



MOYNO

Always the Right Solution™

Moyno® 2000 Pumps



**JROBBINS
TMYERS**

Fluid Management Group

Moyno® 2000 Pumps

Offer Superior Pumping Performance

Moyno® 2000 pumps set the standard in positive displacement pumping applications. The proprietary Moyno 2000 gear-type universal joint design effectively handles radial and thrust loads for maximum performance and long life. These rugged pumps are able to handle abrasive materials in excess of 80% solids and offer a performance range to 4,500 GPM with pressure to 1,500 PSI.

By incorporating advanced technology, superior design and proprietary manufacturing processes, Moyno 2000 pumps offer the best value, and the most effective pumping solutions for the most extensive range of applications to satisfy all of your pumping needs.



Features & Benefits

Moyno 2000 Pumps offer maximum performance, value and application versatility with minimum maintenance.

- Sealed gear-type universal joint drive train effectively handles radial and thrust loads in the most demanding applications
- Low total cost of ownership
- Superior abrasion resistance
- Pump municipal sludge in excess of 50% solids further distances with higher volumetric efficiencies than any other progressing cavity pump
- Standard flange and close-coupled models available
- Open inlet configurations in 1-, 1.5- and 2-meter lengths to align with standard feed areas from centrifuges
- Independently driven bridge breakers for high viscosity, solids-laden fluids to eliminate product bridging

Typical Applications

Municipal Wastewater Treatment

- Municipal sludge
- Lime slurry dosing
- Filter press & incinerator feeds
- Raw sewage transfer

Paper

- Adhesives
- Coatings
- Latex
- Starch

Oil and Gas

- Crude oil transfer
- Treater battery system
- Oil/water separation

Food

- Ground meat emulsions
- Sauces and juices
- Grape must
- By-products and wastes

Chemical

- Caustics
- Detergents
- Paint
- Solvents

Building Materials

- Gypsum
- Plaster
- Resins

General

- Clay slurries
- Deicing fluids
- Hazardous waste
- Industrial sludges

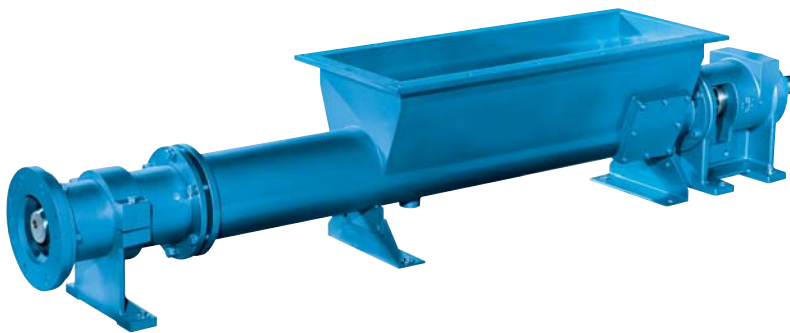


Moyno® 2000 CC Pumps

The Moyno® 2000 CC Pump provides unmatched performance in a compact, close-coupled configuration.

It is designed for municipal and industrial applications where close-coupled configurations are preferred, but the robustness of a gear joint drive is needed. The Moyno 2000 CC features a

sealed gear-type universal joint drive train and optimized rotor/stator pumping element geometry. The pump is designed to efficiently transfer a broad range of viscosities and solids.

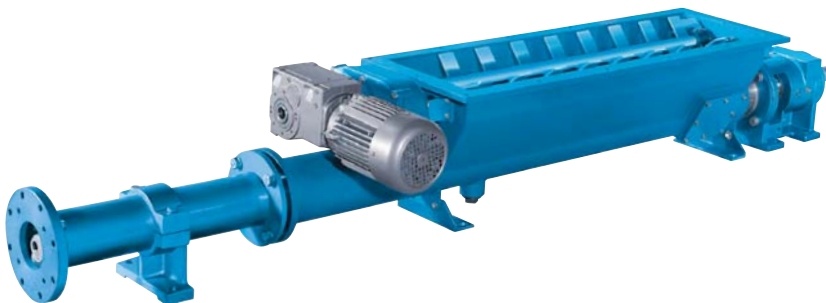
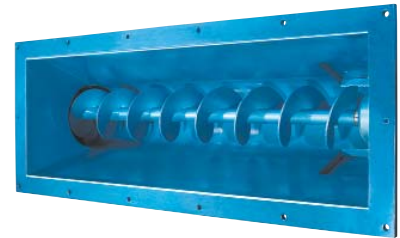


Moyno® 2000 G2 Pumps

The Moyno® 2000 G2 Pump is a versatile, high-performance pump featuring a wide, open throat hopper design that minimizes plugging that could occur in a

standard inlet. A single auger feed mechanism ensures positive product feed into the pumping elements for increased fill efficiency when handling semi-dry or high solids content sludges.

The Moyno 2000 G2 also features Moyno's crown gear-type universal joint drive train and optimized rotor/stator pumping element geometry.

