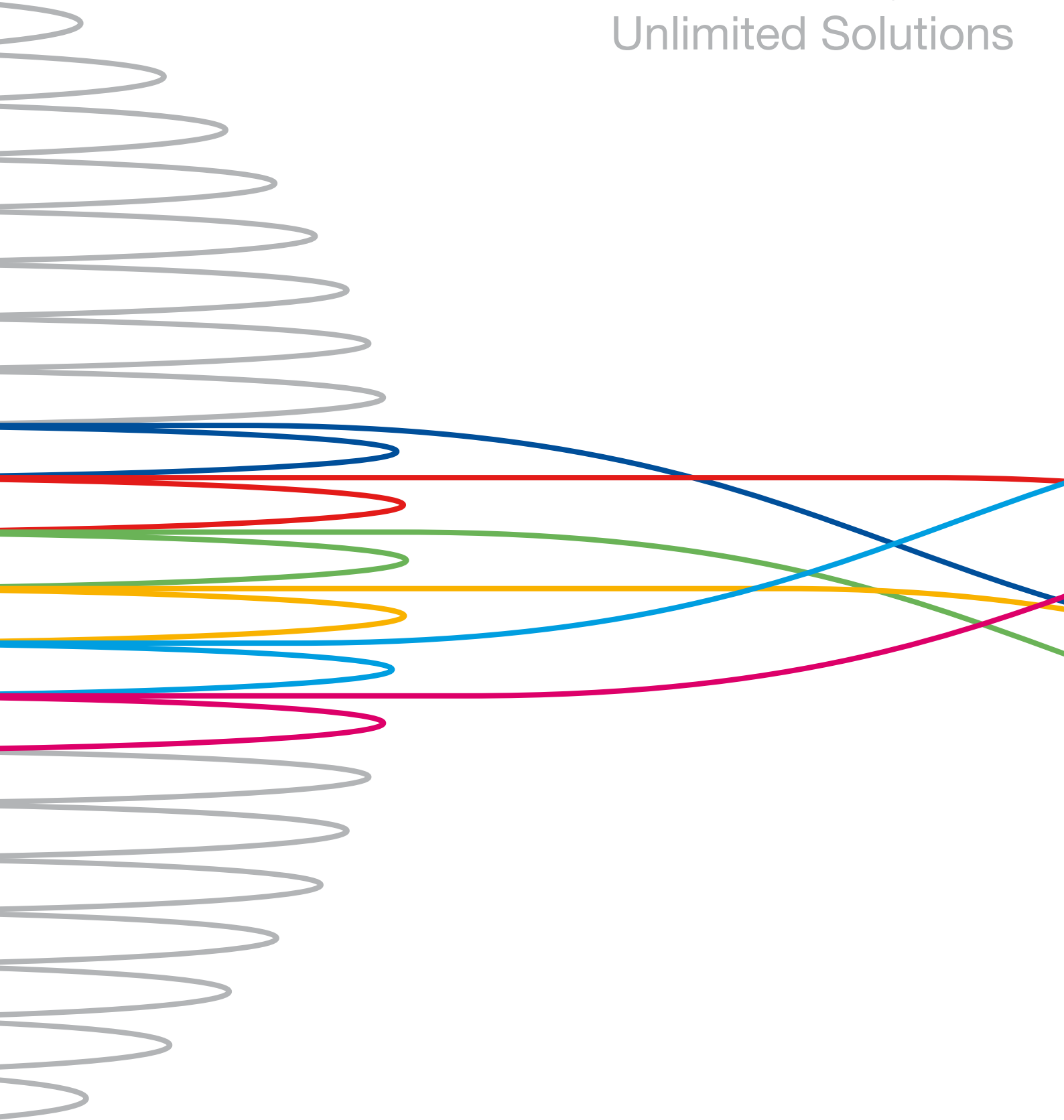
