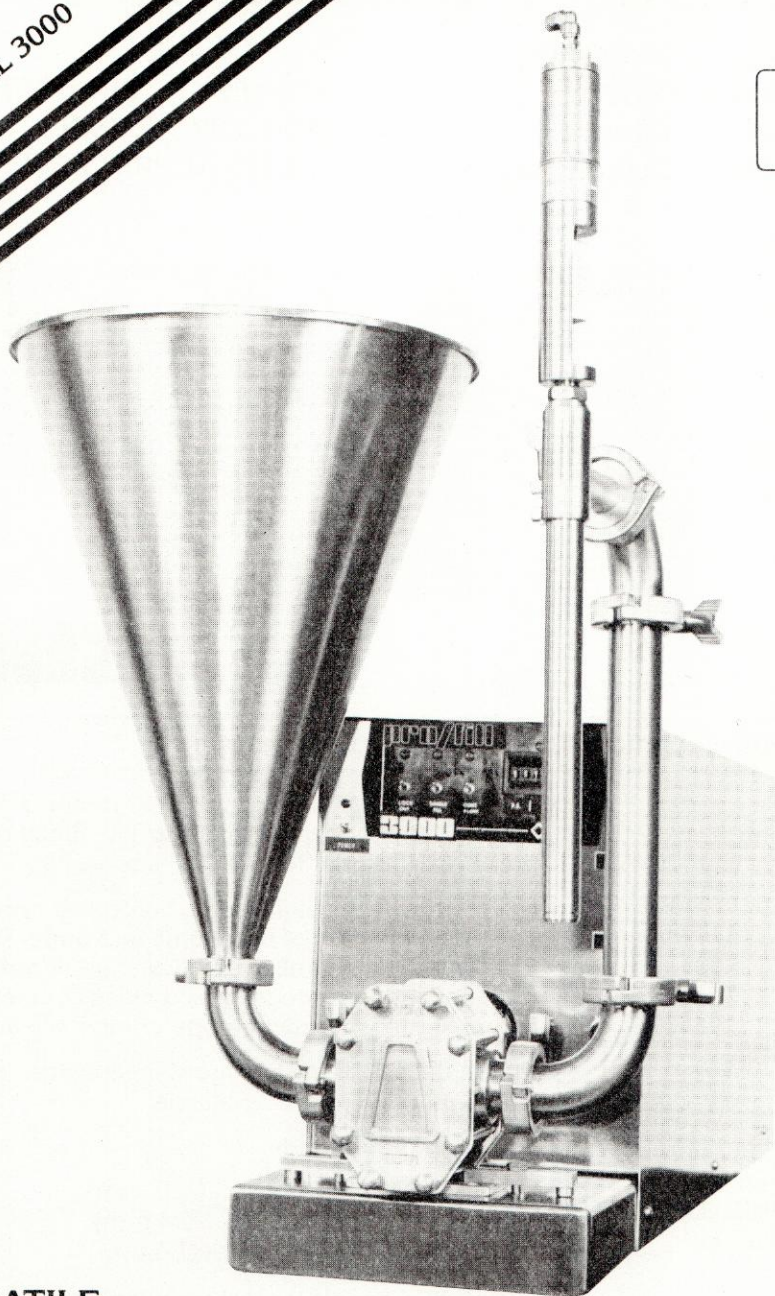


PRO/FILL 3000

pro/fill  
**3000**

## **MULTI- PURPOSE LIQUID FILLING SYSTEM**



- **VERSATILE**  
Handles milliliters to gallons, low to high viscosities.
- **ELECTRONICALLY CONTROLLED**  
Simple digital entry of fill volume and pump speed. Positive shut-off drip free nozzle.
- **ACCURATE**  
Encoder based pulse counter controls volume with up to 0.1% accuracy.
- **FAST CLEAN-UP**  
Clean-in-place. Or 1 minute removal of fluid contact parts.

Backed by Oden's advanced technology and superior engineering, the PRO/FILL 3000 sets new standards for versatility, flexibility, speed and productivity.

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# PRO/FILL 3000 MULTI-PURPOSE LIQUID FILLING SYSTEM

Ideal for applications in a broad range of industries:

- COSMETIC
- BIOTECH
- LABORATORY
- PHARMACEUTICAL
- INDUSTRIAL
- HOUSEHOLD PRODUCTS
- BIOMEDICAL PRODUCTION
- FOOD PROCESSING
- CHEMICAL PROCESSING