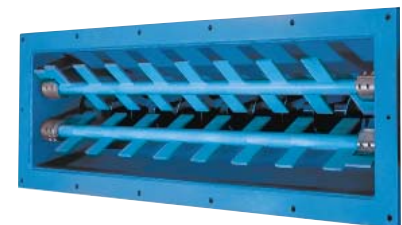


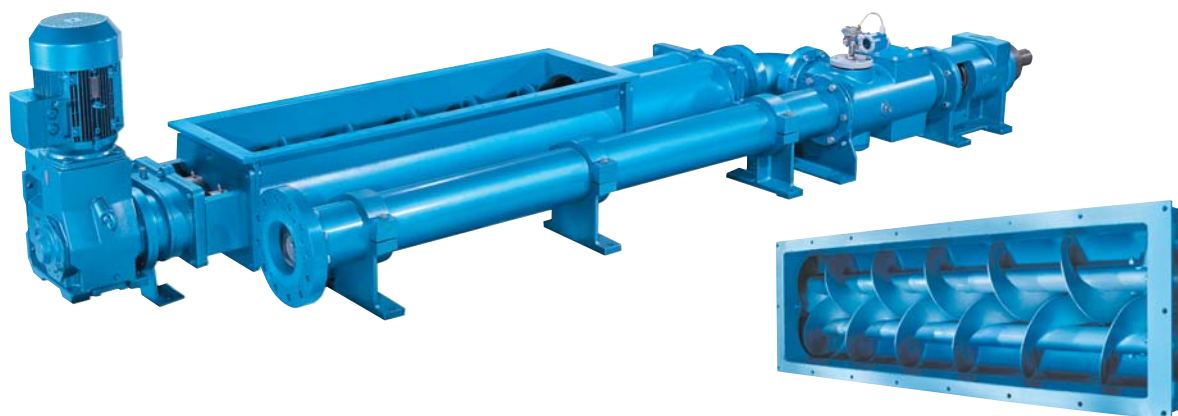
Moyno® 2000 G3 Pumps

The Moyno® 2000 G3 Pump is ideally suited for handling semi-dry, high solids content fluids that have a tendency to "bridge" in the inlet hopper. Featuring a series of finger mechanisms mounted on two counter-rotating shafts positioned

above the pump's auger feed, this bridge breaker device prevents the accumulation of material in the throat of the pump. The bridge breaker is independently driven for flexibility in controlling pump and bridge breaker speed to meet specific application requirements.

The 2000 Model G3 Pump also features Moyno's crown gear-type universal joint – the heaviest duty drive train configuration available in the industry.





Moyno® 2000 HS Systems

The Moyno® 2000 HS system is a significant technology advancement for the wastewater treatment industry. It can pump filter cake further distances with higher volumetric efficiencies than any other progressing cavity pump. Its twin-screw feeder supplies a constant, pressurized feed rate to the pump resulting in a 100 percent pump cavity fill rate. The Moyno 2000 HS System features an integral hopper with a twin-

screw auger feeder and specially designed progressing cavity pump that efficiently handles dewatered municipal sludge to over 50 percent solids. The enhanced design of the Ultra-Feed™ pump rotor provides superior volumetric efficiency.

The Moyno® 2000 HS System combines high pump efficiency with low discharge pressure to provide unmatched performance in high solids sludge cake transfer. Compared to hydraulically driven, piston ram

type pumps and open conveyors, the Moyno 2000 HS System requires lower capital investment, lower operating costs and less maintenance.

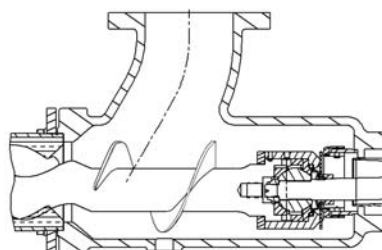
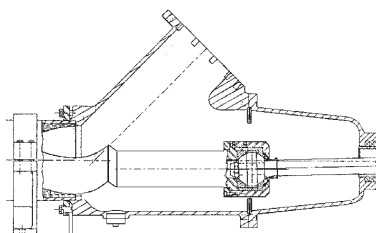
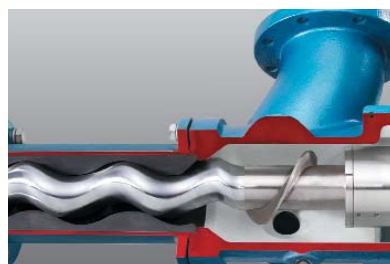
For application versatility, the Moyno 2000 HS System offers varying twin screw feeder and hopper lengths to match wide feed areas from centrifuges and belt filter presses. The twin screw feeder and the hopper length can be readily modified without changing the pump arrangement.