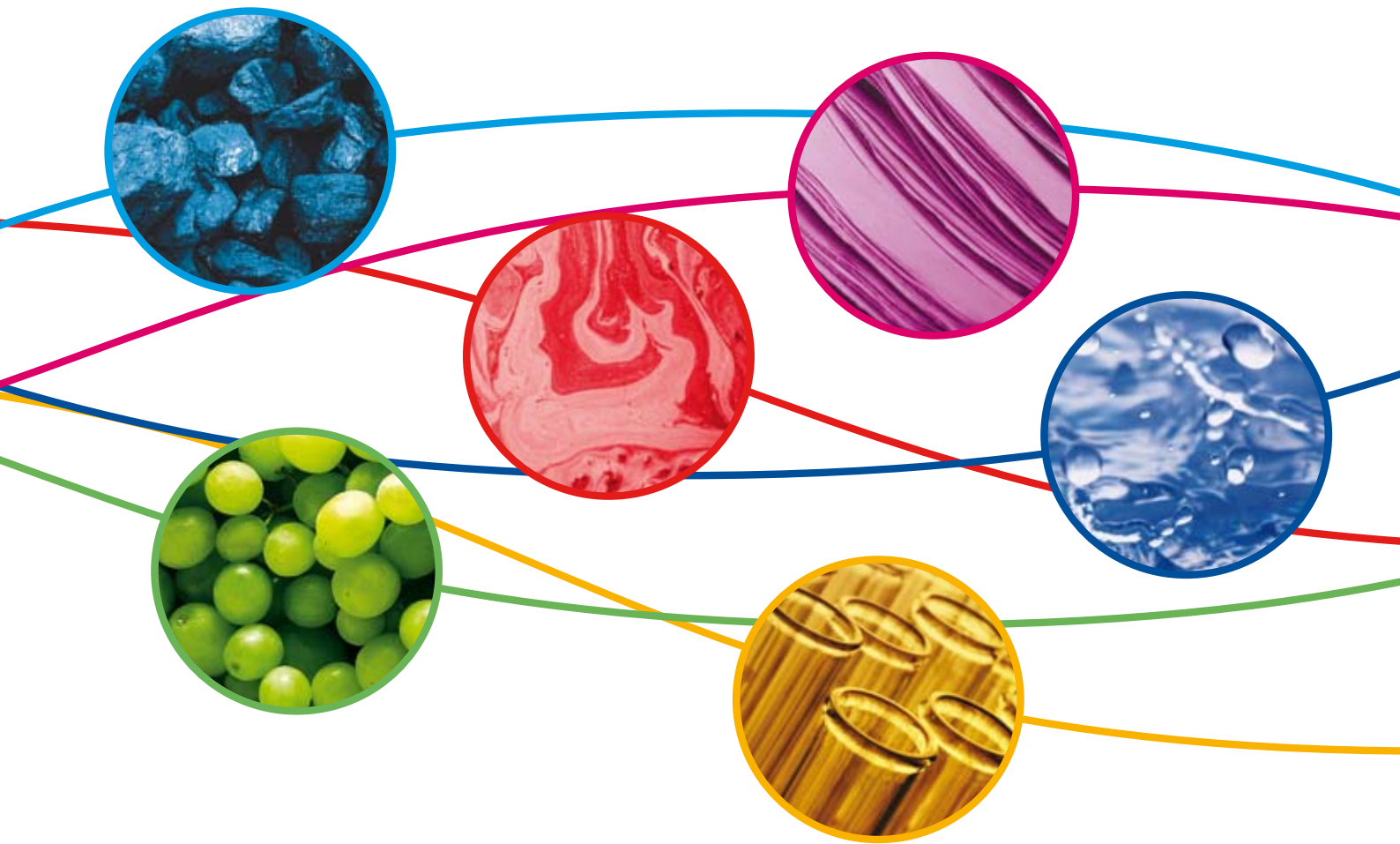


