



SYNERGY

INNOVATIVE DIVING EQUIPMENT TRADING LLC

INSPIRING • ENGINEERING • INNOVATION

UAE • UK • INDIA • AZERBAIJAN



Synergy ABS-Classed Single Basket 2-Diver Launch & Recovery System (LARS)

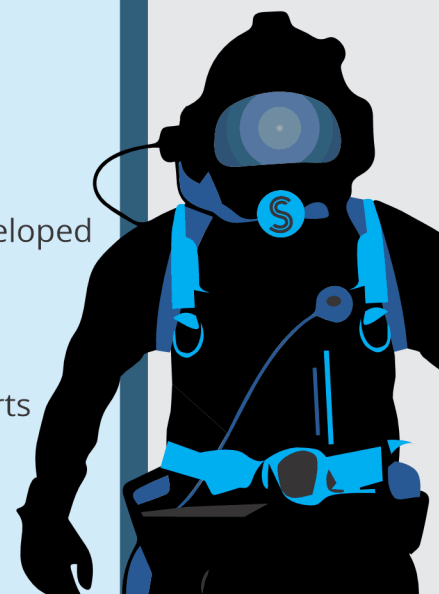
Synergy's Single Basket 2-Diver Launch and Recovery System (LARS) is designed for high-performance offshore diving operations, providing efficient and safe deployment and recovery for two divers. Its compact and robust design allows for optimized space utilization without compromising operational reliability.

Fully compliant with ABS marine-class requirements, the system ensures smooth, safe, and dependable operation even in the most demanding offshore environments.

System Overview - Model: D2-12

The D2-12 is a single-basket LARS mounted on a single skid assembly, developed to meet operational space constraints while maintaining compliance with international standards for diver safety and system performance.

This unit is part of Synergy Group's standard LARS product line and supports surface-supplied diving operations with a compact footprint and flexible deployment options.





SYNERGY

INNOVATIVE DIVING EQUIPMENT TRADING LLC

INSPIRING • ENGINEERING • INNOVATION

UAE • UK • INDIA • AZERBAIJAN

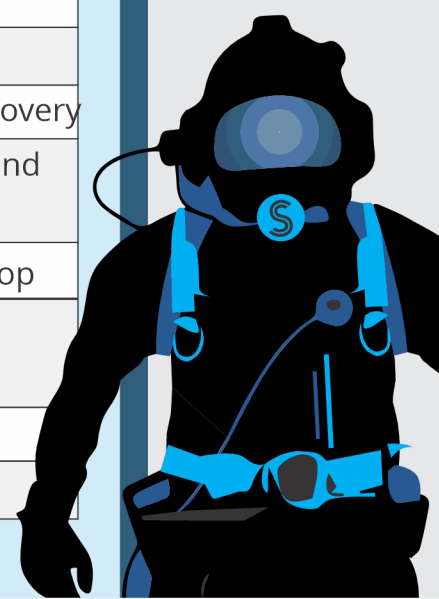


ABS-Classed 2-Diver Single Basket Launch & Recovery System (LARS)



IMCA Code:	Description:
IMCA D018:	Code of Practice for the Initial and Periodic Examination, Testing, and Certification of Diving Plant and Equipment
IMCA D023:	Design – Diving Equipment Systems Inspection Guidance Note
IMCA D014:	International Code of Practice for Offshore Diving

Sr. No.	Description:
1	1 x Skid for Mounting All LARS Equipment
2	1 x Rugged A-Frame (1500 kg Rated) for Luffing Diver Baskets and Guide Weights
3	2 x Hydraulic Luffing Cylinders with Stainless Steel Shafts
4	1 x Main man-riding winch for diver basket deployment and recovery
5	1 x Guide wire man-riding winch for guide weight deployment and recovery
6	Guide Wire and Basket Ropes Routed via Sheaves on A-Frame Top
7	1 x Dedicated Hydraulic Power Unit & Electrical DB for A-Frame luffing and main diver basket winch
8	1 x Emergency HPU (cross-over capable to replace main HPU)
9	1 x Main diver basket equipped with 10 m ³ onboard gas



