



Delta Multi Craft 1050

PU D4-9

The DMC (Delta Multi Craft) 1050 is a compact multipurpose heavy duty work boat that has been designed to optimise the operation of Royal IHC's Beaver® cutter suction dredgers. The DMC range is renowned for its durability, reliability and performance.

The DMC 1050 can be transported by road and comes supplied with the added versatility of a deck crane and other advanced equipment as standard. It can perform a wide range of dredging support activities in shallow inland waters, including pushing and towing, buoy handling and the transportation of fuel, goods and personnel.

To date, Royal IHC has supplied more than 500 standard and custom-built work boats worldwide. The DMC range is available for immediate delivery and every work boat is tested thoroughly before delivery.

The DMC 1050 is propelled by a single marine-type turbocharged and after-cooled diesel engine, which drives a fixed pitch propeller through a reduction gearbox. The engine and gearbox are flexibly mounted and connected to the propulsion shaft by a homokinetic coupling and thrust bearing.

The environmentally friendly water-cooled/lubricated propeller shaft system delivers a high level of operational safety and manoeuvrability. Due to the flexible mounting of the engine and wheelhouse, the operating noise from the work boat is incredibly quiet.

The hydraulic deck crane is positioned off-centre portside to the fore of the ship to create maximum crane load capacity and free deck space. The wheelhouse is placed portside aft, and like the hull, is a welded steel construction. The top of the wheelhouse can also be dismantled easily to reduce the height of the work boat for transportation.

The hull is divided into three watertight compartments: aft peak; engine room; and fore peak. The engine cooling water system is closed with an inboard box cooler.

Other features

Length overall, approx.	10.4m
Breadth overall	4.13m
Maximum draft at the skeg	1.25m (approx.)
Transport height	4.45m
Transport height (dismantled)	3.27m
Total installed power	165kW

Performances

Free sailing speed	7 knots
Bollard pull	16kN

Tank capacities

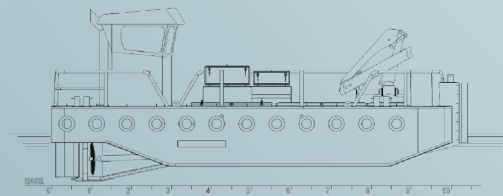
Fuel oil day tank	0.25m ³
Fuel oil bunker	4x 1m ³

Other features

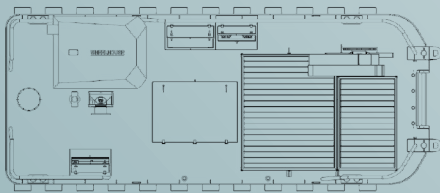
Anchor handling winch	1x hydraulic
Pulling force	20kN
Holding power	30kN
Deck crane	1x hydraulic
Capacity	81kNm

Hull

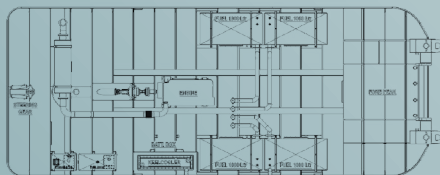
Two vertical push bows with rubber fenders. Reinforcing sheer strakes. Double bollards fore and aft. Bollard on each push bow. Towing bitt. 4 Lifting lugs. Entrance and engine removal hatch on deck. Cathodic protection. Marine paint system. Tire fendering SB and PS.



Side view



Top view



Below main deck view

Wheelhouse and engine room

Steel wheelhouse mounted on vibration dampers. Removable top to limit transport height. Top hung front window with wiper. Defogging facilities with heater on front window. Searchlight. Horn. Wheelhouse with insulation panels. Access ladder and grate panels in engine room. Cabin and engine room lights. Wooden mast with navigation lights.

Propulsion and steering system

Volvo D7C-TA marine diesel engine rated 166kW with marine reduction. Control console provided with morse engine/gearbox cable control, dashboard instrumentation and switches for several functions. Engine connected to gearbox through an elastic coupling. Engine and gearbox flexible mounted. Stainless steel propeller shaft in stern tube with fore-, after- and thrust bearings. Homokinetic coupling between gearbox and propulsion shaft. Fixed pitch propeller. Air inlet and venting system with ducts. Single plate rudder. Hand-hydraulic steering gear, engine powered.

Auxiliary system

Manual bilge pump in engine compartment, suction points in each compartment. Closed freshwater cooling system with box cooler. Engine PTO-driven hydraulic power pack for deck crane and winch. Fuel oil water separator filter. Natural ventilation in wheelhouse and closed compartments. Forced engine room ventilation.

Deck equipment

Hydraulic deck crane, 81kNm with 7.5m max outreach. Hydraulic 20kN anchor handling winch (holding force 30kN), drum capacity 50m, provided with 15m, 10mm steel cable with 30kN hook with latch. A bow roller integrated in hull, between push bows. Partly removable wood laid work deck. Removable deck railing. 10 load fixing eyes. 4 nos. 1m non hull integrated bunker tanks with 1" discharge Husky auto stop pistol on 6m hose, Puisi Bipump 24V/80l/min, fuel filter and 24V shut-off valve, anchor 30kg.

Electrical installation

24V network DC. Two batteries sets, each for separate engine start and lighting. 24V alternator on each main engine can charge either battery bank. Interior lighting 24V.

Miscellaneous

Well equipped tool box for general use. First aid kit. Mooring lines. Bucket with line. Broom.

Optional equipment

Anti-vandalism panel set. Fuel consumption measurement. Hydraulically operated bilge/deckwash pump (100l/min). Air-conditioning. Spare parts kit.