

Weir Minerals North America–Hazleton
Centrifugal Slurry Pumps



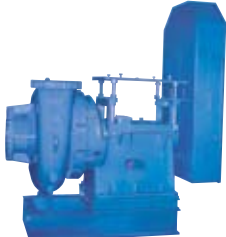


Slurry
Equipment
Solutions




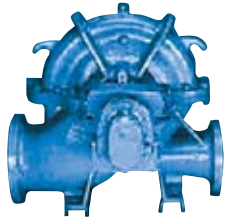



Engineered-to-Order Products

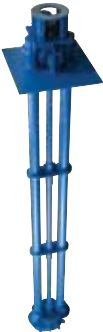











Horizontal slurry pumps

CTC	CCB	CSE, CSEM	CSE-A	CTE, CTEM
<p>Designed for API specifications for heavy duty slurry applications</p>	<p>Designed for API specifications for heavy duty slurry applications</p>	<p>Designed for heavy duty slurry applications</p>	<p>Designed for petrochemical slurry applications that require designs close to API</p>	<p>Designed for heavy duty slurry applications</p>
<p>capacities 100 to 24,000 gpm 23 to 5,451 m³/hr</p>	<p>capacities 100 to 24,000 gpm 23 to 5,451 m³/hr</p>	<p>capacities 100 to 24,000 gpm 23 to 5,451 m³/hr</p>	<p>capacities 100 to 24,000 gpm 23 to 5,451 m³/hr</p>	<p>capacities 100 to 20,000 gpm 23 to 4,540 m³/hr</p>
<p>heads 20 to 450 ft (per stage) 6 to 140 m</p>	<p>heads 20 to 450 ft (per stage) 6 to 140 m</p>	<p>heads 20 to 450 ft (per stage) 6 to 140 m</p>	<p>heads 20 to 450 ft (per stage) 6 to 140 m</p>	<p>heads 20 to 450 ft (per stage) 6 to 140 m</p>
<p>key features</p> <p>Single-stage, heavy duty API slurry pump with front and/or back pull-out features.</p> <p>Designed to meet API requirements for slurry applications.</p> <p>Optional centerline casing support for high temperature services.</p>	<p>key features</p> <p>Hard metal lined pump with center-line mount for temperatures up to 900°F.</p> <p>Designed for API cat cracker bottoms applications.</p>	<p>key features</p> <p>Single-stage, heavy duty bearing pedestals.</p> <p>Large-diameter impellers for low speed operation.</p> <p>One-piece suction head and casing with a rear wear plate.</p> <p>CSEM has a mechanical seal design.</p>	<p>key features</p> <p>Single-stage, medium duty back pull-out design.</p> <p>CSE-A is designed from the heavy duty CTE series and from the older CSE design.</p>	<p>key features</p> <p>Single-stage, heavy duty bearing pedestals.</p> <p>Large-diameter impellers for low speed operation.</p> <p>Replaceable front, back, and suction wearing plate for lower operational costs.</p> <p>Special designs are available for up to 1,000 psi operating pressure and/or up to 2,500 HP.</p> <p>CTEM has a mechanical seal design.</p>
				






CBE, CBEM	HNR	MS	DS	HAF
<p>Designed for medium duty or light slurry applications</p>	<p>Designed for slurries with large diameter solids and/or stringy/fibrous materials</p>	<p>Designed for clear liquids and/or fluids with low solids concentration of less than 4%</p>	<p>Designed for clear liquids and/or fluids with low solids concentration of less than 4%</p>	<p>Designed for axial flow applications with solids concentration up to 30%</p>
<p>capacities 50 to 20,000 gpm 12 to 4,543 m³/hr</p>	<p>capacities 50 to 2,500 gpm 11 to 570 m³/hr</p>	<p>capacities 200 to 3,500+ gpm 45 to 795+ m³/hr</p>	<p>capacities 100 to 10,000+ gpm 22 to 2,272+ m³/hr</p>	<p>capacities 1,000 to 80,000 gpm 227 to 11,350 m³/hr</p>
<p>heads 20 to 200 ft 6 to 61 m</p>	<p>heads 20 to 300 ft 6 to 92 m</p>	<p>heads 100 to 2,000 ft 30 to 610 m</p>	<p>heads 25 to 600 ft 7 to 183 m</p>	<p>heads 10 to 40 ft 3 to 12 m</p>
<p>key features</p> <ul style="list-style-type: none"> Single-stage. Casing and suction head wear plates. Optional front wear plates for long life. Special designs are available for specific applications. CBEM has a mechanical seal design. 	<p>key features</p> <ul style="list-style-type: none"> Recessed impeller and a renewable back wear plate. Recessed design can handle slurries or liquids with entrained air effectively. Special designs are available for dredge service. 	<p>key features</p> <ul style="list-style-type: none"> Horizontally split, multi-stage design. Opposed impellers that balance thrust loads. Renewable wear rings for long operational life. 	<p>key features</p> <ul style="list-style-type: none"> Horizontally split, double suction design. Renewable casing and impeller rings. Optional oil or grease lubricated bearings. 	<p>key features</p> <ul style="list-style-type: none"> High capacity flow impeller design with moderate head for slurry applications. 

