



**DOUBLE SIDE MACHINES**

Fine grinding, Lapping, Polishing or CMP

# TPM 630 A

## DOUBLE SIDE LAPPING / POLISHING MACHINE

**BREAKTHROUGH TECHNOLOGY**

**INTERNALLY-COOLED**

**TEMP-CONTROLLED PLATES**

**HIGH THROUGHPUT PRECISION**



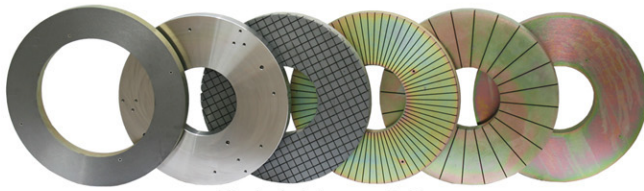
Other machines in this range up to 2500mm

## HIGH THROUGHPUT PRECISION

The SOMOS TPM Series is the latest generation of double-sided, polishing & lapping machines to address the challenges of modern-day engineering.

### ADVANCED PROCESSING SOLUTIONS FOR....

- Processing hard exotics like Sapphire, Spinel, & Alon
- High-throughput polishing for optical glass, fused silica, etc.
- Processing delicate or fragile parts
- High volume / high precision applications
- Advanced R&D



Kind of plates available

## BREAKTHROUGH TECHNOLOGY

The high-powered TPM630A machine deliver advanced processing solutions with an entirely new range of capabilities. including...

### INTERNALLY-COOLED, TEMPERATURE-CONTROLLED PLATES

The internally-cooled top and bottom plates are thermostatically-controlled, allowing continuous runs at high speed and pressure 24 hours a day, 7 days a week.

### PRECISE, DYNAMIC LOAD CONTROL

Precise load is set digitally, and as machine runs, is continuously measured and adjusted.

### HIGH-POWER DRIVE MOTORS

A range of motors for plates and gears is available to suit application requirements.

### KEYENCE NON-CONTACT SYSTEM

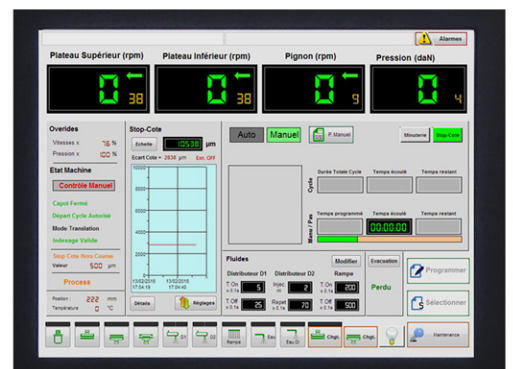
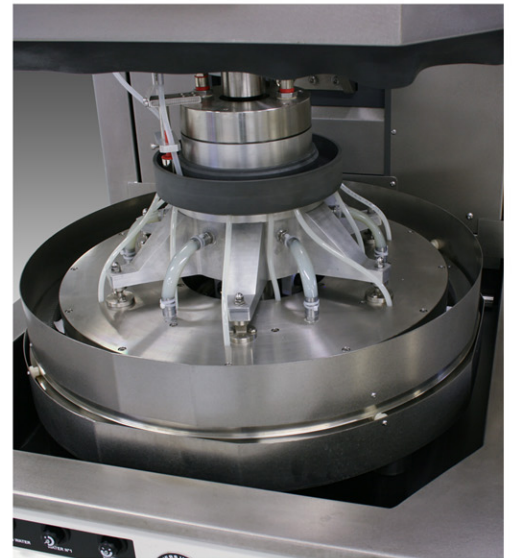
A non-contact system, the TPM's Keyence design is unaffected by work zone slurry. Provides real-time, digital stock removal readout with one micron resolution.

### BUILT-IN SLURRY TANK

A 2.5 gallon slurry tank housed inside the TPM.

### TOUCH-SCREEN PC CONTROL PANEL

Depending on the application and machine specifications, control panel may be analog or PC-driven touch-screen.

