

# 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. 5 in. (3.2 m)
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	37,000 lbs. (16,780 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)

## ENGINE

Type	John Deere Diesel Model 6090AFM85; 6-cylinder 9.0 L, 375 HP (280 kW) @ 2,300 rpm. EPA Marine Tier 3.
Fuel Capacity	300 gal. (1,135 liters)

## HYDRAULIC SYSTEMS

Circuit #1	Slurry Pump 6.4 in <sup>3</sup> /rev. 60 gpm (3.78 liter/sec.) @ 4,500 psi
Circuit #2	Cutterhead, Boom, Winches and STARWHEELS® 7.9 in <sup>3</sup> /rev. load sense 75 gpm (4.73 liter/sec.) @ 2,500 psi
Reservoir	120 gal. (454 liters)
Filtration	1 reservoir 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 (795 m <sup>3</sup> /hr) @ 65 ft. (19.8 m) TDH (water) @ 900 rpm
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 infrastructure in place (cables & anchor plates sold separately)
Speed (variable)	0 to 15 rpm (STARWHEELS - on surface), 2 knot sailing speed 0 to 7 rpm (STARWHEELS) - underwater 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. Average paint thickness is 12 mils minimum. Hull fitted with zinc anodes.
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## AVAILABLE ACCESSORIES

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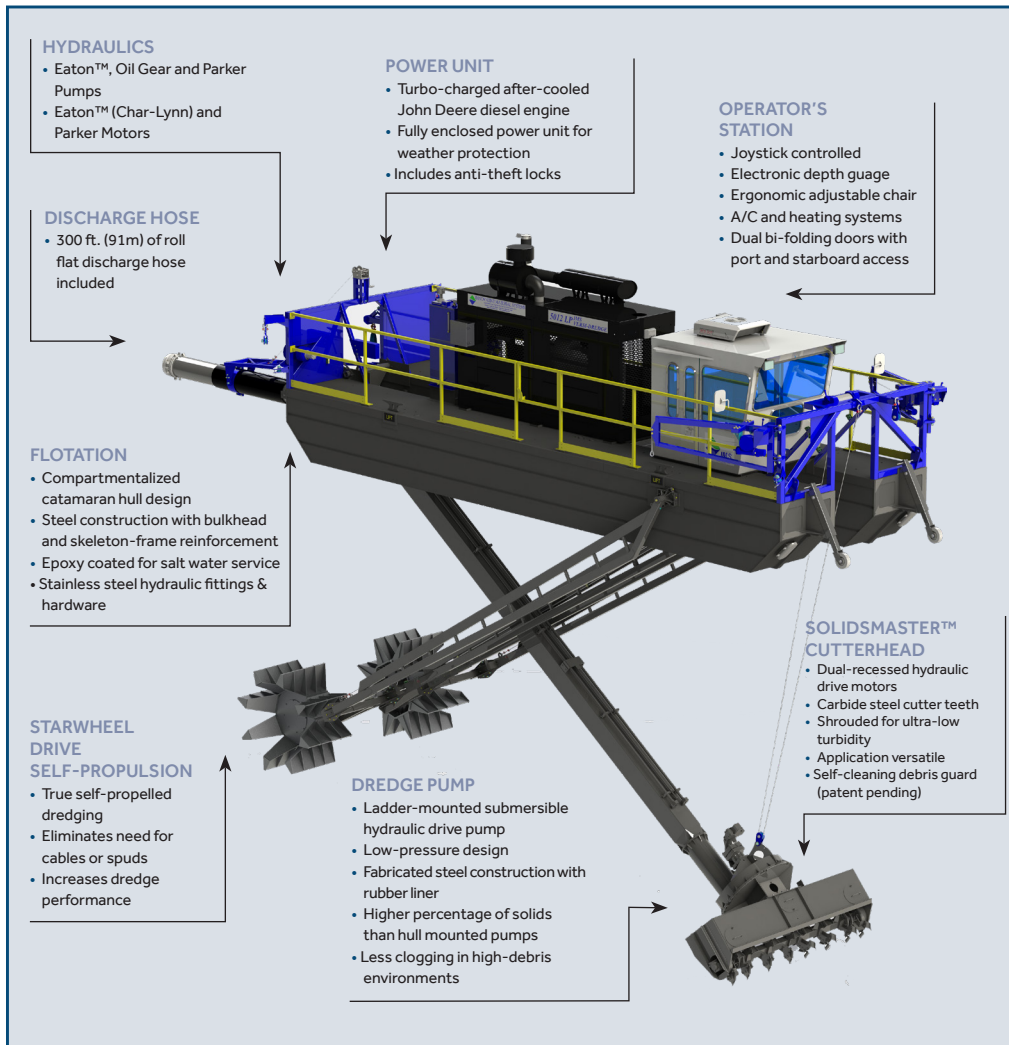
## HOURLY ESTIMATED OPERATING COSTS (\$USD)

