

INDEPENDENT INNOVATIVE SOLUTIONS

OSD-IMT8101 3000 CM AGGREGATE TRAILING SUCTION HOPPER DREDGER

PRINCIPAL CHARACTERISTICS

LOA	105.60 m
LBP	100.0 m
Beam mld.	16.40 m
Depth mld.	9.25 m
Design Draught	7.00 m
Max Air Draft	26.0 m
Speed (100 %MCR)	12 knots @ full load
Max Trailing Depth	50.0 m (below WL)

CAPACITIES

Hopper Capacity	3000 m ³
Hopper (cargo S.G. 2.18)	6540 tonnes
Oil Fuel	215 m ³
FW	50 m ³
Ballast Water	Hold Free flood only

MAIN EQUIPMENT

Main Engines	2x	WARTSILA Type 6L26 2040 bkW @ 1000 rpm
Gearbox	2x	Horizontally offset Reintjes/Twin Disc Single input/Single output Rated at 1032 bkW @ 720 rpm
Props	2x	Power take off Alternators 1700 kWe 1000 rpm @ 50Hz
	1x	European CATERPILLAR Type - C18 @ 1500 rpm 550 kWe
Harbour Generator	1x	European CATERPILLAR Type - C18 ACERT @ 1500 rpm 360 kWe @ 50 Hz
Emergency Generator	1x	European CATERPILLAR Type - C7.1 @ 1500 rpm 130 kWe @ 50 Hz
Rudder	2x	High lift rudders
Steering Gear		Rotary vane type steering
Side thruster		Tunnel Bow Thruster 400 kW

LIFE SAVING

Lifeboats	2x	20-man fully enclosed davit launched lifeboats
Life Rafts	2x	15-man inflatable life rafts with hydrostatic release
MOB & SOLAS approved single arm slewing davit	1x	

DECK MACHINERY

Anchor	2x	HHP @ 1305 kg each
Windlass/Mooring Unit	2x	Electrohydraulic units
Deck Crane	1x	Stores Cranes 1.5 tonne @ 4 m

CLASS

I, HULL, MACHINERY, DREDGER, UNRESTRICTED NAVIGATION,
AUT-UMS

DREDGING SYSTEM EQUIPMENT

All dredging systems are hydraulic (except submerged dredge pump)

Trailing Suction Pipe

Draghead Double Visor (adjustable)

Suction & Support

Pipe sections 4x @ 700 ID

Turning Gland 1x

Carden Hinges 2x

Submersed Dredge Pump 1350 kW @ 375 rpm

Trunnion Elbow 1x

Gantries & associated winches

Trunnion Gantry Parallel Gantry, double purchase winch

Service Frame Power cables, Control cables, Pneumatic hose for trunnion seal

Dredge pump Gantry A frame Type, double purchase winch

Intermediate Gantry A frame Type, single purchase winch

Drag head gantry A frame Type, single purchase winch

Swell Compensator 6 m Swell

Screening Towers 2x rotating screening towers, loads to hold and rejects over ships side

Adjustable Spillways 2x located in the fwd and aft hold end BHDS

Cargo De-watering 2x de-watering pumps

Discharging Equipment

Dry Discharging Machine 1200 m³/hr of drained cargo (S.G. 1.75)

Longitudinal Conveyor 76 m

Slewing Boom Conveyor 30 m, Port Reach 16 m, Stbd 27 m

Dredging Support Systems

Density & Flow meter in pipe

Hold Free Flooding arrangement 600 mm flooding line, 2 hydraulic gate valves; optional hold flooding pump 1200 m³/hr 90kW

Telescopic Spuds 17 m below keel, design tide speed of 3 kts

ACCOMMODATION

Compliment 14

Single-man cabins 9

Single-officer cabins 3

Chief Engineer Cabin & Dayroom

Captain Cabin & Dayroom

Accommodation comprises: galley, mess, lounge, dry provisions and refrigerated provisions stores, changing room, public toilets, gym

