



12" Crusader class sand & gravel dredge

Dredge Pump:	Metso LU40 ladderpump, 12" x 14", 3-vane Nihard impeller.
Main Power Unit:	Caterpillar 3412E, 705 continuous horsepower @ 1,800 rpm.
Accessory Power Unit:	Caterpillar C9, TIER II, 275 continuous horsepower @ 1,800 rpm. Power Units are mounted on anti-vibration mounts.
Dredge Pump Drive:	<i>Sidewinder</i> gear reduction and Torqueshaft.
Hull/Flotation:	Hull: ¼" plate with watertight bulkheads. Pontoons: ¼" plate with watertight bulkheads, 3,000 gallon fuel capacity.
Ladder:	125' overall length. 110' maximum mining depth.
Hydraulic system:	Variable flow, 150 gallon reservoir with electro-hydraulic proportional valves.
Linear Cutter:	Twinkle Co Marauder Linear Cutter rated at 35,000 lb maximum cutter force using 9" pitch ablative digger chain.
Rigging:	3 Pullmaster M18 hydraulic positioning winches and MOAB blocks. 1 Pullmaster M50 hoist winch and BRUTE blocks.
Operators Cab:	7' x 10' with dual steel walls, fully insulated, tinted windows, A/C-heat, LCAP & VEECON automation, CONVAC system, proportional joysticks.
Dimensions: (assembled)	Overall length: 154' Overall width: 33' Total displacement: 314,000 pounds

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