



GLADIATOR SERIES CUTTER SUCTION DREDGES *GLADIATOR 10 & 12*



1125 N. Maitlen Dr.
Cushing, OK 74023

1-800-762-2257

1-918-225-7000

www.vmidredges.com

info@vmi-dredges.com



Boom Lift

The boom may be lifted and lowered by either hydraulic



cylinders or a winch cable system, depending on boom length. Hydraulic cylinders provide the advantage of additional downward force on the cutter head, increasing cutting efficiency.

Optional Generator

An optional generator may be installed on the dredge to supply electrical power for work lights, power outlets and other accessories.



Swing Winches

Heavy-duty swing winches provide plenty of pulling power and cable capacity to dredge in tough conditions. The swing winches are mounted directly to the boom to maximize the cutting force and minimize stress to the boom pivot pins.

Cutter Head

A variety of cutter head configurations are available to meet your dredging needs. Whether you are dredging sand, gravel, or mud, VMI offers a cutter head to meet your digging requirements. Cutter drives are fully variable both forward and reverse allowing you to adjust the cutter rpm for various dredging conditions.

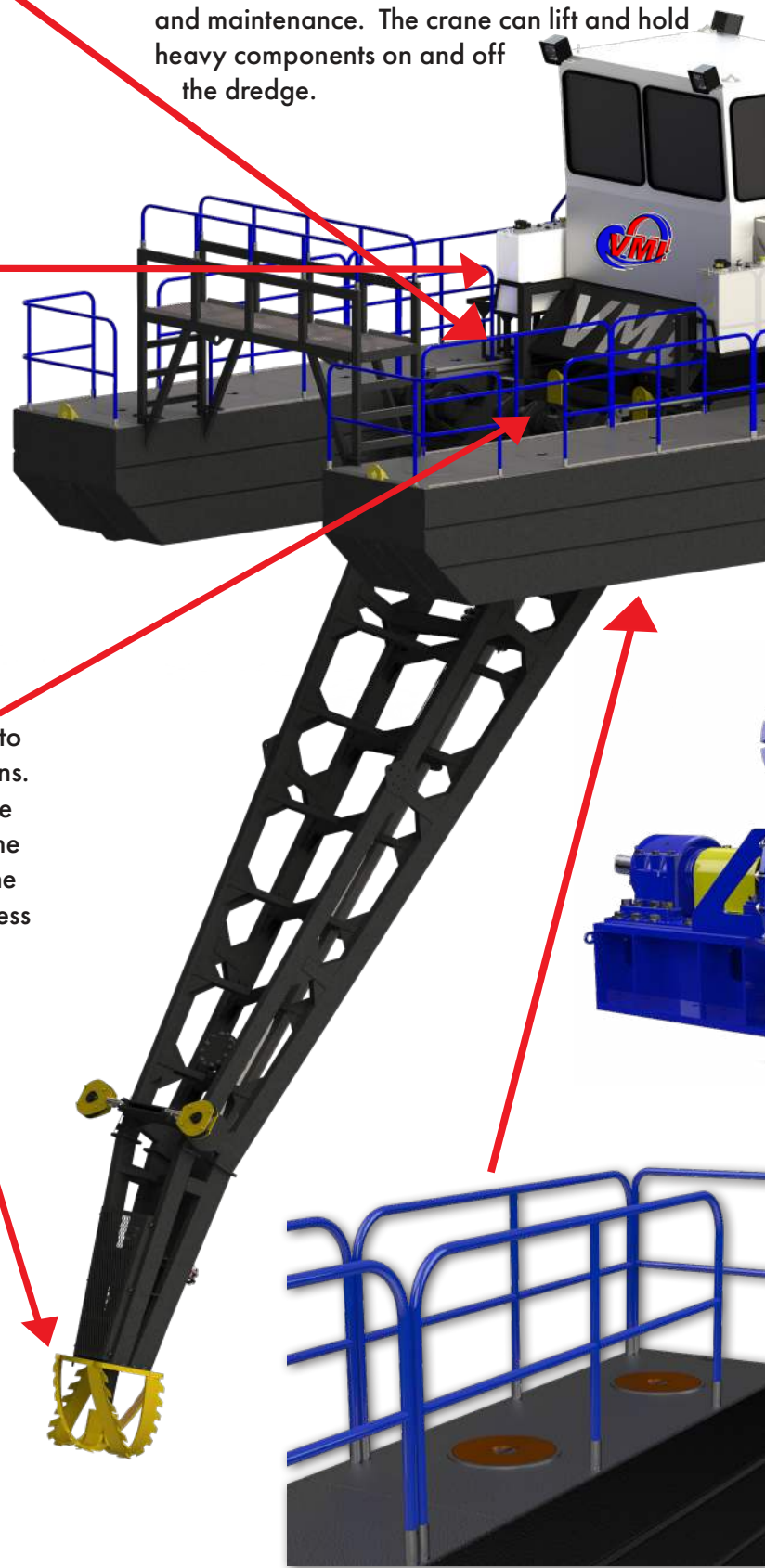


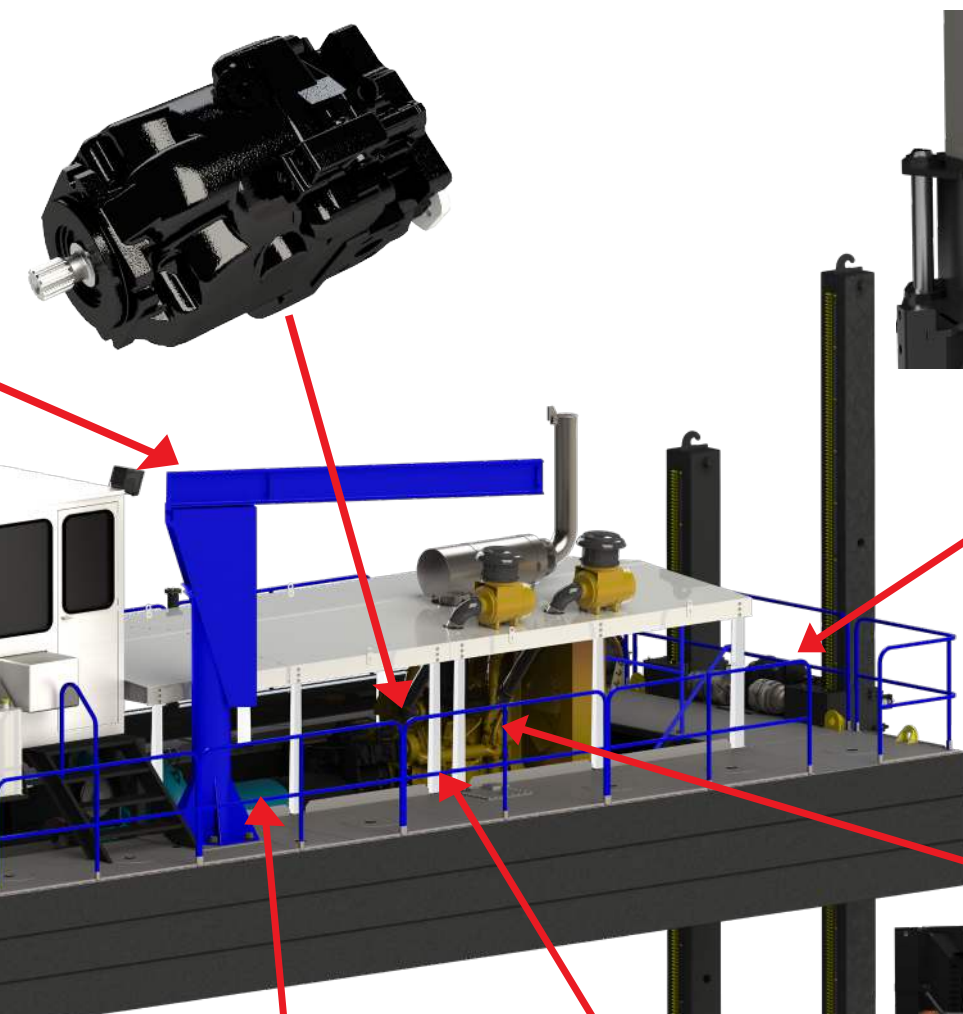
Hydraulic System

VMI's cutting-edge smart hydraulic system utilizes high efficiency axial-piston pumps to power hydraulic components while minimizing energy waste and excess heat. Load sense technology monitors hydraulic system demand and adjusts flow to meet the exact power requirements at any instant. Enhanced filtration and dedicated hydraulic tanks extend the life of all hydraulic components. Independent circuits separate flow between functions, eliminating cross contamination and heat transfer between systems. Closed loop circuits reduce the amount of hydraulic oil needed to perform the work.

Optional Jib Crane

The optional jib crane can assist with dredge repair and maintenance. The crane can lift and hold heavy components on and off the dredge.





Optional Spuds

Rack and pinion spud drives eliminate the need for cables to lift and lower the spuds. The rack and pinion provides positive force in both upward and downward directions. Hinged spud holder doors allow the spuds to be quickly and easily installed and removed. Free float mode allows the spuds to adjust to changing water levels when not in use.



Optional Tail Winch

An optional tail winch can be provided to pivot and anchor the rear of the dredge with or without being equipped with spuds.



Power Units

VMI offers both electric and diesel power options. Cummins and Caterpillar diesel engines are available with multiple emissions ratings to meet your emissions requirements.



