1984 | 78 m | DP2 DSV with Built-in SAT Diving System 70T SWL Crane Capacity

Specifications

Principle dimensions

Length overall	**78.3 m**
Length Between pp	**69.0 m**
Breadth Moulded	**18.0 m**
Depth Moulded	**08.6 m**

Operating draft

Summer draft	**5.562 m**
Displacement	**5020 tonnes**
Dead weight	**1959 tonnes**

Tonnage

Gross Tonnage	**3700 tonnes**
Net Tonnage	**1110 tonnes**

Cranage

Main crane port side aft:

Capacity (tested for): 70 Ton at 12 m radius

*Upgradeable**up to 140 Ton at 7.75 m radius (with double fall)***

Whip line 8 Ton at 19 m radius

Pedestal cranes stb and port (2 nos)

3 Te at 8 m radius, 1.5 Ton at 12 m

Deck space	**550 sq.m**
Working moonpool	**3.6 m x 3.6 m**
Deck load	**5 tons/sq.m**
Max overall	**1,500 T**

Accomodation

The accommodation is designed and equipped to modern European stand-ards and is fully air-conditioned with a total complement of 80 persons
(38 x Single berth cabins, 21 x Double berth cabins)

DP system

Kongsberg Simrad SDP 521

Reference Systems

1 x Simrad hydroacoustic (410)
1 x Hipap hydroacoustic (500)
2 x Lightweight taut wires
2 x DGPS
1 x fan beam

Power Plant

4 x Bergen diesel engines	**9,480 kW**
(2x KVBG16 & 2x KVBG12)	
Total generated power	**(12,712 HP)**

Propulsion

2 x Azimuth Thrusters (Liaaen) Electric Driven: 1840 kW (each)

Thrusters- Forward

3 x Brunvoll tunnel thrusters 736kw, 11 Ton thrust (each)

Thrusters- Stern

1 x Brunvoll tunnel thrusters 736kw, 11 Ton thrust

Endurance

Fuel consumption (typical)

In port	**4.0 m3 / day**
Transit (Economic Speed)	**17.0 m3 / day**
DP approx	**12~13 m3 / day**
Fresh water making capacity	**30 m3 / day**

Capacities

Marine diesel oil	**780 m3**
Fresh water	**670 m3**
Ballast water	**1718 m3**

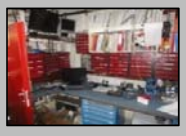
Vessel speed

Maximum speed	**11.5 knots**
Economic Transit Speed	**10.0 knots**

Diving system

Depth rating	**250 MSW**
(presently CLASSED to 250 MSW)	
No in sat	**15+1 (Doctor)**
No of bells	**1x 3 man**
Bell volume	**6 m3**
System volume	**104.5 m3**
Gas storage	**11856 m3**

Reclaim system fitted to chambers and bell. SPHL
Type: enclosed Davit launched, self –driven.



Helideck

Bell 212 , Super Puma, EC225type Helicopter (11.0 T)

