TSI System
Mariánské náměstí 1 617 00 Brno Česko
+420 545 129 462 info@tsisystem.cz
www.tsisystem.cz

PREPOLISHING & POLISHING

PREPOLISHING MACHINE

RECTILAM®2.0

MADE IN FRANCE

When the prepolishing phase demands a high level of effectiveness and precision the RECTILAM®2.0 is the answer. This machine is particularly productive in the preparation of coated or raw samples by high speed prepolishing. Several parts can be installed on the central pressure sample holder. Large parts can also be treated individually.

The principle of high speed prepolishing on stone enables significant material removal and unrivalled flatness without rounding the edges.

The single block design and rigidity of the RECTILAM®2.0 avoids vibration which is detrimental to the surface condition. In order to ensure significant and even removal of material, a reconditioning system automatically follows each stage of polishing.

The prepolishing system and the sample holder are connected to the same mechanical arm which guarantees precision.

The RECTILAM®2.0 is supplied with an integral security hood. The assembly includes a closed-circuit lubricating filtration system integrated into the machine as well as a spray-tap for cleaning.

RECTILAM®2.0
Automatic flat prepolishing machine

Prepolishing of large raw samples.

Prepolishing of coated samples, mounted on a central pressure sample holder.

Grinding and prepolishing are crucial steps in the preparation of a metallographic sample.
It is the quality of these steps which will condition and optimise the rest of the process.

At the end of the prepolishing step, the sample's aspect must be uniform and regular without any alteration of the inherent flatness or the material.

PREPOLISHING MACHINE

The RECTILAM®2.0's unique feature is its 2 axis principle.

The Z axis deals with the motorised rise and fall of the reconditioning tool and the pressurisation of the sample carrier.

The R axis enables precise positioning of the sample holder in relation to the grinding wheel in order to make to most of the available abrasion surface.

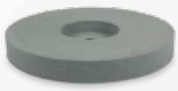
During the start cycle the starting point of the sample/grinding wheel is automatic. The stock removal is continuously managed. The real-time display shows the operator if the rectification settings entered are appropriate.

All parameters are managed and clearly shown on the 5.7'' touchscreen with graphic display.

Technical data	RECTILAM®2.0
Grinding wheel diameter	Ø 356 mm
Control	By 5.7 inch touchscreen and joystick
Grinding wheel speed	1000 to 3000 tr/min.
Sample holder speed	20 to 150 tr/min.
Applied force	10 to 550 N
Sample holder size	Ø 210 mm max
Conditioning wheel specifications	Configurable pass depth and diamond feed rate
In cycle reconditioning mode	Automatic - customisable frequencies
Stock removal range	0,1 mm to 1 mm
Measurement precision	0,02 mm
Work zone lighting	Enclosed LED
Body	Powder-coated steel
Grinding wheel motor power	3,8 kW
Sample holder motor power	0,25 kW
Noise level	70 dB
Tension	400 V-50 Hz three-phase + neutral
Dimensions W x H x D	900 x 1620 x 1000 mm (H. cover open : 1850 mm
Weight	450 kg
Reference	60 RL200 00

Accessories

Grinding wheel AL_2O_3 - GRAIN 60 - Ø 355 mm	05 M0060 80
Grinding wheel SiC - GRAIN 150 - Ø 355 mm	05 M0150 80



05 M0060 80

05 M0150 80

The 5.7 inch touch screen