Pace TECHNOLOGIES

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2024-2025

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PRODUCT
CATALOG

METALLOGRAPHIC EQUIPMENT AND CONSUMABLES

ABRASIVE & PRECISION CUTTING
COMPRESSION & CASTABLE MOUNTING
GRINDING & POLISHING
MICROSCOPY & ANALYSIS
HARDNESS TESTING
LAB FURNITURE

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www.**metallographic**.com

NANO-1000S

NANO-1000S

**8-10 inch Single Wheel
Manual Grinder/Polisher**

- Single wheel
- 8 and 10-inch wheel diameter options
- 1 hp dynamic torque servo motor (100-1000 rpm)
- Three programmable preset speeds and times for quick speed or time changes
- Easy to use control panel with 3-inch LCD screen
- Auto timer control
- User friendly, robust and durable

NANO-2000S

NANO-2000S

**8-10 inch Dual Wheel
Manual Grinder/Polisher**

- Dual wheel
- 8 and 10-inch wheel diameter options
- 1 hp dynamic torque servo motor (100-1000 rpm)
- Three programmable preset speeds and times for quick speed or time changes
- Easy to use control panel with 3-inch LCD screen
- Auto timer control
- User friendly, robust and durable

High Torque Dynamic Servo Motor

8-inch Working Wheel	10-inch Working Wheel
Anodized 8-inch working wheel for NANO-S polishers **Catalog no. PW-800A**	Anodized 10-inch working wheel for NANO-S polishers **Catalog no. PW-1000A**

8 /10-inch Splash Guard	8 / 10-inch Cover
Splash Guard for NANO-S Polisher **Catalog no. PTM-125-001**	Polishing wheel cover for NANO-S polishers **Catalog no. PTM-125-007**

8 & 10-inch Metallographic Polishers

FEATURE	NANO-1000S DESCRIPTION	NANO-2000S DESCRIPTION
Motor power	1 hp (750 W) dynamic torque servo motor	1 hp (750 W) dynamic torque servo motor
Power head upgrade	FEMTO-1100S / FEMTO-1500S	FEMTO-1100S / FEMTO-1500S
Polishing wheels	Single - 8 &10-inch diameter	Double - 8 &10-inch diameter
Electrical specification	110 / 220V (50/60 Hz)	110 / 220V (50/60 Hz)
Speed (rpm)	Variable (100 - 1000 rpm) - Grinding (600-1000 rpm) - Polishing (100-600 rpm)	Variable (100 - 1000 rpm) - Grinding (600-1000 rpm) - Polishing (100-600 rpm)
Anodized Working wheels: 8-inch 10-inch	Part no. PW-800A Part no. PW-1000A	Part no. PW-800A Part no. PW-1000A
Dimensions (W x D x H)	16 x 15 x 15-inch (420 x 380 x 380 mm)	30 x 22 x 15-inch (750 x 570 x 380 mm)
Weight	63 lbs (29 kg)	80 lbs (36 kg)
Catalog Number	NANO-1000S	NANO-2000S
Optional	Recirculating filtering tank (RC-1000A)	Recirculating filtering tank (RC-1000A)

Benefits:

- Variable speed 100-1000 rpm, 1 rpm increments
- CCW and CW direction control
- Rapid programmable speed and time selection
- Timer (count down to zero and turns off) range from 1 second up to 99 minutes and 60 seconds
- Emergency stop switch
- Flexible / retractable water spout
- 1 hp (750W) high torque dynamic servo motor for constant torque over the full range of motor speeds
- Splash guard and cover
- Electrical connections for FEMTO-1100S/1500S auto polishing

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8-inch Paper Ring

Paper rings for plain-backed papers
Catalog no. PTM-125-005 (8-inch)

10-inch Paper Ring

Paper rings for plain-backed papers
Catalog no. PTM-125-006 (10-inch)

NANO-S 8 & 10-inch Polisher Accessories	Catalog Number
8-inch diameter hard coat anodized aluminum working wheel	PW-800A
10-inch diameter hard coat anodized aluminum working wheel	PW-1000A
8 & 10-inch splash guard	PTM-125-001
8 & 10-inch cover	PTM-125-007
8-inch 304 stainless steel plain-backed grinding paper ring	PTM-125-005
10-inch 304 stainless steel plain-backed grinding paper ring	PTM-125-006

CE Machinery Directive 2006/42/EC
2014/35/ EU Low Voltage Directive
2014/30/EU Electromagnetic Compatibility Directive