One Company,
Unlimited Solutions



NOV Monoflo[®]

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Water & Waste Water

Oil & Gas

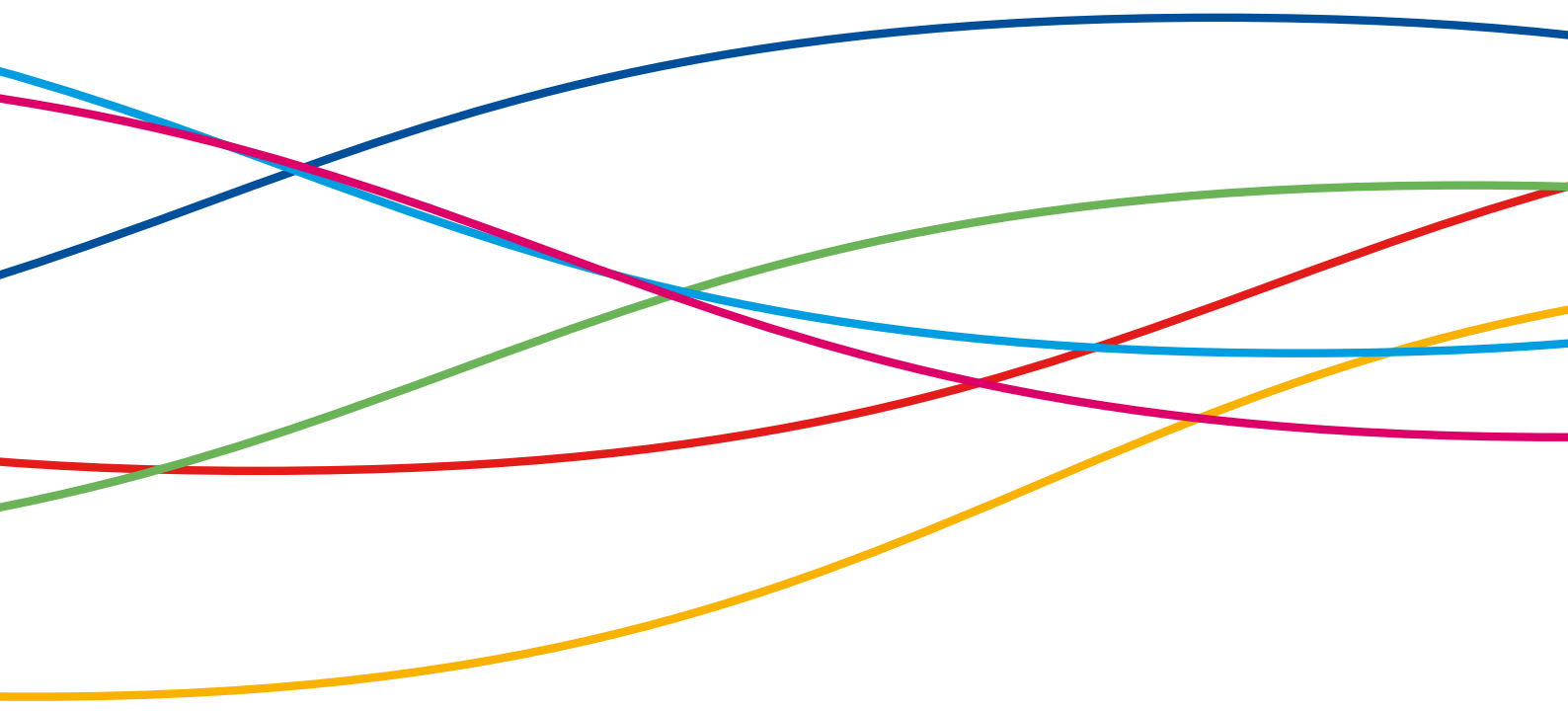
Food & Beverage

Chemical & Pharmaceutical

Mining & Mineral

Pulp & Paper

Agriculture



Who is NOV Monoflo?

Monoflo is a leading name in the design, manufacture and distribution of progressing cavity pumps, parts, grinders, screens and packaged systems, worldwide.

We are unique in providing a comprehensive range of solutions for the multiple application requirements of today's industries, including water supply & waste water, oil & gas, food & beverage, pulp & paper, chemical & pharmaceutical, mining & mineral and agriculture.

Our experience in these industries allows us to have an in-depth understanding of your needs, providing a customer focused solution.



Our History

Monoflo first began manufacturing progressing cavity pumps in 1935. We have continued to engineer industry-leading pump ranges for over 70 years, together with our other recognized brands for grinders, screens and packaged pumping systems. We have a proven history of providing quality products with an unrivalled service.

