

Toisa Paladin

Multi-Purpose Dive Support Vessel OUTLINE SPECIFICATION / DATA SHEET



GENERAL

Builder / year	Kleven Verft, Norway / 2008
Design	MT6016L
Type	IRM Class Saturation DSV
Flag / POR	British/London
Class Notation	DNV + 1A1, Ice C, SF, COMF-V(3), HELDECK - S, DSV-Sat, E0, Dynpos AUTR, CLEAN, DK (+)

Gross tonnage	5,648
Nett tonnage	1,695
Deadweight (summer)	4,500 tonnes

DIMENSIONS

Length OA	103.70 m
Breadth mid.	19.70 m
Draught (summer)	6.148 m

PERFORMANCE

Service speed	abt. 10-11 knots
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CARGO DECK*

Clear deck area	53.10m x 19.2m = 900m ² (apx)
Deck load Stern - fr#84	10 t/m ²
Deck load fr#84 - fr#109	5 t/m ²
Deck load with crane ops	1,000 tonnes
Deck load without crane ops	2,000 tonnes

* Not accounting for reductions owing to mezzanine deck

TANK CAPACITIES

	Approx. at 100%
Fuel oil	1,319 m ³
Potable water	1,320 m ³
Potable water generators	2 x 25 tonnes/day

PUMP CAPACITIES

Fuel oil	2 x 90 m ³ /hr @ 9 bar
Potable water	2 x 90 m ³ /hr @ 9 bar
Ballast	2 x 90 m ³ /hr @ 9 bar

STABILISATION

Two passive roll reduction stabilisation tanks
Automatic Anti Heeling System with 1,200m³/hr pump

DP2 SYSTEM

IMO Class 2 DP System - Kongsberg K-Pos DP-21
2 x DGPS
1 x HiPAP
1 x hull penetration prepared for 2nd HiPAP
2 x Taut Wire
1 x Fanbeam

MAIN MACHINERY

Diesel Electric Installation 690 volts 60Hz comprising of:
4 x Caterpillar 3516TA-C ea MCR 2,188kW, 2,100 EkW
1 x Caterpillar 3508TA-B MCR 968kW, 910 EkW
Emergency Generator Caterpillar C9, 200 EkW

THRUSTERS

Main Propulsion	2 x Aquamaster Azipull 2,200 kW (2,950 BHP)
BowThruster Azimuth	1 x R-R 883 kW (1,200 BHP)
BowThruster Tunnel	2 x R-R 1050 kW (1,400 BHP)

DECK MACHINERY/CRANES

Main Offshore Crane, Offshore knuckleboom type with active heave compensation on main winch.

Main winch (Double Fall)	140t @ 9m
Main winch (Single Fall)	70t @ 15m, 30t @ 25m
Operating Depth Main Hoist (Subject to Wire Length)	

2000 metres

Auxy winch 10t @ 26m

Auxy winch (manriding) 1t @ 26m

Note: Aux winch is not designed for subsea use

Stbd Deck Offshore Crane	10t @ 12m (man riding)
Port Deck Stores Crane	5t @ 15m

DIVE SYSTEM

Classification	DNV
Capacity	18 person system
Depth rating	300m
Sea state design criteria	4m significant wave height
Bell chambers	1 x 3 divers 2 x 6 person & 2 x 3 person
Hyperbaric lifeboat	1 x 18 man SPHL
Mixed gas storage	13,000 m ³
Moonpool	4.0m x 4.2m
Dive emergency alternator	550 EkW, 440V, 60Hz
Chamber gas reclaim system	
Diver gas reclaim system	

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ACCOMMODATION

Wheelhouse, accommodation and office spaces fully air conditioned, all serviced with LAN and Sat TV sockets.

Single berth cabins	24 with en-suite
Double berth cabins	30 with en-suite
4 berth cabins	4 with en-suite
Complement	100 persons
Mess Room	48 persons
Hospital	1 person
3 x recreation rooms + coffee area	
Gymnasium	

CHARTERER'S AREAS

Project Office, Dive Office, Conference Room, Clients Office, Workshop, Survey area.

HELIDECK

D value of 19.5m and max gross weight of 9.2mt
Heli-reception room and full emergency equipment