

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. Add the head assembly and an optional dispenser to maximize efficiency.



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

Dispenser

The optional automatic dispenser unit gives you even more freedom to walk away from the unit during sample preparation—allowing more time for other tasks. The dispenser bottle refills quickly and easily from the top, and dispenses colloidal silica without clogging. The gravity-drip design and flexible applicator provide even diamond suspension distribution anywhere on the wheel. Manual application of the suspension or solution to the wheel allows you to accurately control the duration and frequency.



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.

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Specifications

Base Unit

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

Semi-Automatic Grinder/Polisher Head Unit

Weight	30 lb (13.5 kg)
Height	13 in (33 cm)
Width	10.5 in (27 cm)
Depth	15 in (38 cm)
Voltage Input	120 V, 60 Hz, single phase
Operating Conditions	50 °F to 104 °F (10 °C to 40 °C)
Motor Output	1/6 hp (124W)
Rotational Speed	24 rpm constant
Rotational Direction	CW
Pneumatic Supply	40 to 100 psi, regulated, free of oil and water
Sample Loading	1 to 50 lb (force)
Liquid Dispenser (optional)	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
808-655G	Gravity Feed Dispenser (250 mL capacity)

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

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