



MINING

PUMP SOLUTIONS





MINING PUMPS

FEATURES

- Heavy-duty modular construction designed for the mining and quarry market
- Oversized shafts and bearings for exceptional reliability in demanding conditions
- Cassette seals (where available) for superior bearing and shaft protection
- Standard mechanical seal construction includes tungsten carbide vs. silicon carbide seal faces, FKM elastomers, and stainless steel hardware
- UltraPrime™ 50 CFM priming system, which provides high air handling capability for quick priming
- Patented PosiValve™ stainless steel positive sealing priming valve
- Run-dry capability
- Low NPSHr impeller designs for exceptional suction lifts
- Back pull-out design for ease of maintenance and less downtime
- Standard ductile iron volutes and CA6NM stainless steel impellers designed for long life
- 17-4 PH stainless steel shafts for corrosion resistance
- Available in a variety of metallurgies and mounting configurations



Our customers rely on our high-efficiency, extreme-performance pumps in the most demanding mining and quarry applications.



PUMP SPECIFICATIONS

Pump Series	Head (ft / m)	Flow (gpm / m ³ /hr)	Sizes (in / mm)	Features
Standard Centrifugal (SC)	Up to 850+ / 260	20-44000 / 4-1000	1.5-30 / 40-760	High-performance, end-suction centrifugal; Solids handling or clear liquids; Run-dry capability; Ideal for wheel washing, washplants, and polymer dosing
Pioneer Prime (PP)	Up to 850+ / 260	20-44000 / 4-1000	1.5-30 / 40-760	Vacuum-assisted, automatic priming, run-dry; Solids handling or clear liquids; Ideal for high-flow, high-pressure dewatering and flood control
Self-Priming (PB, PEB, GS and GT)	Up to 200+ / 60	20-3500 / 4-795	1.5-10 / 40-250	Self-priming; Solids handling or clear liquids; Ideal for liquid transfer and dewatering

MINING PUMPS

HIGH FLOW/PRESSURE DEWATERING

Get extreme performance: Pioneer Prime offers flows up to 44,000 gpm (1,000 m³/hr) and heads to 850+ feet (260 m) with vacuum-assisted, dry-priming, and run-dry capability providing the best performance of any company in the self-priming pump market.

Work more efficiently: Exceptional hydraulic designs combined with outstanding quality assures less service and downtime, leading to increased production and profits.

Be environmentally friendly: Pioneer's patented PosiValve™ and UltraPrime™ priming system prevents leakage and carryover while offering unparalleled reliability. Fully-contained packages, including 110% containment with noise levels as low as 68 dBA at 25 feet, meet noise and containment regulations.

Get back to work sooner: Size for size, Pioneer pumps are designed to move more water than any other manufacturer. Whether it is mine dewatering or quarry flooding, Pioneer gets you drier, faster.

PLANT & PROCESS

Get more performance with less energy: Pioneer's highly-efficient pumps are better for your budget and the environment.

High flow without worries: Standard centrifugal and self-priming pumps deliver high flow and pressure for the most demanding mining applications.

Process pump applications include:

- Wheel washing
- Light slurry and polymer pumping
- Dust suppression
- Sand and gravel washing
- Concrete plant water feed pumps



Experience the benefits of our self-priming pumps, including reliability, ease of maintenance, and superior performance.



THE PIONEER PUMP ADVANTAGE

PATENTED PIONEER PRIME

Timing belt driven vacuum pump removes air from the suction line while the patented PosiValve™ prevents liquid entry into the vacuum pump.

- Quick initial priming
- Overcomes minor suction-side leaks
- Continuous, unattended reprime under auto stop/start conditions

HEAVY-DUTY COMPONENTS

All Pioneer standard centrifugal models are designed to stand up under the most demanding environments. Over-sized shafts and bearings, optimal materials, and advanced designs combine to create products that deliver performance in the field.