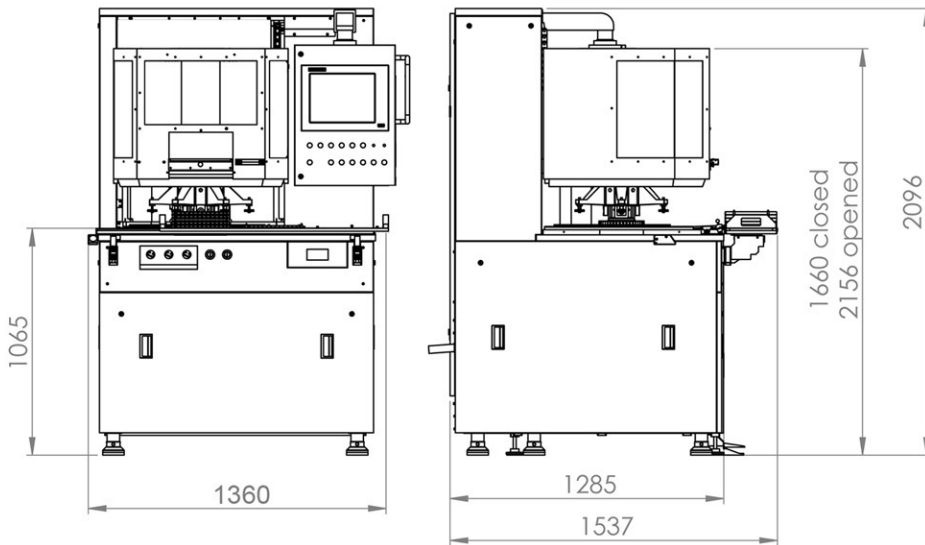


## CUSTOMIZED TO YOUR APPLICATION

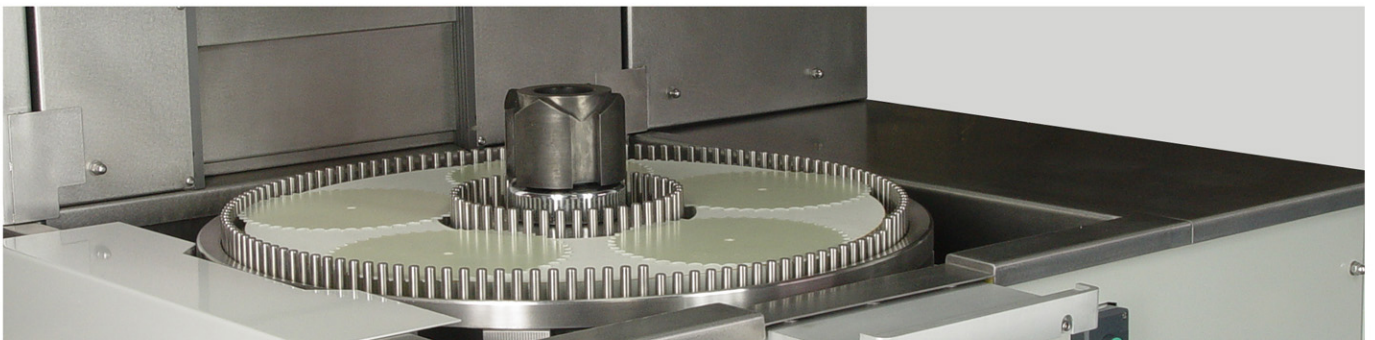
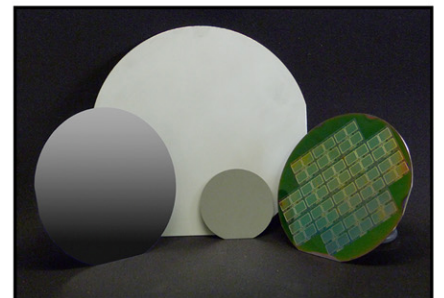
While there are many advantages to the TPM Series, one of its extraordinary features is the ability to offer custom solutions for specific application requirements. Choosing the features best suited to your unique application assures efficient, flawless processing.