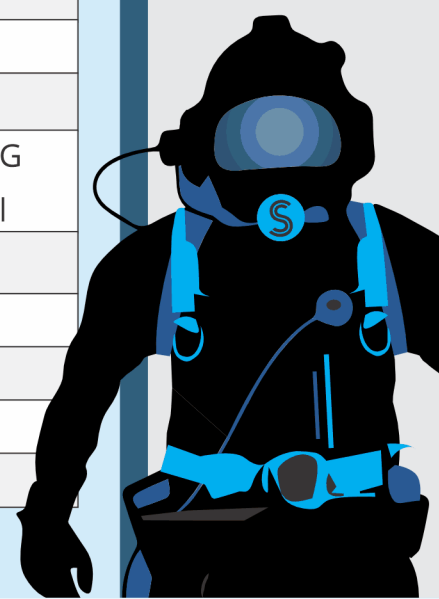


SYNERGY

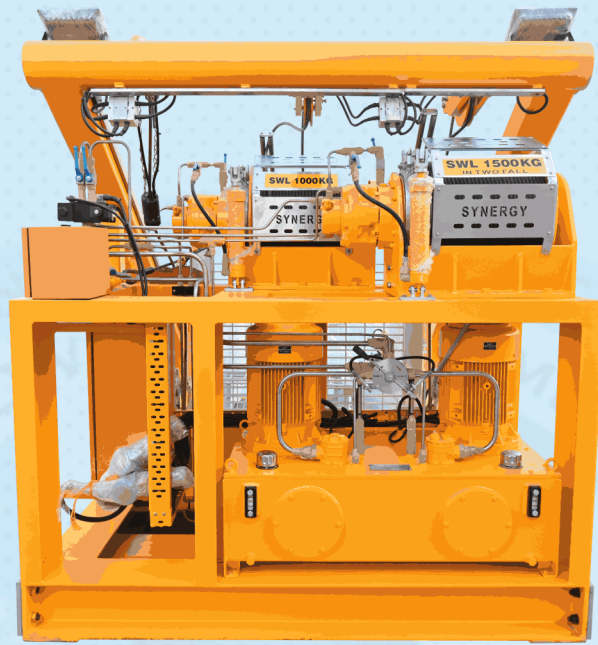
INNOVATIVE DIVING EQUIPMENT TRADING LLC

INSPIRING • ENGINEERING • INNOVATION

UAE • UK • INDIA • AZERBAIJAN



ABS-Classed 2-Diver Single Basket Launch & Recovery System (LARS)



Description:	Specification:
Diver Capacity	2 Divers
Maximum Working Depth	50 m (Air Diving)
SWL of A-Frame	1500 kg
Main Dive Cage Mass (without cylinders)	350 kg
Main Dive Cage – Maximum Gross Mass	800 – 900 kg
Main Dive Cage Guide Weight – Maximum Mass	300 kg
Main Dive Cage Guide Weight System SWL	1000 kg
SWL of Main Basket Winch in LARS	1000 kg
SWL of Main Basket Guide Wire Winch in LARS (Single Fall)	750 kg
Operational Sea State	3 (Max 2.4 m Hs)
Temperature Range	-20 °C to +50 °C
Dynamic Loading	1G Longitudinal, 1G Lateral, 2G Vertical
Overall Length (A-Frame Luffed Outboard)	3340 mm
Overall Length (A-Frame Stowed)	3140 mm
LARS Overall Weight (Incl. Guide Weight & Basket)	4500 kg
Overall Width (Inboard and Deployed)	2000 mm
Overall Height (A-Frame Stowed, Max.)	2210 mm



SYNERGY

INNOVATIVE DIVING EQUIPMENT TRADING LLC

INSPIRING • ENGINEERING • INNOVATION

UAE • UK • INDIA • AZERBAIJAN



Electrical Data:

Description:	Detail:
Power:	2 X 11 KW, 22KW Peak
Voltage:	415 V ± 10%, 50-60 Hz
Amperage:	50 A Peak (2 X 11 KW)
Phase:	3 Phase + Earth
Fault Current - Max:	10kA (Max fault current at the point of supply)

LARS Components:

LARS is designed as an assembly of different components and optional fit outs available to suit the requirement of site conditions / customer requirement.

