



HORIZONTAL DREDGES

**MD-615 • MD-815
MD-820 • MD-820P**



MD-820P Shown



We Make Revenue Flow



**1125 N. Maitlen Dr.
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MD-815 Shown

Hi-Chrome Cast Iron Recessed Impeller Pumps

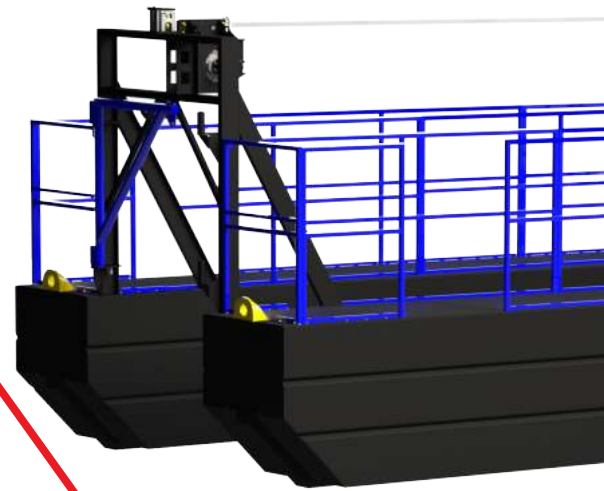
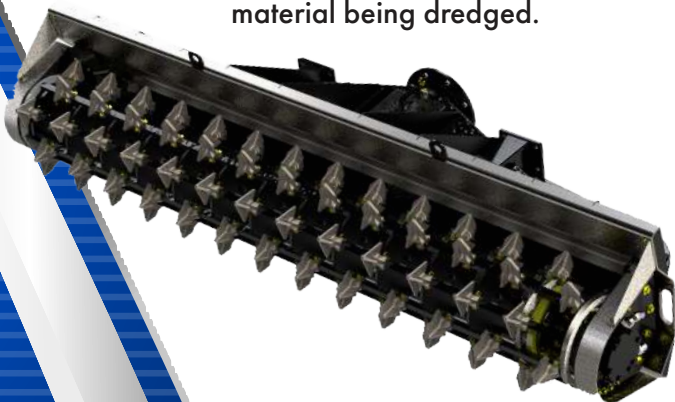
VMI uses a recessed impeller to provide maximum free flow and performance in thick, viscous slurries. A recessed impeller allows the passage of large diameter solids reducing the potential for clogging. The pump is located directly behind the cutter head suction intake to provide maximum pumping efficiency. Each pump features an unique seal system eliminating the need for packing to reduce maintenance. The pump speed is fully-variable thanks to a hydraulic drive system coupled directly to the pump shaft.



Sabertooth Full-Width Flow-Through Suction Cutter Head



Features a fully variable high-torque hydraulic cutter drive allowing the operator to adjust the speed both forward and reverse for maximum material uptake depending on the condition and direction of the material being dredged.



