

IMS Model 7012 HP JetMaster™



OPERATING DIMENSIONS

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|--------------------|---|
| Length | 51 ft. 5 in. (15.7 m) |
| Width | 12 ft. (3.66 m) |
| Height | 10 ft. 11 in. (3.4 m) air cleaner removed |
| Weight (less fuel) | 51,700 lbs. (23,450 kg) |

FLOTATION

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| Pontoons | Two (2) pontoons, 51 in. x 43 in. x 468 in. (1,300 mm x 1,090 mm x 11,900 mm); 10 ga. steel sides and bottom with 1/4" diamond deck; internal bulkheads and stiffeners; and painted w/ a marine grade epoxy-urethane paint |
| Displacement | 52,000 lbs. (23,600 kg) |
| Draft | 39.5 in. (1000 mm) |

WORKING CAPACITY

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| Cut | 135 in. (3,430 mm) wide x 26 in. (660 mm) deep |
| Working Depth | 30 ft. (9.1 m) |

JETMASTER

| | |
|---------------------|---------------------------------------|
| Pump flow | 500 gpm (31.5 liter/sec.) peak |
| Pressure | 170 psi peak per nozzle |
| Jet Nozzles | 24 Total (2 each side, 20 across top) |
| Jet Flow per Nozzle | 19.2 gpm (1.21 liter/sec.) |
| Controls | On/Off Switch - Adjustable Flow |

ENGINE

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|---------------|---|
| Type | John Deere Diesel Model 6135HF485; 6 cylinder 13.5 L, 550 HP (410 kW) @ 2,100 rpm |
| Fuel Capacity | 400 gal. (1,500 liters) |

HYDRAULIC SYSTEM

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| Circuit #1 | Slurry Pump 11.4 in ³ /rev. 110 gpm (6.94 liter/sec.) @ 5,000 psi (34.5 MPa) |
| Circuit #2 | Cutterhead, Boom, Winches and Starwheels* 8.5 in ³ /rev. load sense 82.5 gpm (5.20 liter/sec.) @ 2,500 psi (17.2 MPa) |
| Circuit #3 | Jetpump 6.0 in ³ /rev. 58.8 gpm (3.71 liter/sec.) @ 4,000 psi (27.6 MPa) |
| Reservoir | 120 gal. (454 liters) |
| Filtration | 1 tank mounted return filter with a 5-micron (min.) rating with indicator and cab warning light remote charge filter for the slurry pump circuit 5-micron rating (min.) with indicator and cab warning light Water removal filters as an option |

DREDGE PUMP

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| 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. (609 m) discharge length. |
| Speed (variable) | 0 to 760 rpm |

CUTTERHEAD

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|----------------------|---|
| Cutterbar | Diameter: 26 in. (660 mm) Length: 135 in. (3,430 mm) Replacable hardened steel excavator blades available with paddlebar for materials that are not easily slurried |
| 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. (2,968 N-m) @ 2,500 psi (peak) |
| Cutterhead Tip Force | 1,837 lbs. (8,171 N) |

CONTROLS

Electronic joystick controls are in a climate controlled cab.

PROPULSION

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| | STARWHEEL® Drive Self-Propulsion system; cable drive optional STARWHEELS® are individually operated for high maneuverability |
| Speed (variable) | 0 to 31 rpm (surface) 0 to 7 rpm (underwater) |

ELECTRICAL SYSTEM

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| Voltage | 12 volt, negative ground |
| Alternator Output | 130 Amp |

CORROSION PROTECTION

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| 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 is 12 mils minimum. |
| Cathodic protection | Standard |

AVAILABLE ACCESSORIES

Talk to a representative about options and custom features available.

