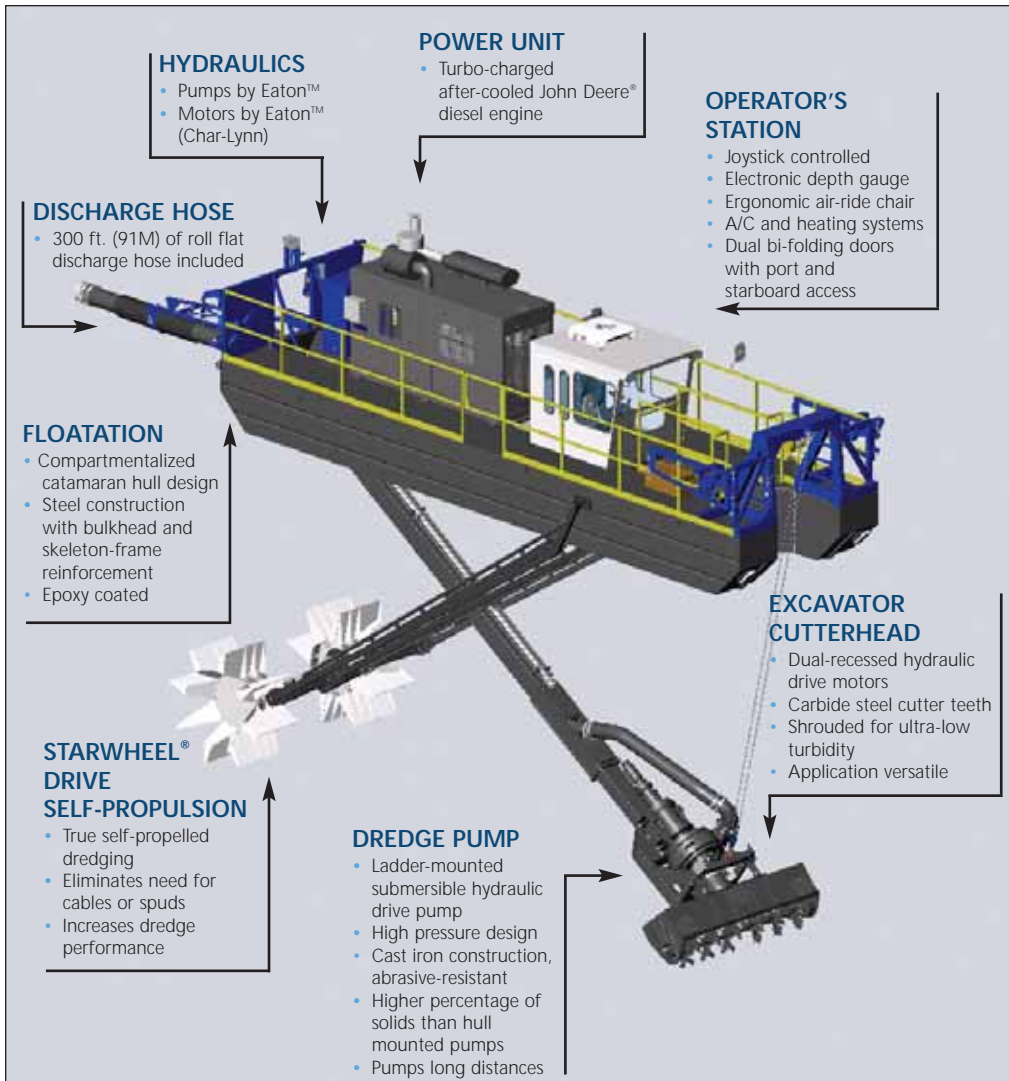


# IMS Model 5012 HP Versi-Dredge®



A Model 5012 HP removes sand from a large marina in California.



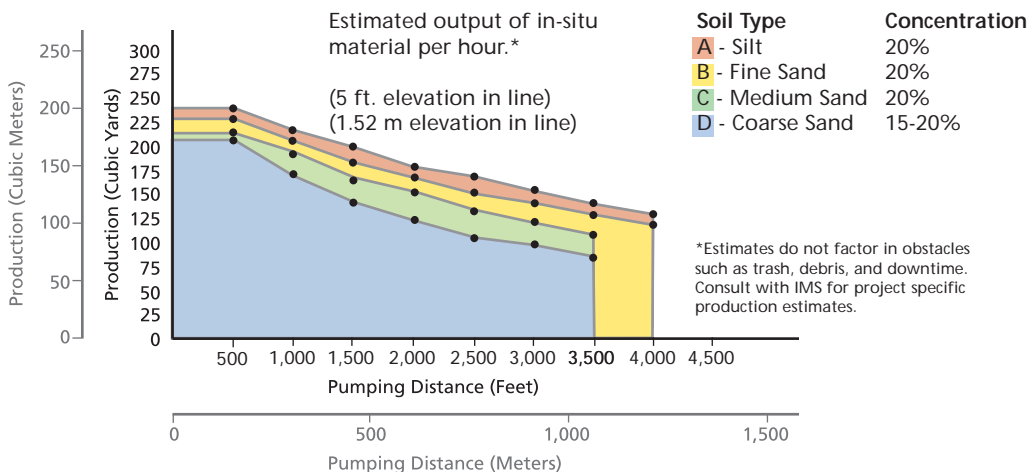
All Versi-Dredge® models come standard with joystick controls and oversized gauges for ease of operation.