Vertical slurry pumps






VS, VSB	VN, VNB	VDS, VND	VNR, VNR-2	VNCB, VNCT
<p>Designed for slurry sumps requiring vertical pumps with moderate solids</p>	<p>Designed for slurry sumps requiring vertical pumps with moderate solids</p>	<p>Designed for sumps requiring high capacities and/or fluids containing abrasive solids and/or slurry mixtures</p>	<p>Designed for sumps with heavy concentration of abrasive slurries with large-diameter solids</p>	<p>Designed for sumps with medium or severe duty applications with abrasive and/or corrosive slurries</p>
<p>capacities 100 to 10,000 gpm 23 to 2,270 m³/hr</p>	<p>capacities 100 to 10,000 gpm 23 to 2,270 m³/hr</p>	<p>capacities 6,000 to 30,000 gpm 1,360 to 6,810 m³/hr</p>	<p>capacities 50 to 2,500 gpm 11 to 570 m³/hr</p>	<p>capacities 50 to 10,000 gpm 11 to 2,270 m³/hr</p>
<p>heads 25 to 200 ft 8 to 61 m</p>	<p>heads 25 to 200 ft 8 to 61 m</p>	<p>heads 30 to 250 ft 9 to 76 m</p>	<p>heads 20 to 210 ft 6 to 64 m</p>	<p>heads 20 to 250 ft 6 to 76 m</p>
<p>key features</p> <ul style="list-style-type: none"> Twin-volute design casings. Shaft enclosing tube allows clean water to the pump bearings for longer mean-time-between failures. Lower and/or intermediate bearings for long settings in deep sumps. VSB can be used with tailpipes for draw-down applications. 	<p>key features</p> <ul style="list-style-type: none"> Twin-volute design casings. Top or bottom suction. Balanced side thrust assuring longer bearing life. Adjustable rotating element. Cantilever design with no lower bearings. VNB can be used with tailpipes for draw-down applications. 	<p>key features</p> <ul style="list-style-type: none"> Twin-volute design casings. Double suction design for the higher capacities and lower wear. VDS has fully accessible line and pump bearings, and models can be made in custom lengths. VND has a cantilever design with no submerged bearings. 	<p>key features</p> <ul style="list-style-type: none"> Recessed impeller design. Cantilever shaft design. Can pass large solids equal to suction nozzle diameter. Replaceable back wear plate for lower maintenance costs. 	<p>key features</p> <ul style="list-style-type: none"> Cantilever shaft design. Extra heavy duty rotating assembly. Impeller adjustment from above baseplate. Renewable wear ring or wear plate options. Direct or v-belt driver options. All models can be custom engineered to your most demanding applications. VNCB is for medium duty applications; VNCT is for severe duty applications.
				

VLW	VSM, VSMB, VNM, VNMB	VMS	VDM	VMF
Designed for sumps with abrasive and/or corrosive slurries	Designed for sumps requiring medium heads with applications having low solids content of less than 4%	Designed for sumps requiring high heads with applications having low solids content of less than 4%	Designed for sumps requiring high flow rates with applications having low solids content of less than 4%	Designed for sumps with high capacity requirements with moderate head for moderate solids concentrations of less than 20%
capacities 30 to 7,000 gpm 7 to 1,590 m ³ /hr	capacities 50 to 8,000 gpm 11 to 1,817 m ³ /hr	capacities 200 to 6,000 gpm 45 to 1,363 m ³ /hr	capacities 200 to 25,000 gpm 454 to 5,675 m ³ /hr	capacities 500 to 50,000 gpm 113 to 11,350 m ³ /hr
heads 20 to 340 ft 6 to 104 m	heads 75 to 525 ft 22 to 160 m	heads 300 to 900 ft 91 to 274 m	heads 150 to 450 ft 45 to 137 m	heads 20 to 70 ft 6 to 21 m
key features Uses the proven heavy duty SHW wet end components. All models can be custom engineered to your most demanding applications.	key features Twin-volute and triple-volute designs. Top or bottom suction. Double wear ring construction provides balanced axial thrust for maximum life. VSM and VSMB have submerged bearings designed for deep setting lengths. VNM and VNMB have cantilever design with no submerged bearings.	key features Two-stage design for high head applications.	key features Twin-volute design casings. Double suction design for high capacities.	key features Mixed-flow design. Submerged bearings with an independent clean fluid lubrication design.
				