Environmental Regulatory No. **99/99/99**

Communication System

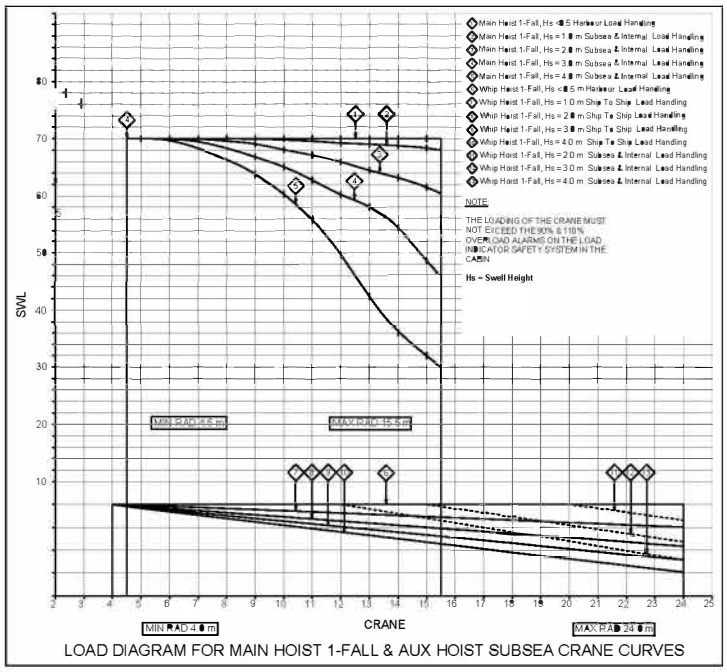
Fleet broad band with internet facility

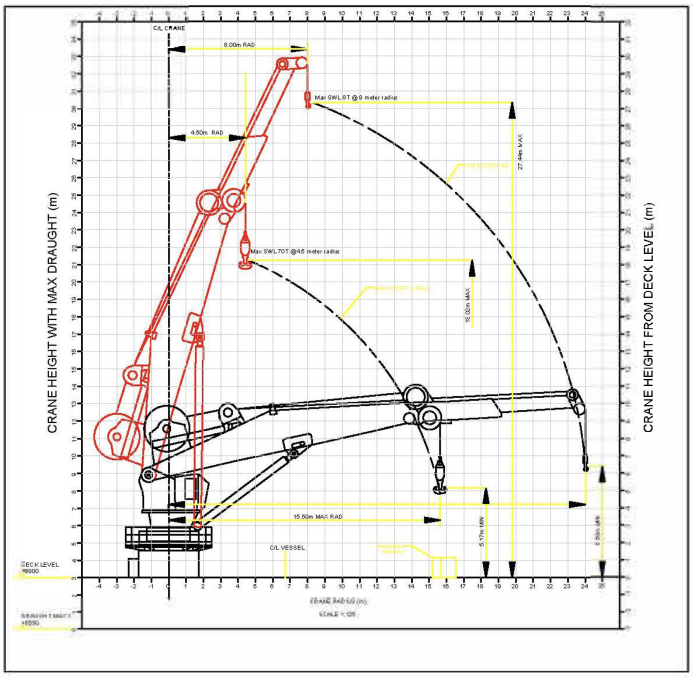
CLASS Notation:

DNV-GL: 1A1, DSV(III), DYNPOS(AUTR), E0, HELDK, SF
IRS: SUL, JUS, HELDK, STS, IY, SYJ, DP(2)