Cummins Engine

Caterpillar Engine



Electric Motor

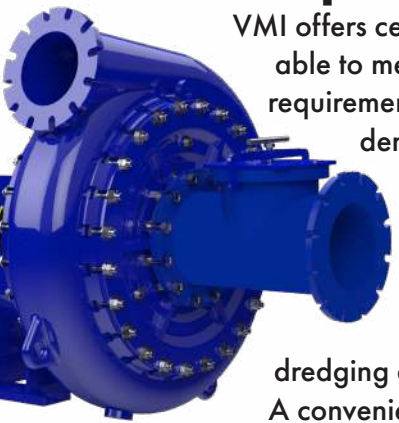
Marine Transmission

VMI uses heavy-duty marine transmissions to maintain the transfer of power from the engine to the dredge pump.



Hi-Chrome Cast Iron Closed Vane Impeller Pumps

VMI offers centrifugal pumps able to meet or exceed the requirements of even the most demanding dredging applications. VMI utilizes hi-chrome cast iron to maximize the life of the pump when dredging abrasive materials. A convenient suction clean-out is located in front of the pump suction for easy removal of large debris.

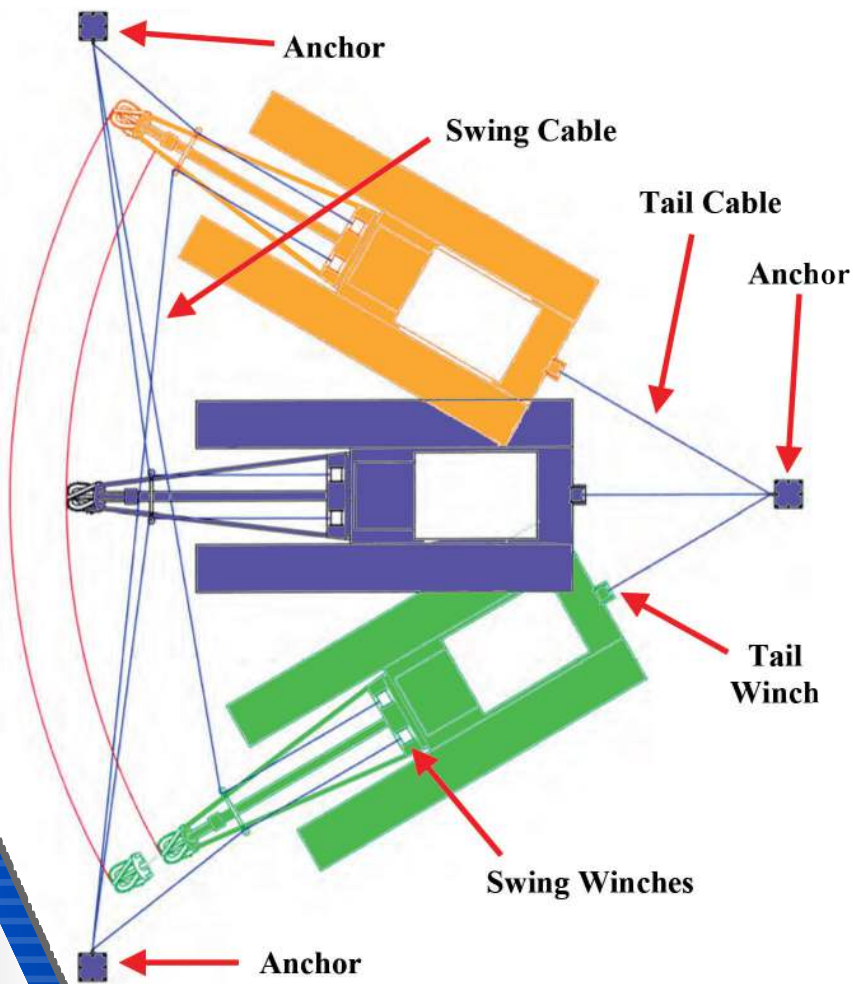


Rigid Pontoon Hull

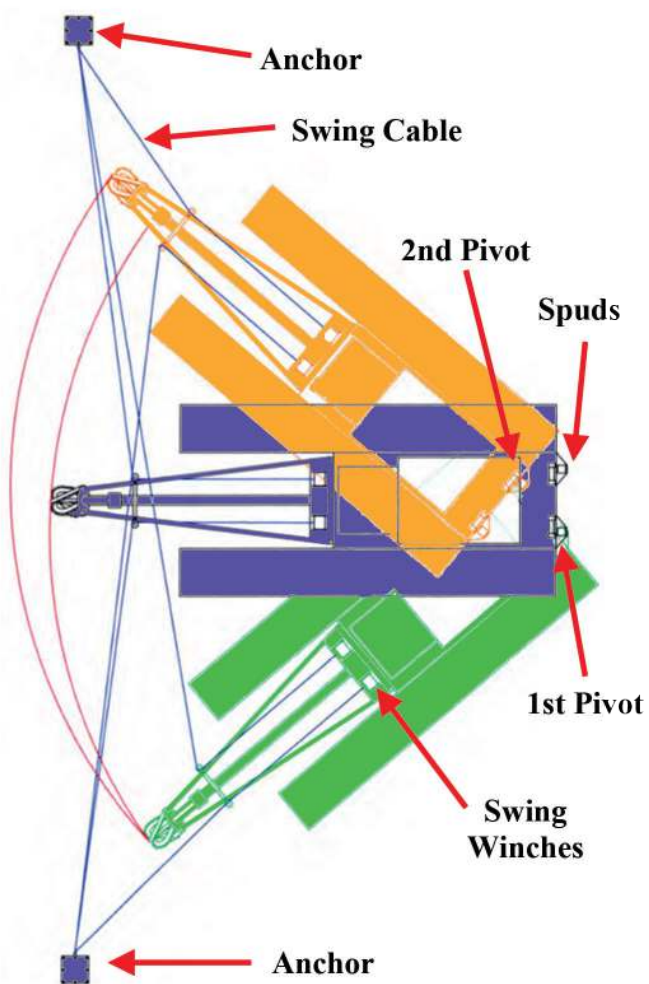
VMI's pontoons include v-brakes, internal cross bracing and multiple baffled compartments for increased rigidity. The pontoon seams are continuously welded and factory tested for leaks. Each individual compartment may either be fitted with a man hole or filled with foam for added flotation safety. The center hull also includes v-brakes and internal bracing for rigidity. The bottom of the pontoons and center hull are equipped with a skid channel to allow the dredge to slide. The pontoons are fully separable from the center hull for transportation.



Tail Winch Setup

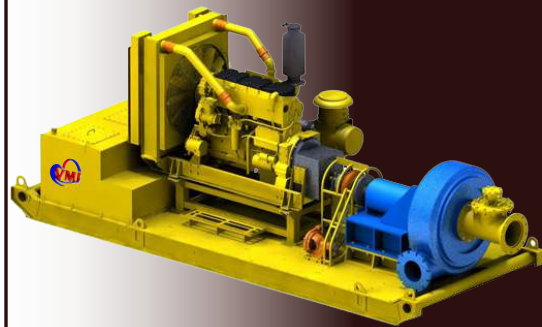


Spud Setup



OPTIONS

BOOSTER PUMPS



FLOW METERS



DENSITY METERS



STANDARD SPECIFICATIONS

GENERAL

GLADIATOR 10

GLADIATOR 12

