



APPLICATION

The multiplate grinder with diamond grinding wheel 1 03 12 G permit automatic thinning to a determined thickness of rock bonded on glass-slides.

It is automatic, fast and accurate. It can grind simultaneously up to 20 thin sections 30x45 in a few minutes.

This machine replace the traditional manual techniques. It solves simply, automatically and efficiently the problems of manual sample preparation so familiar to many laboratories.

DESCRIPTION

Samples are stuck onto glass slides and are set on a circular plate which is slightly inclined. They remain in place simply by adhering to the glazed surface of the plate. They are prevented from moving sideways by a metal frame slightly thinner than the glass-slides.

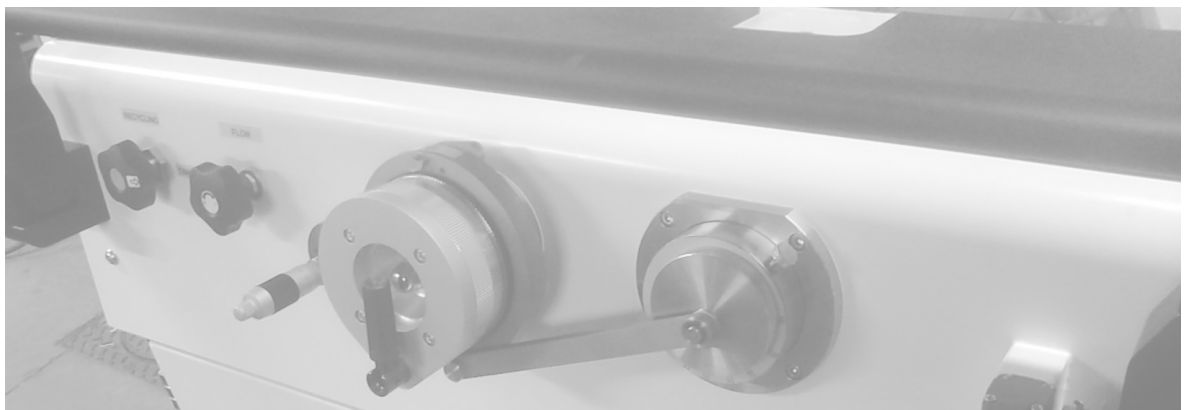
The plate can take up to 3 slides 140x68. It is individually driven and rotates slowly.

A shaft, rigorously parallel with that of the plate, bears the diamond grinding wheel which can move along its shaft. The thin sections are presented facing the grinding wheel.

Using a sliding gauge, the operator brings the grinding wheel in contact with the samples and activates the automatic feed mechanism. This mechanism, moved by the rotation of the plate, ensures the advance of the grinding wheel. It stops automatically when the desired pre-set thickness is reached. The role of the operator is limited to lay out the samples on the plate and to start the machine. No monitoring is necessary. The stop of the automatic feed is indicated by luminous and/or sound indicator.

PERFORMANCE

When the samples are carefully stuck on identically-calibrated glass-holders, it is possible to obtain thin sections at the requested thickness in a few minutes.



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