

PERISTALTIC PUMPS

The world's fastest growing pump type



Watson-Marlow Bredel pumps bring you...

- Accurate and repeatable flow rates
- Contamination free pumping - ideal for shear-sensitive fluids, viscous sludges or slurries, and aggressive acids and caustics
- Easy to install, operate and maintain
- Virtually maintenance free - no expensive seals, valves, diaphragms or rotors to leak, clog or corrode

<p>100</p>	<p>Low flow single channel pumps. Fixed and manual/auto control variable speed.</p>	<ul style="list-style-type: none"> • Flow rates from 0.001 ml/min to 53 ml/min • Rapid and simple tube loading • Manual, auto and digital TTL control 	<p> 2 years warranty 101F/R 30 psi</p>		<p>101U/R </p>
<p>200</p>	<p>Near pulseless, multi-channel cassette pumps with up to 32 channels.</p>	<ul style="list-style-type: none"> • Flow rates from 0.0006 ml/min to 22 ml/min per channel • Precise flow control for each individual channel • Manual, auto and digital TTL control 	<p> 2 years warranty 205S/CA 30 psi</p>		<p>205U/CA </p>
<p>300</p>	<p>Single or multi-channel benchtop pumps with manual, remote, analog, RS232 control and accurate dispensing.</p>	<ul style="list-style-type: none"> • Flow rates from 0.09 ml/min to 2,000 ml/min • High visibility digital display with membrane keypad • Single channel or up to ten separate channels • Zero maintenance brushless DC motors 	<p> 2 years warranty 329S/D 30 psi</p>		<p>329E/D </p>
<p>400</p>	<p>Ultra-compact scientific pumps for low flow single or multi-channel applications.</p>	<ul style="list-style-type: none"> • Flow rates from 0.001 ml/min to 610 ml/min • Precision multi-roller pumpheads for accurate flows • Single channel 102R pumphead for use with Silicone or Marprene tubing • Digital and analog process signal control 	<p> 2 years warranty 401U/D1 30 psi</p>		<p>401U/DM3 </p>
<p>500</p>	<p>Superb range of NEMA 2 and NEMA 4X rated pumps for science and industry as well as fixed and variable speed close-coupled pumps.</p>	<ul style="list-style-type: none"> • Flow rates from 0.00006 gph to 76 gph • Manual, analog and digital RS232/RS485 control • Close coupled pumps up to 124 gph - single or 3-phase; pneumatic or explosion proof motors also available • Seven pumphead options available • Dispensing pump for ±0.5% accuracy 	<p> 3 years warranty 520S/R 30 psi</p>		<p>520U/R </p>
<p>600</p>	<p>NEMA 2 and NEMA 4X mid-flow process pumps with full clean-in-place and steam-in-place capability.</p>	<ul style="list-style-type: none"> • Cased drive flow rates from 0.0003 gpm to 4.8 gpm • Manual, analog and digital RS232/RS485 control • Close coupled pumps up to 8 gpm - single or 3-phase; pneumatic or explosion proof motors also available • One minute maintenance LoadSure™ elements 	<p> 3 years warranty 620SN/RE 60 psi</p>		<p>620UN/RE </p>
<p>700</p>	<p>Industrial cased and baseplate mounted pumps for use with continuous tubing or new LoadSure elements. Three phase motors, or pneumatic.</p>	<ul style="list-style-type: none"> • Flow rates from 0.03 gpm to 8.8 gpm • Single or twin channel operation • Driven roller pumphead extends tube life • LoadSure elements ensure correct tube loading every time • Fixed or variable speed drives 	<p> 2 years warranty 704U/R and 704S/R 30 psi</p>		<p>704U/RE and 704S/RE </p>
<p>800</p>	<p>High-flow hygienic pumping using USP Class VI Bioprene tubing or STA-PURE tubing.</p>	<ul style="list-style-type: none"> • Flow rates up to 35 gpm • Full Clean-In-Place and Steam-In-Place capability • Extensive motor/gearbox control options 	<p> 2 years warranty 825 100 psi</p>		<p>840 </p>
<p>SPX</p>	<p>High flow high-pressure industrial pumps with unique patented direct coupled design. Duplex and CIP models available.</p>	<ul style="list-style-type: none"> • Flow rates to from 0.08 gpm to 400 gpm • Reinforced hoses enable pressures up to 232 psi • Fixed and mechanically or electronically variable speed drives 	<p> 2 years warranty SPX10 and 15 232 psi</p>		<p>SPX25 </p>
<p>OEM</p>	<p>A wide range of instrument quality and industrial OEM pumpheads for fitting to users own drives, or with faceplate-mounted motor options.</p>	<ul style="list-style-type: none"> • Flow rates from 0.01µl/min to 300 gpm • Single and multi-channel pumpheads • Synchronous, DC, induction, shaded-pole or stepper motors • Optional Eurocard pcb enables full controllability 	<p> 1 year warranty 100 30 psi</p>		<p>300 </p>
<p>Tubing Hoses</p>	<p>Extensive range of tubing ensures chemical compatibility. USP Class VI and FDA approvals. Precision machined, re-inforced hoses provide flow stability and excellent suction performance.</p>	<ul style="list-style-type: none"> • Twelve tubing materials in bore sizes 0.13mm to 25.4mm • Autoclavable Marprene®, Bioprene®, Sta-Pure™, Chem-Sure™ and Pumpsil™ Silicone (platinum-cured) with LaserTraceability™ • Four hose materials - Natural Rubber, Buna, EPDM and Hypalon from 10mm to 100mm bore 	<p>Marprene® 100</p>		<p>Bioprene® </p>

