



PUMPS

- Recessed Impeller
- Screw Impeller
- Chopper
- Vertical Cantilever
- Vertical Bearing
- Submersible







MIXERS

- Portable
- Top / Side / Bottom Entry
- Dynamic In-Line
- Static
- Mag Drive










ENGINEERED SYSTEMS

- Liquid & Dry Polymer
- Metering / Chemical Feed
- Custom Pump & Tank
- Starch Cookers
- Mineral Dispersion
- Filtration Systems
- Volumetric Screw Feeders
- Bulk Solids Handling

SOLIDS HANDLING PUMPS





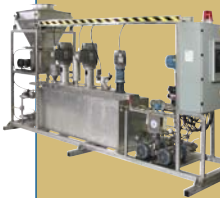

SOLIDS HANDLING		SERVICES / FEATURES	RATINGS
Recessed Impeller		<ul style="list-style-type: none"> • Large internal passages for handling solids up to 8" diameter. • Replaceable wear element, extra-thick castings, and hard metal construction for abrasion resistance. • Foot mounted casing provides true back pull-out. • Available in horizontal, vertical dry pit, vertical bearing, vertical cantilever and submersible designs. 	<ul style="list-style-type: none"> • Flow to 4,000 GPM • Head to 325 ft. • Temp. to 230 °F (110 °C) • Solids up to 8" diameter
Screw Centrifugal		<ul style="list-style-type: none"> • Gentle, low shear pumping action minimizes product damage and prevents emulsification. • Single channel open impeller for solids up to 7" diameter. • High efficiency reduces power costs. • High flow/low head hydraulic characteristics. • Low NPSH. • Available in horizontal, vertical dry pit and submersible designs. 	<ul style="list-style-type: none"> • Flow to 12,000 GPM • Head to 200 ft. • Temp. to 230 °F (110 °C) • Solids up to 7" diameter
Chopper		<ul style="list-style-type: none"> • Simultaneously chops and pumps solids. • Eliminates the need for grinders. • External and internal cutting actions. • Patented high efficiency, anti-fouling impeller. • Available in horizontal, vertical dry pit, vertical bearing, vertical cantilever, and submersible designs. 	<ul style="list-style-type: none"> • Flow to 6,500 GPM • Head to 130 ft. • Temp. to 230 °F (110 °C)
WET-PIT PUMPS			
Vertical Cantilever		<ul style="list-style-type: none"> • For low maintenance, continuous operation in harsh environments. • No submerged bearings or seals. • Designed to operate well below the first critical speed to ensure smooth, quiet operation. • Recessed impeller, chopper, and process pump wet-ends available. 	<ul style="list-style-type: none"> • Flow to 4,400 GPM • Head to 150 ft. • Temp. to 400 °F (204 °C)
Vertical Bearing		<ul style="list-style-type: none"> • Economical solution for general duty in industrial sumps. • Reliable self-priming independent of pit depth. • Optional sealed columns for harsh environments. • Standard designs for pit depths up to 14 ft., custom versions to 20 ft.+. • Recessed impeller, chopper, and process pump wet-ends available. 	<ul style="list-style-type: none"> • Flow to 3,000 GPM • Head to 300 ft. • Temp. to 400 °F (204 °C)
Submersible		<ul style="list-style-type: none"> • For submerged operation in tanks or sumps. • Chopper, recessed impeller, and screw centrifugal designs available. 	<ul style="list-style-type: none"> • Flow to 5,500 GPM • Head to 200 ft. • Temp. to 150 °F (65 °C)

MIXERS FOR THE PROCESS INDUSTRIES

PROCESS		FEATURES	RATINGS
Portable		<ul style="list-style-type: none"> • Wide range of rugged direct and gear driven mixers available in clamp & fixed mounting arrangements with a variety of sealing systems for closed tanks. 	<ul style="list-style-type: none"> • 0.25 to 3 HP • Typical volume range: 100 to 3,500 USG
HRF Top Entry		<ul style="list-style-type: none"> • These mixers handle applications in the transition area between "portable" type mixers and the larger turbine style agitators. 	<ul style="list-style-type: none"> • 1 to 10 HP • Typical mixing volume: 2,000 to 7,500 USG
ST Top Entry		<ul style="list-style-type: none"> • Three drive sizes cover this series which feature a third lower output bearing which helps isolate hydraulic loads from the gearbox. 	<ul style="list-style-type: none"> • 3 to 20 HP • Typical mixing volume: 5,000 to 35,000 USG
MB Top Entry		<ul style="list-style-type: none"> • These right angle drives come in seven different sizes covering the moderately sized mixing applications. 	<ul style="list-style-type: none"> • 7.5 to 150 HP • Typical mixing volume: 20,000 to 250,000 USG
LH Top Entry		<ul style="list-style-type: none"> • Large mixing problems require these mixer drives. • Six drive sizes with three different types of gearing per size ensure precise selection for every application. 	<ul style="list-style-type: none"> • 25 to 500 HP • Typical mixing volume: 50,000 to 1,000,000 USG
Side Entry		<ul style="list-style-type: none"> • Two lines of side entry mixers available. • Belt driven mixers for the chemical process industries and specialized mixers for the petroleum industry available in both gear and belt drive configurations. 	<ul style="list-style-type: none"> • 1 to 75 HP • Typical mixing volume: 5,000 to 750,000 USG
Dynamic In-Line		<ul style="list-style-type: none"> • Available in two different configurations: dual compartment, staged mixing, for more difficult applications and the "flow through" design for water treatment applications. 	<ul style="list-style-type: none"> • 1 to 40 HP • Typical flow rates: 50 to 25,000 USGPM
Static In-Line		<ul style="list-style-type: none"> • A number of mixing applications can be accomplished with this type of mixer which has no moving parts. • Low energy consumption and low capital costs are features of this mixer. 	<ul style="list-style-type: none"> • Typical flow rates: 1 to 50,000 USG
MagDrive		<ul style="list-style-type: none"> • Sealless design for 100% leak free operation. Available in direct or gear drive configurations for top or bottom entry applications. 	<ul style="list-style-type: none"> • 0.25 to 15 HP • Typical mixing volume: 25 to 5,000 USG



