



DOUBLE SIDE MACHINES

Fine grinding, Lapping, Polishing or CMP

TPM 800 A

TPM 1000 A

DOUBLE SIDE LAPPING / POLISHING MACHINE

BREAKTHROUGH TECHNOLOGY

INTERNALLY-COOLED

TEMP-CONTROLLED PLATES

HIGH THROUGHPUT PRECISION



Other machines in this range up to 2500mm

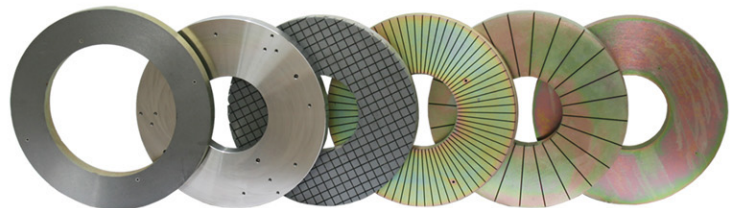


HIGH THROUGHPUT PRECISION

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
- Processing delicate or fragile parts
- High volume / high precision applications
- Advanced R&D



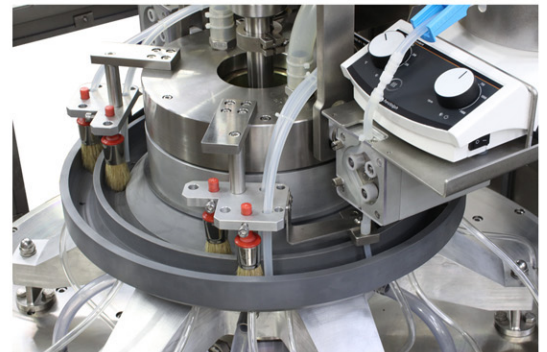
Kind of plates available

BREAKTHROUGH TECHNOLOGY

The high-powered TPM800A & TPM1000A machines 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

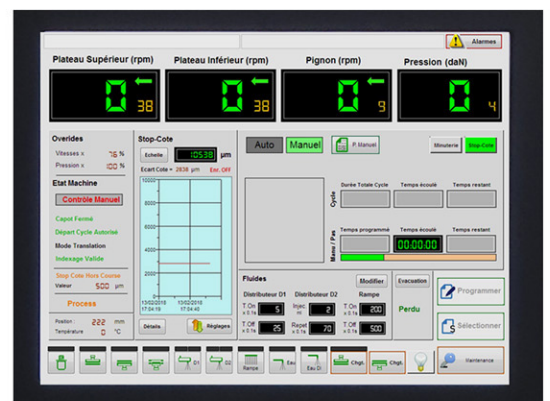
A range of motors for plates and gears is available to suit application requirements.

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.

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.

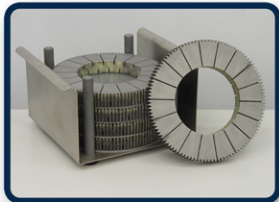
TPM 800 A TPM 1000 A

Plates external diameter	810	mm	1010	mm
Plates internal diameter	200	mm	328	mm
Crown diameter	857	mm	1050	mm
Sun gear diameter	254	mm	288	mm
Carrier outside diameter	296	mm	361	mm
Load control	10 - 450	daN	10 - 700	daN
Plates rotation	0 - 80	rpm	0 - 50	rpm
Sun gear rotation	0 - 22	rpm	0 - 15	rpm
Plates power	2 x 5.5	kW	2 x 8	kW
Sun gear power	1.8	kW	2.5	kW
Dimensions:				
Width	1564	mm	1856	mm
Depth	1759	mm	2265	mm
Height	2096	mm	2254	mm
Weight	3.1	tonne	4.4	tonne

The SOMOS TPM Series is also available in a variety of sizes. Machines from the TPM Series may be paired with other SOMOS polishing and /or lapping machines seamlessly, for ultimate surfacing efficiency and results.



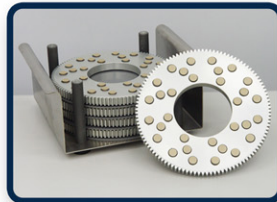
TOOLS and ACCESSORIES AVAILABLES



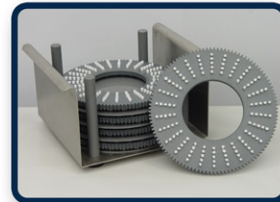
Cast iron truing gears



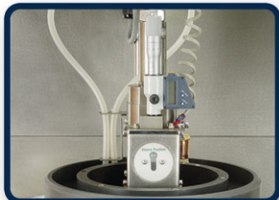
Diamond pellets & ceramics gears



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

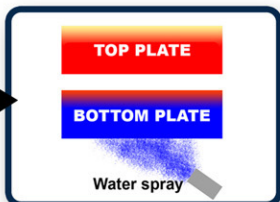
OR



Pneumatic valve slurry feed Analogic control

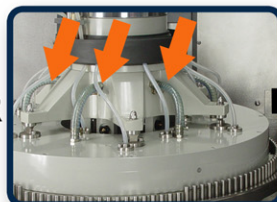


Externally-Cooled plates from the bottom

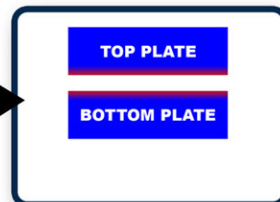


give asymmetric temperature

OR



Internally-Cooled plates



Temperature perfectly controlled



Chillers



Gravity bed filters



Magnetic stirrer



Pump



Gp pressure



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.



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