

Vessel: IMS Versi-Dredge 7012 HP **Name: MURJAN AL SHARQ 7012**



GENERAL

Type of Vessel	:Dredger
Basic Functions	:Dredging Sand and Silt
Builder	:IMS, Liquid Waste Technology LLC
Place	:United States
Build Date	:February 2010
Delivery Date	:February 2011
Equipment	:Hydraulic Excavator Cutter Head, 317 kW Hydraulic Power Unit
Hull Material	:Steel
Hull Info	:Anti-Corrosion Feature
Cathodic Protection	:Standard

BOAT REGISTRY

Ship's Name	:Murjan Al Sharq 7012
Flag	:Saudi Arabia
Versi-Dredge Serial Number	:3124
Official Number	:4349

DIMENSIONS AND WEIGHT

Gross Tonnage 69	:25 tons
Net Tonnage 69	:18 tons
Overall Length	:15.7 m
LPP	:14.98 m
Breadth	:3.66 m
Depth	:3.20 m
Draught	:0.89 m
Freeboard	:300 mm
Height w/o Air Cleaner	:3.2 m
Weight (Less Fuel)	:21,636 kg

PROPULSION SYSTEM

Main Engine	:1x John Deere Diesel Model 6135HF070, 6 cylinder 13.5 L
Total Power	:315 bkW (445 bhp) at 1,900 rpm
Primary System	:Starwheel Drive Self-Propulsion
Secondary System	:Cable Drive

TANK CAPACITY

Fuel Oil	:1.51 m ³ , 400 gal
Fuel Consumption	:0.08 m ³ /hr, 20.6 gal/hr

PERFORMANCE

Speed (Starwheel Drive)	:0 to 15 rpm
Speed (Cable Drive)	:0 to 15 fpm

FLOATATION

Main Floatation	:2x Pontoons
Dimensions	:1.14 m x 1.09 m x 11.89 m
Specification	:10 GA. Steel Sides and Bottom w/ Diamond Deck, Internal Bulkheads and Stiffeners
Paint	:Marine Grade Epoxy-Urethane
Displacement	:27,400 kg

WORKING CAPACITY

Cut	:3.43m Wide x .66 m Deep
Depth	:9.1 m

CONTROLS

Controller	:Electronic Joystick Control
Location	:Climate Controlled Cab

ELECTRICAL SYSTEM

Voltage	:12 V, Negative Ground
Alternator Output	:130 Amp

DREDGE PUMP

Type	:GIW Cast Iron LCC-M-250-660
Discharge Diameter	:254 mm
Suction Diameter	:304 mm
Impeller Diameter	:660 mm
Sphere Passage	:127 mm
Pump Performance	:5,000 gpm (315 L/s) at 38.1 m
Speed (Variable)	:0 to 760 rpm

CUTTERHEAD

Cutterhead Diameter	:26 in (660 mm)
Cutterbar Length	:135 in (3430 mm)
Drive	:Recessed Dual Hydraulic Motor Direct Drive with no Gear Reduction
Speed (Variable)	:0 to 95 rpm @ 2500 psi
Cutterhead Torque	:23885 in -lbs (2969 N-m) @ 2500 psi (peak)
Cutter Tip Force	:1837 lbs (8171 N)
Cutterhead Teeth	:Replaceable Carbide Steel Teeth



STANDARD EQUIPMENT

300 ft. (91m) Flexible Discharge Hose
12 Saddle Type Hose Flat
Fully Enclosed Engine Compartment
Rock Guard
Windlass System for Cable Drive
Climate Control Operator Cabin (A/C and Heat)
Cathodic Protection
Pump/Cutterhead View Window
Joystick Controls
Ergonomic Air Ride Swivel Chair
U.S. Hand Tool Kit and Tool Box
Self-cleaning Debris Guard (Patent Pending)
Night Time Operating Lights
360 Degree Spotlight with Toggle Switch
Digital Depth Gauge
Marine Grade Sound System
USB Port