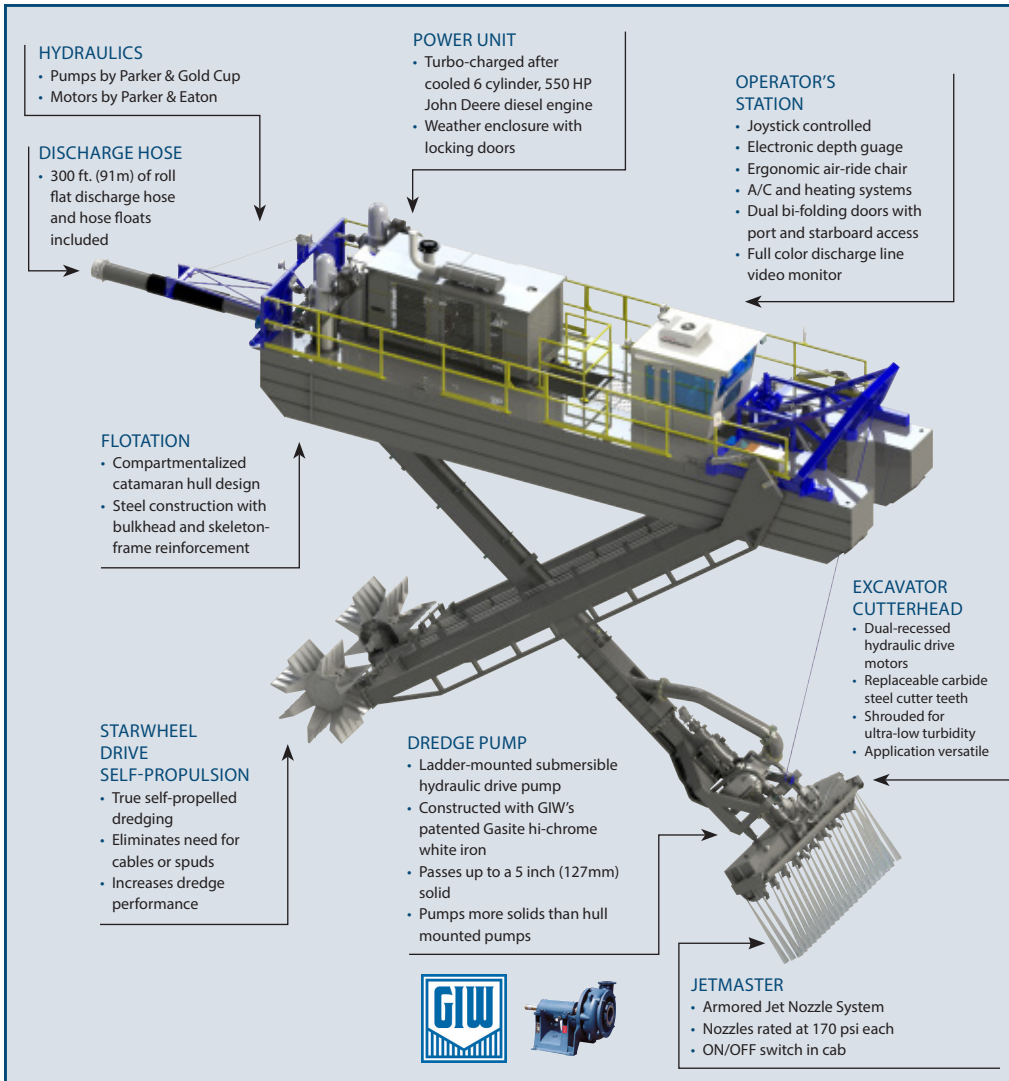
HOURLY ESTIMATED OPERATING COSTS (\$USD)

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|---------------------------------|----------|
| Fuel @ \$3.00/gallon | \$78.50 |
| Insurance | 2.00 |
| Labor (2 men @ \$16/hr.) | 32.00 |
| Maintenance (filters, etc.) | 1.20 |
| Accrued Mechanical Overhaul | 4.00 |
| Pump & Cutterhead Wear | 5.00 |
| Hull Maintenance | 3.60 |
| Estimated Hourly Operating Cost | \$126.30 |
| Country Currency | |

NOTE: Specifications subject to change without notice.



IMS Model 7012 HP JetMaster™



The JetMaster system is one truck transportable like all Versi-Dredge models, but it adds an extra layer of versatility.



The JetMaster manifold is armored with heavy duty steel to prevent damage from direct impact with the material face.



Each jet nozzle produces 170 psi.

JetMaster Mode 1: JET EXCAVATION

When the operator encounters more compact sands or a clay lense, the 100 HP (patent pending) JetMaster system can be turned ON and force 500+ gallons per minute of water through 24 jet nozzles, positioned on the top and sides of the SolidsMaster Cutterhead shroud, that produce 170 psi each. The high pressure jets help slurry compacted materials and increase production volume.

JetMaster Mode 2: ENVIRONMENTAL DREDGING

Standard dredging operation with the (patent pending) JetMaster switched OFF allows the operator to remove loose and moderately compacted materials with the environmental shrouded SolidsMaster Cutterhead that is ideal for low turbidity dredging applications.



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