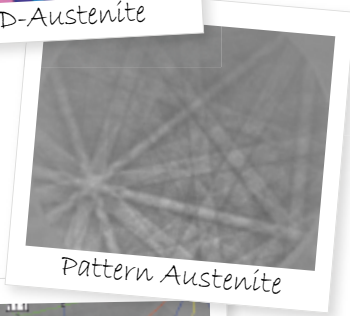
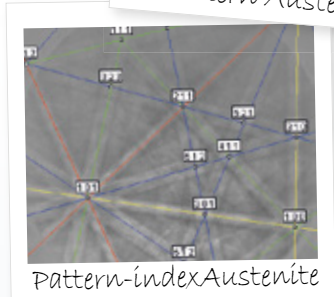




EBSD-Austenite



Pattern Austenite



Pattern-index Austenite



Saphir Vibro

Vibratory polishing device

The vibratory polishing device Saphir Vibro is designed for final vibrational polishing for the preparation of specimen surfaces practically without deformation. This preparation method is especially suited for further characterizations like EBSD (electron back scattered electron analysis), PFM (piezo force microscopy) or micro hardness testing.

TRADITION WITH A NEW APPROACH

Through the very **soft removal** of material it is applicable especially for **soft and ductile materials**, like titanium-aluminium, pure copper and copper alloys, aluminum alloys, steel and nickel-based materials.

Having a diameter of $\varnothing=308$ mm, the large bowl provides sufficient space for polishing of a complete sample holder and large specimens. In addition, the bowl is provided with a double magnetic system. It allows you to fix, remove and clean the bowl or polishing cloth very quickly, without any tools or other fixings. Furthermore, the software supports

the operator with a series of useful features which are dependent on the weight and number of samples. The Saphir Vibro regulates the **optimum frequency for polishing** fully automatically. This makes time-consuming adjustments by the operator obsolete. Usually, vibratory polishing can be a very long process. Therefore ATM invented the **Surface-Guard** that prevents the samples from surface drying or corrosion at the end of the preparation process.

SAPHIR VIBRO
Orderable in April 2017

NEW

SAPHIR VIBRO

- ▶ rapid changeable polishing bowl with magnetic system
- ▶ automatic frequency control from 60-120 Hz
- ▶ Surface-Guard prevents drying and surface corrosion
- ▶ pre-installed preparation methods and consumable list
- ▶ low-noise operation and vibration adsorbing construction
- ▶ soft closing hood and exhaust air connection
- ▶ preparation methods can be stored



Quelle Gefügeaufnahmen: MPA Stuttgart

Saphir Vibro (basic module)

Item No.: M5651000

- » vibratory polishing device including polishing bowl
- » applicable for soft and ductile materials, like titanium-aluminum, pure copper and copper alloys, aluminum alloys, steel and nickel based alloys
- » frequency automatic for automated controlled vibrational frequency (60-120 Hz), e.g. for mass variation
- » clearly ATM-user interface and touch screen
- » pre-installed preparation programs and consumables for various materials
- » programmable and storable polishing recipes on the device
- » export of recipes using USB
- » manual and automatic operation modus
- » Aalert function (timer) indicating the finish of a program
- » silence operation, indefinite polishing/operating time without supervision
- » vibrational motor with oscillation compensation
- » exhaust connection plug (exhaust connection for enhanced user-friendliness and safety)
- » soft closing clear-sighted hood protecting polishing cloth and specimens for contamination
- » weight of 45 kg suitable as benchtop device

TECHNICAL DATA

- » bowl inner diameter 308 mm
- » polishing cloth diameter 300 mm / 305 mm (12")
- » plugs
 - socket (depending on the configuration)
 - USB
 - Ethernet
- » exhaust connection plug Ø 40 mm
- » ambient temperature 10 - 40 °C
- » IP Code IP 22
- » connected load 0.2 kVA
- » drive power 135 VA
- » power supply 220-240 V 50/60 Hz (1Ph/N/PE)
110-120 V 50/60 Hz (1Ph/N/PE)
- » dimensions approx. W x H x D 510 x 300 x 590 mm
- » weight (depending on equipment) approx. 45 kg

Polishing bowl

Item No.: Z5651000

- » large bowl with Ø=308mm (inner diameter) for polishing non-mounted specimens, filled sample holders, and for simultaneous polishing of 21 specimens
- » ergonomic carrying handle for easy handling
- » fast and easy change of the bowl due to release button and magnetic system
- » strong hold of bowl by magnetic forces
- » especially designed for all polishing cloths with magnetic system
- » easy cleaning of bowl
- » lid protects polishing cloth from contamination

Sample holder

- » set consists of 1 sample holder and 3 additional weights
- » specimen height max. 30 mm
- » slip ring of sample holder suppresses interactions with other sample holders in bowl
- » clamping pin M6
- » adding of additional weights possible to increase surface pressure

Item No.	Sample diameter	Weight
Z5651008	25-25,4 mm (1")	sample holder: 300 g, additional weight: 90 g
Z5651009	30-32 mm (1 1/4")	sample holder: 220 g, additional weight: 90 g
Z5651011	38-40 mm (1 1/2")	sample holder: 550 g, additional weight: 190 g
Z5651012	50 mm (2")	sample holder: 360 g, additional weight: 190 g