

## WG2 Polishing System

The WG2 delivers excellent surface finishes with the fastest possible production rates. This highly economical system is ideal for polishing thin rock sections, metallurgical specimens, ore mounts and soils.

The Logitech WG2 polishing system, comprising of a PM5 precision polishing machine and a WG2 polishing head, is capable of producing the desired finished sample to a very high standard. This can be high reflectivity, low relief, ultra-flat surfaces or minimal edge roll-off.

### System Features

The system is highly versatile, offering a wide range of facilities including variable plate and carousel speed and rotational direction. Samples can be polished individually or in batches, using a variety of sample holders.

### PM5 (W) Precision Polishing Machine:

The Logitech PM5 lapping and polishing machine is fully compatible with the WG2 unit. This benchtop system is a key Logitech product delivering accurate plate setup, automatic flatness and an intuitive control system. The PM5 provides effortless precision and consistency of results, making these systems ideal for geological thin section preparation.

The system has been designed to enable quick and easy changing of polishing plates. The automatic abrasive feed unit automatically supplies polishing fluid to the plate, reducing operator time and product waste.

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.

### WG2 Polishing Head

The robust polishing head is manufactured using corrosion resistant materials, enabling use with more aggressive process routes. The powerful, low voltage DC motor provides sufficient torque to rotate the fully loaded carousel at a speed up to 35 rpm.

Samples are retained by six drive rods, enabling each specimen to rotate independently.

Incremental loads up to 1.35 kg may be placed on each drive rod to assist with the polishing process. A double load bar provides the facility to increase loading at three positions for large area specimens, i.e. 76 x 51mm.

### Polishing Plates

A variety of plate combinations can be used to meet your process needs. The 30cm (12") lift-off plain plate bases are ideal for use with the WG2 system, designed for quick exchange and pad durability.

Logitech offers a complete range of soft metal, cast iron and glass plates which are compatible with this system.



- *Highly versatile*
- *High quality surface finish*
- *High capacity output*
- *Low operating costs*
- *Automatic operation*

### Processing Capacity

The process time is influenced by the material type, condition of sample surface and the level of final surface finish required. Logitech routinely prepares six sample polished rock/ore thin sections from 38-40 microns with a precision machine-lapped surface, to a 30 micron thickness within 2 hours.

Specimen Height	Max Sample Dimensions
0 - 25mm	Set by the distance between the drive rods (57.53mm when all six rods are used)

WG2 system capacity
Microscope Slide Sizes
6 of 28 x 48mm
6 of 26 x 48mm
3 of 76 x 51mm
3 of 76 x 26mm

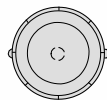
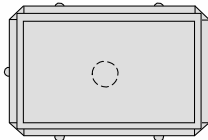
# WG2

## Polishing System

## Technical Specifications

### Sample Holders

**Standard Slides:** Slide holders are manufactured in stainless steel and aluminium. Samples are retained by a drop of polishing fluid or a thin oil against a ground surface. There is a circular hole in the back face for the drive rod.



26 x 46mm (six at one time)  
 28 x 48mm (six at one time)  
 51 x 76mm (three at one time)  
 26 x 76mm (three at one time)



or other as specified by the customer

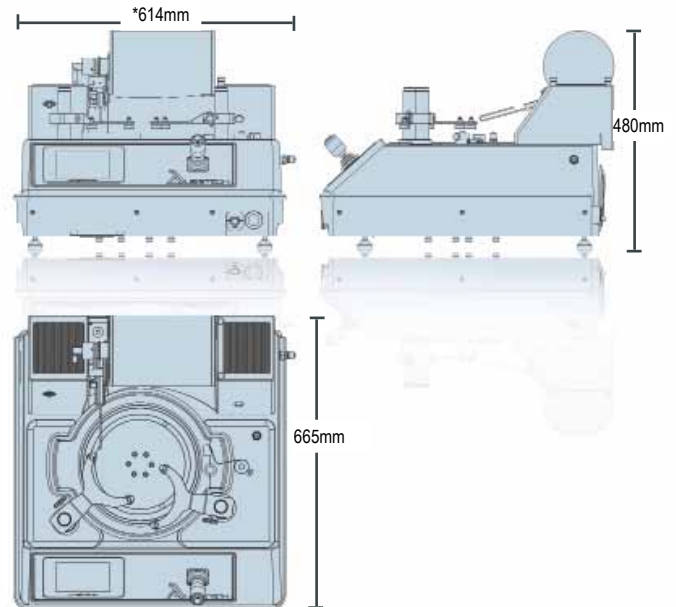
Resin block mounts are normally drilled by the customer for drive rod location. However holders for this purpose and other non-standard specimen geometries can be supplied to customer specifications.

**PLJ2 Precision Lapping Jig:** Combined with other accessories, this will expand the WG2 Polishing System to a complete lapped and polished thin rock section production system.

**PP5GT Precision Polishing Jig:** For the production of ultra-thin sections and other delicate samples requiring close parallelism control or low load. Features include variable loading and a stock removal indicator.

Other accessories for the polishing of ultra-thin/low relief sections include either a solder or brass polishing plate and the following gauging and conditioning accessories that ensure optimum plate flatness and hence optimum specimen parallelism and flatness

For further information on our range of jigs please see our website:  
[www.logitech.uk.com](http://www.logitech.uk.com)



### PM5 (W)

Power supply:	220V/50 Hz, 110/60 Hz, 110V/50 Hz
Weight:	58 kg
Main Drive Unit:	400 x 435 x 260mm (15.75 x 17.13 x 10.2")
Remote Control Unit:	500 x 245 x 195mm (19.69 x 9.65 x 7.68")
Maximum Height with Feed Unit	660mm (25.98")
Polishing Plate diameter:	300mm (12")
Plate Rotation Speed:	0-70rpm (continuously variable)

### WG2 Polishing Head:

Power Supply:	12V d.c. from the PM5 machine
Height:	270 mm
Net Weight:	21 kg
Max Sample Load:	1.35 kg
Carousel Speed:	0-35 rpm

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