



Specifications		MONICA MH-5247
Service category		2E
Length		8.1 metres
Beam		2.46 metres in 2E category
Beam		3.470 metres in 2D category
Height from keel to highest point road transport ready		3.130 metres
Draft minimum		400mm
Draft ideal		700mm
Prime depth		1.5 metres
Mass		10 tonne in 2D category
Cutting depth		6.5 metres
Max speed		5 knots
Fuel		Diesel 800 litres
Fuel consumption		From 23 to 40 litres per hour
Engine		Caterpillar 3208 TA 260 Hp
Power transmission		All hydraulic
Dredge pump		Warman 6/4 DAH submersed
Power available at pump		110 Kw
Cutter head		Proprietary
Propulsion		Stern thrust unit
Winches or spuds		Not fitted
Floating discharge line		400 metres

Capabilities

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- + Tested 430 cubic metres per hour on water.
- + Proven 140 cubic metres per hour slurry at >30% density over 300 metres at 3 metres head without booster.
- + Proven with booster pump installed 120 cubic metres per hour at >30% density over 700 metres at 25 metres head.
- + Material pumped at these rates was 2.8 SG red mud in caustic solution from an aluminium refinery. Densities were consistently over 30%.

Dredging Method

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Dredging is performed in straight line cuts using the stern thrust unit to provide ground engagement force. Depending on material and requirements, either single pass at specified depth or bench cutting is used. Dredging at 90 degrees to original cuts removes most of the material and if required sweeping to clean up.

As no winches or spuds are fitted the dredge is extremely manoeuvrable and well suited for tight areas e.g. around jetty pylons, mooring areas, tanks and small dams. This also allows the dredge to be moored in secure areas quickly and maintenance, refuelling, etc. can be carried out at the mooring as there is no requirement to pull anchors.