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

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

Rubberized discharge hose w/ quick disconnect fittings (6 x 50 ft.)

12 saddle type hose floats

Fully enclosed engine compartment

Patented Pump Defender® self-cleaning debris guard

Patented Starwheel Drive® self-propulsion system

Slurry sample line with toggle switch in cab

Modern climate-controlled operators' cabin (A/C & Heat)

Easy to use joystick controls for all dredge functions

Back up cable drive system for lined ponds, etc.

Rear back up camera w/ color display in cabin

Digital depth gauge

Nighttime operating lights

360-degree spotlight with toggle switch in cab

Marine grade sound system

Safety package (life ring, first aid kit, life vests, and fire extinguisher)

Telematics Ready

Anti-Corrosion package (stainless fittings & hardware)

## 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

FEATURES	BENEFITS
<b>Superior Pump Design</b>	12 in. (305mm) Hardox steel pump with rubber liner for abrasive service. Ladder mounted for higher solids than the competition. Proven worldwide for low downtime and easy maintenance.
<b>High Solids Pump</b>	Standard pump passes 6 inch (152mm) spherical solids.
<b>Self-Propelled</b>	Includes Patented Starwheel Drive self-propulsion system that allows for maximum maneuverability in lakes, canals, and rivers where setting anchors is not ideal. Patent pending Traction Master technology allows for higher speed paddling on surface that automatically switches to high torque mode when operating on the bottom of the water body for maximum traction control.
<b>Powerful Cutterhead</b>	23,885 in.-lbs. torque with replaceable hard faced carbide steel trencher teeth.
<b>Fully Enclosed Power Unit</b>	Power unit has locking security doors and full shroud to protect from the elements and potential vandalism.
<b>One Truck Transportable</b>	Ships fully assembled and requires no installation of side tanks, spuds, or separate dredge ladder.
<b>Dredging Depth</b>	22 ft. (6.7m) standard dredging depth allows for greater project versatility. Deepest in its class.
<b>Modern Operator's Cab</b>	Spacious, climate controlled operators cabin with electronic over hydraulic joystick controls, rear back up camera w/ color monitor, 360 degree spot light, digital depth gauge, CANbus system for easy trouble shooting with factory, oversized analog back-lit gauges, sound system, fan, horn, windshield wipers, and dual folding doors for easy access to port and starboard decks.
<b>Pump Defender (Patented)</b>	Standard patented Pump Defender allows for cleaning of the pump inlet after every revolution of the cutterhead to greatly reduce down time in debris rich environments by up to 80%.
<b>Vegetation Cutterhead (Patented)</b>	Optional patented WeedMaster cutterhead converts the 5012 LP into a hydraulic weed harvesting system that will cut hyacinths, reeds, and other types of vegetation into small pieces and pump them up to 3,280 ft. (1km) away (requires open impeller option).
<b>Clean Dredge Deck</b>	No obstructions on deck and clear pathways from front to back and port and starboard decks. All components are designed for easy access and maintenance.
<b>Complimentary Flexible Discharge Package</b>	Includes 300 ft. (91m) of heavy duty flexible, roll-flat discharge hose and floats to give the dredge maximum maneuverability when connected to the hard discharge line.
<b>Service and Support</b>	12 month warranty with lifetime phone and e-mail support. Warranty site visits anywhere in the world if problem cannot be solved via phone. Largest field service staff in the transportable dredge industry backed by a dedicated Customer Project Coordinator for rapid communication.



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

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