For example, your lapping application may not require the precision and continuous monitoring afforded with Servo Ball-Screw, Dynamic Load Control. In this case, a pneumatically controlled load may be preferred and is available to you.

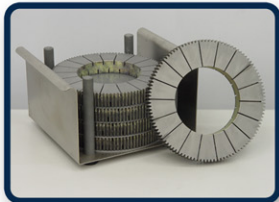
High-speed, full-pressure polishing applications find great advantage with TPM's temperature-controlled plates. Internally-cooled and thermostatically-controlled top and bottom plates facilitate continuous runs 24 hours a day, 7 days a week. It's a feature that has processing benefits across nearly all polishing applications.



The SOMOS TPM Series is also available in a variety of sizes, with machines currently large enough to accommodate plates up to 800mm. Machines from the TPM Series may be paired with other SOMOS polishing and /or lapping machines seamlessly, for ultimate surfacing efficiency and results.



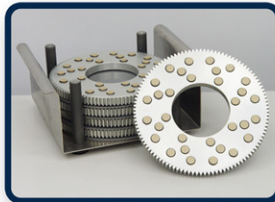
## TOOLS and ACCESSORIES for TPM 630



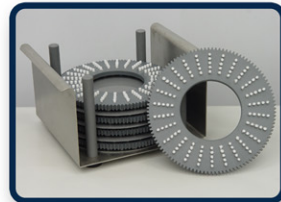
Cast iron truing gears



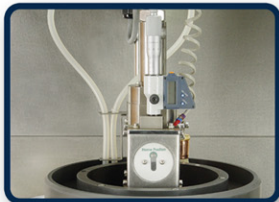
Diamond pellets & ceramics gears



Diamond pellets gears



Brushing carriers



Automatic stop-on-size control system with contact

OR



Automatic stop-on-size control system, measurement contactlessly and without wear



Peristaltic pump slurry feed Digital control

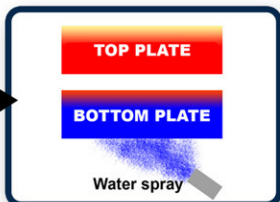
OR



Pneumatic valve slurry feed Analogic control

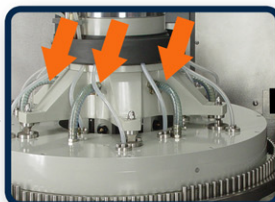


Externally-Cooled plates from the bottom

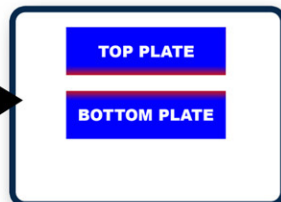


give asymmetric temperature

OR



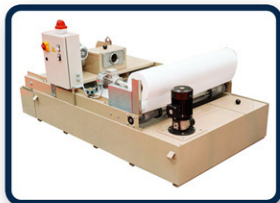
Internally-Cooled plates



Temperature perfectly controlled



Chillers



Gravity bed filters



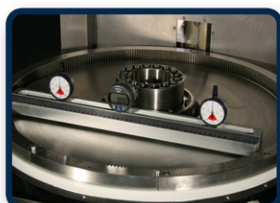
Magnetic stirrer



Pump



Gpressure  
300



GF lat Plate flatness

For further information and detailed specifications on the TPM Series, or any of SOMOS polishing & lapping machines, please contact your regional sales representative, or email us at [commercial@somos-nanotec.com](mailto:commercial@somos-nanotec.com).

Authorized Distributor



**SOMOS**  
20 Av des Temps Modernes  
86360 Chasseneuil du Poitou  
FRANCE

Tel: +33 (0)9 72 34 85 41  
Fax: +33 (0)9 72 34 90 56  
Site: [www.somos-group.com](http://www.somos-group.com)  
[commercial@somos-nanotec.com](mailto:commercial@somos-nanotec.com)

The information provided on this document is provided for information only, it is non-contractual and does not engage the responsibility of Somos. At any time and without notice, Somos also reserves the right to make improvements and / or modifications to the product concerned by this document.