Mach 1 Horizontal Pumping System



Move your operations forward at the speed of sound with our re-engineered solution.

Our Mach 1^{TM} Horizontal Pumping System (HPS) pushes performance boundaries with unmatched simplicity, interchangeable components, and integrated remote capabilities.

Our modular design serves a wide range of pressures and flows to cover many applications. The base skid can also be quickly modified onsite to match your operational parameters. To keep you connected to your assets at all times, the equipment may be pre-wired for instrumentation and Guardian™ automation and control for HPS.

The Mach 1 provides site flexbility and reduced lead times. Our HPS thrust chamber is assembled with top-brand, angular contact bearings. The skid system also features a rigid steel frame and modular components, which were designed using the latest 3D modeling software and Finite Element Analysis. This helps to resist motor torsion and limits vibration to extend pump life.

The new Mach 1 HPS product line complements the already vast pump portfolio that NOV offers to ensure you get the right pump for the right application, every time.

Work smarter, not harder

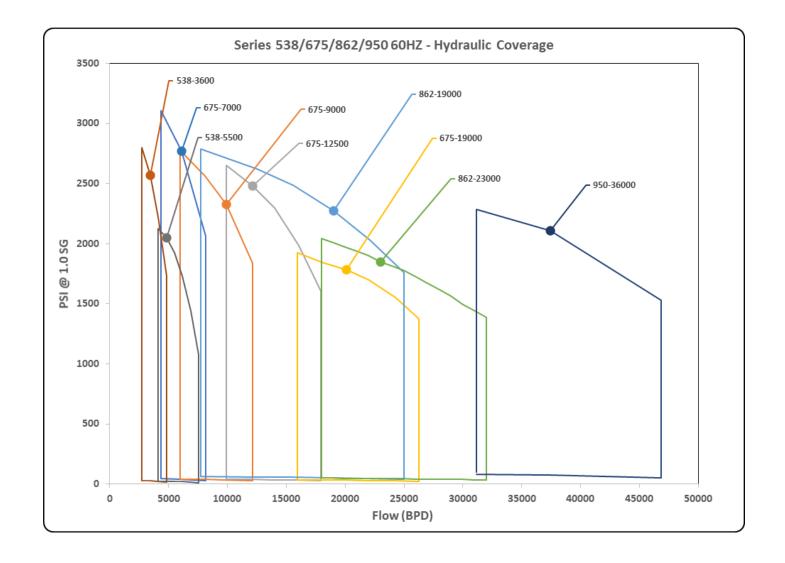
- GoConnect[™] equipment monitoring solution powered by NOV
 Max. Reduce maintenance costs, extend the life of your assets, and
 avoid unplanned downtime.
- Exceed your production goals with the unmatched capabilities of our Guardian™ automation and control.

HPS applications:

- Saltwater disposal
- Crude oil pipeline
- Natural gas pipeline
- · Lean amine
- Enhanced oil recovery (CO₂ and water injection)

Features and benefits

- OEM-agnostic components
 - · Interchangeable fluid end and thrust chamber
- Robust, adaptable—steel frame and modular sections
 - Provides easy, streamlined installation for foundation, building, or trailer locations
- Centrifugal pump with impellers and diffusers
 - Eliminates daily maintenance costs, lowers environmental impact
- Minimal vibration operation
 - Increases meantime between failures and extends run life
- Back pull out thrust chamber design
 - Allows fast field service and repair while not disturbing the pump or piping



Mach 1 Horizontal Pumping System Specifications

Performance

Capacity	105-1050 gpm
Discharge pressure	Up to 4,000 psi
Suction pressure	Up to 1,000 psi
Temperature range	20 to 280F°
Power	Up to 1,500 hp
Testing capability	Up to 1,000 hp

Materials

Impellers and diffusers	Ni-Resist, duplex stainless steel
Shafts	Monel®, Inconel®
Suction and discharge	316 stainless steel
Sleeve bearings	Ni-Resist, tungsten carbide
Flanges	ANSI 150 up to 2,500 RF and RTJ
Barrel housing	Carbon steel stainless steel