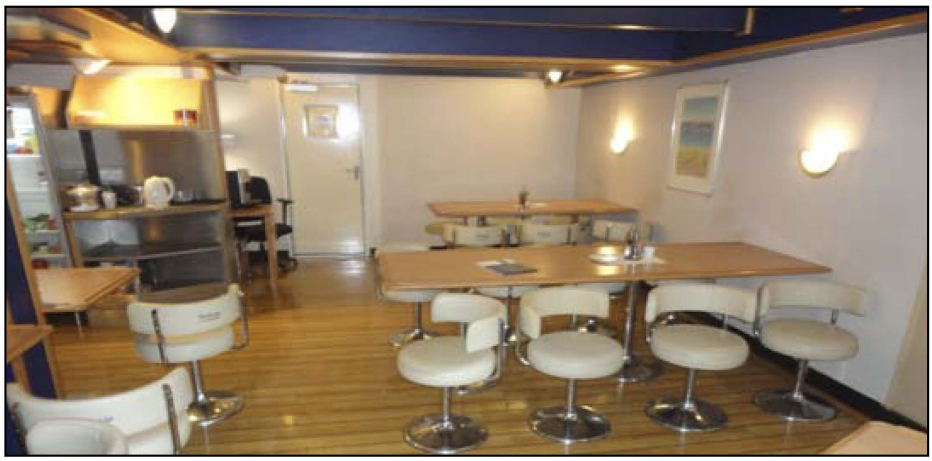
Year built/ Builder

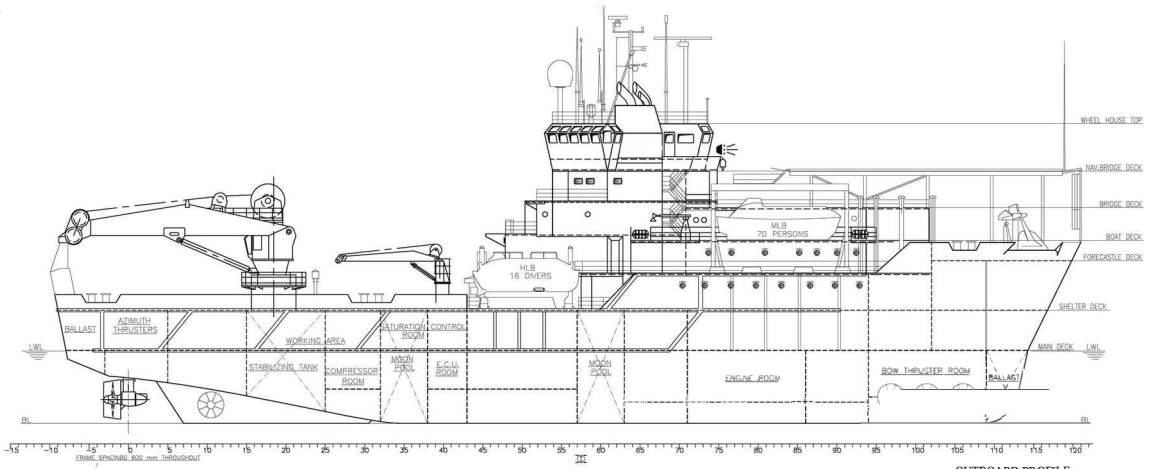
1984 by , Norway


Main Hoist 1-Fall, Hs =0.5 Harbour Load Handling
Main Hoist 1-Fall, Hs = 1.0 m Subsea & Internal Load Handling
Main Hoist 1-Fall, Hs = 2.0 m Subsea & Internal Load Handling
Main Hoist 1-Fall, Hs = 3.0 m Subsea & Internal Load Handling
Main Hoist 1-Fall, Hs = 4.0 m Subsea & Internal Load Handling
Whip Hoist 1-Fall, Hs =0.5 m Harbour Load Handling
Whip Hoist 1-Fall, Hs = 1.0 m Ship To Ship Load Handling
Whip Hoist 1-Fall, Hs = 2.0 m Ship To Ship Load Handling
Whip Hoist 1-Fall, Hs = 3.0 m Ship To Ship Load Handling
Whip Hoist 1-Fall, Hs = 4.0 m Ship To Ship Load Handling
Whip Hoist 1-Fall, Hs = 2.0 m Subsea & Internal Load Handling
Whip Hoist 1-Fall, Hs = 3.0 m Subsea & Internal Load Handling
Whip Hoist 1-Fall, Hs = 4.0 m Subsea & Internal Load Handling
NOTE
THE LOADING OF THE CRANE MUST NOT EXCEED THE 90% & 110% OVERLOAD ALARMS ON THE LOAD INDICATOR SAFETY SYSTEM IN THE CABIN
Hs = Swell Height
SWL
MAX RADIUS m
MAX RAD 15.5 m
CRANE
MIN RAD 4.0 m
MAX RAD 24.0 m
LOAD DIAGRAM FOR MAIN HOIST 1-FALL & AUX HOIST SUBSEA CRANE CURVES

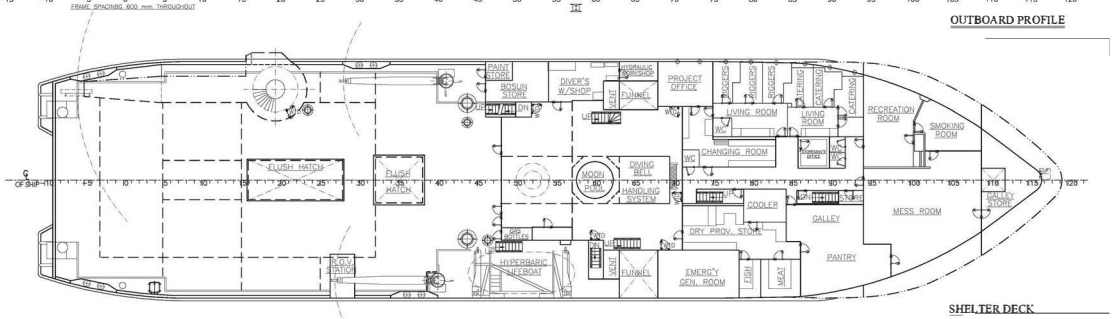

C/L CRANE
8.00m RAD
Max SWL 80T @ 8 meter radius
4.50m RAD
Max SWL 70T @ 9.5 meter radius
15.50m MAX RAD
C/L VESSEL
DECK LEVEL
CRANE HEIGHT WITH MAX DRAUGHT (m)
CRANE HEIGHT FROM DECK LEVEL (m)