Ideal for a broad range of products:

|                 |                |                |                  |                 |                 |                    |
|-----------------|----------------|----------------|------------------|-----------------|-----------------|--------------------|
| ACRYLIC PAINTS  | CHOCOLATE      | DYES           | HAIR TREATMENTS  | LUBRICANTS      | SALAD DRESSINGS | SOY SAUCE          |
| ADDITIVES       | SAUCE          | ELECTROLYTE    | HAND CLEANERS    | MARMALADES      | SALINE          | SWEETENERS         |
| ALCOHOLS        | CIDER          | MINERAL GELS   | HONEY            | METHYL          | SAUCES          | SYRUPS             |
| ANTI-FOAMING    | COOKING WINES  | FACIAL CREAMS  | HYDRAULIC FLUIDS | CELLULOSE       | SERUMS          | SUNCARE            |
| AGENTS          | COSMETIC       | FATS           | ICINGS           | PRODUCTS        | SHAMPOOS        | PRODUCTS           |
| BABY FOODS      | PRODUCTS       | FLAVORING      | INK PRODUCTS     | MILK            | SHAVING CREAM   | TACO SAUCES        |
| BABY FORMULA    | COTTAGE CHEESE | EXTRACTS       | INSECTICIDES     | MINERAL OIL     | SHORTENINGS     | TEMPERA PAINTS     |
| BATH GEL        | COUGH SYRUPS   | FOOD COLORINGS | JAMS             | MOTOR OIL       | SILICONE        | TRANSMISSION FLUID |
| BATH OIL        | CREAMS         | FRUIT JUICE    | JELLIES          | PAINTS          | PRODUCTS        | VINEGAR            |
| BRAKE FLUID     | DAIRY PRODUCTS | CONCENTRATES   | LENS CLEANING    | PAINT THINNER   | SKIN CARE       | WOOD FINISHING     |
| BRINES          | DE-FOAMING     | FRUIT JUICES   | SOLUTIONS        | PETROLEUM       | PRODUCTS        | PRODUCTS           |
| BROTHS          | AGENTS         | FRUIT NECTARS  | LINIMENT         | PRODUCTS        | SOY PRODUCTS    |                    |
| CASTOR OIL      | DENTAL GELS    | GELATINS       | LIQUID           | PHARMACEUTICALS |                 |                    |
| CAUSTIC LIQUIDS | DENTAL         | GELS           | DETERGENT        | PIE FILLINGS    |                 |                    |
| CHEESES         | SOLUTIONS      | GRAVIES        | LIQUID MARGARINE | PRESERVES       |                 |                    |
| CHEMICAL        | DEODORANTS     | HAIR CARE      | LIQUID SOAPS     | PUDDINGS        |                 |                    |
| SOLUTIONS       | DRINK MIXERS   | PRODUCTS       | LOTIONS          | REAGENTS        |                 |                    |

pro/fill  
3000

— Benchtop To Fully Automated High Speed Systems —

## PRO/FILL 3000-Technical Data and Specifications

- **ACCURACY:** To 0.25% below 1 liter. To 0.1% above 1 liter. Subject to testing.\* Electronically controlled positive shut-off no-drip nozzle.
- **REPETITION:** Operator determined. Minimum time between fills, 0.1 second. Automatic cycling optional.
- **MINIMUM FILL:** 15 ml. Smaller volumes by special order.
- **MAXIMUM FILL:** 5 gallons. Higher output by special order.
- **FLUID CONTACT PARTS:** 316 stainless steel, Teflon and Rulon. One minute removal for clean-up.
- **STANDARD PUMP:** 7.0 GPM (26.5 liters/min.) flow rate, water curve. Stainless steel positive displacement gear type pump. Easily broken down for cleanup. Designed to 3A standards.
- **SPECIAL PUMPS:** Gear type and sanitary lobe pumps from 1 to 20 GPM can be fitted to meet special product requirements.
- **UTILITIES:** 115 VAC 50/60 cycle single phase at 18 amps, standard. 220 VAC 50/60 cycle single phase at 9 amps available. 75 PSI air at 1.0 SCFM.
- **PUMP DRIVE:** PM servo type gear motor, 3.75 HP, 90 VDC, direct coupled to pump. No clutch or clutch-brake used. Higher torque drives available.
- **ELECTRONICS:** Digital logic controlled process circuitry. Digital entry of fill volume and pump speed. Electronically controlled positive shut-off nozzles. High resolution, encoder based pulse counter volume control circuitry. Direct computer interface available.
- **ENCLOSURE:** Heavy gauge stainless steel. Air-tight/fluid-tight construction available.
- **WEIGHT:** 175 pounds.
- **DIMENSIONS:** Height 15" (381 mm)  
Width 10" (254 mm)  
Depth 38" (965 mm)
- **OPTIONS:** Stainless steel machine stand, special nozzles, diving nozzles, hoppers, alarms, remote electronics, automation package.

\***PRODUCT TESTING:** the fact that ODEN Systems have been successfully applied in the field of liquids, semi-liquids, pastes and lotions covering a wide range from very low to very high viscosities, and in many cases complying with stringent demands of accuracy, does not mean that there are no limits to practical use. We therefore offer to all our customers the benefit of pre-sale trials and tests with the original product(s) and containers at ODEN's facilities. Only upon positive conclusion of such tests can ODEN CORPORATION guarantee the satisfactory operation of its equipment for specific applications.



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Innovators in Electronically  
Controlled Packaging Systems



ODEN CORPORATION® 1984, 1985, 1987