

# 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)	27,915 lbs. (12,662 kg)

## FLOTATION

Pontoons	Two (2) pontoons, 39 in. x 38 in. x 360 in. (991 mm x 965 mm x 9,144 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. (13,245 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); extensions available to 28 ft. (8.5 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 6.4 in <sup>3</sup> /rev. 60 gpm (3.78 liter/sec.) @ 5,500 psig
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
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.

## SOLIDSMASER 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	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	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.
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## AVAILABLE ACCESSORIES

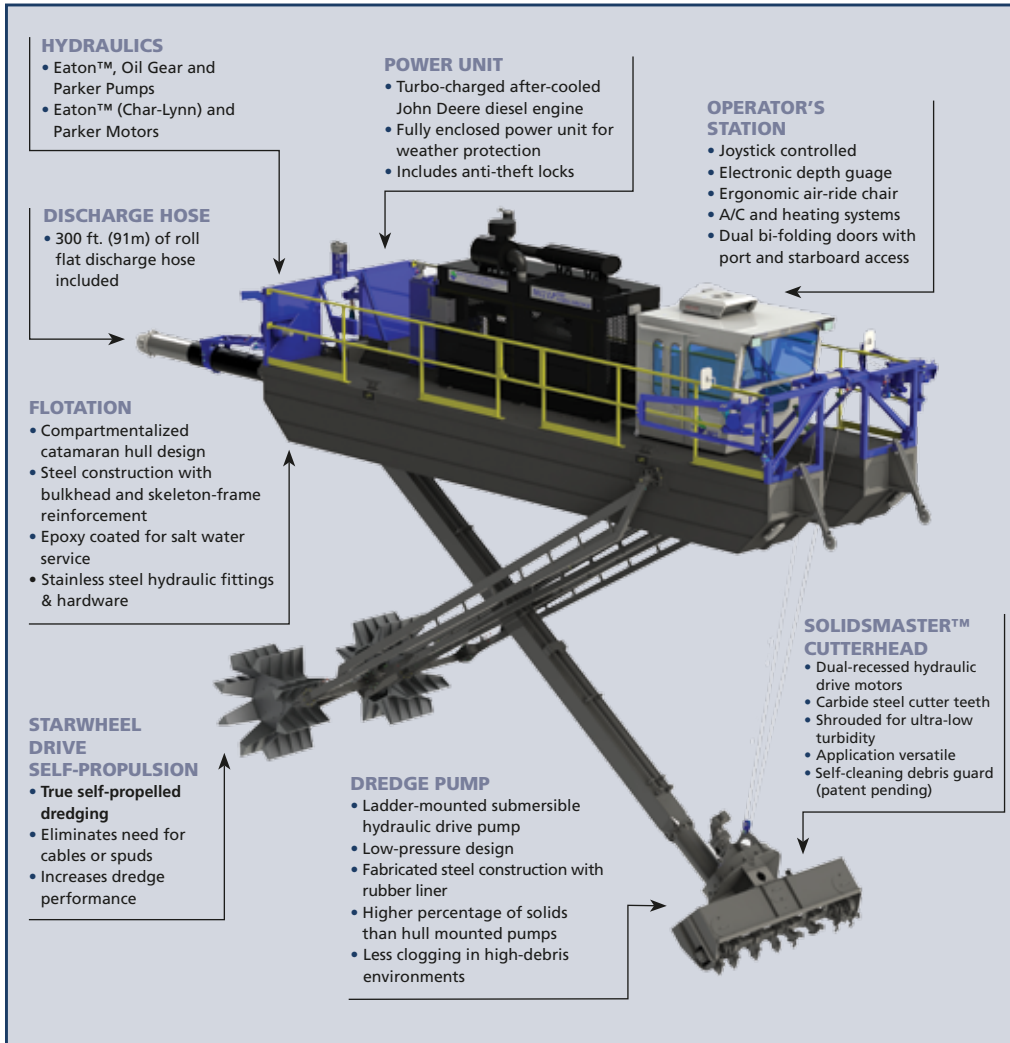
Accessories	Talk with a representative about options and custom features available.
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## HOURLY ESTIMATED OPERATING COSTS (\$USD)

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
<b>Estimated Hourly Operating Cost</b>	<b>\$88.55</b>

Prices subject to local economics

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



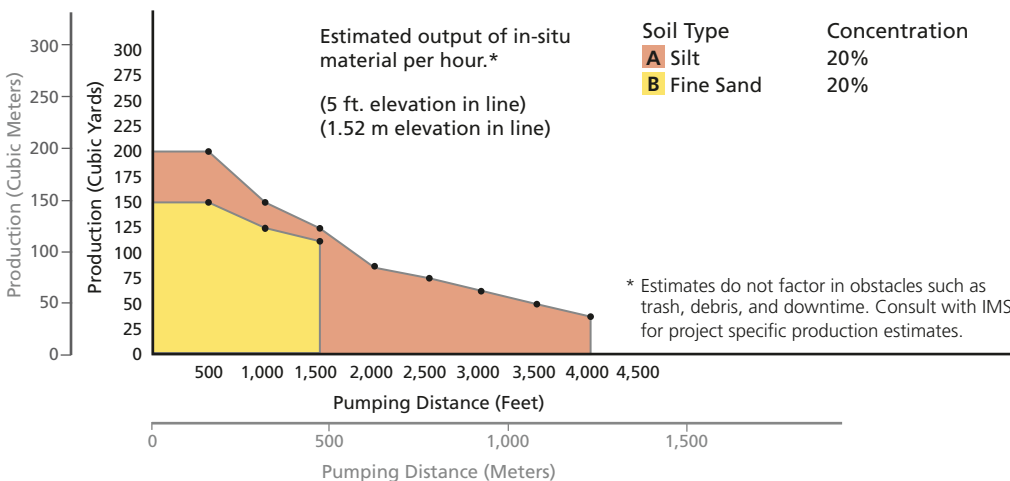
All Versi-Dredge® models come standard with joystick controls and oversized gauges for ease of operation.

## 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



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Recipient of the U.S. President's E-Award

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