The following are the main component and options available in LARS.

Components:

- Base Skid & A Frame
- Main Basket
- Main Winch for Main Basket
- Guide wire Winch for Main Basket
- 11 KW Hydraulic Power Unit Main 1 & 2
- HPU Electrical Control Box IP 66 RATED
- Over hoist protection Limit Switch
- Wire counter for Main Winch and Guide Weight Winch wire rope





SYNERGY

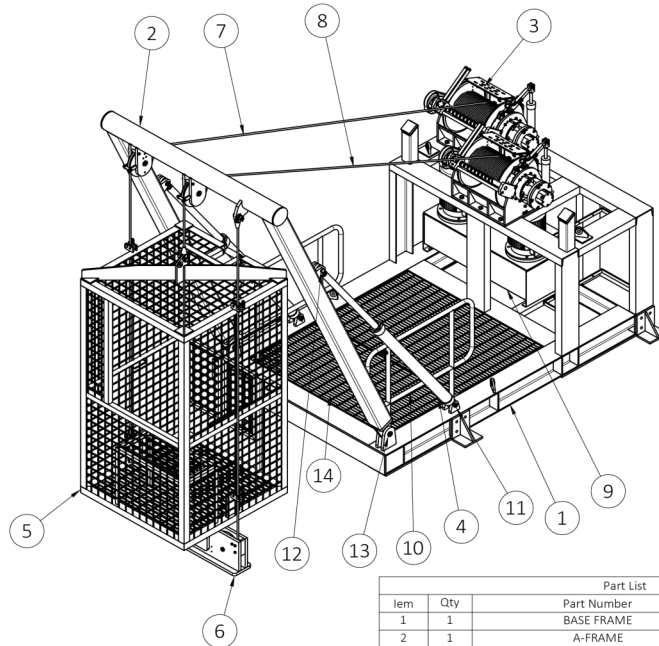
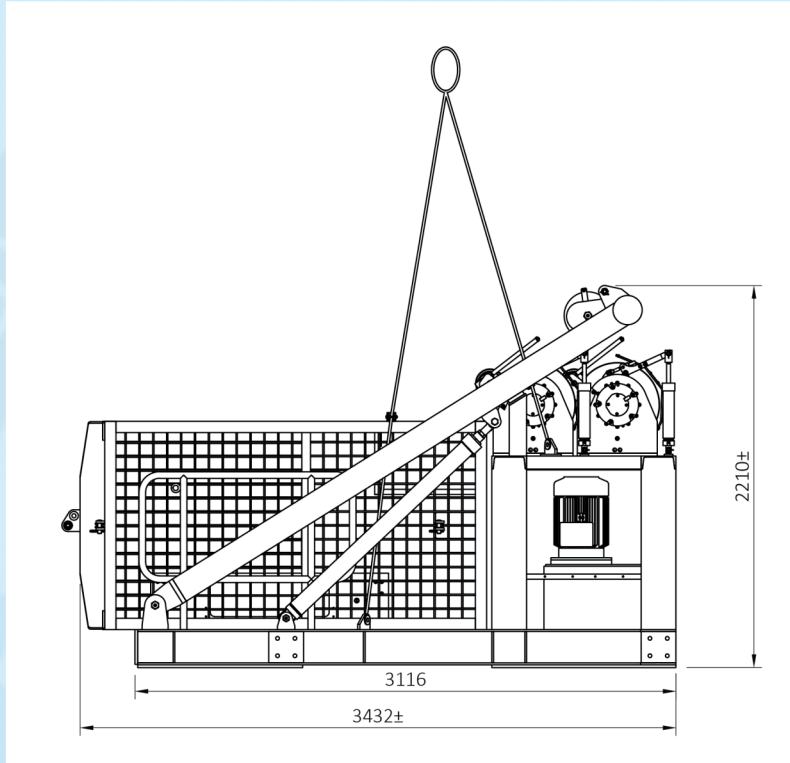
INNOVATIVE DIVING EQUIPMENT TRADING LLC

