

IMS Model 7012 HP Versi-Dredge®



OPERATING DIMENSIONS

Length	51 ft. 5 in. (15.7 m)
Width	12 ft. (3.66 m)
Height	10 ft. 5 in. (3.2 m) w/air cleaner removed
Weight (less fuel)	47,700 lbs. (21,636 kg)

INTERNATIONAL SHIPPING DIMENSIONS

Length Option	49 ft. 2 in. (15 m) - STARWHEELS removed
Width	12 ft. (3.66 m)
Height	10 ft. (3.1 m) w/ muffler and air filter removed
Weight (less fuel)	46,300 lbs. (21,000 kg)
Shipping Method	break bulk service + 20' ocean container

FLOTATION

Dimensions	Two (2) pontoons, 45 in. x 43 in. x 468 in. (1,143 mm x 1,092 mm x 11,887 mm); 10 ga. Steel sides, bottom and 1/4" diamond plate tops; internal bulkheads and stiffeners.
Displacement	51,562 lbs. (23,388 kg)
Draft	35 in. (889 mm)

WORKING CAPACITY

Cut	135 in. (3,430 mm) wide x 26 in. (660 mm) deep
Working Depth	30 ft. (9.1 m) w/ Starwheel Drive System
Working Depth	32.8 ft. (10.0 m) w/ Cable Drive System

ENGINE

Type	John Deere Diesel Model 6135HF485; 6 cylinder 13.5 L, 445 HP (332 kW) @ 1,900 rpm
Fuel Capacity	400 gal. (1,516 liters)
Fuel Consumption	22.0 gal./hr. (83.3 lit./hr.)

CUTTERHEAD

Cutterbar Diameter	26 in. (660 mm)
Cutterbar Length	135 in. (3,430 mm)
Replaceable Carbide Teeth	LEAD: pick / FOLLOW: shovel
Drive	Recessed dual hydraulic motor; direct drive with no gear reduction
Speed (variable)	0 to 60 rpm @ 2,500 psi
Cutterhead Torque	23,885 in.-lbs. (2,969 N-m) @ 2,500 psi (peak)
Cutterhead Tip Force	1,837 lbs. (8,171 N)
Cutterhead Rotation	Bi-rotational

DREDGE PUMP

Type	GIW Cast Iron LCC-M 250-660
Discharge Diameter	10 in. (254 mm)
Suction Diameter	12 in. (304 mm)
Impeller Diameter	26 in. (660 mm)
Sphere Passage	5.0 (127 mm)
Pump Performance	5,000 gpm (315 liter/sec.) @ 125 ft. (38.1 m) TDH (slurry s.g. 1.25) @ 760 rpm w/ 2,000 ft. (610 m) discharge length.
Speed (variable)	0 to 760 rpm
Recommended Pipe	12 in. (305 mm), 26 SDR HDPE pipe

PROPULSION

Primary System	Patented Starwheel Drive self-propulsion
Secondary System	Cable drive system

ELECTRICAL SYSTEM

Voltage	12 volt, negative ground
Alternator Output	130 Amp

SAFETY FEATURES

Includes	2 fire extinguishers, hand rail system, dual folding cabin doors, dual warning horns, 1 life ring, 2 life jackets, locking power unit
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ANTI-CORROSION FEATURES

Includes	Hull below deck is painted with a marine-grade epoxy, above hull deck painted with polyurethane epoxy, and remaining components are coated with heavy duty powder coating all suitable for salt water service. Also includes stainless steel hydraulic lines, fittings, and all suitable hardware.
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DECIBEL LEVELS (dB)

Idle (in cab)	66 dB
1,900 rpm (inside cab)	77 dB
2,200 rpm (inside cab)	78 dB
2,200 rpm (@ 25 ft.)	92 dB
2,200 rpm (@ 50 ft.)	85 dB
2,200 rpm (@ 100 ft.)	79 dB
2,200 rpm (@ 200 ft.)	55 dB

HOURLY ESTIMATED OPERATING COSTS (\$USD)

Fuel @ \$4.00/gallon	\$88.00
Insurance	2.00
Labor (1 operator @ \$16/hr.)	16.00
Labor (1 assistant @ \$12/hr.)	12.00
Maintenance (filters, seats, etc.)	1.20
Accrued Mechanical Overhaul	4.00
Pump & Cutterhead Wear	5.00
Hull Maintenance	3.60
Estimated Hourly Operating Cost	\$131.80