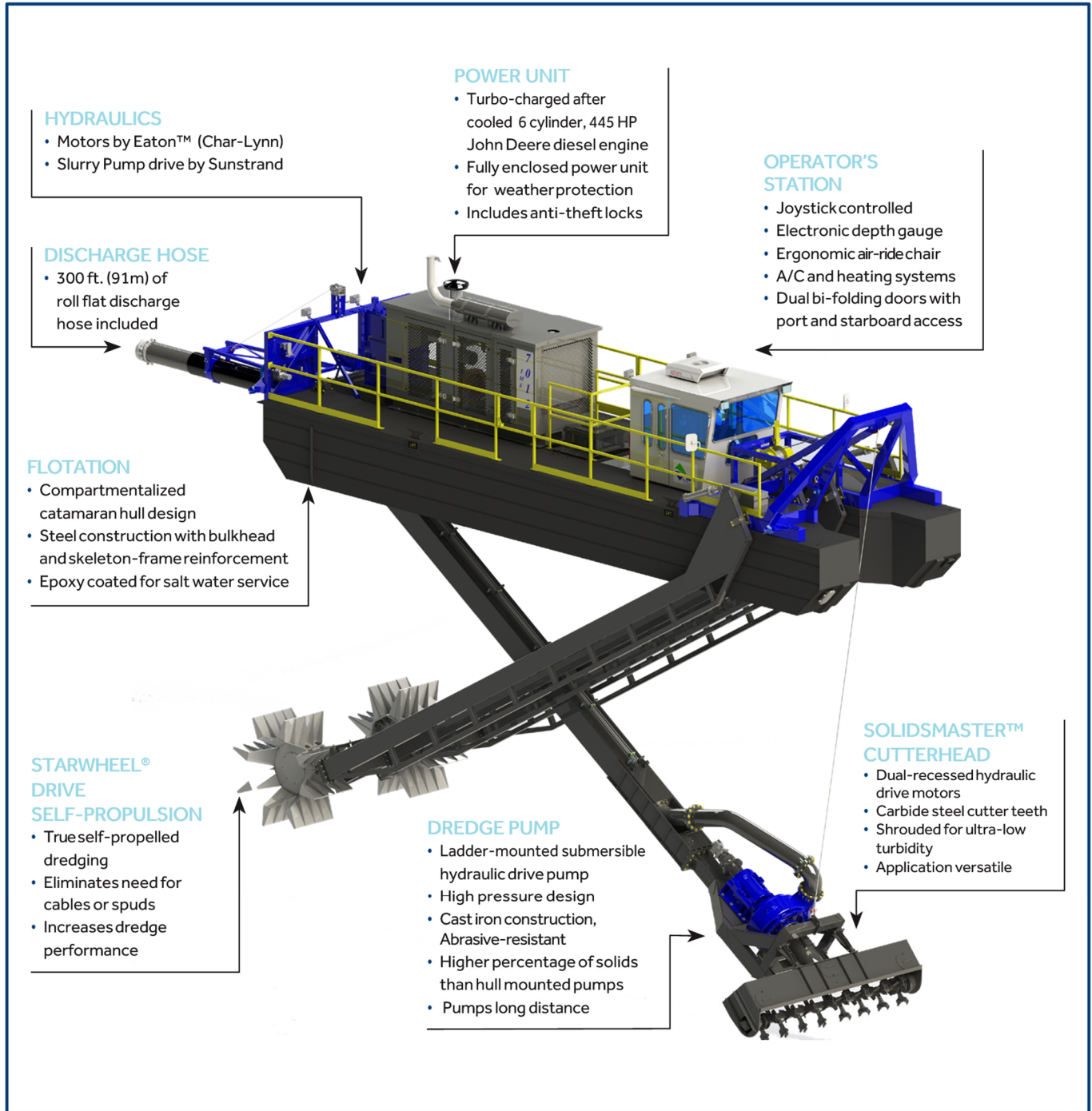


HYDRAULIC SYSTEMS

Circuit #1	:Slurry Pump 14.4 in ³ /Rev 115 gpm (7.3 L/sec) @ 5000 psi (34.5 MPa)
Circuit #2	:Cutterhead, Boom, Winches and STARWHEELS 8.5 in ³ /Rev Loadsense 82 gpm (5.2 L/sec) @ 2500 psi (17.2 MPa)
Reservoir	:120 gal (454 L)
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.

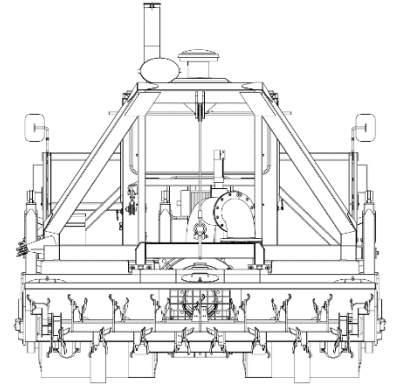


MURJAN AL SHARQ 7012

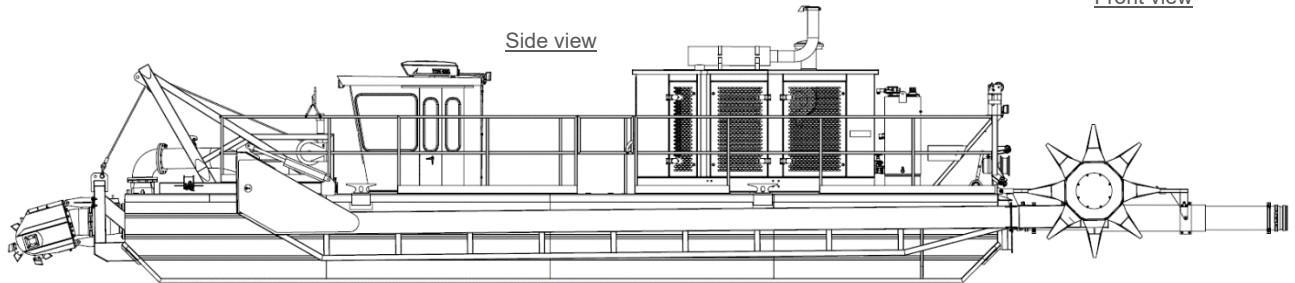


IMS 7012 HP VERSI-DREDGE

MURJAN AL SHARQ 7012



Front view



Side view

