

PROGRESSIVE CAVITY PUMPS FOR INDUSTRIAL PROCESSES

NOV Mono pump technology for delivering and dosing solids-laden, abrasive and viscous media.



Water treatment



Environmental technology



Mining & construction



Chemical



Petrochemical



Food & beverage



NOV Mono



ROBUST AND COST-EFFECTIVE

NOV Mono is a global manufacturer of process technology for fluid handling in a wide range of industries. Progressive cavity pumps are particularly suitable for delivering and dosing solids-laden, abrasive and viscous media.

You can choose from a range of models that cover a variety of industrial applications. NOV Mono also offers specialised delivery and dosing technologies for the food and beverage industry as well as for the pharmaceutical sector.

- ✓ Resistant components
- ✓ Reduced maintenance
- ✓ Valveless delivery technology
- ✓ Low-pulsation delivery
- ✓ For shear-sensitive substances
- ✓ Delivery of media with a high solids content

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NOV MONO PROGRESSIVE CAVITY PUMPS

Efficiency and safety for hygienic industrial processes



Progressive cavity pumps from NOV Mono

The positive displacement pumps can be easily integrated into existing process structures. Horizontal pump designs, an enlarged inlet cross-section or the mobile design allows maximum flexibility.

Reliable delivery

Progressive cavity pumps are capable of reliable and consistent delivery and dosing of media of different viscosities and solid contents. The stator and rotor are designed so that even shear-sensitive solids are completely preserved.

Wide range of applications

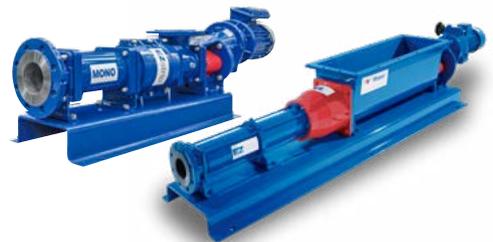
The pump technology in NOV Mono can be integrated into a wide range of industrial applications. Specially designed delivery technologies can also be used in potentially explosive, hygienic or pharmaceutical areas.

Low maintenance

The process technology offers an impressively long service life. All rotating components can be replaced quickly on site.

Pumps for industrial applications

With a maximum fluid flow rate of 450 m³/h and pressure levels of up to 48 bar, media such as slurries, flocculants and chemicals can be transferred reliably. The pumps are available in cast iron, stainless steel and WRAS-compliant elastomers.



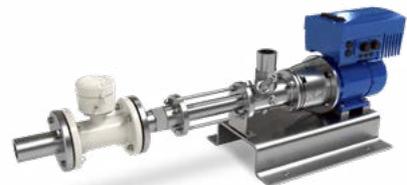
Pumps for hygienic processes

Progressive cavity pumps for hygienic processes have a 316L stainless steel casing as well as abrasion-resistant and FDA-compliant stator elastomers. Shear-sensitive solids up to 25 mm in size can be transferred with the hygienic series.



Metering pumps for small quantities

The pulsation-free, valveless transfer technology can dose fluids with extreme precision. Components made of 316L stainless steel, PVDF and Hastelloy enable use in hygienic and chemical applications.





NOV MONO PROGRESSIVE CAVITY PUMPS

Intelligent components for greater efficiency Flexishaft and EZstrip increase productivity and extend service life

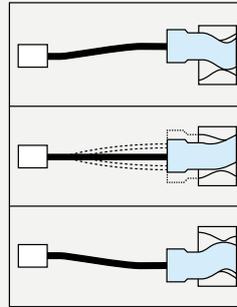
Sectional casing

NOV Mono offers an innovative series that can be serviced when installed. This function significantly reduces maintenance costs, as maintenance work can be carried out in a few simple steps. The patented function, known as EZstrip, can also be installed retrospectively on the basic NOV Mono Compact C series.



Flexishaft

The Flexishaft is the component that connects the drive with the rotor. This technology replaces the classic dual drive or transmission joint. The Flexishaft requires no moving parts, so wear and the risk of contamination can be reduced to a minimum. The component is made of an HV material and has an abrasion- and corrosion-resistant coating to protect it.



Flexible and reliable

The Flexishaft can also be installed retrospectively without any problems. On this component, NOV Mono offers an extended **warranty of up to 10 years.**