INSPIRING • ENGINEERING • INNOVATION

UAE • UK • INDIA • AZERBAIJAN

ABS-Classed 2-Diver Single Basket Launch & Recovery System (LARS)

Main Skid & A-Frame



Part List			
Item	Qty	Part Number	Description
1	1	BASE FRAME	SVOE/SL/BSF-101
2	1	A-FRAME	SVOE/SL/AFR-201
3	2	WINCH	SVOE/SL/WNH-801
4	2	HYDRAULIC CYLINDER ASSEMBLY	SVOE/SL/HDC-501
5	1	BASKET	SVOE/SL/MBC-301
6	1	GUIDE WEIGHT	SVOE/SL/GWC - 401
7	1	GUIDE WEIGHT ROPE	Ø 13
8	1	BASKET ROPE	Ø 13
9	1	HYDRAULIC POWERPACK ASSEMBLY	SVOE/SL/HYPP-601
10	2	HAND RAIL	SVOE/SL/HRL-701
11	2	HYDRAULIC CYLINDER PIN 1	Ø 30
12	2	HYDRAULIC CYLINDER PIN 2	Ø 30
13	2	A-FRAME PIN	Ø 35
14	1	GRATING	-
15	4	MOUNTING BRACKET	SVOE/SL/MB-702



SYNERGY

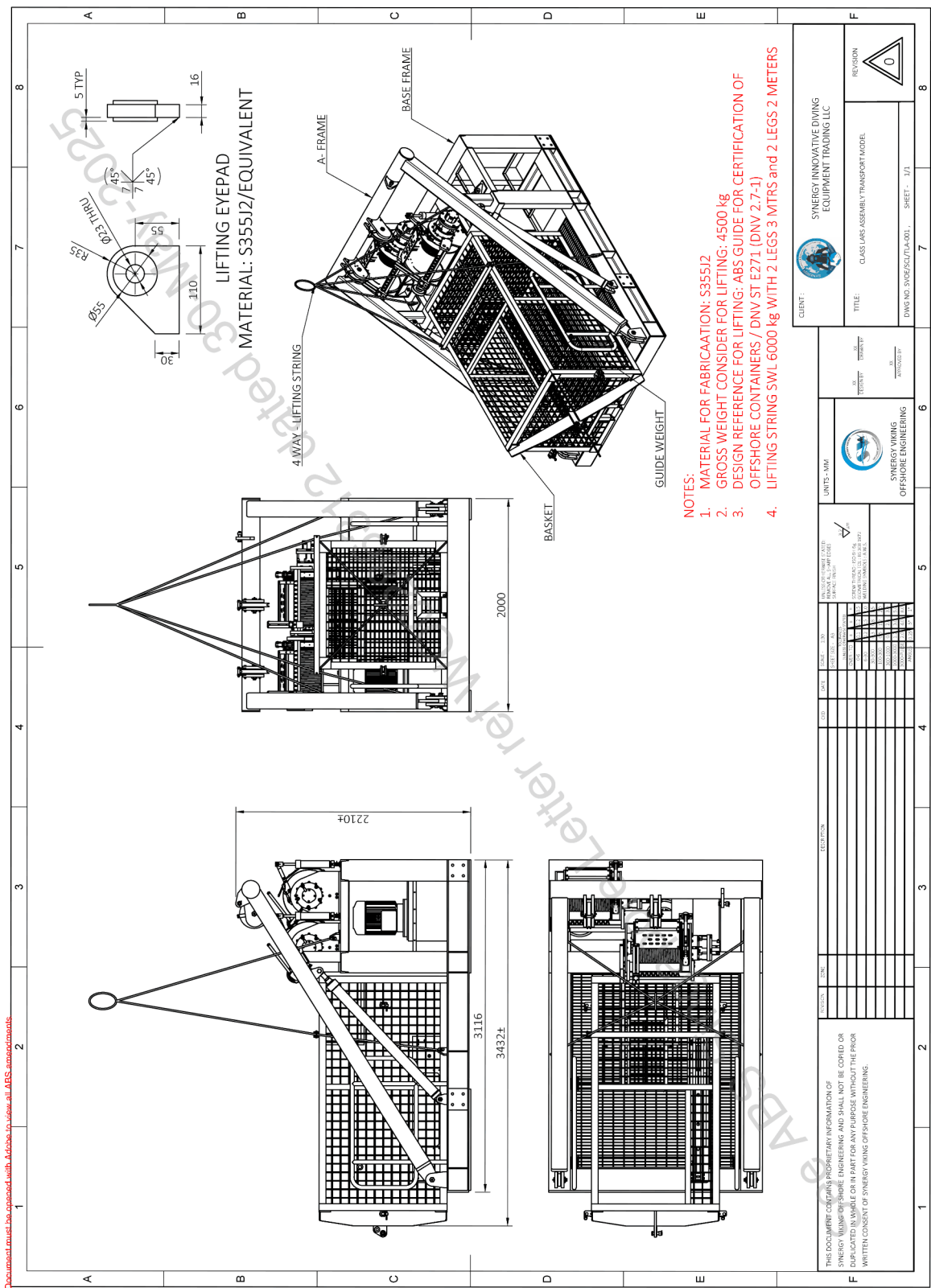
INNOVATIVE DIVING EQUIPMENT TRADING LLC

INSPIRING • ENGINEERING • INNOVATION

UAE • UK • INDIA • AZERBAIJAN

ABS-Classed 2-Diver Single Basket Launch & Recovery System (LARS)

GA Drawing



Document must be opened with Adobe to view all ABS annotations

<p>CLIENT: SYNERGY INNOVATIVE DIVING EQUIPMENT TRADING LLC</p>		<p>REVISION: 0</p>	
<p>TITLE: CLASS LARS ASSEMBLY TRANSPORT MODEL</p>		<p>DWG NO. SYD/SC/TA/001... SHEET - 1/1</p>	
<p>UNITS - MM</p>		<p>SYNERGY VIKING OFFSHORE ENGINEERING</p>	
<p>DESIGNER: [Signature]</p>		<p>CHECKED: [Signature]</p>	
<p>DATE: [Date]</p>		<p>SCALE: [Scale]</p>	
<p>PROJECT: [Project Name]</p>		<p>DESCRIPTION: [Description]</p>	