LIEBHERR

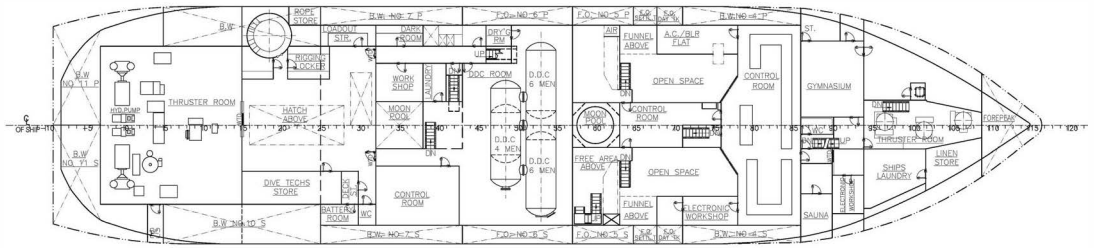




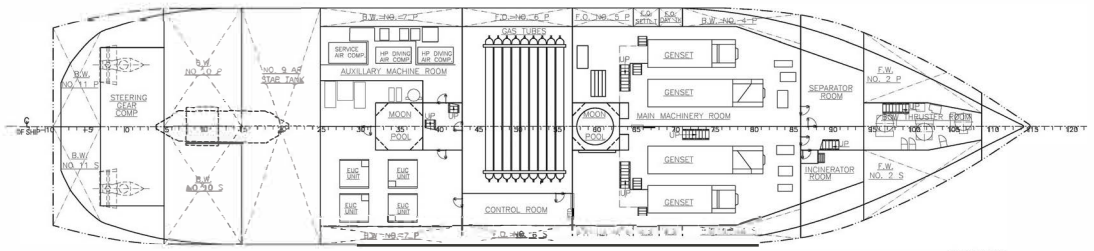
OUTBOARD PROFILE



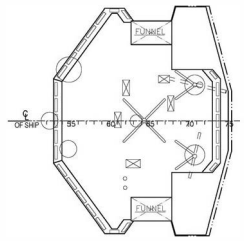
SHELTER DECK



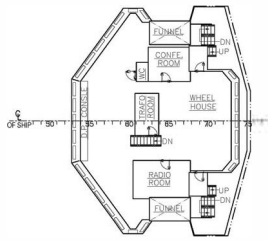
MAIN DECK



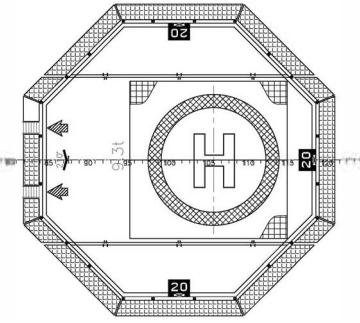
TANK TOP



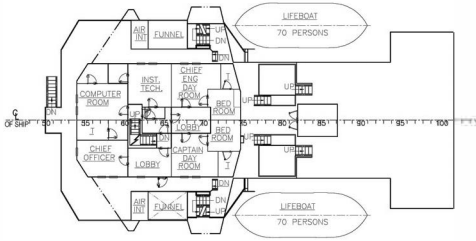
WHEELHOUSE TOP



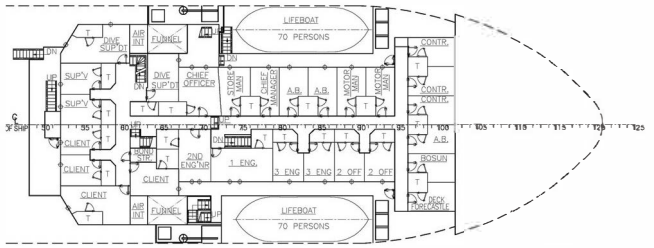
NAV. BRIDGE DECK



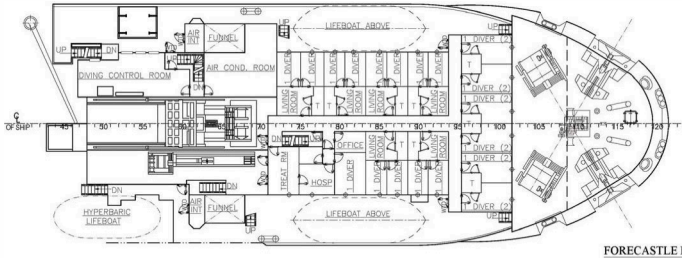
HELICOPTER DECK



BRIDGE DECK



BOAT DECK



FORECASTLE DECK

SATURATION DIVING SYSTEM-01

MAIN PARTICULARS

Upgraded	2008
Certification Standard	DO18
Audited to	IMCA D024
Last Audited	September 2008
Pressure Rated	21 bar (150 msw)

MAIN COMPONENTS

Main Module c/w Bell and LARS
Sat/Dive Control Unit
Hyperbaric Rescue Chamber (HRC) and Launch System
HRC Fly Away Package Control Unit
Main Umbilical Basket
Emergency Umbilical (For main umbilical)
Machinery Container
Hydraulic Power Pack

POWER SUPPLY REQUIREMENTS

Electric Power System	440v,60 Hz
Emergency Generators	250 kVA
Compressor Air	400 cfm,90 psi
Seawater	25 gpm @2-4 bar
Fresh Water	3 gpm @2-3 bar

DIVING COMPONENTS

Main Chamber : 6 Man; Twin Lock
HRC: 4 Man; Twin Lock
TUP
Bell : 2 Man

DIVE CONTROL UNIT

Diver Gas Reclaim System Control Panel c/w Gas Analyzers