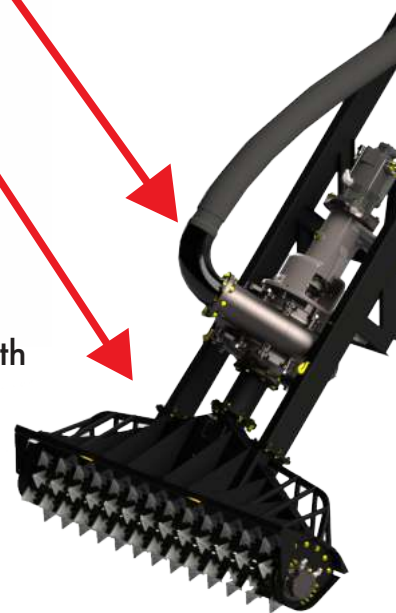
MD-820P Shown



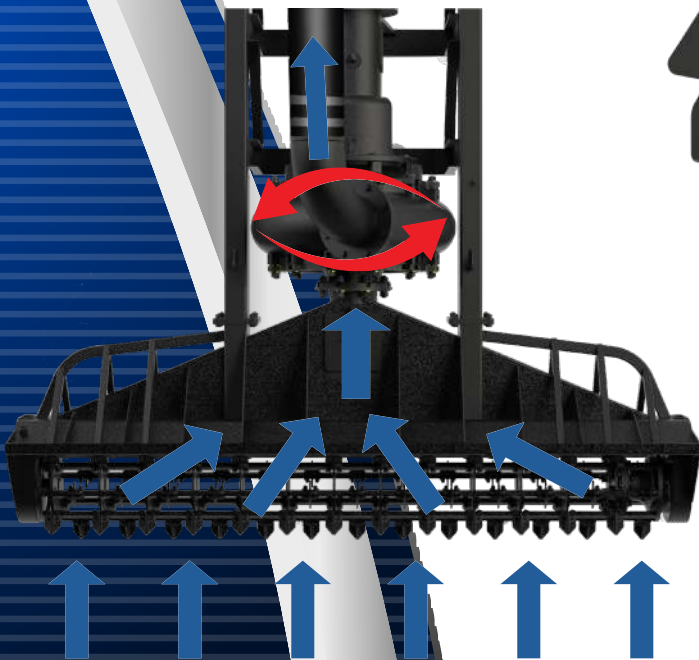
Paddle Teeth

Trencher Teeth

Interchangeable paddle and cutting teeth allow you to choose any combination of teeth to meet your dredging needs



The Sabertooth cutter head maximizes material uptake by providing suction across the full width of the cutter head and flow through the cutter cage. A convenient suction clean-out is located in front of the pump suction for easy removal of large debris.



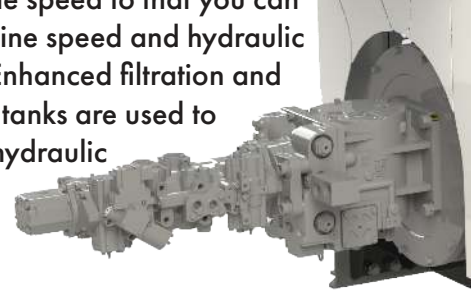
Treble Sheave Traverse Winch System

The winch drive provides substantial grip on the cable while minimizing wear. Our cable guide design allows you to attach and detach the dredge from the traverse cable without removing the cable from its anchors. Cable guides are mounted to the front and rear of the dredge to minimize skewing side to side in cross wind or water flow conditions.



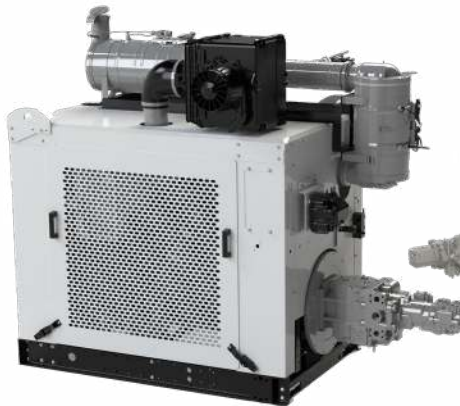
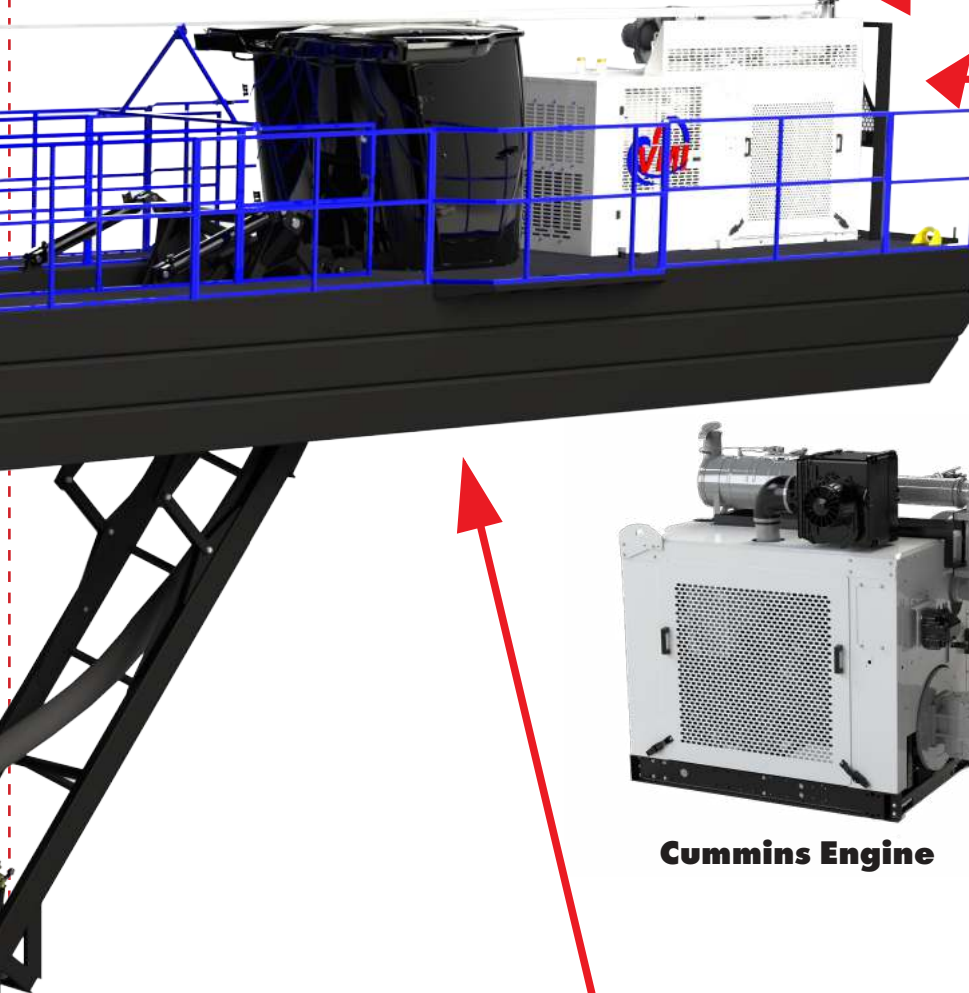
Four Independent Hydraulic Pumps

