



BUEHLER®

PRIMET® 3000 MODULAR DISPENSING SYSTEM

- **Affordable, Abrasive Dispensing System Using Peristaltic, No Mist Technology**
- **Automatic On/Off Operation When Connected to Compatible Buehler Polishers**
- **Automatic Control of Time and Amount Dispensed Reduces Waste and Increases Specimen Consistency**
- **25 Proven Buehler Methods and Availability for 25 Additional User Defined Methods**
- **Two Bottle System can be Expanded to 10 With the Addition of 8 PRIMET™ Modular Dispensing Satellites**

**MODULAR
DISPENSING SYSTEM**

3000

PRIMET™

BUEHLER®

Controlled, Repeatable, Waste-Free Dispensing



Versatile and Easy to Use

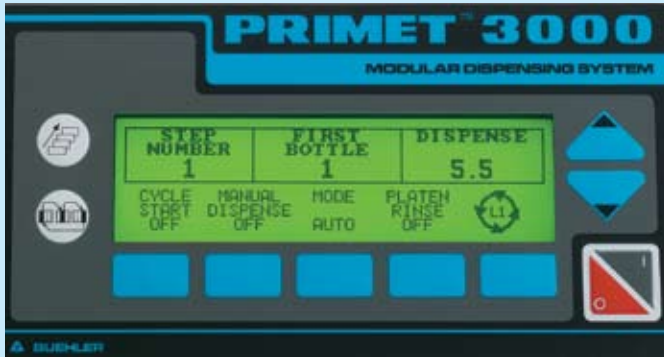
- LCD (Liquid Crystal Display) with user friendly touch panel controls
- Manual operation by use of front-touch panel, or automatic operation by connecting cable to any compatible Buehler polisher for On/Off control at each dispensing step
- Compatible with water, oil, and alcohol based suspensions, diamond suspensions and most final polishing suspensions including alumina (Al_2O_3), silicon carbide (SiC) and colloidal silica (SiO_2) abrasive suspensions
- The maintenance system of the PRIMET[®] 3000 allows the operator to clean the hoses of suspension, by flushing them with water. If bottle number one is chosen and a final polishing solution selected, the PRIMET[™] 3000 will automatically flush the hose with water to prevent any potential clog.

Modular, Expandable System

- Two bottle system can be expanded to a 10 bottle system by the addition of up to 8 additional PRIMET[®] Satellites via USB cable interface
- Each bottle can be primed, stirred, or cleaned independently or all at one time
- Either one or two bottles may be dispensed during one step, each with their own selected dispensing rate, allowing the operator to dispense a diamond suspension and a lubricant during one step
- A modular, expandable dispensing arm accommodates the additional Satellites by providing a compact resting place for the addition of dispensing hoses

Repeatable and Programmable

- PRIMET[®] 3000 has 25 pre-programmed proven dispensing methods for a wide variety of materials. These dispensing methods relate directly to 25 of the proven preparation methods in Buehler's Guide to Materials Preparation and Analysis.
- In addition, these methods may be modified and stored in 25 available user defined programmable spaces or the operator may define his own method for future use. Any of these methods may be edited for future use with a simple touch of the front display panel.
- The PRIMET[®] 3000 has a selection of 20 different, repeatable, dispense rates to accommodate any combination of suspension and polishing cloth. Controlled dispensing offers results that can be repeated time after time, operator to operator.



The PRIMET® 3000 features a Liquid Crystal Display (LCD) with easy to use touch pad controls. Simply scroll to the desired parameter field and choose your setting with the up/down arrow keys. Five soft keys with touch control are located across the bottom of the facia.



The L1 screen offers the first choice of operating parameters; step number, first bottle number, and the dispense rate for the first bottle.



The L2 screen offers the choice of a second bottle and its corresponding dispense rate. The bottle name is chosen from a list including ALUMINA, CERIUM OX, COLLOIDAL, LAP OIL, LUBRICANT, METADI, METADI FL, METADI SP, NONE and OTHER. Corresponding micron sizes are available for choice; 0, .02, .05, .06, .10, .25, .30, .50, .1, 3, 5, 6, 9, 15, 30, and 45.



Use the Load Method and Save Method functions to select from 25 pre-programmed dispensing programs (these correspond to Buehler's Guide to Materials Preparation and Analysis) or choose to modify and save up to 25 of your own methods.



The L4 screen allows the operator to delete the current step, add a new step, or delete all steps in the current method.



40-2810 PRIMET® Modular Dispensing Satellites will expand dispensing capabilities of your PRIMET® 3000. Each satellite will respond to the programming from the PRIMET® 3000 via the USB cable, dispensing the preprogrammed suspension at the chosen rate for repeatable and economical dispensing every time.



40-2822 The PRIMET® 3000 dispensing arm with stand is designed to combine hoses from the PRIMET® 3000 and multiple PRIMET® Satellites into one convenient unit that can easily be adjusted over any grinder/polisher.



Parameter Scroll Button scrolls through the parameter fields, displaying three fields at a time on L1, L2, and L3 screens.



Parameter Value Scroll Button scrolls through and highlights the values of each parameter field through use of the increase/decrease buttons.