APPLICATIONS OF PROGRESSIVE CAVITY PUMPS

Industries	Features
 Water and sewage treatment	Pump applications also include the industrial and commercial treatment of water and sewage, for example by municipal utility companies. This includes the transport of water and sewage, which is loaded with solids such as pulp, as well as the disposal of sludge created during the highly specialised process of water treatment.
 Paper and pulp processing	In paper and pulp processing, suspensions are delivered with a high solids content. These suspensions are particularly viscous due to the solids and make pump delivery much more difficult. Paper pulp often gets stuck in the pump delivery area and clogs the process technology. Blocking solids can be removed using progressive cavity pumps without much effort. Intelligent mechanisms enable maintenance to be carried out directly on the plant.
 Food and beverage production	With constantly low pressure levels, progressive cavity pumps are suitable for the production of food and beverages. Media can be delivered gently by the eccentric rotary movement. For example, shear-sensitive components of yoghurt products are preserved during delivery. Processed materials such as 316L stainless steel and FDA-compliant elastomers ensure a contamination-free production area.
 Personal hygiene products	Thanks to the pulsation-free delivery, progressive cavity pumps are also suitable for transferring and dosing pastes and creams. The ingredients of cosmetic products can be evenly distributed in the end product thanks to the constant transferring technology, ensuring consistent product quality.
 Chemical and petrochemical industry	Progressive cavity pumps can not only deliver large amounts of fluid, but also dose with extreme precision. This characteristic is required increasingly in the chemical and petrochemical industries. Progressive cavity pumps ensure the exact dosing of ingredients that must be contained in a defined concentration in the final product.



NOV MONO PROGRESSIVE CAVITY PUMPS

The right series for every application

NOV Mono EZstrip

With an innovative mechanism for faster maintenance, the EZstrip series from NOV Mono is a real highlight. The new transfer technology can be dismantled even faster than other progressive cavity pumps and is also available in the API 676 version.



NOV MONO EZSTRIP	
FLOW RATE	up to 225 m ³ /h
PRESSURE LEVELS	up to 12 bar
TEMPERATURE	-10 to 100 °C



Water treatment



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Mining & construction

NOV Mono EZstrip cake pump

The EZstrip hopper pump has a specially developed filling chamber that allows easy access to the rotor and stator without disassembling the suction and pressure lines. The pump is suitable for delivering various media with viscosities up to 1,000,000 mPas.



NOV MONO EZSTRIP CAKE PUMP	
FLOW RATE	up to 49 m ³ /h
PRESSURE LEVELS	up to 24 bar
TEMPERATURE	-10 to 100 °C



Water treatment



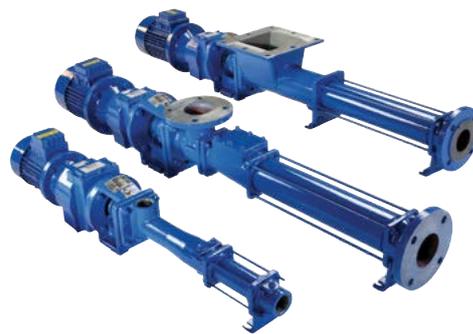
Environmental technology



Mining & construction

NOV Mono Compact C

A low-cost progressing cavity pump with a compact design and all the necessary functions for maximum performance. For applications with a higher dry matter content, a square hopper inlet is available.



NOV MONO COMPACT C	
FLOW RATE	up to 450 m ³ /h
PRESSURE LEVELS	up to 24 bar
TEMPERATURE	-10 to 100 °C



Water treatment



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NOV MONO PROGRESSIVE CAVITY PUMPS

NOV Mono W hopper pump

The NOV Mono W series has a large inlet cross-section for highly viscous media. Dry matter content of up to 85% can be delivered with bridge breakers or hoppers. Designed for low speeds to conserve shear-sensitive media.

NOV MONO W HOPPER PUMP	
FLOW RATE	up to 215 m ³ /h
PRESSURE LEVELS	up to 48 bar
TEMPERATURE	-10 to 100 °C



Water treatment



Environmental technology

NOV Mono Epsilon

The Epsilon series offers low operating and maintenance costs. The pumps are also equipped with the innovative Flexishaft technology. The Flexishaft reduces the number of wear parts between the drive and the transfer chamber and enables a long service life.

NOV MONO EPSILON	
FLOW RATE	up to 420 m ³ /h
PRESSURE LEVELS	up to 24 bar
TEMPERATURE	-10 to 100 °C



Water treatment



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Petrochemical

NOV Mono hygiene pump

This progressive cavity pump is designed for different hygienic processes. Transfer technology components are made of 316L stainless steel and abrasion-resistant, FDA-compliant elastomers. The hygienic series transfers media with a high solids content and liquids with air and gas cavities.

NOV MONO HYGIENE PUMP	
FLOW RATE	up to 92 m ³ /h
PRESSURE LEVELS	up to 12 bar
TEMPERATURE	0 to 100 °C



Food & beverage



Chemical



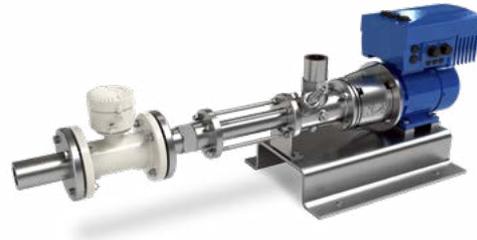
Water treatment



NOV MONO PROGRESSIVE CAVITY PUMPS

NOV Mono Metering pump L

The process technology is suitable for applications where low flow rates need to be dosed with precision. The pump has an accuracy of $\pm 1\%$ and features pulsation-free operation. Components made of 316L stainless steel, PVDF and Hastelloy enable the pump to be used in the chemical and pharmaceutical industry.



