



60 ML100 00

## **MASTERLAM 1.0**

Automatic grinder/polisher Ø 250/300mm with central pressure head  
(without working wheel)

### **Description**

- Strong et reliable machine with the latest technologies
- Easy to use and ergonomic
- Graphic user surface touch screen color display 5,7" for easy operating
- USB plug for saving or loading programs
- Steel casing powder coated color RAL 9003 (white)
- Motors drive with frequency converter, ensuring a constant torque
- Electronic solenoid valve, to apply constant pressure on the samples
- Power head with central pressure and oscillating movement
- Energy saving LEDs illuminate the working area
- Rinsing tap with pulling out tube to clean the basin
- Removeable plastic bowl for easy cleaning





## Features

### Single plate machine:

- working wheel Ø 250/300mm
- variable speed 20 - 650 rpm
- clockwise / counter clockwise rotation
- total connection power 0,75 kW
- connection 230 Volts 50 Hz/60 Hz (1 phase)
- tube for bowl flushing
- automatic water solenoid

### Polishing head with central pressure:

- High torque motor
- variable speed 10 - 150 rpm
- clockwise / anti clockwise rotation
- pressure force central pressure var. 5 - 400 N
- sample size in central pressure mode according to sample holder

## Dimensions & weight

550 x 670 x 580 mm

85 kg

## Included equipment :

60ML100222 User and maintenance guide for masterlam 1.0 in english

## Optional equipment (need to be order with the machine)

60 MLSC0 00 Material removed measurement, with automatic machine switches off

- Stroke of the sensor from 0,1 to 3,5mm
- accuracy 0,02mm

600061190 Chinese plug

60 MLEP0 00 Safety hood

- Fully transparent device
- Safety canopy, complies with the european safety standards 2006/42/EC et 2004/108/EC (its opening will immediatly stop the cycle, and release the pressure on samples )
- Retractable canopy : movement is assisted by 2 gas struts, on each side of the machine
- Touch panel : the screen to control the machine is located right side of the unit
- necessary space : width 790mm, height : 910mm





- 60 A0029 00 Sedimentation/recirculating tank
- Primary tank 5 liters, with sedimentation grid, removable
  - secondary tank 60 liters
  - intergrated pump, to ensure the supply of liquid (close network)
  - Tank on casters, for an easy cleaning
  - Système enslave to the machine (need to be order with the machine)

#### **Additional optional equipment**

- 60 MLD00 00 *DISTRILAM* dispenser per peristaltic pump :
- 4 circuits (3 x diamond suspensions, 1 x lubricant)
  - manual/automatic with reverse rinsing function
  - dosing nozzle on magnetic holder
  - area for bottles with fixing for tubes, dim.170x205x200mm
- 60 00375 90 Filtration kit for compressed air - 5µm

#### **Additional standard material**

##### Working plate and attachment system

- 08 82704 00 Aluminium working plate Ø 300mm
- 60 SL006 90 clamping ring (metal)for abrasive papers Ø 300mm
- 08 82734 00 Aluminium working plate Ø12"
- 60 SL007 90 clamping (metal)ring for abrasive papers Ø 305mm (12")
- 088270300 Aluminium working plate Ø 250mm
- 60 SL004 90 clamping ring (metal)for abrasive papers Ø250mm
- 088273300 Aluminium working plate Ø10"
- 60 SL007 90 clamping ring (metal)for abrasive papers Ø10"
- 06ML08190 Metal bowl reducer, for plate Ø250mm or 10"

##### Stainless steel sample holder for central pressure

- 06 SMC20 00 Sample holder CP Ø119mm with 6 tear shape cavities Ø 20 to 32mm (for plate Ø200-250mm)
- 06 MLC10 00 Sample holder Ø160mm for central pressure tear shape 6 cavities Ø 20-40mm
- 06 MLC30 00 Sample holder Ø160mm for central pressure 9 cavities Ø 30mm
- 06 MLC40 00 Sample holder Ø160mm for central pressure 6 cavities Ø 40mm
- 06 MLC50 00 Sample holder Ø160mm for central pressure 5 cavities Ø 50mm
- 06 MLC51 00 Sample holder Ø160mm for central pressure 5 cavities Ø2"
- 06 MLC12 00 Sample holder Ø160mm for central pressure 3 cavities 40x70mm
- 06 MLC14 00 Sample holder Ø160mm for central pressure 6 cavities 25x34mm
- 06 MLP01 00 Levelling disc 3mm for sample-holder Ø160mm
- 06 MLP02 00 Levelling disc 3mm for sample-holder Ø119mm