SUPREME
HYDRO ENGINEERING PVT. LTD.

Modular 200msw/12man SAT-15 Saturation Diving System

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Saturation Dive Spread - SHEPL (SAT-15)

Designed and built by Hallin Marine, the 12- man Saturation Diving Systems are certified and operated in accordance with International Maritime Contractors Association guidelines and codes of practice for offshore diving operations.

The compact system consists of dive and saturation control, diver's hot water unit, diver gas reclaim, ECU, potable water unit, 9 man deck decompression chamber, 12man hyperbaric rescue chamber and a 3-man diving bell.

SAT-15 Specifications

MAIN PARTICULARS

Builder	Hallin Marine
Classification standard	ABS A1 Saturation Diving System (P)
Design Standard	IMCA D018/D024
Depth Rang	21 bar 200 MSW

DIVE AND SATURATION CONTROL UNIT

Dive/Bell Control panels comprising:
Diver gas reclaim control panel.
Bell services controls:
Electrics, communications and analysers, hot water temp monitoring, carbon dioxide and oxygen analysis of divers gases
Through water emergency communications diver colour hat camera and video monitoring and controls
Bell internal video monitoring and controls.
Chamber life support control panels (DDC, TUP, HRC) comprising:
Unscrambler communications sets,
Chamber depth and atmosphere monitoring and analysis,
Chamber CCTV video monitoring and gas distribution panel.

HYPERBARIC RESCUE CHAMBER 12-MAN

Onboard emergency gas and battery for 72 hours
12-man HRC c/w 12 x full seat harness and approved safety helmets,
1 x toilet, shower & wash basin.

HYPERBARIC RESCUE CHAMBER 12-MAN

3 x CCU, 13 x BIBS complete with dump, 8 x carbon dioxide scrubbers.
Medical lock, communications, 6 x bunk beds.
Dedicated HRC launching winch (hydraulic 10T man riding)

DIVING BELL 3-MAN

3 x Diver Excursion Umbilical's complete with reclaim hose
2 x Diver Helmet mounted colour cameras and lights
2 x Bell Carbon Dioxide Scrubber
2 x Bell Heater (hot water unit)
2 Divers gas reclaim panel
Bell/Diver Communication Systems
Onboard emergency gas cylinders and battery
Through Water Communications
Telescopic stand-off frame
Hydraulic Top & Boom Door System
Internal and External Lights
ROV Intervention Panel

DDC

9-Man Chamber
10 x BIBS complete with dump
2 x CCU, 6 X Carbon dioxide scrubbers
Primary and Secondary Communications
CCTV Camera
Medical Lock

5th Floor, Man Excellenza, S.V. Road, Vile Parle (W), Mumbai – 400 056.

TUP

4 x BIBS complete with dump
Carbon Dioxide scrubbers and communications
CCTV Camera
1 x toilet, shower, wash basin, 1 x CCU

LIFE SUPPORT MACHINERY

3 x ECU Units (100% Redundancy)
2 x Divers Hot Water Units (100% Redundancy)
1 x potable water unit
Haskel AG30 Gas Booster for Bailout and OBG Charging
Air Driven Diver Gas Reclaim Unit
Main / Emergency Switchboard

HRC EMERGENCY CONTROL UNIT

Chamber control panel & ECU
Chamber depth atmosphere
Monitoring and analysis
Chamber CCTV video monitoring and gas distribution panel

CHAMBER VOLUMES

Main DDC	21.40m³
TUP	6.0m³
HRC	19.26m³
Bell	5.00m

MAIN SKID

A' Frame and Bell Trolley
CEC for DDC / TUP / HRC
HRC launch remote control panel/joystick
HRC Launch Hyd Accumulators, HRC Launch Push Rams

WINCH SKID

Main Bell winch (hydraulic 10T man riding)
Clump Weight Winch (hydraulic 6T man riding)
Umbilical Sheave (hydraulic)
Hydraulic Power pack and tanks with 100% redundancy

POWER REQUIREMENTS

Main Power:	440V, 60Hz/ 400Kva
Emergency Power:	440V, 60Hz/ 350Kva

SERVICES

Compressed Air:	400 cfm @ 90 psi
Seawater:	25 gpm @ 2-4 bar
Freshwater:	5 gpm @ 2-3 bar

MAIN SKID (incl. Bell and Chamber)

Length	12800mm
Width	3700mm
Height	6500mm
Weight	76000kg