Main Chamber Control Panel
TUP control Panel
HRC Control Panel
Chamber and heating Control Panel
Dive /Bell Control Panel
Un-Scrambler Communication & topside thru-water
CCTV To Chambers
Diver Video Surface and Black Box Unit

DIVING BELL

Capacity	2 Divers
Diver Lock-Out	2 Divers
Jewel 601 17B Reclaim Hats	2
KMB 18 Band Mask	2
Lighting	Internal & External
Emergency Communications	Through Water Communication & S/P Phone.
Mating to Main Chamber	Side-mating/Top-mating
Bell Bottom / Top Door	Hydraulic
On-board Gas	60.0m3 in 2 Banks
On-board O2	7.5 m3 in 1 Cylinder
CO2 Removal	1 x DH 21 Scrubber +Lexman
System Mating	Side-mating/Top-mating

HYPERBERIC RESCUE CHAMBER

On-board emergency gas and battery power fro 72 hrs
HRC c/w 12 x Full Seat Harness & approved safety Helmets
1 x Toilet, Shower, Wash Basin
4 x HCU, 13 x BIBS complete with dump, 6 x Carbon dioxide
Lifting Frame & Rigging , towing Bridge
Scrubbers, Medical Lock & Communications Transfer, 6 x Bunk Beds

LIFE SUPPORT MACHINERY

Driver Hot-Water Unit	HMS HWU 100% Redundancy
ECU Units	4 x Kinergetics 126k

Chamber Portable Water Unit (Hot/Cold)
Divex Air Driven Reclaim Unit

HRC EMERGENCY CONTROL UNIL

Control Panel With Window Aircon
Communications & Analyzers
Environment Control Heating & Cooling

