

Diving System

9-Man Saturation System - 200m



Built

Year Built :	2013
Built Standards :	ABS Rules for building and classing underwater vehicles, system and hyperbaric facilities 2012
Compliance & Standard :	D024 Rev.1, DnV2.7-1/2.7-3

Dive & Saturation Control Unit

- Drive/Bell Control Panels comprising :
- Diver Gas Reclaim Control Panel
 - Bell Service Control
 - Electrics, Communications, Analysers and Hot Water Temperature Monitoring
 - CO₂ and O₂ Analysis of Diver's Gasses
 - Through water emergency communications
 - Diver Color Hat Camera and Video Recording System Controls
 - Bell Internal Video Monitoring and Controls

Chamber/Life Support Control Panel, DDC, TUP & HRC comprising :

- Communication System Control
- Chamber Depth and Atmosphere Monitoring and Analysis
- Chamber CCTV Video Monitoring and Gas Distribution Supply Panel

Hyperbaric Rescue Chamber - 9 Man

- Onboard emergency gas and battery power for 72 hours
- 9 man HRC c/w 1 x toilet, shower, wash basin
- 2 HCU, 10 x BIBS complete with dump, CO₂ scrubbers, medical lock & communication transfer, 3 bunk beds
- Lifting frame, ringging, towing bridle
- Equipt with EPERP & Radar Reflector
- Independent Diesel Driven Hydraulic Power Unit for Launch & Recovery System
- 15 T Man Riding winch with Hydraulic quick release for deployment purpose

Life Support Machinery Container 1, 2 & 3

- Electrical Main & Emergency Power Distribution System
- Dual Diver Hot Water Unit
- 3 x Enviromental Control Unit
- Chamber Potable Water Unit (hot & cold)
- Air Driven Gas Reclaim Surface Unit

3 Man Diving Bell

- 3 x Diver Excursion Umbilicals c/w Reclaim Hose
- 3 x Diver Helmet Mouted with Colour Camera and Light
- 2 x Bell CO₂ Scrubber
- 1 x Bell Heater
- 2 Diver Gas Reclaim Panel
- Bell/ Diver Communication System
- On Board Emergency Gas Cylinders and Power Battery
- Through Water Communications
- Hydraulic Bottom Door System
- Internal and External lights

HRC Emergency Control Unit (Fly Away Pack)

- Control Panel
- Communication and Analysers
- Supplied with Emergency Hook-up Umbilical
- Supplied with Emergency Gas

Chamber Volume

Main DDC :	16.6 m ³
TUP :	6.7 m ³
HRC :	13.5 m ³
BELL :	4.5 m ³

DDC (LC + TUP) Twin Lock Chamber

- 6 man Living Chamber c/w 6 x Bunk Beds with Mattresses
- 7 x BIBS, 2 x HCU, CO₂ Scrubbers, Medical Lock & Communications Transfer

TUP

- 3 x bibs complete with dump
- 1 x Toilet, Shower, Wash Basin, 1 x HCU, CO₂ Scrubber & Communications
- Chamber CCTV video monitoring and gas distribution supply panel