Submersible slurry pumps

SCT, SCB	SS, SSB	SSM	SNR	SHW, SHW-R, SHW-CS
<p>Designed for severe duty submersible applications for abrasive/corrosive slurries</p>	<p>Designed for heavy duty submersible applications for abrasive/corrosive slurries</p>	<p>Designed for submersible applications requiring high heads with applications having low solids content of less than 4%</p>	<p>Designed for submersible applications with large, clogging and/or stringy material</p>	<p>Designed for submersible applications requiring a heavy duty all chrome wet end</p>
<p>capacities 100 to 24,000 gpm 23 to 5,451 m³/hr</p>	<p>capacities 50 to 10,000 gpm 11 to 2,270 m³/hr</p>	<p>capacities 50 to 7,500 gpm 11 to 1,703 m³/hr</p>	<p>capacities 2,500 to 10,000 gpm 568 to 2,270 m³/hr</p>	<p>capacities 30 to 9,500 gpm 7 to 2,158 m³/hr</p>
<p>heads 20 to 450 ft 6 to 140 m</p>	<p>heads 30 to 250 ft 9 to 76 m</p>	<p>heads 50 to 650 ft 15 to 198 m</p>	<p>heads 20 to 200 ft 6 to 61 m</p>	<p>heads 15 to 350 ft 4.5 to 107 m</p>
<p>key features</p> <p>Optional barge-mounted designs.</p> <p>Double-volute.</p> <p>No external cooling for the motor is required.</p> <p>Seal is subjected to submergence pressure only.</p> <p>SCB has a standard semi-open or an enclosed impeller for high efficiency and smaller solid size applications.</p>	<p>key features</p> <p>Optional barge-mounted designs.</p> <p>Twin-volute design casings.</p> <p>No external cooling for the motor is required.</p> <p>Seal is subjected to submergence pressure only.</p> <p>SS has a top suction design.</p> <p>SSB has a bottom suction with an agitator option.</p>	<p>key features</p> <p>Designs based on SS series.</p> <p>Seal is subjected to submergence pressure only.</p>	<p>key features</p> <p>Recessed impeller to pass solid sizes equal to suction nozzle.</p>	<p>key features</p> <p>Options include two types of agitators, cooling jackets, guide rails, and mounting options.</p> <p>SHW-R has a recessed impeller for passing large solids and/or stringy materials.</p> <p>SHW-CS has a chemical slurry design for corrosive applications.</p>
				

Nuclear slurry pumps

CANYON	NVC	CHS	VNMB, VNBS, RPCT	SSB-Mixer
Designed for special nuclear grade sumps for handling radioactive sludge	Designed for special nuclear grade sumps for handling radioactive sludge that requires low shear	Designed for special nuclear grade sumps for handling radioactive sludge	Designed for special nuclear grade sumps for handling radioactive sludge	Designed for special nuclear sludge services requiring submersible mixers
capacities 30 to 300 gpm 7 to 68 m ³ /hr	capacities 30 to 300 gpm 7 to 68 m ³ /hr	capacities 1,000 to 3,000 gpm 227 to 682 m ³ /hr	capacities 30 to 300 gpm 7 to 68 m ³ /hr	capacities 50 to 10,000 gpm 11 to 2,270 m ³ /hr
heads 50 to 150 ft 15 to 46 m	heads 50 to 150 ft 15 to 46 m	heads 50 to 300 ft 15 to 92 m	heads 30 to 250 ft 9 to 76 m	heads 30 to 250 ft (SSM to 600) 9 to 76 m
key features Ability to custom engineer for specific customer applications for high or low radioactive wastes.	key features Ability to custom engineer for specific customer applications for high or low radioactive wastes.	key features Ability to custom engineer for specific customer applications for high or low radioactive wastes.	key features Ability to custom engineer for specific customer applications for high or low radioactive wastes.	key features Ability to custom engineer for specific customer applications for high or low radioactive wastes.
				

WARMAN® Centrifugal Slurry Pumps
GEHO® Positive Displacement Slurry Pumps
CAVEX® Hydrocyclones
ISOGATE® Slurry Valves
VULCO® Wear Resistant Linings



For further information on Weir Minerals products or services, contact the nearest sales office or visit www.weirminerals.com

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