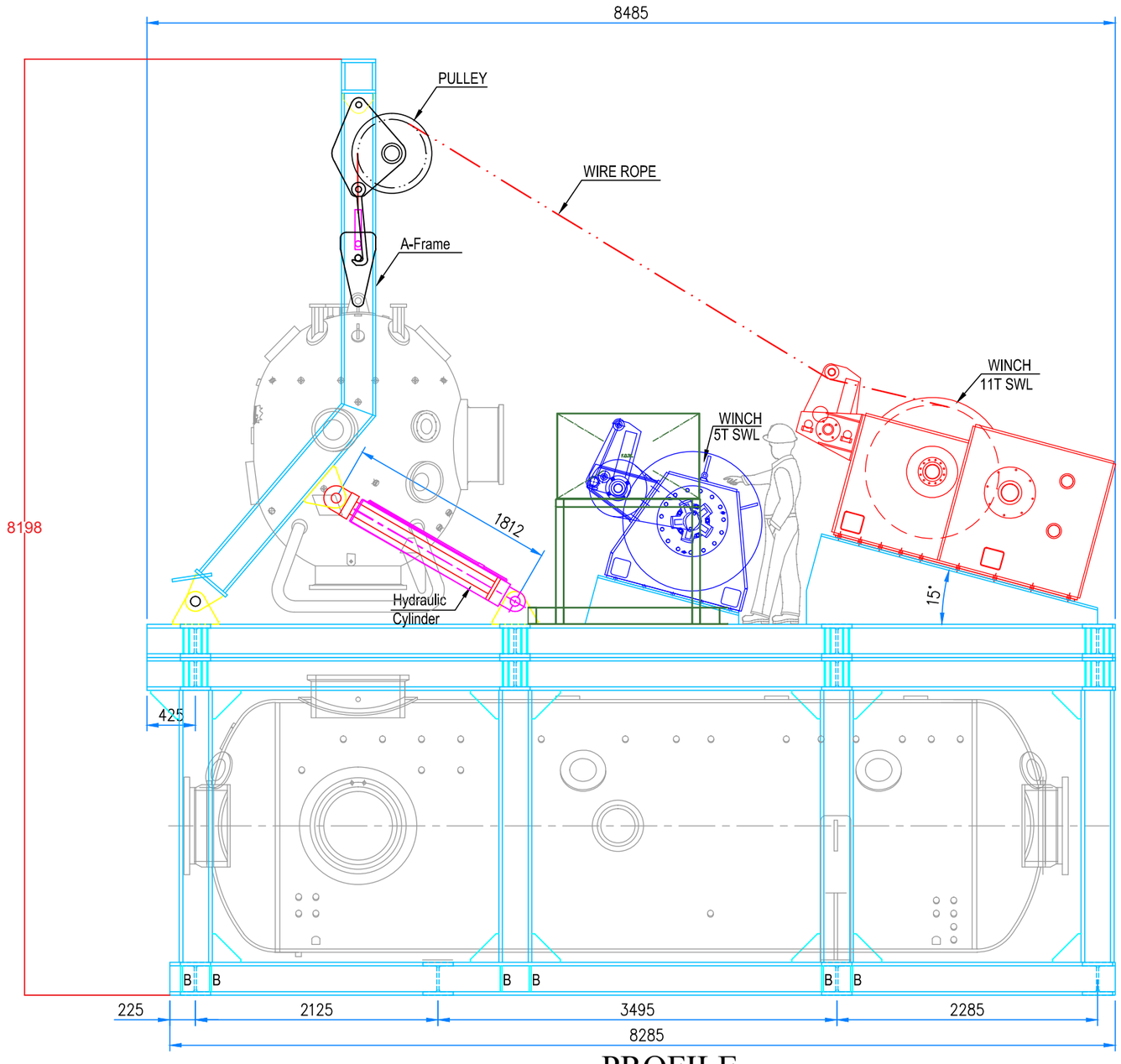
LIFE SUPPORT MACHINERY

Driver Hot-Water Unit	HMS HWU 100% Redundancy
ECU Units	4 x Kinergetics 126k

Chamber Portable Water Unit (Hot/Cold)
Divex Air Driven Reclaim Unit

The Saturation Diving System is built and maintained in accordance with International Marine Contractors Association (IMCA) guidelines for offshore Diving Systems D018, to carry out Saturation diving operations up to 150 m water depth.