<p>THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF SYNERGY VIKING OFFSHORE ENGINEERING AND SHALL NOT BE COPIED OR DUPLICATED IN WHOLE OR IN PART FOR ANY PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF SYNERGY VIKING OFFSHORE ENGINEERING.</p>		<p>1 2 3 4 5 6 7 8</p>	



SYNERGY

INNOVATIVE DIVING EQUIPMENT TRADING LLC

INSPIRING • ENGINEERING • INNOVATION

UAE • UK • INDIA • AZERBAIJAN

ABS-Classed 2-Diver Single Basket Launch & Recovery System (LARS)

Contact us



Synergy Innovative Diving Equipment Trading LLC

P.O. Box: 237849, Warehouse No.242, 29th street, Behind Al Huraiz Est, For Industry, Al Qusais, Industrial Area - 1, Dubai - U.A.E

+9714 2580533 / +971 50 564 8178
ram@synergyequipment.com
www.synergyequipment.com



Synergy Diving & Oilfield Equipments Trading LLC

P.O. Box: 2419, Office: 216, 2nd Floor, Dar Al Salaam Building Hamdan Street, Abu Dhabi - U.A.E

+971 50 564 8178 / +971 54 460 1492
ram@synergyequipment.com
unilok@synergyequipment.com
www.synergyequipment.com



iSubC Diving Equipment Ltd

Units 10 Holly Close, Whitehills Business Park Westby With Plumpton, Blackpool, FY4 5QP, United Kingdom

+44 1253 767 788 / + 44 7951 966 260
info@isubc.com
www.isubc.com



Synergy Viking Offshore Engineering

Rabale Ttc Industrial Area Road no 20, Near Narayan dairy, Navi Mumbai, Thane - 400701, Maharashtra, India

+91 98218 90129
ram@synergyequipment.com
www.synergyviking.com



Synergy Group Azerbaijan

Gasan Aliyev, 14A
Baku
Azerbaijan

+99470 330 35 20
infoazerbajian@synergyequipment.com
www.synergyazerbajian.com

