

PM & LP Series

Precision Lapping & Polishing Machines with optional Automatic Plate Flatness.

The Logitech PM and LP machines offer benchtop, R&D level lapping and polishing solutions for low to mid volume sample throughputs.

These multi-disciplined systems are designed for precision and efficiency, providing easy change over between materials, processes and applications.

The precise plate setup and automatic flatness options combined with an intuitive control system provides effortless precision and consistency of results, making these systems ideal for research orientated laboratories.

The PM and LP machines are key Logitech products offering consistently high quality surface finish to the semiconductor, electro-optical, optical and geological sectors. The LP systems are aimed at higher volume production via three user workstations.

Typical applications include:

- III-V & II-VI thinning and polishing,
- SiC, GaN and Similar hard material processing
- Optical polishing i.e. infra red, fibre optic, laser rods, micro lenses
- Geological thin section preparation i.e. rock, soil, coal, concrete
- Life science sample preparation i.e. bone, teeth, otoliths

Chemically resistant versions of the PM and LP systems are available to allow polishing of materials, such as gallium arsenide using sodium hypochlorite based polishing solutions.

Effortless Operator Control

The user friendly control panel provides quick and easy access to the machine functions, such as combined lapping and polishing options and slurry monitoring. Full management of plate speed is set and controlled via this interface, enabling high levels of process control.

Fast and efficient plate interchange, specifically designed for easy removal, allow the operator to move between different lapping processes or switch to polishing processes quickly.

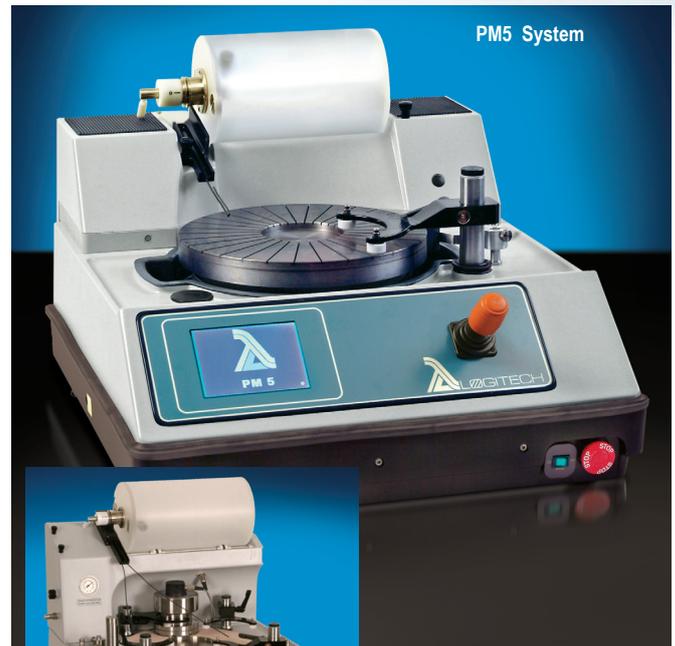
The use of a Logitech vacuum system to hold fixtures reduces process time further.

The flexibility of control make the PM and LP machines a prime choice for laboratories with limited space.

Abrasive Autofeed

An abrasive autofeed system ensures a precise, controlled flow of abrasive slurry from the cylinder to the lapping plate via an adjustable slurry chute. This is supported by a removable drip tray, minimising machine clean-up.

An optional drip detector is available which monitors the fluid flow from the abrasive cylinder, to protect samples and minimise operator supervision.



PM5 System



LP50 Auto System

- Precision benchtop solution
- Simple and flexible plate change over
- Easy processing of wafers up to 6"
- Integrated abrasive autofeed system
- Automatic plate flatness control (optional)
- User friendly display panel and operation

Automatic Plate Flatness Control

Both the LP and PM systems are available with automatic plate flatness control, to consistently monitor the plate shape and automatically correct any deviation from the specification set.

An additional benefit of this function is that it removes the need to recondition plates before processing, maintaining the shape indefinitely to within +/-1 micron. This can either be flat, concave or convex to a precise degree.