Winch Skid

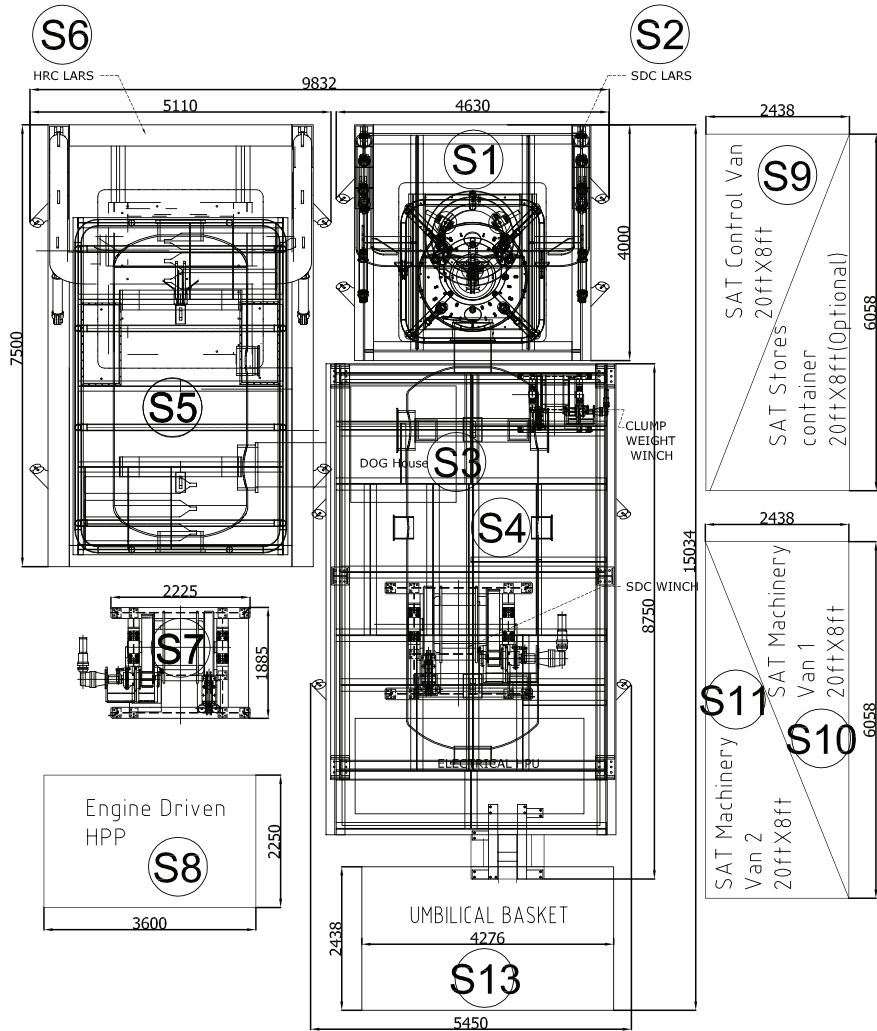
- Main Bell Winch (Hydraulic 10T Man Riding)
- Guide Wire Winch (Hydraulic 8.5 T Double Reaved Man Riding Recovery to Bell Catcher Hooks)
- Umbilical Sheave (Hydraulic)

Power & Services Requirement

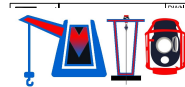
- Portable Water : 26 L/min
- Sea Water : 196 L/min
- LP Air : 420 cfm @ 7 bar
- Electric Supply Main : 440 V/3ph/60 Hz/720 amps
- Electric Supply Standby : 440 V/3 ph/60 Hz/720 amps

SYSTEM DIMENSIONS			
ITEM / DESCRIPTION	LENGTH (m)	WIDTH (m)	HEIGHT (m)
Main Chamber (including Bell & Skid)	11.027	4.276	5.582
HRC	7.86	4.5	6.634
Umbilical Basket	4.276	2.438	1.165
Dive Control Van	6.02	2.438	2.438
Life Support Machinery Van (MV1 and MV2)	6.02	2.438	2.438
Life Support Machinery Van (MV3)	3.048	2.438	2.438
HRC Winch	1.85	2.225	2.3
HRC Winch Diesel HPU	2.25	3.6	2.438

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SAT SPREAD (SAT 01)				
ITEM	DESCRIPTION	Dimension (LxWxH) In mm	WEIGHT	QUANTITY
S1	Submersible Decompression Chamber (SDC)	1800 ID X 2170 H X 30 THK	8.5 T	1
S2	SDC Lars	4000 X 4550 X 5421	12.5 T	1
S3	Top Skid Hpu/Winches/Doghouse	9265 X 5500 X 2750	35 T	1
S4	DDC With Skid	7120 X 5417 X 3287	25 T	1
S5	HRC (Chamber)	2000 ID X 6590 LX 19 THK	12 T	1
S6	HRC Lars Skid	7500 X 5100 X 6571	32 T	1
S7	HRC Dedicated Winch	2225 X 1885 X 2230	7 T	1
S8	Diesel Driven HPU	3600 X 2250 X 2350	9 T	1
S9	Dive Control Van Dnv 2.7-1	6058 X 2438 X 2743	14 T	1
S10	Machinery Van 1 Dnv 2.7-1	6058 X 2438 X 2743	14 T	1
S11	Machinery Van 2 Dnv 2.7-1	6058 X 2438 X 2743	14 T	1
S12	HRC Flyaway Control Van Dnv 2.7-1	3048 X 2438 X 2743	8 T	1
S13	Main SDC Umbilical with Basket	4276 X 2438 X 1165	5 T	1



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9-MAN CLASSED SATURATION SYSTEM-200M LAYOUT PLAN