

IMS Model 5012 HP Versi-Dredge®



OPERATING DIMENSIONS

Length	45 ft. 6 in. (13.9 m)
Width	11 ft. 3 in. (3.4 m)
Height	10 ft. (3.1 m) w/pre cleaner removed
Weight (less fuel)	30,445 lbs. (13,180 kg)

FLOTATION

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" plate tops, internal bulkheads and stiffeners, and painted w/ a marine grade epoxy paint
Displacement	31,500 lbs. (14,300 kg)
Draft	30 in. (762 mm)

WORKING CAPACITY

Cut	108 in. (2,743 mm) wide x 22 in. (559 mm) deep
Working Depth	22 ft. (6.7 m)

ENGINE

Type	John Deere Diesel Model 6090HF070; 6-cylinder 9.0 L, 325 HP (242 kW) @ 2,200 rpm
Fuel Capacity	300 gal. (1,135 liters)
Fuel Consumption	15.9 gal./hr. (60.3 lit./hr.)

HYDRAULIC SYSTEMS

Circuit #1	Slurry Pump 7.6 in ³ /rev. 72 gpm (4.54 liter/sec.) @ 5,500 psig
Circuit #2	Cutterhead, Boom, Winches and STARWHEELS® 7.9 in ³ /rev. load sense 75 gpm (4.73 liter/sec.) @ 2,500 psig
Reservoir	120 gal. (454 liters)
Filtration	1 tank mounted return filter with a 10-micron (min.) rating with an indicator and cab warning light. Slurry pump circuit remote charge filter 6-micron (min.) rating with an indicator and cab warning light. Filter with water removal capability are optional.

SOLIDSMASTER CUTTERHEAD

Cutterbar Diameter	22 in. (559 mm)
Cutterbar Length	108 in. (2,743 mm)
Drive	Recessed dual hydraulic motor; direct drive with no gear reduction
Speed (variable)	0 to 95 rpm @ 2,500 psi
Torque	23,885 in.-lbs. (2,969 N-m) @ 2,500 psi (peak)
Cutterhead Tip Force	2,171 lbs. (9,657 N)
Cutterhead Teeth	Replaceable hardened steel excavator blades; available with paddlebar for materials that are easily slurried

DREDGE PUMP

Type	GIW cast iron pump
Discharge Diameter	8 in. (203 mm)
Suction Diameter	10 in. (254 mm)
Impeller Diameter	24 in. (610 mm)
Sphere Passage	4 in. (101 mm)
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.
Speed (variable)	0 to 880 rpm

CONTROLS

Controls	Electronic joystick controls are provided in a climate controlled cab
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PROPULSION

Propulsion	STARWHEEL® Drive Self-Propulsion system; cable drive optional STARWHEELS® are individually operated for high maneuverability
Speed (variable)	0 to 15 rpm (starwheel drive) 0 to 55 fpm (cable drive)

ELECTRICAL SYSTEM

Voltage	12 volt, negative ground
Alternator Output	130 Amp

CORROSION PROTECTION

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.
Cathodic protection	Standard

