



Weifang Jin Meng Dredger Co., Ltd.

Longshan Industrial Park, Weifang City, Shandong Province of China

Mobile: +86 15095103151

www.jmdredger.com

DETAILS SPECIFICATIONS OF JMD450 18INCH CUTTER SUCTION DREDGER



DIMENSIONS		SPUDS	
Length over pontoons	24m	Length	16.5m
Breadth	6.60m	Diameter	457mm
Depth	1.8m	Weight	3800kg
Mean draught with full bunkers	1.2m	SPUD HOISTING CYLINDERS	
Maximum standard dredging	12m	Force	180kN



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depth		Spud stroke (each time)	2.5m
Suction pipe diameter	450mm	Deck Crane	
Discharge pipe diameter	450mm	Lifting power	25KN
Total installed power	594KW	Outreach	2.5m
SWING WIDTH WITH 35° SWING EACH SIDE		Other Features	
At maximum dredging depth	25m	1\ standard design, allowing for short delivery times and competitive pricing	
At minimum dredging depth	29m	2\ spare parts available from stock	
DREDGE PUMP		3\ fresh-water engine cooling system	
Type	14/12G-H	4\ fresh-water engine cooling system	
Engine type (Cummins)	KT38-M	5\ completely assembled and fully tested afloat before delivery	
Engine power	582KW @1,800rpm	6\ dredge pump driven through integrated bearing block, clutch and reduction gearbox easy and fast assembly and dismantling	
Total oil consumption	108L/H	7\ ready for operation on arrival at site	
ELECTRICAL INSTALLATION		8\ hydraulic ram for ladder hoisting	
Voltage	24V DC		
Battery capacity	800Ah		
Voltage (50Hz)	230/400V AC		
Power (50Hz)	12KW		
CUTTER		9\ special tools are supplied for connecting and disconnecting pontoons and the cutter ladder, and for maintenance of the dredge pump and diesel engine	
Type	JD100	10\ wide range of services and optional equipment available (including work boats, boosters and pipelines)	
Power at shaft	100KW		
Diameter	1300mm		
Maximum speed, approx.	30rpm	Optional extra ' s	
LADDER AND SWING WINCHES		Swing Angle Measurement	
Line pull, first layer	80kN	air conditioning	
Maximum line speed	22m/min	generator set	
Wire diameter	20mm	increased discharge pipeline diameter	
Drum diameter	377mm	increased dredging depth	



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Swing wires length

120m

life-cycle support packages (including training, technical support, etc.)

Anchor weight

300kg

optional packages: HSE (health, safety and environment) and nautical

Discharge pipe diameter=450mm

Dredging depth=12.0m

Maximum volumetric concentration of in situ solids of 25%

Final elevation at end of discharge pipe=4.0m

Output calculated for:

Soil type

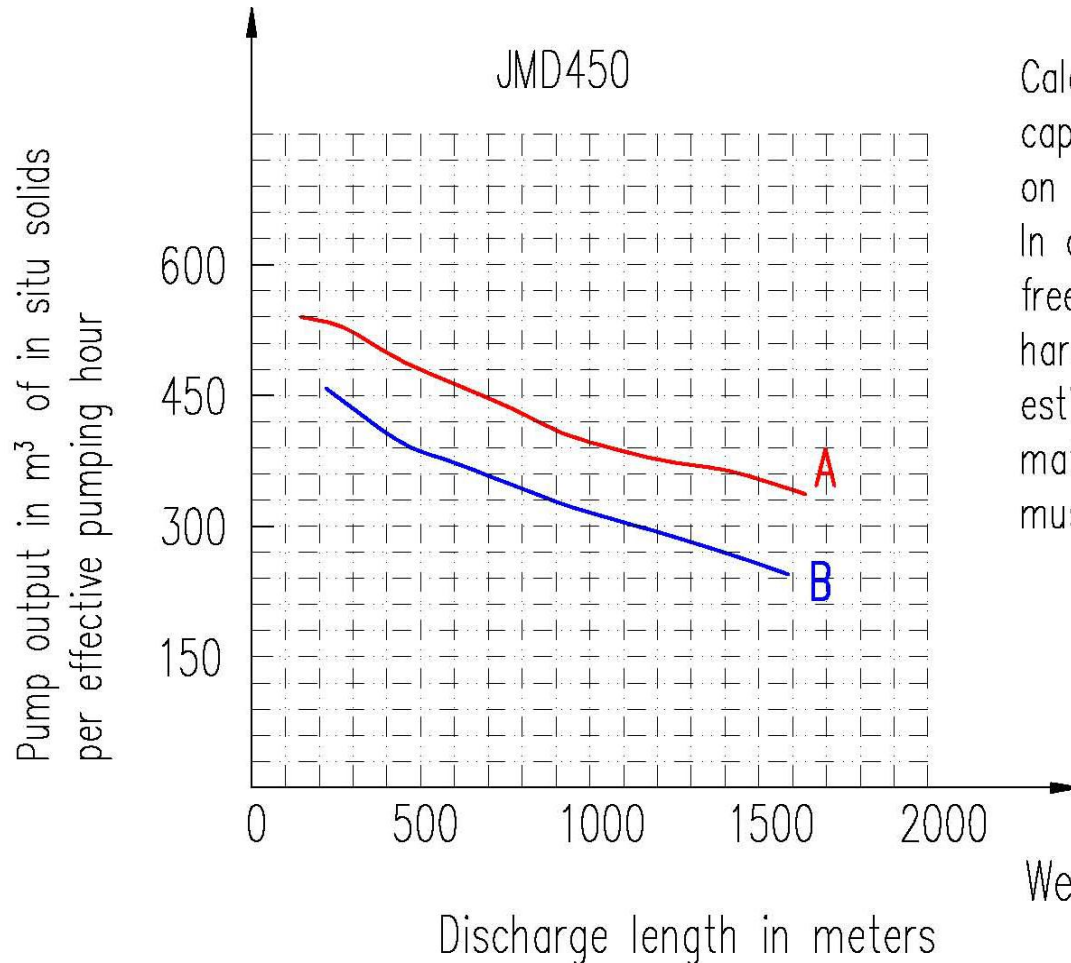
Decisive grain size

A Medium sand

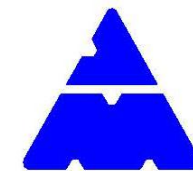
235um

B Coarse sand

440um



Calculated output curves only indicate pumping capacity, based on the maximum available power on the pump shaft and free-flowing material. In actual practice, properties may vary from free-flowing, easily excavated to compacted, hard-to-excavated material. When used for estimation actual outputs, the nature of the material to be dredged and local job conditions must be considered.



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