



IMS Model 5012 LP Versi-Dredge[®]

OPERATING DIMENSIONS

Length	42 ft. 5 in. (12.9 m)
Width	11 ft. 3 in. (3.4 m)
Height	10 ft. (3.1 m) w/pre cleaner removed
Weight (less fuel)	28,000 lbs. (12,700 kg)

FLOTATION

Pontoons	Two (2) pontoons, 39 in. x 38 in. x 360 in. (990 mm x 960 mm x 9,150 mm); 10 ga. steel sides, bottom and 1/4" plate tops, internal bulkheads and stiffeners, and painted w/ a marine grade epoxy paint
Displacement	29,200 lbs. (13,200 kg)
Draft	30 in. (760 mm)

WORKING CAPACITY

Cut	108 in. (2,740 mm) wide x 22 in. (560 mm) deep
Working Depth	22 ft. (6.7 m); extensions available to 28 ft. (8.5 m)

ENGINE

Type	John Deere Diesel Model 6090AFM85; 6-cylinder 9.0 L, 325 HP (242 kW) @ 2,200 rpm
Fuel Capacity	300 gal. (1,135 liters)
Fuel Consumption	18.9 gal./hr. (71.4 lit./hr.)

HYDRAULIC SYSTEMS

Circuit #1	Slurry Pump 6.4 in ³ /rev. 60 gpm (3.78 liter/sec.) @ 5,500 psi
Circuit #2	Cutterhead, Boom, Winches and STARWHEELS [®] 7.9 in ³ /rev. load sense 75 gpm (4.73 liter/sec.) @ 2,500 psi
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. (560 mm)
Cutterbar Length	108 in. (2,740 mm)
Drive	Recessed dual hydraulic motor; direct drive with no gear reduction
Speed (variable)	0 to 60 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	IMS
Discharge Diameter	12 in. (305 mm)
Suction Diameter	9.75 in. (248 mm)
Impeller Diameter	19.25 in. (489 mm)
Sphere Passage	6 in. (152 mm)
Pump Performance	3,500 gpm (220 liter/sec.) @ 65 ft. (19.8 m) TDH (water) @ 900 rpm. Available rubber lined for use in abrasives.
Speed (variable)	0 to 990 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	24 volt, negative ground
Alternator Output	200 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.
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AVAILABLE ACCESSORIES

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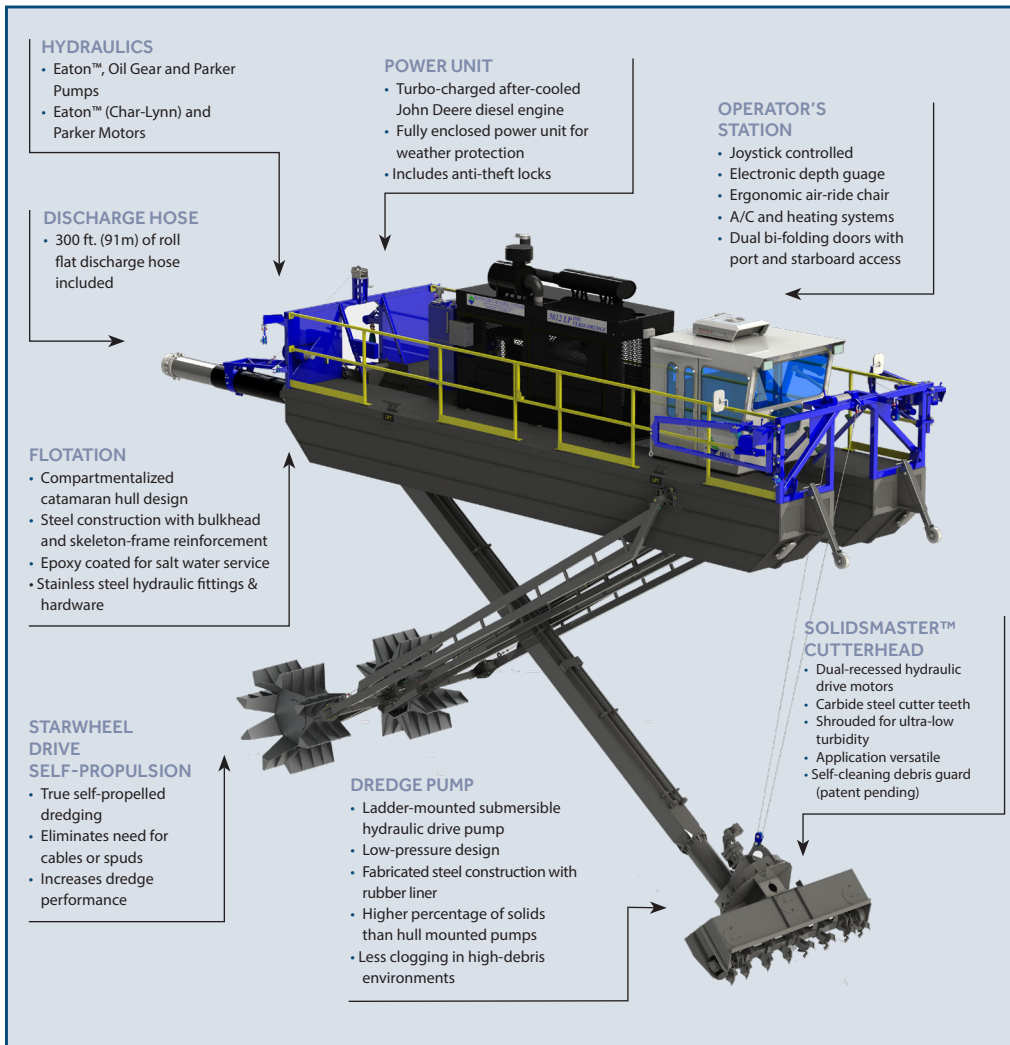
HOURLY ESTIMATED OPERATING COSTS (\$USD)

Fuel @ \$2.50/gallon	\$39.75
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	\$88.55

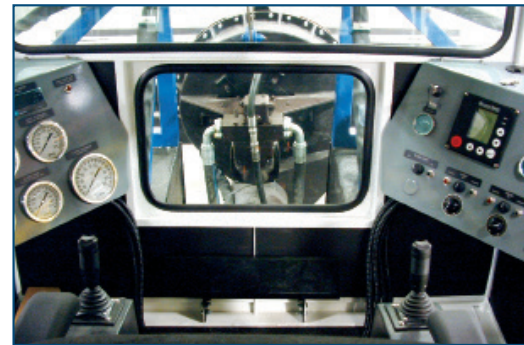
Prices subject to local economics

NOTE: Specifications subject to change without notice.

IMS Model 5012 LP Versi-Dredge®



A Model 5012 LP removes silt from channels at a resort in the Middle East.



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

- WeedMaster® Cutterhead
- Weed Rake
- Broadcaster Discharge Attachment
- GPS System (w/sub-meter accuracy)
- Slurry thickness tattle tail
- Pipe, hose, saddle floats
- Navigation lights
- Spotlight
- Closed loop video monitor for discharge