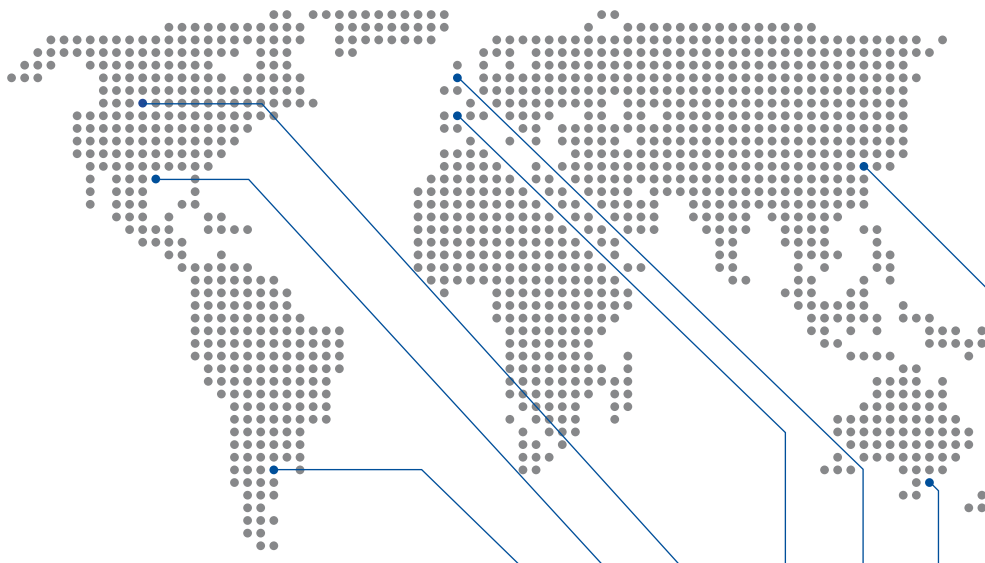
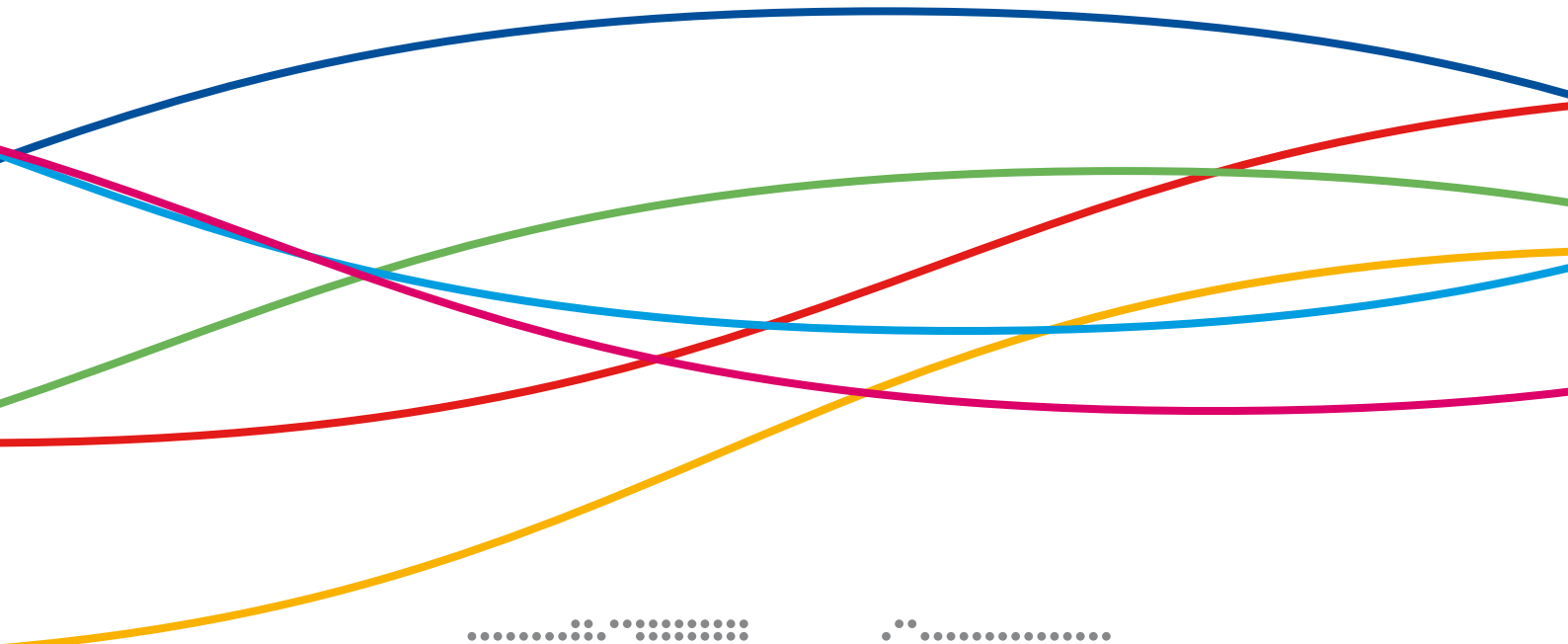
Capabilities and Expertise