## STANDARD EQUIPMENT

- 300 ft. (91 m) of roll flat discharge hose
- 12 saddle type hose floats
- Fully enclosed engine compartment
- Rock Guard
- Windlass system for cable drive
- Climate-controlled operator cabin
- Pump/cutterhead view window
- Cathodic protection
- Joystick controls
- Ergonomic air-ride swivel chair
- Digital depth gauge
- Horn
- 360 degree lighting
- Two (2) swivel cranes (800 lb. capacity, 363 Kg)
- U.S. hand tool kit and tool box

## OPTIONAL EQUIPMENT

- Broadcaster Discharge Attachment
- Outriggers
- GPS System (w/sub-meter accuracy)
- Flow meter
- Slurry thickness tattle tail
- Additional corrosion protection package
- Pipe, hose, saddle floats
- Navigation lights
- Spotlight
- Closed loop video monitor for discharge
- Sound system



IMS, A Division of LWT Dredges, Pumps and Pumping Systems

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# IMS Model 5012 HP Versi-Dredge®

<b>Dimensions</b>		<b>Dredge Pump</b>	
Length	45 ft. 5 in. (13.8 m)	Type	GIW Cast iron pump
Width	11 ft. 3 in. (3.4 m)	Discharge Diameter	8 in. (203 mm)
Height	10 ft. (3.1 m)	Suction Diameter	10 in. (254 mm)
Weight (less fuel)	30,445 lbs. (13,180 kg)	Impeller Diameter	24 in. (610 mm)
<b>Flotation</b>		Sphere Passage	4 in. (101 mm)
Pontoons	Two (2) pontoons, 39 in. x 38 in. x 408 in. (991 mm X 965 mm X 10,360 mm); 10 ga. steel sides, bottom and 1/4" diamond plate tops; internal bulkheads and stiffeners, and coated w/ a marine grade epoxy-urethane paint	Pump Performance	3,500 gpm (220 liter/sec) @ 143 ft. (43.6 m) TDH (slurry s. g. 1.25) @ 881 rpm w/2,000 ft. (609 m) discharge length
Displacement	31,500 lbs. (14,300 kg)	Speed (variable)	0 to 880 rpm
Draft	30 in. (762 mm)	<b>Controls</b>	
<b>Working Capacity</b>		Electronic joystick controls are provided in a climate controlled cab.	
Cut	108 in. (2,743 mm) wide x 22 in. (559 mm) deep	<b>Propulsion</b>	
Working Depth	22 ft. ( 6.1 m)	STARWHEEL® Drive Self-Propulsion system; cable drive optional	
<b>Engine</b>		STARWHEELS® are individually operated for high maneuverability.	
Type	John Deere Diesel Model 6090HF070, 6-cylinder 9.0 L, 325 HP (242 kW) @ 2,200 rpm,	Speed (variable)	0 to 15 rpm (starwheel drive) 0 to 55 fpm (cable drive)
Fuel Capacity	300 gal. (1,135 liters)	<b>Electrical System</b>	
Fuel Consumption	15.9 gal./hr. (60.3 lit./hr.)	Voltage	12 volt, negative ground
<b>Hydraulic Systems</b>		Alternator Output	130 Amp
Circuit #1	Slurry Pump 7.6 in <sup>3</sup> /rev. 72 gpm (4.54 liter/sec.) @ 4,500 psig	<b>Corrosion Protection</b>	
Circuit #2	Cutterhead, Boom, Winches and STARWHEELS® 7.9 in <sup>3</sup> /rev. load sense 75 gpm (4.73 liter/sec.) @ 2,500 psig	Standard Paint	Superstructure and hull are sandblasted and painted with two coats of marine epoxy suitable for saltwater service. A self healing zinc clad undercoating is applied to above deck surfaces. The cab is made with galvaneal steel. Submerged surfaces are top coated with two coats of anti-fouling paint. Average paint thickness is 12 mils minimum.
Reservoir	120 gal. (454 liters)	Cathodic protection	Standard
Filtration	1 tank mounted return filter with a 3-micron rating and indicator suction filter for the slurry pump circuit 3-micron rating and indicator filter with water removal capability are optional	<b>Available Accessories</b>	
<b>Cutterhead</b>		Talk with a representative about options and custom features available	
Cutterbar	Diameter 22 in. (559 mm) Length 108 in. (2,743 mm) Replaceable hardened steel excavator blades; available with paddlebar for materials that are easily slurried	<b>Hourly Estimated Operating Costs</b>	
Drive	Recessed dual hydraulic motor; direct drive with no gear reduction	Fuel @ \$3.00/gallon	\$47.70
Speed (variable)	0 to 95 rpm @ 2,500 psi	Insurance	2.00
Torque	19,100 in.-lbs. (2,158 N-m) @ 2,500 psi	Labor (2 Men @ \$16.00/Hr.)	32.00
		Maintenance (Filters, etc.)	1.20
		Accrued Mechanical Overhaul	4.00
		Pump & Cutterhead Wear	5.75
		Hull Maintenance	3.60
		<b>Hourly Estimated Operating Cost in Country Currency</b>	<b>\$96.25</b>
		<b>*Prices subject to local economics</b>	

NOTE: Specifications subject to change without notice.