NOV MONO EPSILON	
FLOW RATE	up to 1.29 m ³ /h
PRESSURE LEVELS	up to 24 bar
TEMPERATURE	0 to 100 °C



Chemical



Water treatment



Environmental technology



Food & beverage

NOV Mono M

Progressive cavity pumps in the M series are small and offer an economical solution for industry and trade thanks to their compact design and technical specifications. The reduced number of components extends service life and significantly reduces maintenance costs.



NOV MONO EPSILON	
FLOW RATE	up to 3.5 m ³ /h
PRESSURE LEVELS	up to 5 bar
TEMPERATURE	0 to 70 °C



Mining & construction



Environmental technology



Chemical

Spare parts and service kits

For the long-term, constant efficiency of process technology

NOV Mono spare parts and service kits

NOV Mono offers a wide range of spare parts and service kits for every series. From rotors to the smallest pump components such as mechanical seals.

- ✓ Original spare parts
- ✓ Wide range of moving parts
- ✓ Retrofit kits for the Flexishaft





NOV MONO PROGRESSIVE CAVITY PUMPS

Available directly from stock

We always keep a variety of pumps and spare parts in stock

Short delivery times – fluidity.nonstop

Process applications must be able to run smoothly at all times. We also keep our service promise when delivering our products and spare parts.

Our highly efficient European Distribution Centre provides unique service throughout Europe, enabling us to supply pumps and spare parts to our customers both smoothly and quickly. Usually within 24 hours.



European
Distribution Centre

- ✓ Shipment within 24 hours
- ✓ Direct contact person
- ✓ Europe-wide supply
- ✓ Pumps and spare parts



Assembly & Service

We are service partners for progressive cavity pumps

AxFlow Service

With more than 50 years of experience in the field of pump technology, our service partner AxFlow Service offers comprehensive assembly and service for progressive cavity pumps.

Our service technicians can also retrofit the Flexishaft in progressive cavity pumps.



Assembly and
complete systems

- ✓ Service throughout Ireland
- ✓ On-site maintenance available
- ✓ Fast and secure service

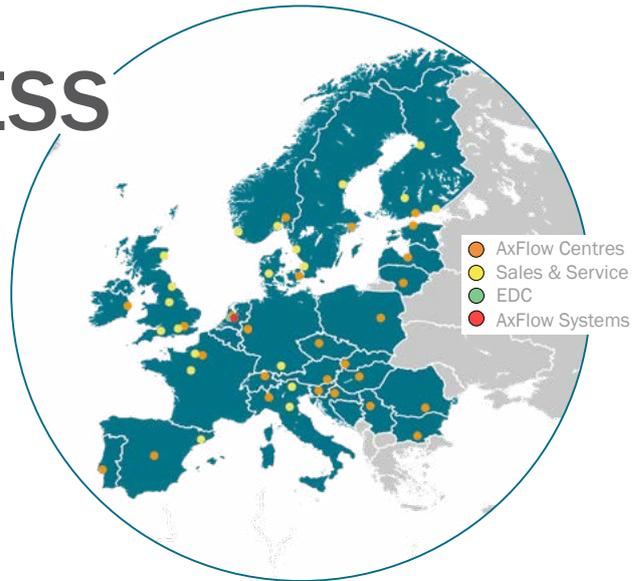


OUR EXPERIENCE FOR YOUR PROCESS

AxFlow – a strong brand for Europe

AxFlow is an experienced, specialist supplier of industrial pumps, mixing technology, valves, heat exchangers, homogenisers, and high-performance systems you need for the processing of fluid and high-viscosity media.

With more than 30 locations in Europe, South Africa, Australia and New Zealand, we sell the products of market leaders – reliably and exclusively.



Technical advice and design

We will be happy to help you choose the best products for your specific application. Our trained specialists have extensive knowledge and experience to advise you individually. Direct and personal communication is the top priority at AxFlow.



European Distribution Centre

We offer a unique service advantage from our European Distribution Centre: Almost all our important products – pumps and components – are available directly from stock. In most cases, your order will reach you within a few days.



Installation, repair and maintenance

We take care of far more than just the supply of high-quality equipment and associated spare parts. AxFlow also provides maintenance and, if necessary, repairs and overhauls – with AxFlow Service.



Assembly and complete systems

Our team at AxFlow Systems will take care of the assembly for you. You will receive a fully prepared pump unit in the shortest possible time. AxFlow should be your first point of contact for complex, state-of-the-art systems.

We look forward to your call!

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Further information about our products can be found at:
www.axflow.ie



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NOV MONO website

1) All certifications and standards listed for each product are certified by the manufacturer of each product and remain the manufacturer's liability.

fluidity.nonstop® is our promise of comprehensive service, specialist advice and expert knowledge of your processes and products. We are backed by decades of experience and technology from the world's leading manufacturers. AxFlow is your first point of contact for industrial pumps, mixing technology, heat exchangers, homogenisers, valves and high-performance systems for handling fluids.

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