VMI dredges are equipped with four independent hydraulic pumps to provide ample flow to all hydraulic components without starvation. All continuously operated dredging functions are equipped with variable speed so that you can optimize between engine speed and hydraulic operation speeds. Enhanced filtration and dedicated hydraulic tanks are used to extend the life of all hydraulic mechanisms.



Power Units

VMI Dredges come with John Deere and Cummins Diesel engines. Multiple emissions options are available to meet your emissions requirements.



Cummins Engine



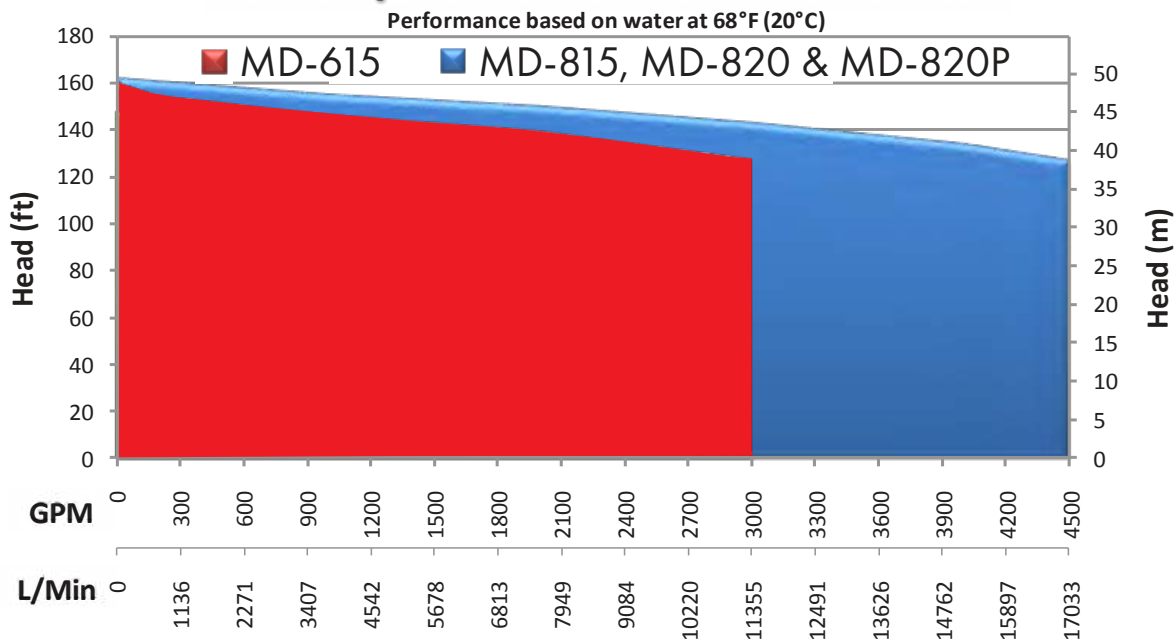
John Deere Engine

Rigid Pontoon Hull

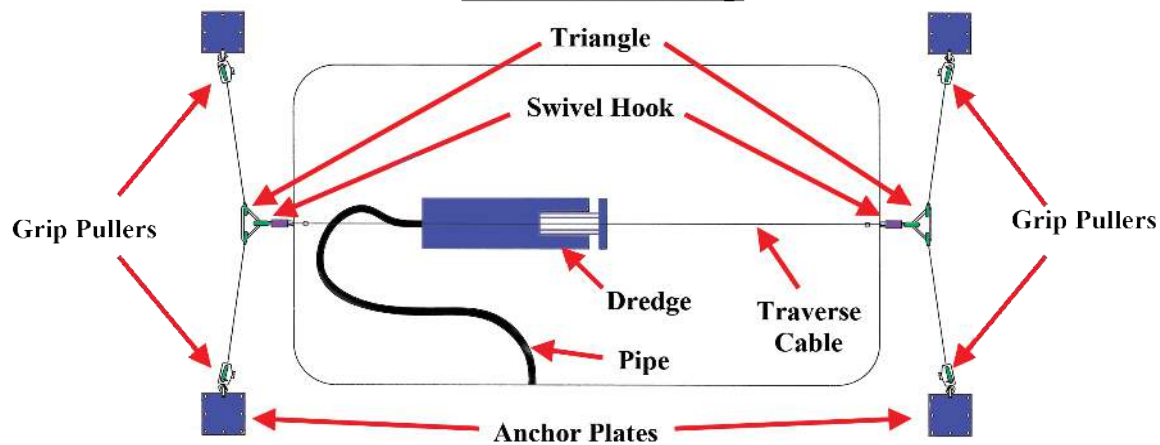
VMI's pontoons include v-bends, internal cross bracing and multiple baffled compartments for extra rigidity. The pontoon seams are continuously welded and factory tested for leaks. Each individual compartment is foam filled for floatation safety. The bottom of the pontoons are provided with a skid channel to allow the dredge to slide.



Pump Performance Curves



Basic Cable Setup



OPTIONS



STANDARD SPECIFICATIONS

GENERAL	MD-615	MD-815	MD-820	MD-820P
Weight	23,000 lbs. (10,431kg)	26,500 lbs. (12,020kg)	28,500 lbs. (12,295kg)	29,500 lbs. (13,381kg)
Length	37ft 6in (11.43m) O.A.	38ft 6in (11.73m) O.A.	46ft 4in (14.12m) O.A.	
Height	8ft 6in (2.59m)	8' 10" (2.69m)		9ft 8in (2.95m)
Width	Transport 9ft (2.74m) Working 9ft 11in (3.02m)	9' 11" (3.02m)		Transport 9ft 11in (3.02m) Working 11ft 10in (3.60m)
Draft	22in (559mm)	25in (635mm)		
Fuel Capacity	244 U.S. gallons (932 L)	325 U.S. gallons (1230 L)		
Dredging Depth Maximum	15ft (4.57m)		20ft (6.1m)	

ENGINES