- Designed for continuous duty - 24 hours/7 days
- Pumps act as their own check-valves
- Self-priming up to 30 feet and dry running
- Reversible flow direction

Code descriptions eg: 101U/R = Auto/manual control variable speed with single channel pumphead

Drive

F	Fixed speed
S	Manual control variable speed
U	Auto/Manual control variable speed
Du	Digital/Auto/Manual control variable speed
Dz	Dispensing/Auto/Manual control
Di	Dispensing/Digital/Auto/Manual control
VI	Varmeca controlled
FD	Fixed speed duplex drive
P	Pneumatic
PB	Pneumatic, baseplate mounted
SN/UN/DuN/DiN (N) denotes NEMA 4X protection	

Pumphead

R	Single channel pumphead for continuous tubing
R2	Single channel pumphead for 2.4mm thick wall continuous tubing
RE	Single channel pumphead for LoadSure™ elements
CA	High precision multi-channel cassette pumphead
D1	Single channel, four roller pumphead
D	Single channel, three or four roller, 'flip-top' pumphead
DM2-3	Three channel pumphead for three bridge manifold tubing
R1	Single channel, four roller pumphead
L2	Two channel, four roller pumphead
┌	Precision 'low pulse' pumphead
VM2-4	Precision low flow multi-channel pumphead for two bridge manifold tubing



United States of America
 Telephone 800 282 8823
 Fax: 978 658 0041
 Email support@wmbpumps.com
www.watson-marlow.com

Brazil
 Telephone +55 11 4616 0404
 Fax: +55 11 4616 0403
 Email info4brazil@watson-marlow.com
www.watson-marlow.com.br

Belgium
 Telephone +32 9 225 94 57
 Fax: +32 9 233 06 49
 Email info@watson-marlow.be

China
 Telephone +86 21 6485 4898
 Fax: +86 21 6485 4899
 Email info@watson-marlow.cn
www.watson-marlow.com.cn

France
 Telephone +33 (0) 2 37 38 92 03
 Fax: +33 (0) 2 37 38 92 04
 Email info@watson-marlow.fr
www.watson-marlow.fr

Germany
 Telephone +49 (0) 2183 42040
 Fax: +49 (0) 2183 82592
 Email info@watson-marlow.de
www.watson-marlow.de

Italy
 Telephone +39 030 6871184
 Fax: +39 030 6871352
 Email info@watson-marlow.it
www.watson-marlow.it

Korea
 Telephone +82 (0) 2 525 5755
 Fax: +82 (0) 2 525 5764
 Email support4k@watson-marlow.co.uk
www.watson-marlow.co.kr

Malaysia
 Telephone +60 (3) 5635 3323
 Fax: +60 (3) 5635 7717
 Email sales@my.SpiraxSarco.com

Netherlands
 Telephone +31 (0) 10 462 1688
 Fax: +31 (0) 10 462 3486
 Email info@watson-marlow.nl

South Africa
 Telephone +27 11 794 1921
 Fax: +27 11 794 1250
 Email info@wmbpumps.co.za

Sweden
 Telephone +46 8 556 556 00
 Fax: +46 8 556 556 19
 Email info@watson-marlow.se
www.watson-marlow.se

United Kingdom
 Telephone +44 (0) 1326 370370
 Fax: +44 (0) 1326 376009
 Email support@watson-marlow.co.uk
www.watson-marlow.co.uk

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Watson-Marlow Bredel ...

With 60% fewer roller passes than our competitors, our pumps deliver 2½ times the tube life.

So the best pump really does cost less. Call us for the proof. It all adds up to –

Value for life

The information in this brochure is intended for general sizing. You should always seek the advice of a Watson-Marlow Bredel representative or the technical support department when matching a pump to your requirements.

Full range of literature includes

Capabilities brochure

Encompasses what has made Watson-Marlow Bredel so successful in solving fluid handling problems worldwide.



Industry sector brochures

Outlining benefits of peristaltic pumping which are important to these industries, with application examples and customer testimonials.

- Food and Beverage
- Brewing
- Water and Waste
- Pharmaceutical and Biotechnology
- Print and Packaging
- Chemical
- Ceramics
- Pulp and Paper
- Paints and Pigments
- Engineering



Technical binders

We have three types of technical data binders which include products specifically tailored to your industry.

- Scientific
- Industrial
- Combined

New product launch literature

- NEMA 4X tough washdown pumps
- 520 biopharm and process pumps
- Pumpsil platinum-cured tubing



Every peristaltic pump for science

A specialized range of products dedicated to science and laboratories



OEM pumps

Specifications and engineering detail for customers who are building pumps into their equipment

