

PACE[®] **TECHNOLOGIES**

www.metallographic.com

Automated / Manual Abrasive 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 competitor polishing devices
- Controlled priming for each pump and dispensing lines for more immediate application of the abrasive / lubricant
- Flushing sequence for changing of abrasive/lubricant options
- Flow 1.2~90 ml/min
- Flex line for easy adjustment of dispensing nozzles
- 110/220 V compatible
- Direct line water inlet
- Easy to use

The ZETA 2000 is a 4-fluid automated / manual dispenser used for controlling and regulating the application of abrasives such as diamond, alumina, colloidal silica and lubricant solutions onto the polishing surface. The ZETA 2000 dispensing frequency, duration, starting time and total time can be programmed for manual or automated polishing. Priming the pumps lines allow for immediate application of the abrasive as required for consistent and reliable polishing. To prevent build-up or settling of abrasives in the pump and dispensing lines and pumps (especially for dispensing colloidal silica) an easy to use "Flush All Lines" command button has been added to the control panel. In addition, the ZETA 2000 has a hard connection to a water supply for more efficient and cleaning flushing of all lines.



ZETA-2000 ABRASIVE DISPENSER			
Dispenser Selection		Dispenser Settings	
<input checked="" type="checkbox"/> 1	<input checked="" type="checkbox"/> 2	Frequency 0:30 Start Time 0:00	Duration 0:02 Total Time 4:00
<input type="checkbox"/> 3	<input type="checkbox"/> 4	START	STOP
Flush All Lines	Prime All Lines	Back to Menu	

Features

- Microprocessor controlled
- 7-inch touchscreen interface
- Digital LED readout
- 4 independent peristaltic pumps
- Interfaces with the FEMTO-S autopolishing 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

Applications:

- Diamond
- Alumina
- Colloidal Silica
- Lubricants
- Water



Machinery directive 2006/42/EC
Low Voltage Directive 2006/95/EC
Electromagnetic Compatibility directive 2004/108/EC

Technical Specifications:

Benefits:	Specification:
Pumps	4 (24V) dedicated, programmable peristaltic pumps. Setting adjustments for: -Frequency -Duration -Start time -Total time
Flow rates	1.2 - 90 ml/min
Controls	7-inch programmable touchscreen interface
Cleaning	Water flushing
Electrical	110V / 220V
Dimensions (WxDxH)	9.5 x 10.6 x 12-inch (240 x 270 x 300 mm)
Weight	12 lbs (5.5 kg)

Diamond Suspensions

Description	Monocrystalline Diamond (500 ml)	Polycrystalline Diamond (500 ml)
0.05 micron diamond	n.a.	GPC-0105-500
0.1 micron diamond	n.a.	GPC-0110-500
0.25 micron diamond	n.a.	GPC-0125-500
0.5 micron diamond	n.a.	GPC-0150-500
1 micron diamond	GMA-1001-500	GPC-1001-500
3 micron diamond	GMA-1003-500	GPC-1003-500
6 micron diamond	GMA-1006-500	GPC-1006-500
9 micron diamond	GMA-1009-500	GPC-1009-500
15 micron diamond	GMA-1015-500	GPC-1015-500
30 micron diamond	GMA-1030-500	GPC-1030-500
45 micron diamond	GMA-1045-500	GPC-1045-500

NANOMETER Polycrystalline Alumina Slurries

Description	0.05 micron Polycrystalline Alpha Alumina Slurry	0.05 micron Polycrystalline Acidic Alumina Slurry
Part Number	NA-1005-32	NA-1020-32
Slurry pH	4	10

Colloidal Silica Suspensions

Description	Part Number
SIAMAT colloidal silica (0.06 micron)	SI-100A-32
SIAMAT Blue colloidal silica (0.05 micron)	SI-100B-32
Non-crystallizing colloidal silica (0.02 micron)	SI2-100A-32
CMP alumina-colloidal silica (pH 10)	CMP-1005-32
CMP slurry (high viscosity)	CMP2-1005-32

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