Efficient Design Features to Maximise Machine Life

The robust construction of the PM and LP machines make them eminently suitable for the most rigorous lapping and polishing environments, including chemical mechanical polishing. The rigid polyurethane casing and removable drip tray facilitate easy cleaning and maintenance.

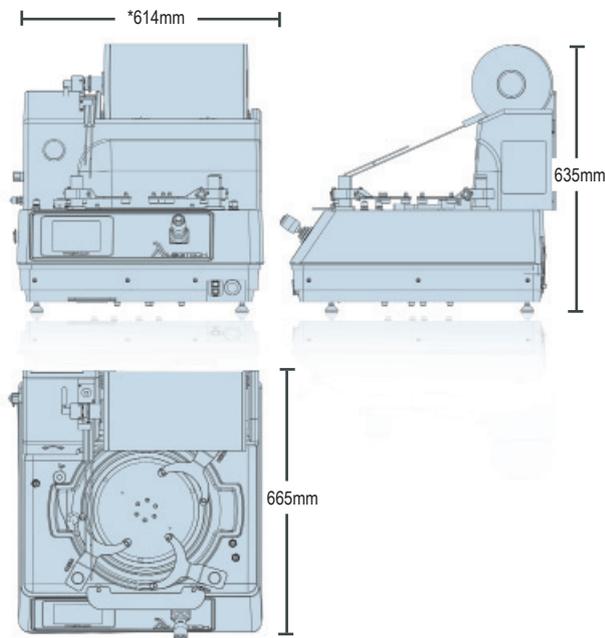
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Precision Lapping & Polishing Machines

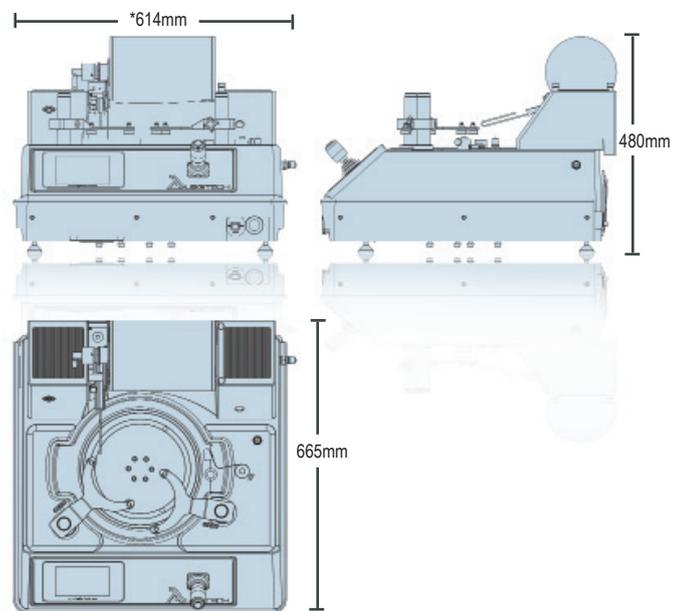
Technical Specifications:

	Jig Capacity:			Power Supply		Fuse Rating	Plate Speed	Timer	Net Weight	Gross Packed Weight
	PP5: up to 3" Sample	PP6: up to 4" sample	PP8: up to 6" sample							
PM	1	1	-	220/240V,	110V,	6.3A	0-70rpm	0-10 hrs	58Kg	93Kg
PM Auto	1	1	-	50HZ	50/60Hz					
LP	3	3	1	220/240V,	110V,	10A	0-70rpm	0-10 hrs	80Kg	117Kg
LP Auto	3	2	1	50HZ	50/60Hz					

LP50 System



PM5 System



*Dimensions do not include vacuum pump connection.

Accessories, Components & Consumables

A comprehensive range of accessories, components and consumables are available to support these systems, enabling optimum results and longevity of the machines. A selection of supporting products can be found below.

For a more comprehensive listing please go to www.logitech.uk.com

Accessories

- VS2 Vacuum System
- Spare abrasive feed cylinder
- Infra-red drip detector
- Machine dust hood
- Jigs
- Gauges

Consumables

Logitech supply a vast range of consumables for lapping and polishing purposes. These tried and tested products ensure you achieve optimum results and maximum life-span from a Logitech system.

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