

NEW 2012

8-Inch Swinging Ladder (360SL) Dredge Specifications

GENERAL:

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| Length – Overall w/ Ladder | 58'-8" |
| Width – Hull, Overall (Center Tank) | 10'-0" |
| Width – Shipping, Overall | 10'-6" |
| Width – Operating, Overall | 16'-3" |
| Height – Overall (Without spuds) | 11'-10 1/2" |
| Height – Overall (Shipping) | 10'-0" |
| Dry Weight (Estimated) | 55,000 Lbs. |
| Average Draft (Estimated) | 2'-4" |
| Fuel Capacity (3" Air Space) {Two Independent Fuel Tanks} | 250 U.S. Gallons |

DREDGING DEPTH & RANGE:

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| Minimum Digging Depth | 2' - 4" |
| Maximum Digging Depth | 15' |
| Width of Cut @ 2'-4" Digging Depth | 22'-0" |
| Width of Cut @ 15' Digging Depth | 18'-3" |

HULL:

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| Length | 52'-2" |
| Depth | 3'-6" |
| Width | 10'-0" |
| Minimum Exterior Steel Plate Thickness | 3/16" |

Four (4) Lifting Lugs for lifting complete dredge

DIESEL ENGINE:

John Deere Model 9.0 L 6090HF070 Turbocharged Diesel Engine – Radiator cooled

Meets EPA Regulations

Continuous Power Rating – 375 HP @ 2200 RPM

Sound Reduction Engine Enclosure

12V DC Electrical System

Engine Control Panel w/ Digital Read-outs in Operator's Cab

DREDGE PUMP:

8" Diameter Suction x 8" Diameter Discharge-Hull Mounted

19.5" Diameter 3 Vane Impeller – Thread Mounted on a Heavy-Duty Shaft

Wet End Parts (Impeller, Casing, Suction Cover and Replaceable Rear Liner – 28% High Chrome Alloy Cast Iron (600 BHN Minimum)

Oil Lubricated Bearing Assembly w/ Lip Seal
Rope Packing on Pump End with Water Flush
Anti-friction Roller Bearings for thrust and radial loads

Typical Operating Point – 3,000 GPM @ 150' of Head (water) @ 1132 RPM

Efficiency @ Typical Operating Point – 77 %

Maximum Sphere Size – 3.625"

CUTTER HEAD:

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| Cutter Diameter | 31.5" |
| Number of Blades | 6 |
| Replaceable Blades | Optional |
| Speed Range | 0 – 39 RPM |

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| Cutter HP | 40HP |
| Cutting Force | 4,000 Lb. |
| Unit Cutting Force | 64 Lb./ Inch |

LADDER SWING CYLINDER:

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| Nominal Size | 6" Bore x 16" Stroke |
| Rod Diameter | 2 ½" |

LADDER HOIST CYLINDER:

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| Nominal Size | 6" Bore x 30" Stroke |
| Rod Diameter | 2 ½" |

KICKER SPUD CYLINDER:

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| Advance distance | 2' |
| Nominal Size | 6" Bore x 10" Stroke |
| Rod Diameter | 2 ½" |

SPUD HOIST WINCHES:

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| Spud Control | Power up and power down |
| Type | High Performance, High Efficiency Planetary Hydraulic Winch |
| Line Pull (First Layer) | 5,025 Lb. |
| Line Speed (Up and Down) | 70 FPM |
| Wire Rope Diameter & Type | 1/2"- 6 x 19 Galvanized Wire Rope |

HYDRAULIC SYSTEMS:

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| Pump Drive | Double Pump – Engine-Direct Drive |
| Circuit Type(s) | Dredge Pump - Closed Loop Hydro-Transmission Auxiliary Controls – 7 Bank Proportional Directional Control Valve(s) Cutter Proportional Directional Control Valve |

OPERATOR’S CAB:

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| Construction | Steel Galvannealed Sheet Wrapper w/ Steel Tubular Frame, Sound Attenuating Foam Insulation on Walls and Ceiling and Tinted Safety Glass Windows. Bi-fold door on both sides of cab. |
| Engine Control Panel | Hot Water Heater and Fan mounted on back wall. Diesel Engine Control Panel with Read-Outs including Speed Control, Tachometer, Oil Pressure, Coolant Temperature, High Temperature & Low Oil Pressure Shut-Down |
| Controls | Individual “Finger Tip” Control Switches <ul style="list-style-type: none">- Dredge Pump On/Off & Speed- Cutter Head Fwd/Off/Rev & Speed- Ladder Swing Cylinder, Starboard/Off/Port & Speed- Ladder Hoist Cylinder, Up/Off/Down- Starboard Spud Hoist Up/Off/Down- Port Spud Hoist Up/Off/Down- Kicker Spud Hoist Up/Off/Down- Kicker Spud Fwd/Off/Rev- Service Water Pump On/Off |
| Lighting | Front & Rear Work Lights Interior Cabin Light |
| Instruments | Gauges <ul style="list-style-type: none">- Slurry Pressure & Vacuum Gauges (Dial type)- Hydraulic Pressure Gauge, Dredge Pump Circuit- Hydraulic Pressure Gauge, Cutter Head Circuit- Hydraulic Pressure Gauge, Auxiliary Circuit(s) |

Standard: Windshield Wiper, Horn, heater and CCTV kicker spud camera
Options: Air conditioner, Biodegradable fluid, Zincs, GPS, and discharge hose

SAFETY EQUIPMENT:

Two Fire Extinguishers and Two Life Vests. Life Ring with Rope is optional.

COATING SYSTEM:

All underwater parts are given two coats of marine epoxy primer followed by a marine urethane top coat. Above water parts are first coated with a zinc rich primer followed by a marine epoxy primer and top coated with acrylic polyurethane. The deck is also given an anti-skid surface. The minimum paint thickness for below and above water coatings is 12 mils, not including OEM coatings. Hydraulic Pins bronze coated.