

STEELHEART.CA

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HIGH-PRECISION PERISTALTIC PUMP

Laboratory units and automated production systems



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SH-1 SINGLE HEAD



SH-2 DUAL HEAD

The SteelHeart™ system is Capmatic® latest advancement in peristaltic filling technology. It is well-known for its flexibility, accuracy, operational ease and is guaranteed against cross contamination.

The SteelHeart™ is a division of Capmatic® mobile multi-head filling system and can be configured with up to 12 independent dispensing units. In its auto-calibration mode, this system can sample periodically through the integrated load cell to ensure that each servo drive maintains its accuracy within the programmed target fill range. The fill volume and target fill range can be programmed as a set of recipes in the main control panel.

The unit can also be operated as a direct connection to any control logics. Data acquisition can easily be processed or transferred between many compatible supervisory control and data acquisition (SCADA) systems.

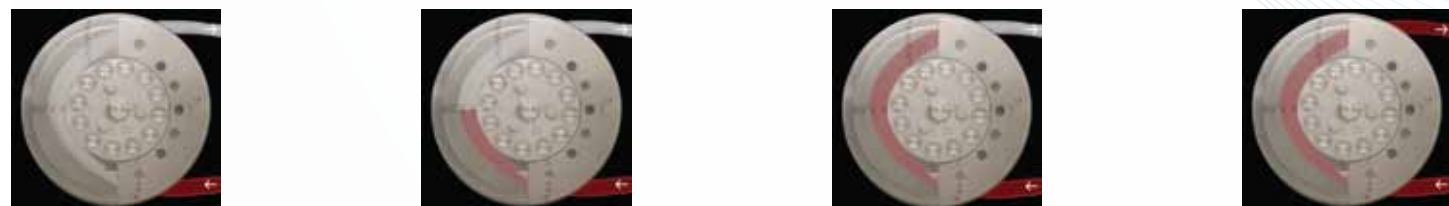
The filling system complies with cGMP standards and is designed for use in many industries, including cleanroom environments.

Applications

Pharmaceutical and Diagnostic
Personal Care and Cosmetic

Food and Beverage
Industrial and Chemical

PERISTALTIC PUMP FLUID PATH



Features and Benefits

- Allen-Bradley PLC & Touchscreen HMI
- Driven by servo motors
- Accuracy of +/- 0.5% (Depending on Fill Volume, Product & Set-up)
- Flow rates of up to 8 liters/min
- Electrical requirements: 120/240 volts, 50/60Hz
- Stainless steel construction
- Easy clean exterior adapted for cleanrooms
- Auto-calibration via external connected scale
- Ethernet port for data acquisition

- Programmable recipes through touchscreen interface
- User-based access control
- Extensive filling range down to microliters
- Dual offset rollers to alleviate pulsation
- No change parts required
- Accommodates multiple tubing brands and materials
- Extensive range of accepted tube sizes:
 - » 0.5mm (0.019") - 8.0mm (0.315") ID
 - » Wall thickness up to 3.2mm (0.126")

Flexibility of Modular Design



Automated System



Integratable Pump Cart

CAPACITY CHART

Volume (ml)	Single Head Filling Rate* (frequency per minute)	Accuracy* (± %)
0.05 - 0.90	50 - 60	1.5 % (0.01 ml)
1 - 10	30 - 60	0.5
11 - 50	20 - 60	0.5
51 - 100	30 - 40	0.5
101 - 200	14 - 20	0.5
201 - 300	10 - 15	0.5
301 - 400	08 - 10	0.5
401 - 500	05 - 08	0.5

*Note: Accuracy and dispensing rates are subject to testing and tube selection. Results shown are based on water.



SteelHeart Pump Module