ENGINEERED SYSTEMS AND CONTROLS

ENGINEERED SYSTEMS	SERVICES / FEATURES
<p>Liquid & Dry Polymer</p> 	<p>The innovative ChemVac™ dry polymer system, featuring a unique "high performance / high pressure" nozzle, provides one of the most efficient and dust-free wetting systems available. A heated volumetric feeder prevents dry polymer clumping.</p> <p>The Activator™ series of liquid polymer systems are available for dilution flows from 5gpm to over 100gpm. These systems provide fast and complete inversion of polymer even at low concentration through the unique "Smart-Mixer" and dual dilution extension.</p> <p>Our Polymer systems feature certified control panels, durable stainless steel construction and easy-to-use quick-release pipe connections. Optional features include tote stacking and bulk bag support systems, and protection for low polymer, low water, or dry run.</p>
<p>Metering / Chemical Feed</p> 	<p>Custom engineered metering pump and chemical feed systems for Aluminum, Chlorine, Hydrogen Peroxide, Ferric Chloride, Boiler and Cooling Water Additives, Polymers, Acids, Chelants, Phosphates, Dyes, Pigments, Slurries, Starches, Coatings and many other liquid chemical additives.</p> <p>Metering and feed systems include pumps, components, controls, and instrumentation selected to suit the application and customer specifications.</p>
<p>Custom Pump & Tank</p> 	<p>Hayward Gordon saves you time and money by providing single-source design, manufacture, and start-up for custom engineered pumping and mixing systems. We apply our extensive pumping and mixing expertise into designing complete turn-key packages that include mixers, tanks and various pump types including centrifugal, peristaltic, progressive cavity, gear, lobe, and diaphragm.</p> <p>Custom controls, instrumentation, and filtration packages are also available designed to customer specifications. You will receive a documented, skidded, tested, and fully functional system.</p>
<p>Starch Cookers</p> 	<p>Fully automated MicroJet™ cookers ensure the delivery of consistent concentrations of cooked starch to precise quality standards. Complete and effective slurry blending is achieved through two dilution and mixing stages; a high shear disperser with variable speed control for primary dilution, followed by a static mixer after the rapid quench. Standard systems are available for starch processing rates of 220 to 2200 lbs/hr for applications including wet end, size press, and coating starches.</p> <p>Allen Bradley PLC's and operator interface are used as standard to provide automatic operation and monitoring. A full range of accessories is available, including tanks, bulk solids handling and feeding systems, agitators, cooked starch feed systems, and filters.</p>
<p>Mineral Dispersion</p> 	<p>The patented variable-speed MicroSpense™ blender achieves complete and effective slurry blending for difficult-to-wet materials such as talc and bentonite.</p> <p>Systems typically include; semi-bulk bag unloading station, overhead hoist and forklift bag handling, feed hopper with access hatch, dust seal, powder shut-off iris valve, level monitoring, pneumatic vibrator and a DuraChem™ volumetric feeder with variable speed control.</p> <p>Allen Bradley PLC's and operator interface are used as standard to provide automatic operation and monitoring.</p>
<p>Custom Built Filtration System</p> 	<p>Improve your process... remove damage-causing particles with Hayward Gordon's complete line of strainer and filtration packages (PVC or 316L SS, flanged or welded construction). Typical models include; hinged cover with quick release hold down, single "T" bolt pressure clamp, Viton O-ring seal high flow side entry ports. All styles feature interlocking basket and handle assembly for easy removal.</p> <p>All models provide quick media change and low downtime. A wide variety of perforation and mesh sizes are available in several material options.</p>

Start-up service available on all systems



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