA

The polishing cloth BETA is updated by a powerful, flexible cloth of the same name. The hard synthetic cloth is characterized by a high removal rate and high edge definition, which is advantageous for material with high surface hardness or coated samples.

- Hard synthetic pad made from tightly woven polyester fibres
- Suitable for diamond suspensions 15 µm, 9 µm and possibly 6 µm (depending on material)
- High removal rate
- High edge definition
- For material of high hardness, steel, cast iron, hard metal, ceramics
- Can even be used for purity determination preparation