AVAILABLE ACCESSORIES

Accessories	Talk with a representative about options and custom features available.
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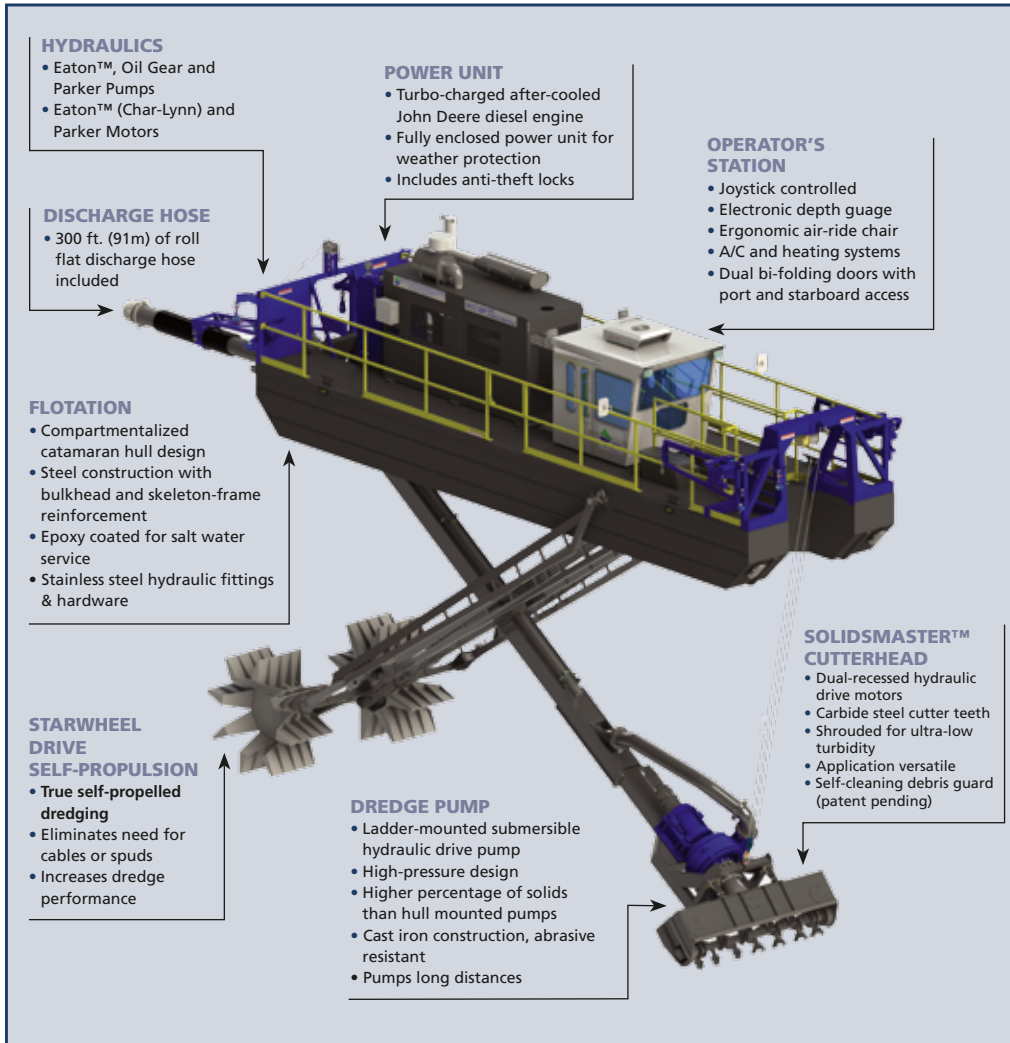
HOURLY ESTIMATED OPERATING COSTS (\$USD)

Fuel @ \$2.50/gallon	\$39.95
Insurance	2.00
Labor (2 men @ \$16/hr.)	32.00
Maintenance (filters, seats, etc.)	1.20
Accrued Mechanical Overhaul	4.00
Pump & Cutterhead Wear	6.00
Hull Maintenance	3.60

Estimated Hourly Operating Cost \$88.30

Prices subject to local economics

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



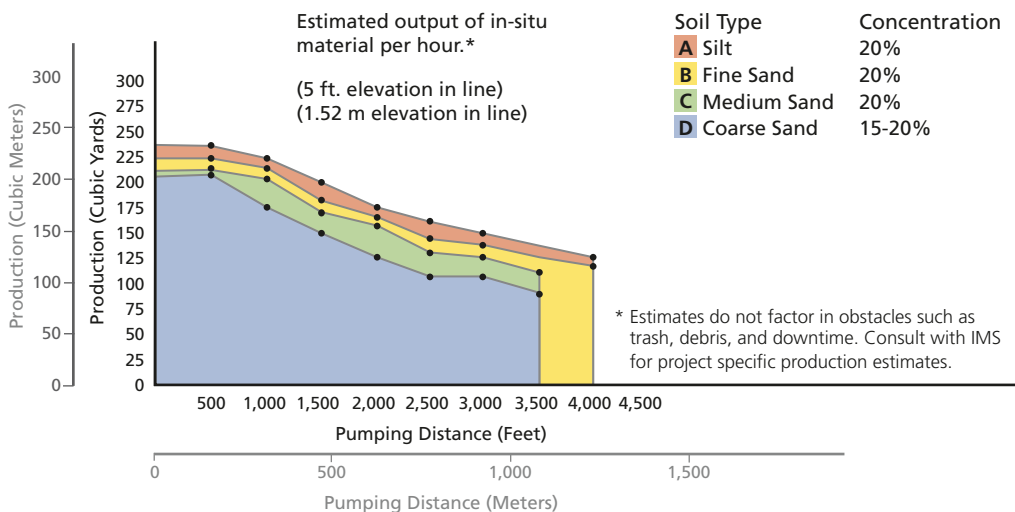
All Versi-Dredge® models come standard with joystick controls and oversized gauges for ease of operation.

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
- Sound system

OPTIONAL EQUIPMENT

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



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