Max Cutting Depth	Ranging from 20ft (6.1m) to 50ft (15.24m)	
Length	48ft - 9in (14.86m) to 60ft-1in (18.31m)	49ft - 8in (15.4m) to 101ft - 4in (30.87m)
Height w/o Spuds	14ft - 6in (4.42m) Top of Cab • 15ft - 3in (4.64m) Top of Jib Crane	
Width	20ft - 1in (6.12m)	
Dry Weight	88,000lbs (39,909kg) to 167,500lb (75,964kg)	
Draft	28in (711mm) to 34in (864mm)	
Fuel Capacity	900 U.S. Gallons (3,406L)	

ENGINE

Type	Caterpillar	Cummins	Caterpillar	Cummins
Model	C13B	QSX15	C18	QSK19
Power	536 BHP (400kW) @1800 RPM	509 BHP (380kW) @1700 RPM	755 BHP (563kW) @1800 RPM	755 BHP (563kW) @1800 RPM
Emissions Rating	US EPA Tier 4 Final / EU Sage V	US EPA Marine Tier 3	US EPA Tier 4 Final / EU Sage V	US EPA Marine Tier 3

CUTTER

Speed	Variable 0-39 RPM, Bi-Directional	
Torque	125,226in-lbs (14,149N-m)	150,499in-lbs (17,004N-m)
Diameter (ID)	31.5in (800mm)	36in (914mm)

PUMP

Suction Pipe	12in (305mm)	14in (355mm)
Discharge Pipe	10in (254mm) or 12in (305mm)	12in (305mm) or 14in (355mm)
Max Capacity (Water @68° F)	5,850 GPM (22,145L/min) @ 260ft Head	7,500 GPM (28,391L/min) @225ft Head
Material	High Chrome Cast Iron	

SPUDS

Length	28ft - 3in (8.61m) to 58ft - 3in (17.75m)
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PONTOONS

Description	Full length formed steel with integral bulkheads and stiffeners for added rigidity. Foam filled or with optional man holes
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We Make Revenue Flow



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