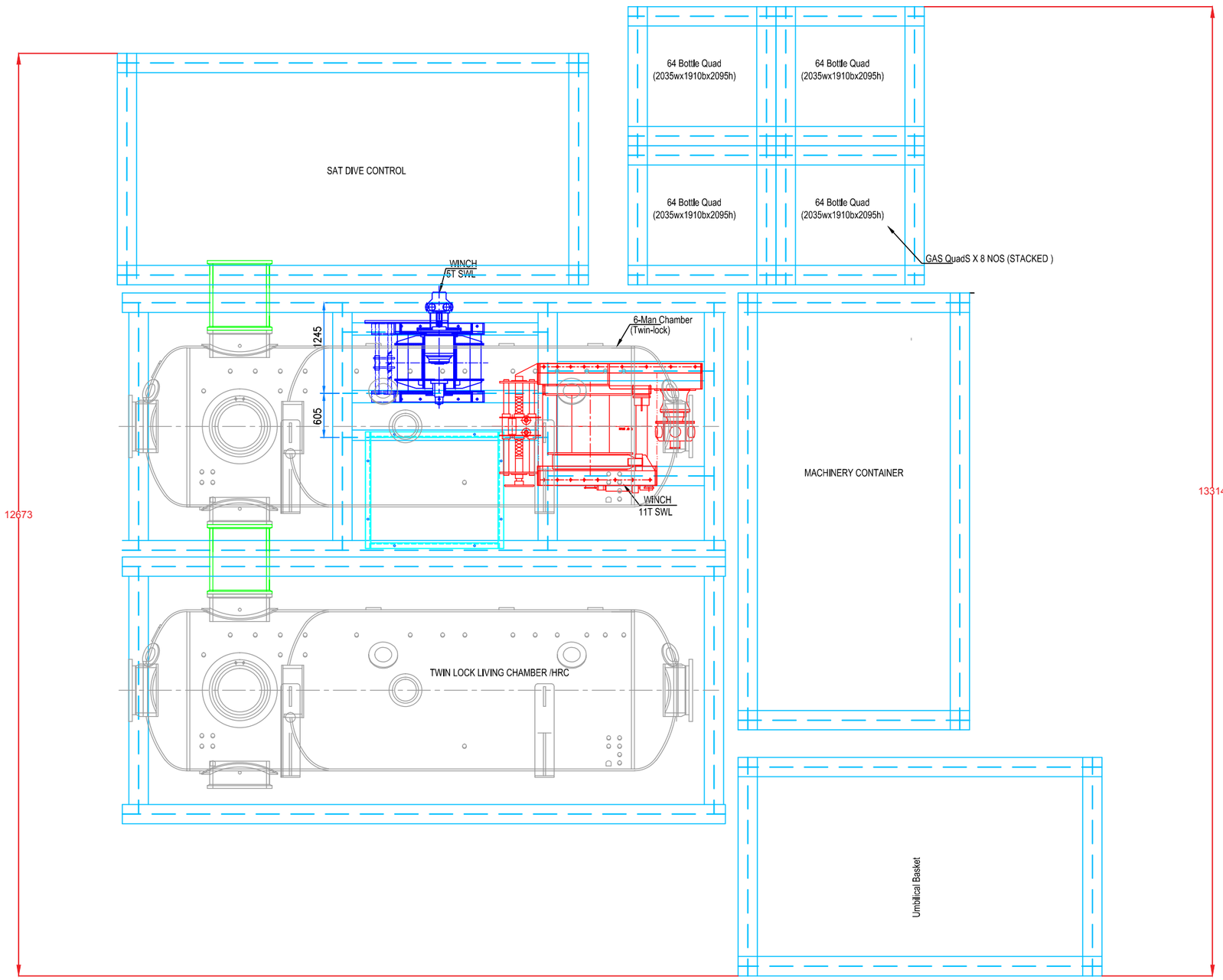
***The above specifications reflect to the current configuration of the system. Specifications are subjected to change without prior notice*



PROFILE

STACKING CONDITION (Top Mating/Side Mating)

SR. NO.	DESIGNATION	DIMENSION (W x B x H)	WEIGHT (KG)
1	A-FRAME SKID	8485 x 3665 x 5000	14000 KG
2	BELL+CLAMP WEIGHT	3.43 cu.m	9000 KG
3	MAIN CHAMBER	8285 x 3400 x 3380	40500 KG
4	DDC- CHAMBER	8385 x 3400 x 3380	35000 KG
5	SAT DIVE CONTROL	8485 x 3665 x 5000	10000 KG
6	MACHINERY CONTAINER	6096 x 2514 x 3380	10000 KG
7	UMBILICAL BASKET+UMBILICAL	5580 x 3500 x 3500	1800KG
8	STANDARD 64 BOTTLE QUAD	5580 x 3500 x 3500	7500KG



TOTAL DECK SPACE TAKEN = 12673 X 13314