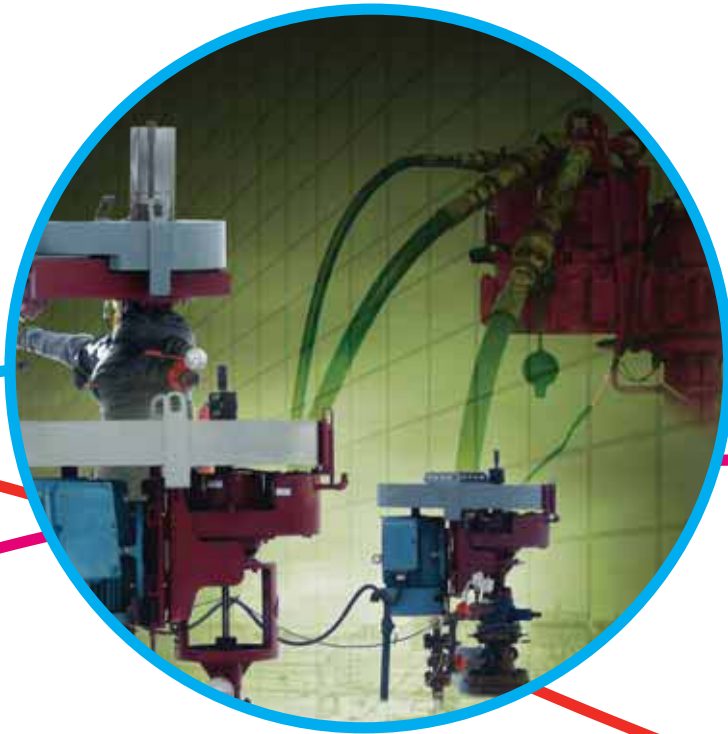


Artificial Lift

PC Pump Driveheads





NOV Monoflo is a leading name in the design, manufacture and supply of progressing cavity pumps, grinders, screens and packaged solutions worldwide. We have 8 international sites and a global distribution network, as well as over 70 years experience in providing a range of products for multiple application requirements of today's industries.

Our strong heritage and global success is recognised and supported by our parent company National Oilwell Varco (NOV), who are world leaders in the oil and gas industry.

NOV Monoflo provides a complete line of artificial lift technologies and oilfield equipment through over 30 service centre locations across Canada and more than 150 locations around the globe.

Production Solutions

Our Wellhead range of drives are specifically designed for use with progressing cavity pumping systems. Innovative product engineering and quality manufacturing processes result in durable, high performance pumping systems that provide years of reliable service.

Our driveheads were developed for oil and gas producers who demand more from their pumping systems. Both our hydraulic and electric driveheads were designed with robust, long life field duty in mind.

Hydraulic Wellhead Drives

NOV Monoflo's hydraulic wellhead drives consist of a hydraulic drivehead powered by a skid-mounted hydraulic power unit. We offer two hydraulic driveheads – the GC-33 and the HTD. Both feature various hydraulic motor sizes for a wide range of speeds and torques. The CG-33 is a gearbox design, featuring a hydraulically pressurized stuffing box system to provide durable service in the most severe pumping applications.

The HTD is a traditional belt and pulley style drivehead. A completely enclosed belt guard protects personnel from any moving parts. The drive can be assembled with a standard rope style packing stuffing box or with Monoflo's integral or retrofit stuffing box.





Electric Wellhead Drives

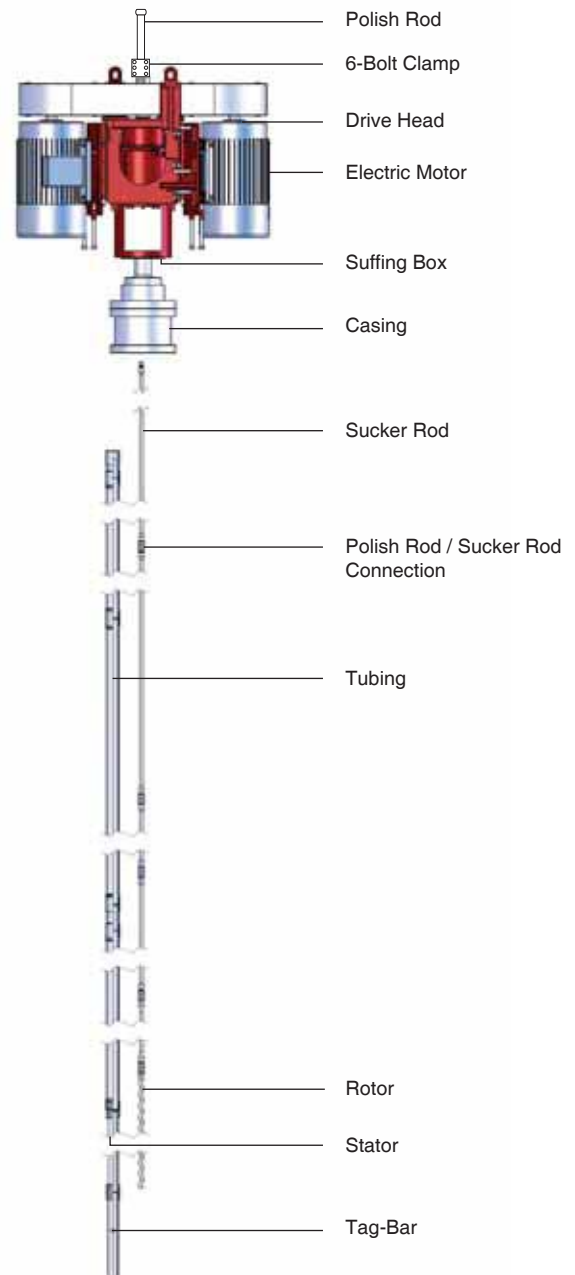
NOV Monoflo's direct driveheads employ electric or hydraulic prime movers coupled to the drive by belts and sheaves. They were designed for the full range of diverse pumping applications being generated by today's oil and gas producers. Our electric driveheads have easily adjustable and accessible motors and the belts and sheaves are fully enclosed for personal protection.

The drives can be assembled with standard rope style packing or with our environmental integral or retrofit stuffing box. As producers subject driveheads to larger pumps and deeper wells, the need for a reliable braking system has increased. Monoflo has incorporated the proven principle of the hydrodynamic brake into the C Series direct drives.

Braking action is safe and reliable with smooth backspin control, eliminating wear on the brake components. Braking force decreases as the torque in the well is released, allowing the fluid to drain from the tubing as completely as possible. No energy is stored in the drive after backspin is complete and no adjustments or brake maintenance is required.

Backspin on the N-Series driveheads is controlled hydraulically and engages automatically when the unit begins to backspin.

Typical PC Pump Assembly



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Literature reference: MFI-Corporate 2007

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The logo consists of the word 'NOV' in a bold, sans-serif font with a red circle containing a white diagonal line through it, followed by the word 'Monoflo' in a larger, blue, sans-serif font with a registered trademark symbol (®).

One Company, Unlimited Solutions