AMB ENGINEERING PTY. LTD.
Dredging Experts

REMOTE CONTROL OR ON BOARD CONTROL

Specifications	*AMBER MH-9237*
Service category	2D
Length	11 metres
Beam	4.3 metres
Depth	1.2 metres
Height from keel to highest point road transport ready	3.2 metres
Height from keel to highest point with aerials	7.5 metres ready for use
Draft minimum	700 mm
Draft ideal	1.5 metres
Mass	24 tonne
Cutting depth	4.5 metres
Max speed	5 knots
Fuel	Diesel 2000 litres
Fuel consumption	Not tested
Engine	Cummins QSX15 550 Hp
Power transmission	All hydraulic
Dredge pump	Warman 8/6 FAH submersible
Power available at pump	250 Kw
Cutter head	Bucket wheel
Propulsion	stern thrust and bow thrust
Winches	Not fitted
Spuds	Fitted
Floating discharge Line	400 metres

Capabilities	AMBER MH-9237
+	800 cubic metres per hour on water.
+	Expected 280 cubic metres per hour slurry at >30% density over 300 metres at 3metres head without booster.
+	Expected with booster pump installed 240 cubic metres per hour at >30% density over 700 metres at 25 metres head.

Dredging Method — AMBER MH-9237

Spuds are fitted to this machine and the cutter is a bucket wheel arrangement. The dredge uses a working spud driven into the ground and a bow thruster to swing the dredge in an arc of up to 20 metres diameter with the bow thruster also providing ground engagement force. The working spud allows the dredge to step forward to take another cut as required.

On completion of spud travel a holding spud is driven into the ground and the working spud is raised and repositioned and the process repeats. As no anchors and winches are used, more time can be spent on the dredging process instead of relocating anchors as the dredging progresses.

Plastic lined dams can be dredged with the use of a swivel pad at the base of the spuds.

As no manoeuvering winches are fitted, the dredge is extremely manoeuverable and well suited for tight areas i.e. around jetty pylons, mooring areas, and 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.

Design Criteria — AMBER MH-9237

Part of the design criteria was to be able to use the dredge in caustic dam environments, and therefore it can be controlled from the cabin or via radio control and video link.

The hull, decks, handrails, cabin and most of the support infrastructure on board are stainless steel and as such maintenance requirements are reduced significantly.