PUMPFEATURES

GIW Dredge Pumps

GIW has a long history of designing and building pumps and auxiliary equipment for dredging. Our extensive experience in slurry transport, understanding of the processes of dredging plus advanced engineering design methods and metallurgy pioneered by GIW have made possible a new generation of dredge pumps for a broad range of applications. Dredge pumps are offered in four groups to meet your operating conditions, however many LCC and LSA pumps are suitable for dredging applications.

LHD PUMPS

Low head, high flow design for use as a ladder pump or on drag arms of hopper dredges with special underwater bearing seals.

MHD PUMPS

Efficient pumping in a balanced range of head and flow conditions suited for hopper dredge suction pumps and as main pump on cutter dredges.

HHD PUMPS

Hydraulic optimized for high head applications used as booster pumps and as main pumps in cutter dredges.

TBC PUMPS

Uses a special mechanical construction along with the HHD type hydraulic design. The strong cast steel plates and tie bolts allow operating pressures on our 30x34TBC85 up to 500psi.

Typical Applications

- Hopper dredges
- Cutter dredges
- Booster stations

Range

- Discharge diameters – 12” to 44”
- Flows – 5,000 to 140,000 GPM
- TDH to 300’+/stage
- Capabilities beyond 12,000 HP

Construction

- Horizontal end suction centrifugal pump. Conventional single wall design, and modified (TBC) design which transfers stress loads to non-wearing side plates in high pressure applications. GIW also offers an extended range of double wall dredge pumps (HPD). Normally, three and four vane impellers are available, with replaceable suction liner. The casing and impeller are available in our patented WD29G alloy for wear life several times that of steel.

Hopper ship equipped with GIW double wall pump and two LSA jet water pumps.

Features

- Hydraulic types and sizes to match most any duty requirements
- Simple construction for ease of maintenance
- Proven GIW standard shaft and bearing assembly or special shorted designs to European standards
- High efficiency over wide range of flow ensures best use of available power for production
- Certainty of performance is verified through full scale hydraulic testing under controlled conditions
- Two piece suction hub liners available in some models allows replacement of high wear at lower cost
- Abrasion resistant white irons, steels, ductile irons, special alloys, and composite materials for durability and exceptional wear life
- Shell hydraulics for high efficiency and uniform wear over a wide range of operating conditions

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