Moyno® 2000 G4 Pumps

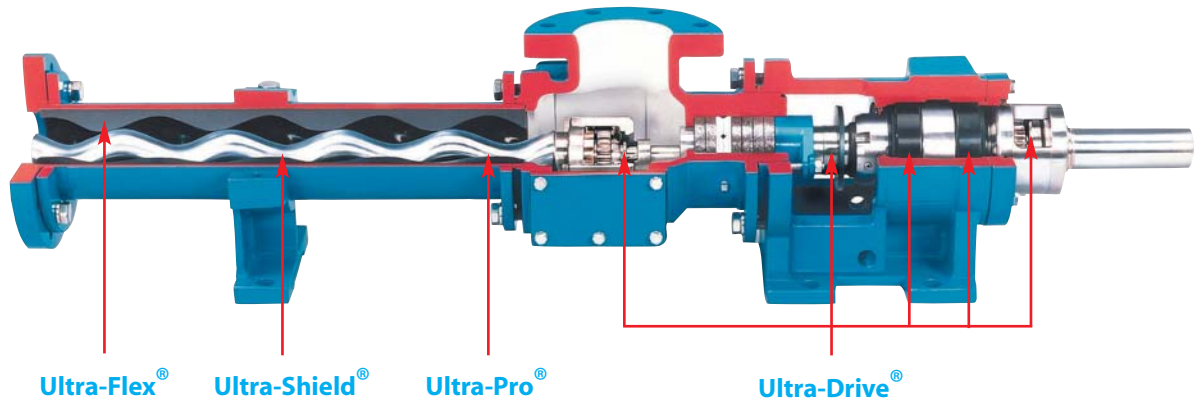
The Moyno® 2000 G4 Pump features proprietary Ultra-Feed® rotor technology.

The high-efficiency G4 progressing cavity pump's 45° inlet lowers friction loss and provides for gentler handling of the product. It also features a universal joint that is out of the fluid flow path for unobstructed flow to the pump cavity inlet. The G4 progressing cavity pump design results in lower overall system pressure and its constant, non-pulsating flow imparts less stress on piping, machinery and drive systems.

The patented auger feed on the Ultra-Feed rotor head smoothly stuffs product directly into the cavity without obstruction. The Ultra-Feed rotor configuration is designed to enhance flow of high solids content materials and optimize volumetric efficiency.



Ultra-Technologies Provide Greater Customer Value



Moyno is able to deliver superior performance and greater overall customer value because of its proprietary Ultra-Technologies.

Proprietary **Ultra-Shield**® rotor coatings assure peak performance and excellent wear resistance under highly abrasive and/or corrosive service conditions.

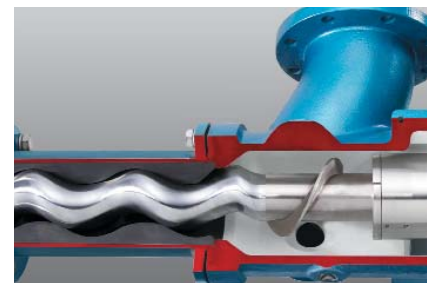
Ultra-Pro® rotor/stator configuration options allow end users to optimize their Moyno pump flow rate and pressure capability to match application requirements.

Proprietary **Ultra-Drive**® gear joint drive train configuration is designed to handle the high thrust and radial forces of even the most

demanding applications. The hollow shaft design provides the shortest progressing cavity pump footprint and extends bearing and seal life.

The extensive range of Moyno **Ultra-Flex**® stator elastomers offer application versatility to handle specific fluid conditions for peak operating efficiency, longer life and less maintenance.

Ultra-Serv® service programs provide comprehensive applications engineering support, expert pump repair services and quick parts shipments for trouble-free pump performance and reduced downtime.



Ultra-Feed® auger provides superior feed and flow efficiency.

Moyno® 2000 G1 Pumps

The Moyno® 2000 G1 Pump is a versatile, high-performance pump designed to handle a wide range of applications from shear-sensitive chemicals to difficult-to-process slurries and sludges.

The Moyno 2000 G1 features the highly acclaimed crowned gear universal joint drive train configuration to provide exceptional torque and thrust control. Patented joint seals effectively protect the gear joints from pumpage contamination.



Pump Accessories and Options

Moyno 2000 pumps offer an extensive range of accessories and options, designed to meet specific application requirements.



Flush Gland – allows packing leakage to be flushed away from the pump, preventing potential damage to seals and packing



Fiber Deflector – to prevent ragging around pump connecting rod and rotor head



Shaft Sleeve – protects drive shaft from wear in highly abrasive applications

Control Packages – various control packages are available, including the advanced, integrated touch screen packages found on the 2000 HS System as well as run-dry fluid detection

Slip Ring Injection System – reduces nominal line pressure when transferring extremely dry material over long distances

Wide variety of drive options, couplings, mechanical seals, packing, motor controls, gauge packages and jacketing for handling materials that must be kept hot or chilled

Grinders – including the twin shaft Annihilator™ with patented spacer/cutter assembly and the single shaft Pipeliner™ with self-adjusting headstock



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