



# Model DM-55

## Dimensions

Length	76 ft. (23.2 m)
Width	12 ft. (3.66 m)
Height	10 ft. 5 in. (3.2 m) pre cleaner removed
Weight (less fuel)	74,400 lbs. (33,750 kg)

## Flotation

Pontoons	Four (4) pontoons, 43 in. x 43 in. x 390 in. (1,092 mm x 1,092 mm x 9,906 mm); 3/16" steel sides and bottom w/ 1/4" anti-skid deck; internal bulkheads and stiffeners; and painted w/ a marine grade paint system
Displacement	74,400 lbs. (33,750 kg)
Draft	33 in. (889 mm)

## Working Capacity

Cut	135 in. wide x 26 in. deep (3,430 mm wide x 660 mm deep)
Working Depth	20 - 55 ft. (6.1 - 16.8 m)

## Engine 1

Type	John Deere Diesel Model 6091HF485, 6 cylinder 9.0L, 375 HP (279 kw) @ 2,200 rpm.
Fuel Capacity	200 gal. (757 liters)

## Engine 2

Type	John Deere Diesel Model 6068HF485, 6 cylinder 6.8L, 275 HP (205 kw) @ 2,400 rpm.
Fuel Capacity	200 gal. (757 liters)

## Hydraulic System

Circuit #1	Slurry Pump 12.8 in <sup>3</sup> /rev. hydrostatic pump 105 gpm (6.62 liter/sec.) @ 5,500 psig
Reservoir 1	60 gal. (227 liters)
Circuit #2	Cutterhead, Boom, Winch and Propellers 6.1 in <sup>3</sup> /rev. and 4.6 in <sup>3</sup> /rev. tandem piston pump 52 gpm (3.28 liter/sec.) @ 4,200 psig 40 gpm (2.52 liter/sec.) @ 2,500 psig
Reservoir 2	140 gal. (530 liters)
Filtration	1 tank mounted return filter with a 10-micron (min.) rating with indicator and cab warning light charge filter for the slurry pump circuit 6-micron rating (min.) with indicator and cab warning light. Water removal filters as an option

## Cutterhead

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 95 rpm
Torque	23,885 in.-lbs. (2,969 N-m) @ 2,500 psi (peak)
Cutter tip Force	2,171 lbs. (9,657 N)

## 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 in. (127 mm)
Pump Performance	5,000 gpm (315 liter/sec) @ 134 ft. (40.8 m) TDH (slurry s. g. 1.25) @ 791 rpm w/2000 ft (609 m) discharge length & 20 ft (6.1 m) Static lift
Speed (variable)	0 to 791 rpm

## Controls

Electronic joystick controls are provided in a climate controlled cab.

## Propulsion

	Dual propeller drive Bow thruster for added maneuverability Cable drive optional Propellers operate independently
Speed (variable)	0 to 2,644 lbf (1,200 kg) Thrust (Propeller drive) 0 to 55 fpm (cable drive)

## Electrical System

Voltage	12 volt, negative ground
Alternator Output	130 Amp

## Corrosion Protection

Standard Paint	Superstructure and hull are sandblasted and painted with two coats of marine epoxy and top coated with a marine urethane suitable for saltwater service. A self healing zinc clad undercoating is applied to above deck surfaces. The cab is made with galvaneal steel. Submerged hull surface are top coated with two coats of anti-fouling paint. Average paint is 12 mils (DFT) minimum. Includes stainless steel hydraulic fittings and hardware as well as zinc anodes on hull.
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## Standard Equipment

- > Water jets on cutterhead
- > 12 qty. sections of 305mm x 7.6m discharge hose
- > 12 qty. discharge floats
- > Excavator cutterbar
- > Environmental cutterbar
- > US Tool Kit & Tool Box
- > Safety package
- > Climate controlled cab with CD / stereo
- > Dredgeing GPS System
- > Navigation lights

## Optional Equipment

- > 305mm x 11.9m sections of discharge pipe
- > Spare Parts (wear of full)

## Shipping Dimensions (Two Sections)

	Length	Height	Width
Fore Section	35 ft. 9 in.	9 ft. 9 in.	12 ft.
Aft Section:	36 ft. 6 in.	10 ft. 3 in.	12 ft.

\*\*\*Requires 20 ft. Ocean Container for hoses and floats\*\*\*

NOTE: Specifications subject to change without notice.

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