NANO-S 8 & 10-INCH POLISHING MACHINES
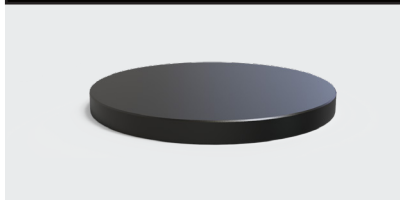
NEW **NANO-1200S**

12-14 inch Single Wheel Manual Grinder/Polisher

- Single wheel
- 12 and 14-inch wheel diameter options
- 1.3 hp (1000W) motor (100-1000 rpm)
- Three programmable preset speeds and times for quick speed or time changes
- Easy to use control panel
- Auto timer control
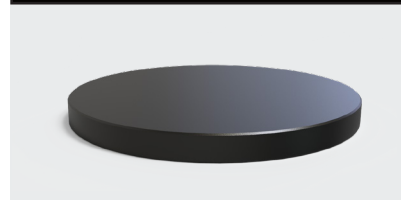- User friendly, robust and durable

NANO-1200S

12-inch Working Wheel

Anodized 12-inch working wheel for NANO-1200S polishers
Catalog no. PW-1200A

14-inch Working Wheel

Anodized 14-inch working wheel for NANO-1200S polishers
Catalog no. PW-1400A

NANO-1200S Splash Guard

Splash Guard for NANO-1200S Polisher
Catalog no. PTM-225-207
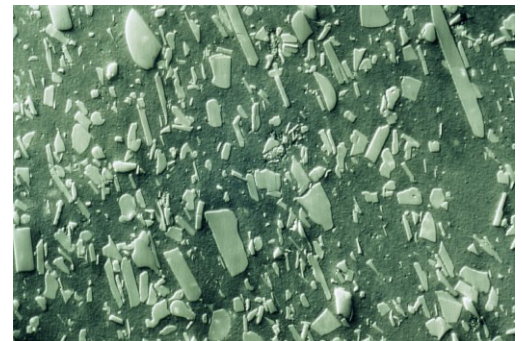
12-inch Paper Ring

12-inch Paper ring for plain-backed papers
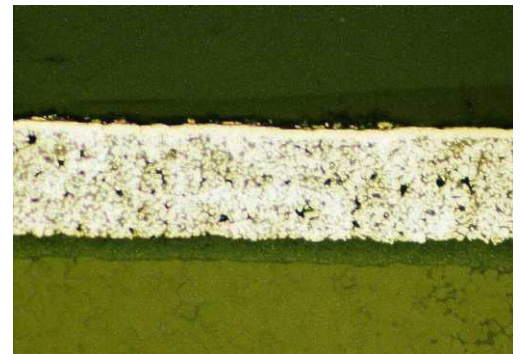**Catalog no. PTM-225-005 (12-inch)**

14-inch Paper Ring

14-inch Paper ring for plain-backed papers
Catalog no. PTM-225-006 (14-inch)
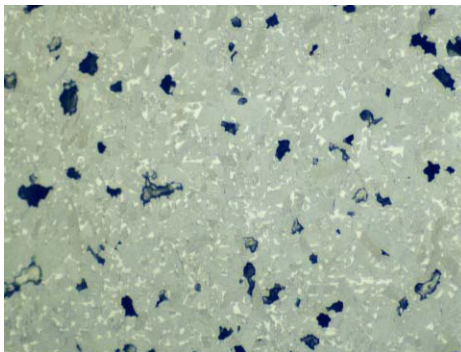
SiC particles in a Si3N4 matrix , 1000X (DIC)

AIN substrate with a molybdenum/ nickel, gold coating
400X (B.F.)

12 & 14-inch Metallographic Polishers

2 year warranty
Limited Warranty

FEATURE	NANO-1200S DESCRIPTION
Motor power	1.3 hp (1000 W)
Power head upgrade	FEMTO-2200S / FEMTO-2500S
Polishing wheels	Single - 12 &14-inch diameter
Electrical specification	110 or 220V (50/60 Hz) pre wired at factory
Speed (rpm)	Variable (100 - 1000 rpm) - Grinding (600-1000 rpm) - Polishing (100-600 rpm)
Anodized Working wheels: 12-inch 14-inch	Part no. PW-1200A Part no. PW-1400A
Dimensions (W x D x H)	20 x 16 x 25-inch (510 x 420 x 640 mm)
Weight	95 lbs (43 kg)
Catalog Number	NANO-1200S
Optional	Recirculating filtering tank (RC-1000A)

NANO-1200S 12 & 14-inch Polisher Accessories	Catalog Number
12-inch diameter hard coat anodized aluminum working wheel	**PW-1200A**
14-inch diameter hard coat anodized aluminum working wheel	**PW-1400A**
12 & 14-inch splash guard	**PTM-225-207**
12-inch 304 stainless steel plain-backed grinding paper ring	**PTM-225-005**
14-inch plastic plain-backed grinding paper ring	**PTM-225-006**

Benefits:

- Variable speed 100-1000 rpm
- CCW and CW direction control
- Rapid programmable speed and time selection
- Timer (count down to zero and turns off) range from 1 second up to 99 minutes and 60 seconds
- Emergency stop switch
- Swinging water spout
- 1.3 hp (1000W) motor
- Splash guard
- Electrical connections for FEMTO-2200S/2500S auto polishing

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BeO, 400X (B.F.) as polished condition

NANO-1200S / FEMTO-2200S Autopolisher

CE

Machinery Directive 2006/42/EC
2014/35/ EU Low Voltage Directive
2014/30/EU Electromagnetic Compatibility Directive
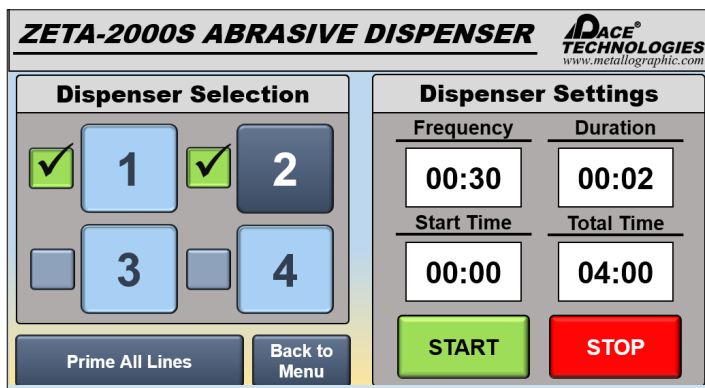
ZETA-2000S

NEW

ZETA-2000S

Abrasive and Lubricant Dispenser

- 4 (24v) dedicated, programmable peristaltic pumps.
- Setting adjustments for frequency, duration, start time, total time
- 7-inch touchscreen interface
- Compatible with NANO polishing machines as well as competitors' polishing devices
- Controlled priming for each pump and dispensing lines for more immediate application of the abrasive / lubricant
- Flushing/ priming sequence for changing of abrasive/lubricant options
- Variable flow 1.2~90 ml/minute
- Flex line for easy adjustment of dispensing nozzles
- 110/220V compatible
- Easy to use, robust and durable

ZETA-2000S ABRASIVE DISPENSER

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Dispenser Selection

| ✔ | 1 | ✔ | 2 |
| | 3 | | 4 |

Prime All Lines | Back to Menu

Dispenser Settings

Frequency	Duration
00:30	00:02
Start Time	**Total Time**
00:00	04:00

START | STOP

RC-1000A

RC-1000A

Recirculating / Filter System

- Series of three replaceable filters (0.2, 0.5 and 1 micron)
- Positive pressure 24V pump (40W) (connected to 110V/220V power supply)
- 1.3 GPM (5 liters/min) maximum flow
- Easy to operate

ZETA-2000S Metallographic Abrasive Dispenser

FEATURE	ZETA-2000S DESCRIPTION
Pumps	4 (24v) dedicated, programmable peristaltic pumps Setting adjustments for: - Frequency - Duration - Start time - Total time
Flow rates	1.2 - 90 ml/minute
Cleaning	Water flushing
Electrical specification	110 / 220V (50/60 Hz)
Dimensions (W x D x H)	9.5 x 11 x 12-inch (240 x 70 x 300 mm)
Weight	20 lbs (9.1 kg)
Catalog Number	ZETA-2000S

Benefits:

◆ Microprocessor controlled

◆ Can be used manually on competitors' equipment

◆ Interfaces with the FEMTO-S Auto Polishing heads for automated abrasive fluid dispensing

◆ Capable of dispensing NANOMETER alumina and SIAMAT colloidal silica and subsequently back flushing the lines to keep them clean and reusable

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RC-1000A Recirculating / Filter System

FEATURE	RC-1000A DESCRIPTION
Filtering	Coarse (2-straining filters) Fine Filters (0.2, 0.5 and 1 µm)
Tank capacity	14 gallons (53 L)
Pump	24VDC Diaphragm Pump (1.3 GPM, 5 liters/min)
Electrical specification	110 / 220V (50/60 Hz)
Pressure	60 psi (0.42 MPa)
Dimensions (W x D x H)	32 x 16 x 20-inch (800 x 420 x 500 mm)
Weight	30 lbs (14 kg)
Catalog Number	RC-1000A

Benefits:

◆ Eliminates need for water and sewer hook-up

◆ Allows the polishing machine to be mobile

◆ Environmentally friendly

◆ Self-contained system

ZETA-2000 ABRASIVE DISPENSER / RC-1000A RECIRCULATING FILTER SYSTEM

Machinery Directive 2006/42/EC
2014/35/ EU Low Voltage Directive
2014/30/EU Electromagnetic Compatibility Directive

CE