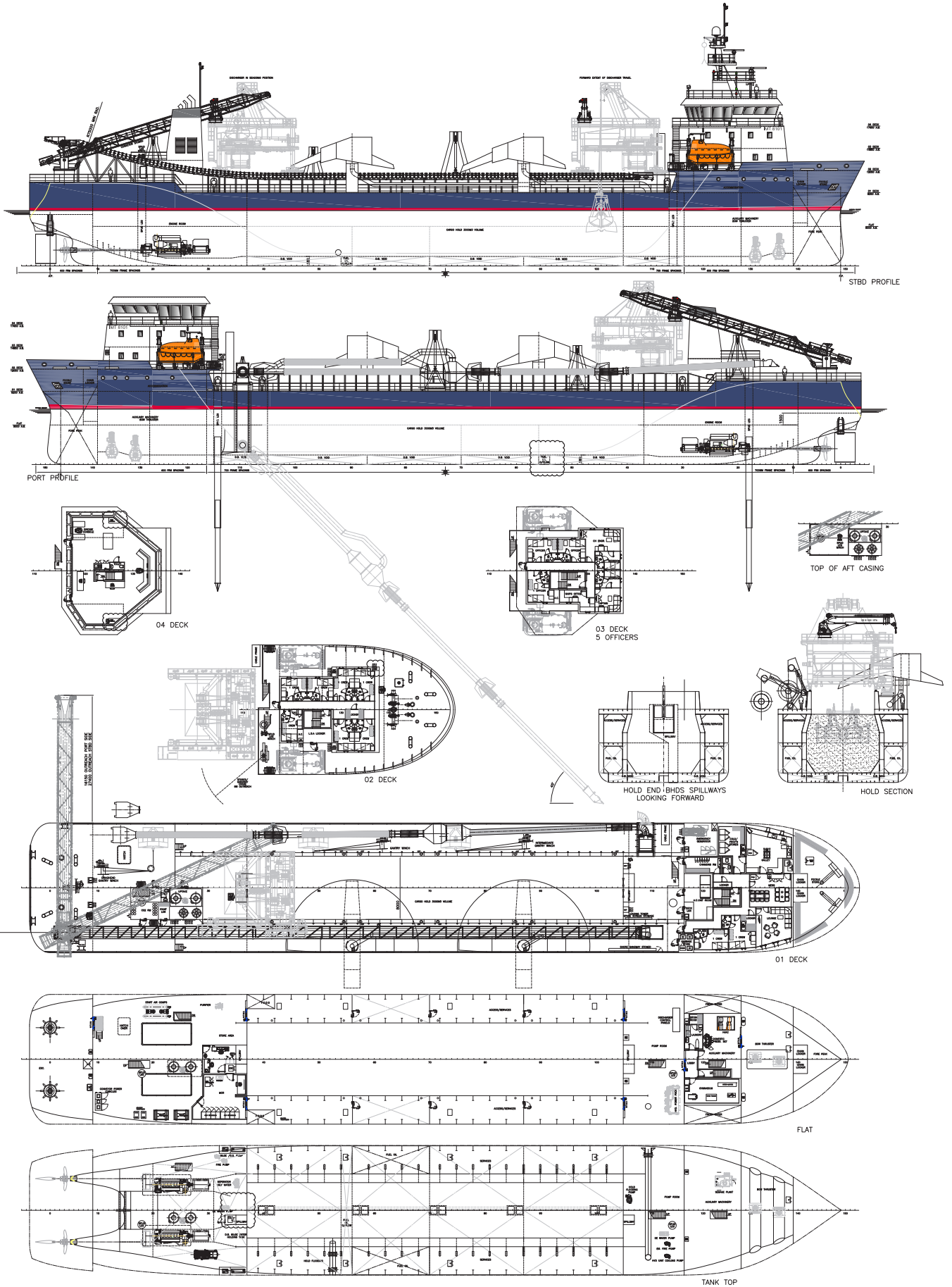
Service spaces to include, garbage store, deck stores, office, LSA Locker, laundry and drying room.

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SHIP DESIGN & MARINE CONSULTANCY

OSD-IMT.com

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