EQUIPMENT

	STANDARD	OPTIONAL
300 ft. (91 m) flexible discharge hose	X	
12 discharge hose/pipe floats	X	
Climate Control (A/C & Heat)	X	
Close-looped discharge line video monitor	X	
U.S. hand tool kit and tool box	X	
Rock guard	X	
Night time operating lights	X	
360 degree spotlight with toggle switch	X	
Digital depth gauge	X	
Marine Grade Sound System	X	
USB Port	X	
12 in. (305 mm) discharge pipe/hose		X
Bi-Directional Broadcaster		X
Dredging GPS System		X
Cable Drive set-up package		X
Dredge navigation lights		X
Spare Parts		X
Booster Pumps w/ custom instruments		X
Environmental Plus Cutterhead		X

NOTE: Specifications subject to change without notice.

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HYDRAULICS

- Pumps by Parker & Gold Cup
- Motors by Parker & Eaton

POWER UNIT

- Turbo-charged after cooled 6 cylinder, 445 HP John Deere diesel engine
- Weather enclosure with locking doors

OPERATOR'S STATION

- Joystick controlled
- Electronic depth gauge
- Ergonomic air-ride chair
- A/C and heating systems
- Dual bi-folding doors with port and starboard access
- Full color discharge line video monitor

DISCHARGE HOSE

- 300 ft. (91m) of roll flat discharge hose and hose floats included

FLOATATION

- Compartmentalized catamaran hull design
- Steel construction with bulkhead and skeleton-frame reinforcement

STARWHEEL DRIVE SELF-PROPULSION

- True self-propelled dredging
- Eliminates need for cables or spuds
- Increases dredge performance

DREDGE PUMP

- Ladder-mounted submersible hydraulic drive pump
- Constructed with GIW's patented Gasite hi-chrome white iron
- Passes up to a 5 inch (127mm) solid
- Pumps more solids than hull mounted pumps

EXCAVATOR CUTTERHEAD

- Dual-recessed hydraulic drive motors
- Replaceable carbide steel cutter teeth
- Shrouded for ultra-low turbidity
- Application versatile



A Model 7012 HP Versi-Dredge® mines sand from a river in Monrovia, Liberia.



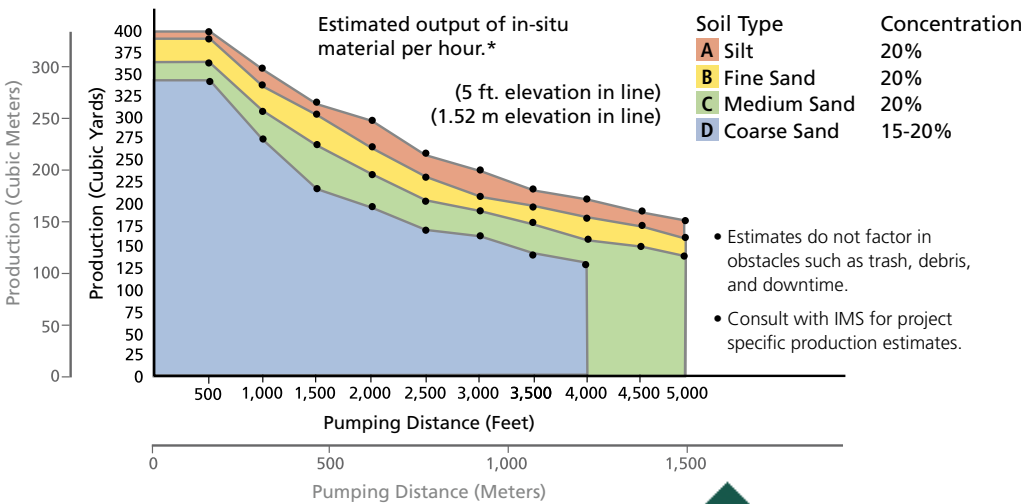
All Versi-Dredge® models come standard with joystick controls and oversized gauges for ease of operation.

SOLIDSMASTER®
STANDARD

The IMS SolidsMaster® cutterhead and pump system is a rugged sand and sediment excavation system coupled with an environmental shroud and a work horse GIW sand and gravel pump that will give you more solids per hour than hull mounted systems.

WEEDMASTER®
OPTIONAL

The IMS patented WeedMaster® cutterhead and pump system makes the Versi-Dredge the only dredge in the world capable of cutting and pumping floating and rooted vegetation up to 1km away without transport barges.



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

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