Monoflo manufactures all the key components for progressing cavity pumps, so we are in a unique position to closely control the quality and integrity of our products to ISO 9001:2000 standards. Qualified and experienced personnel offer expert advice and pre-sales assistance.

Our People

We are passionate about providing the right solutions for your business. Our experience and expertise is unparalleled; we offer a world-renowned level of service that truly is second to none.

This experience continues to evolve through our commitment to training schemes and personal development, which is testament to our investment in engineering knowledge and expertise. Developing the engineering talent of the future is built into our overriding philosophy.



National Oilwell Varco

Monoflo's heritage and global success is further enhanced by National Oilwell Varco (NOV), our parent company.

NOV is a leading provider of oilfield products and services to the oil and gas industry, with more than 140 years' experience. They have over 25,000 employees around the world with revenues in excess of \$7 billion.

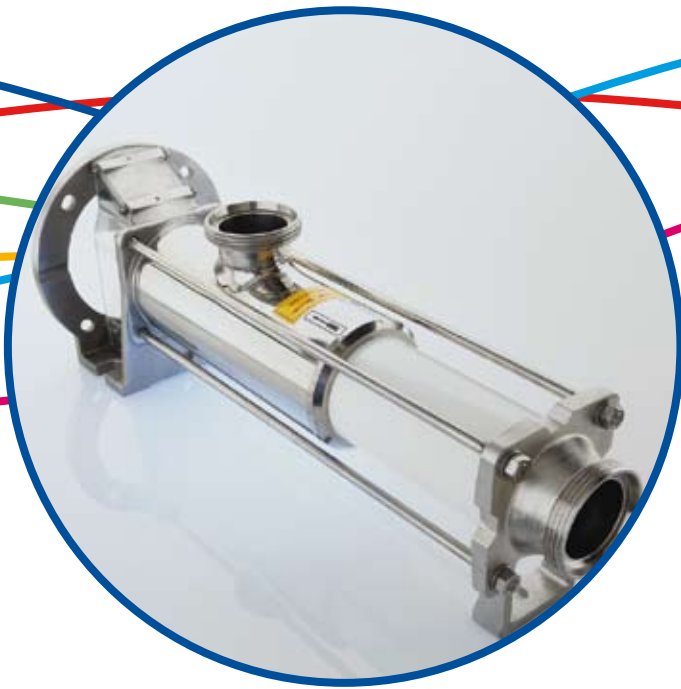
Global Reach



Monoflo has a global network of manufacturing plants, offices and distribution centres, with sites based in:

- Houston, USA
- Lloydminster, Canada
- Buenos Aires, Argentina
- Manchester, UK
- Rebeuville, France
- Melbourne, Australia
- Auckland, New Zealand
- Shanghai, China

In addition to our own extensive network, Monoflo enjoys a number of partnerships with leading distributors around the world, meaning customers can take advantage of Monoflo's vast expertise and product range, with a local personal service.



Product Range

Monoflo's heritage is built on the progressing cavity pump principle: a single helix rotor that revolves eccentrically inside a double helix stator, creating a continuously forming cavity as it rotates. This world-renowned design is complemented by our other product ranges of grinders, screens and packaged systems.



