

# Stone Grinder

14  
Inch



## Efficient. Easy.

The **ATM Stone Grinder** is a water cooled, high speed machine for quickly plane grinding samples in a specimen holder. The coarse grit grinding stone turns at 1700 rpm to plane grind a typical batch of samples in less than 30 seconds. Both mounted and unmounted specimens are easy work for this high speed machine.

Grinding depth (Z-axis) is programmable allowing the operator to remove the desired amount of material for any sample batch to within 0.1 mm accuracy.

Grinding depth, time, force and head speed are easily programmed using the graphical touch screen control panel.

The system is designed to give the operator total control of the parameters, including the diamond dressing tool's interval, depth and speed at which it dresses the stone.

The Stone Grinder is built in a floor standing SystemLab cabinet, which provides convenient storage of the recirculation system.



## ATM Stone Grinder

Grinding Stone:  
350 mm / 14" Diameter

Grinding Stone Speed:  
Fixed, 1,700 rpm with 480V  
Fixed, 1,695 rpm with 220V

Motor: 5.4 HP

Power:  
480V / 60 Hz, 3 Phase  
220V / 60 Hz, 3 Phase

Dimensions W x H x D:  
35 x 56 x 32"

Weight: 500 lbs

Recirculating System:  
45 L / 12 Gallons

## Grinding Head

Central Pressure Force:  
50 - 400 N

Controlled Removal:  
Variable, 0.1mm Accuracy

Speed:  
Variable, 30 - 150 rpm

Sample Holder Capacity:  
160 - 204 mm Ø  
1 - 12 samples / holder

## Dressing Device

Automatic, Enclosed

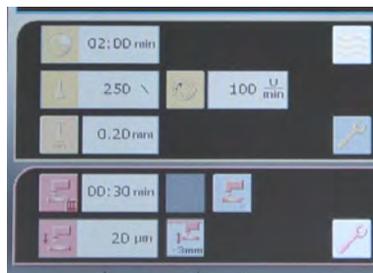
Dressing Speed:  
Variable, 20 - 100%

Dressing Depth: Variable

Dressing Interval Modes:  
1) User - set by you  
2) Automatic - machine sets  
3) Permanent - continuous



Completely enclosed, the **Diamond Dressing tool** saves the operator time and produces a perfectly dressed stone



**Graphical Touch Screen Control Panel** provides complete process control and programmability, including the ability to save and password protect procedures



A solid, **cast aluminum basin** will stand up to years of use



A unique, dual chamber **Recirculation System** preserves coolant and fits perfectly in the **SystemLab** cabinet



Did you know ATM manufactures it's own lab furniture? A **HPL countertop** provides a working area