

# **Spectrum System 1000**

## **Grinder/Polisher**

For your low- to medium-volume laboratory, choose the Spectrum System 1000 (SS1000) Grinder/Polisher. This system features a dual 8 in (200 mm) design that can be purchased as a manual stand-alone base unit or with an oscillating head for semi-automatic sample preparation. A rugged 0.5 hp (373W) motor drives the simultaneous operation of both 8-inch wheels. The optional head assembly maximizes efficiency and throughput in your lab.



### **Features**

- Built-in timer
- Variable-speed base
- Adjustable water faucet for each wheel
- Compact, durable design

### **Timer**

The variable-speed SS1000 includes an integrated timer for setting grinding and polishing times, eliminating the worries and expense of over-grinding or over-polishing. You can confidently walk away from operation and return to properly ground or polished samples.

The SS1000 provides simple one-button operation for low-to-high range operation. Low range covers timed procedures from 30 seconds to three minutes; high range settings apply to steps longer than four minutes.



# Specifications

## Base Unit

<b>Weight</b>	90 lb (41 kg)
<b>Height</b>	12.5 in (32 cm)
<b>Width</b>	27 in (69 cm)
<b>Depth</b>	24 in (61 cm)
<b>Voltage Input</b>	120 V, 60 Hz, single phase
<b>Operating Conditions</b>	50 °F to 104 °F (10 °C to 40 °C)
<b>Motor Output</b>	0.5 hp (373W)
<b>Wheel Size</b>	Dual, 8 in, belt driven
<b>Rotational Speed</b>	0 to 500 rpm
<b>Rotational Direction</b>	CCW
<b>Timer</b>	00:30, 1:00, 1:30, 2:00, 3:00, 4:00, 6:00, 8:00, 10:00; continuous operation, microprocessor controlled
<b>Water Supply</b>	20 to 80 psi
<b>Grinder/Polisher Discs</b>	8 in

## Semi-Automatic Grinder/Polisher Head Unit

<b>Weight</b>	30 lb (13.5 kg)
<b>Height</b>	13 in (33 cm)
<b>Width</b>	10.5 in (27 cm)
<b>Depth</b>	15 in (38 cm)
<b>Voltage Input</b>	120 V, 60 Hz, single phase
<b>Operating Conditions</b>	50 °F to 104 °F (10 °C to 40 °C)
<b>Motor Output</b>	1/6 hp (12.4W)
<b>Rotational Speed</b>	24 rpm constant
<b>Rotational Direction</b>	CW
<b>Pneumatic Supply</b>	40 to 100 psi, regulated, free of oil and water
<b>Sample Loading</b>	1 to 50 lb (force)
<b>Liquid Dispenser (optional)</b>	Manual control

## Part Numbers

SS1000BD	SS1000 Base Unit; 120 V, 60 Hz, single phase
SS1000HD	SS1000 8-inch Semi-Automatic Polishing Head; 120 V, 60 Hz, single phase
SS1000BHD	SS1000 Semi-Automatic Grinder/Polisher System; 120 V, 60 Hz, single phase

## Options

804-085	Specimen Holder Kit for eight 1 in diameter samples
804-088	Specimen Holder Kit for six 1.25 in diameter samples
804-091	Specimen Holder Kit for four 1.5 in diameter samples
806-793	Specimen Holder Kit for two 2.0 in diameter samples
806-512	Blank Holder
806-796	Specimen Leveler
801-424	8 in Cloth Clamp
800-458	8 in Paper Retainer
803-795	8 in Aluminum Wheel

Specifications and part numbers may change.  
Consult LECO for latest information.

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