Technical Data

Operation:

Manual operation when used as a 'stand alone' unit or a semi-automatic operation when connected to compatible Buehler polisher

Dispensing Pumps:

Two peristaltic, no mist pumps

Dispensing Amounts:

Twenty settings, 0, 1, 1.5, 2, 2.5 10 Approximate range 0.2 - 18cc/min (0.2 0 18ml/min)

Method Programmability:

25 Buehler proven dispensing methods and 25 User definable methods

Touch-pad Controls:

- On/Off
- Parameter Scroll
- Parameter Scroll Value
- Increase / Decrease

Cycle Run Parameters:

- Step Number
- First Bottle
- Dispense
- Second Bottle
- Pre-Dispense
- Rinse Time
- Current Method

Bottle Naming Parameters:

- Bottle Number
- Bottle Name
- Micron Size

Bottle Number Maintenance

Functions:

- Stir Number
- Prime Number
- Clean Number

Languages:

English, French, German, Portuguese, Spanish, Japanese, Korean, and Chinese

Weight:

25 lbs.

Mains Voltage:

85-264 V/50-60Hz/1 phase/AC input

Dimensions:

| W | x | D | x | H |
|-------|---|--------|---|-------|
| 10.2" | x | 11.75" | x | 8.5" |
| 259mm | x | 298mm | x | 216mm |

Other Features:

- Compact Footprint
- Modular
- Ergonomically Positioned Control Panel
- Easy to Clean Cabinetry
- Last Settings Retained Programmability

Specifications

The PRIMET® 3000 Modular Dispensing System is designed to control the amount of fluid suspensions dispensed during a preparation step with any Buehler grinder/polisher. Its compact size enables it to fit on TECH-MET® table units with built-in polishers or your own laboratory furniture. With two peristaltic pumps, the PRIMET® 3000 can dispense two fluids during the same step to two individual compatible Buehler grinder/polishers simultaneously. When combined with the PRIMET® Satellite, the PRIMET® 3000 can dispense up to ten fluids using a variety of dispensing rates. The PRIMET® 3000 comes standard with durable aluminum housing, all necessary hoses and fittings, 1 AC power cord, 1 PRIMET® dispensing arm with five hoses, 2 PRIMET® 16 oz. bottles with labels, one polisher to PRIMET® connector cable and 1 instruction manual.

| Catalog Number | Description |
|----------------|--|
| 40-2704 | PRIMET® Buehler Polisher to PRIMET™ Connector Cable |
| 40-2706 | PRIMET® Adapter for PHOENIX 4000 to METLAP® 2000 to Satellites |
| 40-2800 | PRIMET® 3000 Modular Dispensing System |
| 40-2810 | PRIMET® Modular Dispensing Satellite |
| 40-2811 | PRIMET® Modular Dispensing Satellite less 40-2823 & 40-2825 |
| 40-2822 | PRIMET® Dispensing Arm with Stand |
| 40-2824 | PRIMET®, 16 oz. (.47L) Bottle with Suspension Labels |
| 40-2826 | PRIMET® Tubing, 48", 1/8" OD x 1/16" ID (12.2cm x 3.2mm x 4.2mm) |
| 40-2827 | PRIMET® Tubing, 36", 3/16" OD x 1/16" ID (914mm x 4.8mm x 4.2mm) |
| 40-2828 | PRIMET® Supply Tubing with Connectors, Bottle to Pump, Set of 3 |
| 40-2829 | PRIMET® Peristaltic Pump Replacement Tube with Connectors, Set of 3 |
| 40-2830 | PRIMET® Dispensing Tips, Set of 3 |
| 40-2831 | PRIMET® Luer Fittings, Twist Lock, Set of 10 |
| 40-2832 | PRIMET® 18" (457mm) Satellite to Satellite Connectors, USB, Set of 3 |
| 40-2823 | PRIMET® Hand Switch |
| 40-2825 | PRIMET® 12 Volt Transformer |

Buehler continuously makes product improvements; therefore, technical specifications are subject to change without notice.

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BUEHLER ANALYST®
SECTION

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BUEHLER

BUEHLER LTD. – Worldwide Headquarters
41 Waukegan Road • P.O. Box 1
Lake Bluff, Illinois 60044-1699 USA
Tel: 847/295-6500 • Fax: 847/295-7979
Sales: 1/800/BUEHLER • 1/800/283-4537
Web Site: <http://www.buehler.com>

BUEHLER GMBH - European and MESA Headquarters

In der Steele 2 • 40599 Düsseldorf
Postface 16 03 55 • 40566 Düsseldorf
Telefon: (49) 211 974100 • Telefax: (49) 211 9741079
Web Site: <http://www.buehler-met.de> • Email: info@buehler.com

BUEHLER FRANCE

Téléphone: 0800 89 73 71 • Télécopie: 0800 88 05 27
Web Site: <http://www.buehler.fr>
Email: info@buehler.fr

BUEHLER UNITED KINGDOM

Telephone: 0800 707 6273 • Fax: 0800 707 6274
Web Site: <http://www.buehler.co.uk>
Email: sales@buehler.co.uk

BUEHLER CANADA

10 Carlow Court, Unit #2 • Whitby, Ontario L1N 9T7
Telephone: 1-800-268-3593
Email: info@buehler.ca

BUEHLER ASIA

5/F Vogue Centre • 696 Castle Peak Road
Lai Chi Kok, Kowloon • Hong Kong, SAR, China
Telephone: (852) 2307 0909 • Fax: (852) 2307 0233