Pumps

Heavy duty industrial transfer pumps

Constructed with interchangeable components, sealed pin joints or a PowerDrive™ transmission, these are designed to offer reliable operation and a long service life for a wide variety of applications.

Light duty industrial transfer pumps

Designed for use where low flow or transfer duties in both domestic and industrial applications are required, these pumps are easy to maintain and can fit into small spaces.



Widethroat pumps

Featuring an enlarged inlet and screw conveyor to assist viscous products into the pumping element, these can handle dry solids approaching 40%, such as slurries or thick non-flowing pastes.

Metering pumps

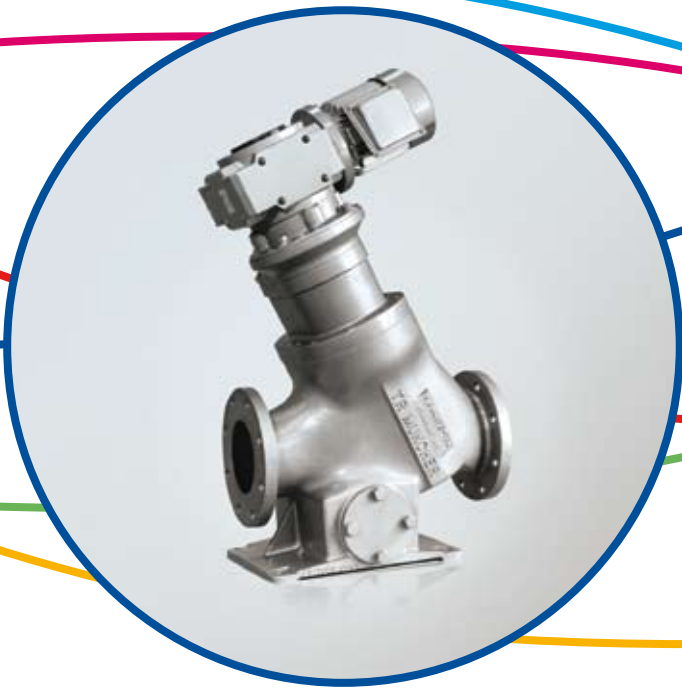
Ideal for use where accurate, low flow pumps are required for either intermittent or continuous dosing.

Hygienic pumps

Manufactured from food-approved materials, these have a polished stainless steel construction and a one-piece suction chamber to reduce the risk of product contamination.

Solar pumps

Designed to supply water from wells or rivers for stock watering, domestic water supply and irrigation systems. Our solar products have been used in some of the most remote and inhospitable regions of the world and have helped thousands solve their water pumping problems.



Munchers

A range of twin shaft, low speed, high torque grinders that crush, crop and shear solids to a small particle size. Munchers have been used for over 40 years for protecting pumps and/or downstream process equipment.



Screens

Monoflo manufactures screens with intermeshing discs and a self-cleaning operating principle. This eliminates the need for frequent raking usually associated with inlet works or pump station applications.

For storm overflows, our flow-powered screen requires no electrical installation or running costs.

When full extraction of screenings is needed, Monoflo can also supply a combination of screen, Muncher and screw extractor for screenings removal.



Packaged Pump Systems

The combination of a Monoflo PC pump with a macerator or Muncher offers you a packaged pumping system that efficiently macerates and transfers sewage through small bore pipework.

Pressure Sewer Systems are an alternative to traditional sewer systems in countries where conventional sewer technologies will not operate. Raw sewage is moved under pressure into the pressure sewer system.



Monoflo Genuine Spare Parts

Customers can be assured of quick availability and delivery. In-house manufacturing gives Monoflo full control of all major parts, ensuring accurate tolerances and correct material specification.

For a greater choice of quality parts, we also manufacture and supply Monoflo Genuine Spares for other brands of PC pumps.

Replacement parts for Monoflo twin-shaft grinders are interchangeable with the majority of pipeline and channel style units currently in service.

As with all Monoflo products, our twin-shaft grinder renewal parts are affordably priced and guaranteed to outperform those of the competition.

You now have the flexibility to choose Monoflo as a parts supplier for a whole range of competitively priced progressing cavity pump and grinder parts.



