



Weifang Jin Meng Dredger Co., Ltd.

Longshan Industrial Park, Weifang City, Shandong Province of China

Mobile: +86 15095103151

www.jmdredger.com

DETAILS SPECIFICATIONS OF JMD500 20INCH CUTTER SUCTION DREDGER



DIMENSIONS		SPUDS	
Length overall (ladder raised)	34m	Length	19.5m
Length over pontoons	26m	Diameter	510mm
Breadth	7.50m	Weight	6200kg
Depth	2.0m	SPUD HOISTING CYLINDERS	
Mean draught with full bunkers	1.4m	Force	300kN



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Maximum standard dredging depth	14m	Spud stroke (each time)	2.5m
Suction pipe diameter	600mm	LADDER AND SWING WINCHES	
Discharge pipe diameter	500mm	Line pull, first layer	120kN
Total installed power	1297KW	Maximum line speed	22m/min
Total oil consumption	233L/H	Wire diameter	24mm
SWING WIDTH WITH 35° SWING EACH SIDE		Drum diameter	400mm
At maximum dredging depth	28m	Swing wires length	130m
At minimum dredging depth	32m	Anchor weight	600kg
DREDGE PUMP		1\ standard design, allowing for short delivery times and competitive pricing	
Type	450WN	2\ spare parts available from stock	
Engine type (Cummins)	KTA38-M	3\ fresh-water engine cooling system	
Engine power	969KW @1,800rpm	4\ fresh-water engine cooling system	
AUXILIARY POWER (CUTTER, WINCHES AND SPUDS)		5\ completely assembled and fully tested afloat before delivery	
Engine type (Cummins)	NTA855-M	6\ dredge pump driven through integrated bearing block, clutch and reduction gearbox easy and fast assembly and dismantling	
Prime power	298KW	7\ ready for operation on arrival at site	
ELECTRICAL INSTALLATION		8\ hydraulic ram for ladder hoisting	
Voltage	24V DC	9\ special tools are supplied for connecting and disconnecting pontoons and the cutter ladder, and for maintenance of the dredge pump and diesel engine	
Battery capacity	800Ah	10\ wide range of services and optional equipment available	
Voltage (50Hz)	230/400V AC	(including work boats, boosters and pipelines)	
Power (50Hz)	30KW		
CUTTER		Optional extra' s	
Type	JD200	anchor booms	
Power at shaft	200KW	spud carriage	
Diameter	1500mm	Swing Angle Measurement	
Maximum speed, approx.	30rpm	air conditioning	
Deck Crane		generator set	
Lifting power	35KN		



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Outreach

3.5m

increased discharge pipeline diameter

increased dredging depth

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

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

Discharge pipe diameter=500mm
 Dredging depth=14.0m
 Maximum volumetric concentration of in situ solids of 25%
 Final elevation at end of discharge pipe=4.0m

Output calculated for:

Soil type

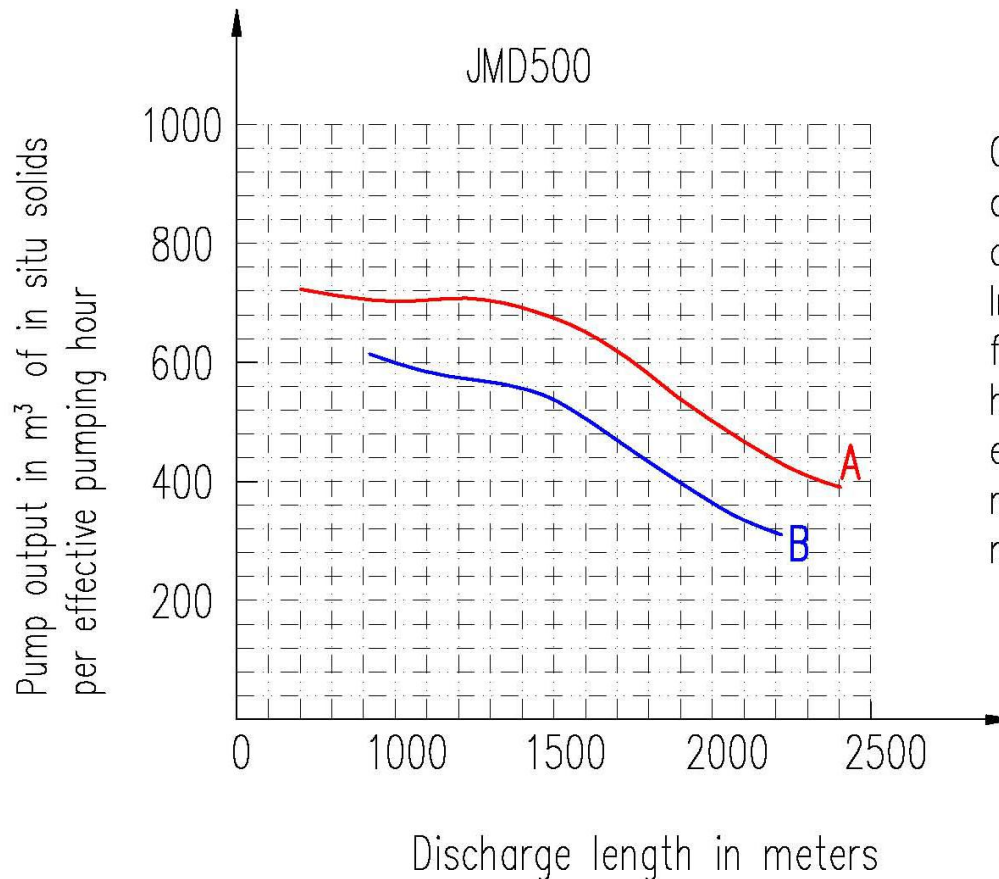
Decisive grain size

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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