

# WG6 Polishing System

The WG6 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 WG6 polishing system comprises of a PM6 Precision Lapping & Polishing System and a WG6 polishing head. This system 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.

## PM6 Precision Polishing Machine

The Logitech PM6 Precision lapping and polishing machine is fully compatible with the WG6 polishing unit. This bench top system is a key Logitech product delivering repeatable processes, automatic plate flatness control and intuitive user controls. The PM6 provides effortless precision and consistency of results with intelligent features and functionality which makes these systems ideal for geological thin section preparation.

The system has been designed to enable quick and easy changing of polishing plates. The metered abrasive feed unit automatically supplies polishing fluid to the plate, reducing operator time and product waste. Peristaltic pumps also allow for control over the amount of abrasive fed to the plate, allowing for easy process repeatability.

## WG6 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 of up to 35 rpm.



The WG6 is auto-detected by the PM6 system, allowing the user to access on-screen controls via the Graphical User Interface (GUI).

Samples are retained by six drive rods, enabling each specimen to rotate independently. Incremental loads of up to 1.4kg 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. 76x51mm)

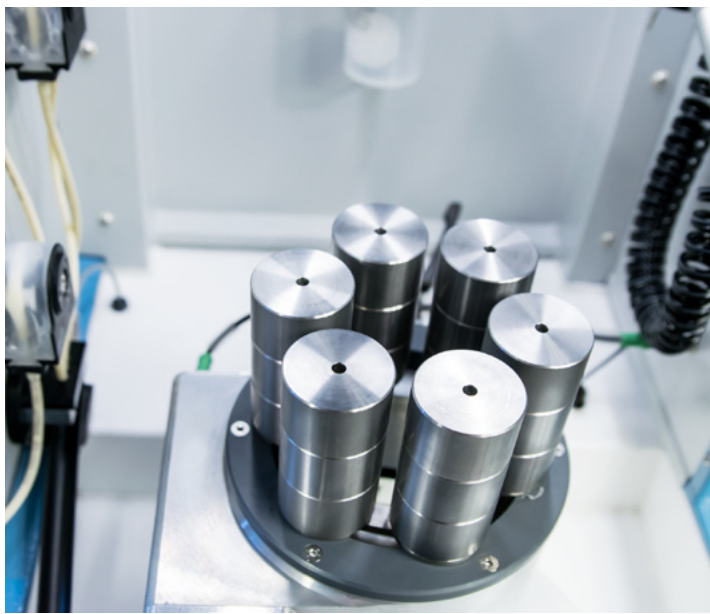
## Processing Capacity

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 samples polished rock/ore thin sections from 38-40 microns with a precision machine-lapped surface, to a 30 micron thickness within two hours.

Speeds of up to 35  
rpm

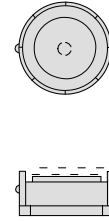
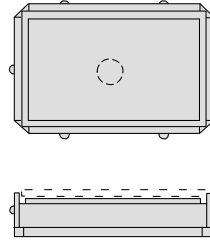
Process multiple samples  
simultaneously

Easy process repeatability



## 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)  
 28x48mm (six at one time)  
 51x76mm (three at one time)  
 26x76mm (three at one time)  
 or other specified by customer

Specimen Height	Maximum Sample Dimension
0-25mm	Set by the distance between the drive rods (57-53mm)

Resin mount blocks 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 WG6 system to a complete lapped and polished thin rock section production system.

**PP5GT:** For the production of ultra-thin section and other delicate samples requiring close parallelism control or low load. Features include variable loading and a digital gauge.

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

## Polishing Plates

A variety of polishing plate combinations can be used to meet your process needs. The 30cm (12") lift-off plain plate bases are ideal for use with the WG6 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.

## Technical Specifications

### WG6 Polishing Head

Power Supply	12V d.c. from PM6 machine
Height	270 mm
Net Weight	21 kg
Max Sample Load	1.4 kg
Carousel Speed	0-35 rpm

### PM6 Precision Lapping & Polishing System

Power Supply	220-240v 10A, 110v 10A, 50-60 Hz
Height	965 mm
Net Weight	127 kg
Polishing Plate Diameter	300mm (12")
Plate Speed	0-100 rpm

For more information on our range of precision systems visit:

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