Service and Support

Monoflo can offer additional levels of customer support, including renewal, replacement or upgrading of equipment, with an unprecedented product and service offering to ensure total customer satisfaction.

Aftermarket Support

Our services include:

- A full service exchange package for progressing cavity pumps and grinders
- A standard 12-month warranty on all Monoflo products, with extended warranties available on selected items
- Renewal parts which can be purchased direct from Monoflo calling +1 281 200 1200 or via our distributor network

Monoflo can provide a direct replacement pump that is dimensionally interchangeable with some of the most common progressing cavity pumps.

The Monoflo XL Frame and Monoflo XL pumps are a direct replacement for both competitor and Monoflo pumps installed throughout North America.

For twin-shaft grinders, Monoflo supplies a variety of direct replacement cutter cartridges and configurations of pipeline and in-channel grinders. We offer new and service exchange units faster and at a significant savings compared to our competition.

All products purchased from Monoflo, or distributors, are fully supported by the customer service facilities within the Monoflo Group.

Our goal is to keep your equipment working efficiently, to ensure long, trouble-free operation.



Applications

Our extensive application experience includes:

Water & Waste Water

Domestic sewage, inlet screening, primary sludge, secondary sludge, dewatered sludge cake, polyelectrolyte dosing

Oil & Gas

Heavy oil production, wells with viscous and/or abrasive fluids, coalbed methane gas well dewatering

Food & Beverage

Dairy products, meat and animal by-products, vegetables, sauces, bakery products, confectionery, wine, beer and spirits

Chemical & Pharmaceutical

Phosphoric acid, alum, caustic solutions, diesel fuel oil, petroleum spirit, glycol, shampoo, ethylene, ferric chloride

Mining & Mineral

Explosive emulsions, slurries, mine dewatering, polyelectrolyte flocculent, china clays, cements, pastes

Pulp & Paper

Latex, clay slurry, ceramic slip, coating mixes, bentonite slurry, starch, titanium dioxide

Agriculture

Domestic and stock water supply, agricultural slurries, tankered agricultural effluent

If you think your business could benefit from our world-class service, please contact a local Monoflo office or log on to www.monoflo.com



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Americas

NOV Monoflo, 9606 Kirkton
Houston, Texas 77095, USA
T. +1 281 200 1200
E. inquire@monoflo.com

Monoflo S.A., Ing Huergo 2239
(1842) Monte Grande
Pcia. de Buenos Aires, Argentina
T. +54 11 4290 9940/50
E. info@monoflo.com.ar

NOV Monoflo, 5702 63rd Ave
Alberta, Lloydminster, T9V0Y4 Canada
T. +780 875 5504
E. info.monoflo@nov.com

Europe

Mono Pumps Ltd, Martin Street, Audenshaw
Manchester, M34 5JA, England
T. +44 (0)161 339 9000
E. info@mono-pumps.com

D.M.I EST, 56, rue du Pont
88300 Rebeuville, France
T. +33 (0)3 29 94 26 88
E. dmi-est@dmi-est.fr

Australasia

Mono Pumps (Australia) Pty Ltd
Mono House, 338-348 Lower Dandenong Road
Mordialloc, Victoria 3195, Australia
T. 1800 333 138
E. ozsales@mono-pumps.com

Mono Pumps (New Zealand) Ltd
PO Box 71-021, Fremlin Place, Avondale
Auckland 7, New Zealand
T. +64 (0)9 829 0333
E. info@mono-pumps.co.nz

Asia

Mono Pumps Ltd, No. 500 YaGang Road
Lujia Village, Malu, Jiading District
Shanghai 201801, P.R. China
T. +86 (0)21 5915 7168
E. monoshanghai@nov.com

www.monoflo.com



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Monoflo® products are marketed outside North America under the mark Mono®.

Literature reference: MFI-Corporate 2009 R2

Monoflo®, Muncher® and PowerDrive™ are registered trademarks of Mono Pumps Ltd.

The logo consists of the word 'NOV' in a stylized font with a red circle containing a white dot, followed by the word 'Monoflo' in a bold, blue, sans-serif font with a registered trademark symbol.

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