Type	John Deere	Cummins	John Deere	Cummins	John Deere	Cummins	Cummins
Model	6068	QSL9	6090	QSL9	6090	QSL9	QSL9
Power	266 BHP (198 kW) @ 2000RPM	280 BHP (209kW) @ 2000RPM	375 BHP (280 kW) @ 2200RPM	345 BHP (257 kW) @ 2000RPM	375 BHP (280 kW) @ 2200RPM	345 BHP (257 kW) @ 2000RPM	345 BHP (257 kW) @ 2000RPM
Rating	US EPA Marine Tier 3	EU Stage IV / US EPA Tier 4 Final	US EPA Marine Tier 3	EU Stage IV / US EPA Tier 4 Final	US EPA Marine Tier 3	EU Stage IV / US EPA Tier 4 Final	EU Stage IV / US EPA Tier 4 Final

CUTTER ASSEMBLY

Type	Horizontal with full-width, flow-through suction (Paddle and cutting teeth available)
Speed	Variable 0-80 RPM (forward and reverse)
Torque	30,828 in-lbs. (3,483 N-m)

PUMP

Type	Hi-Chrome cast iron, centrifugal, full recessed impeller		
Impeller	22in (559mm)	25in (63.5 cm)	
Suction	6in (152mm)	8in (203mm)	
Discharge	6in (152mm)	8in(203mm)	
Capacity (water @ 68°F)	Variable to 2,500 GPM (9,464 L/min) @ 136ft (41.5m) head (water @ 68°F)	Variable to 3,500 GPM (13,249 L/min) @ 135ft (41.1m) head (water @ 68° F)	
Recommended Discharge Pipe	8in (203mm)	8in (203mm) or 10in (254mm)	

PROPULSION

Type	Treble sheave hydraulic winch
Traverse Speed	Variable 0-50 ft/min (0-15.24m/min)
Cutting Speed	0-15 ft/min (0-4.57m/min)

HYDRAULIC SYSTEM

Description	Three independent variable displacement, hydrostatic circuits/One - fixed displacement, valve controlled circuit
Reservoirs	Total 100 U.S. gallons (378.5 L)
Filtration	Protected high and low pressure hydrostatic loops with charge and working circuits.

PONTOONS

Pontoons	Full length formed steel with integral bulkheads and stiffeners for added rigidity. Foam filled
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