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INNOVATIVE DIVING EQUIPMENT TRADING LLC

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3-Diver Twin Basket Launch & Recovery System (LARS)



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Synergy's 3-Diver Twin Basket Launch and Recovery System (LARS) is designed for efficient and safe offshore diving operations, offering increased diver capacity within a compact and robust configuration.

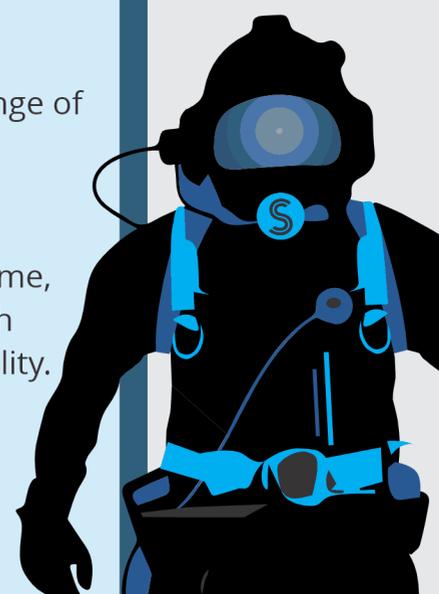
Developed as a Non-Class ABS model, this system has undergone Bureau Veritas Class witness testing to verify safety, functionality, and performance under operational conditions.

It ensures smooth and reliable diver deployment and recovery across a range of offshore environments.

System Overview - Model: D3-24 (Non-Class ABS / BV Witnessed)

The D3-24 is a Side-by-Side Twin Basket LARS mounted on a single skid frame, engineered to address space limitations while maintaining compliance with IMCA D023 and D018 requirements for diver safety and operational reliability.

This model is part of Synergy Group's standard LARS series, supporting surface-supplied diving operations with enhanced flexibility, simplified maintenance, and optimized footprint.





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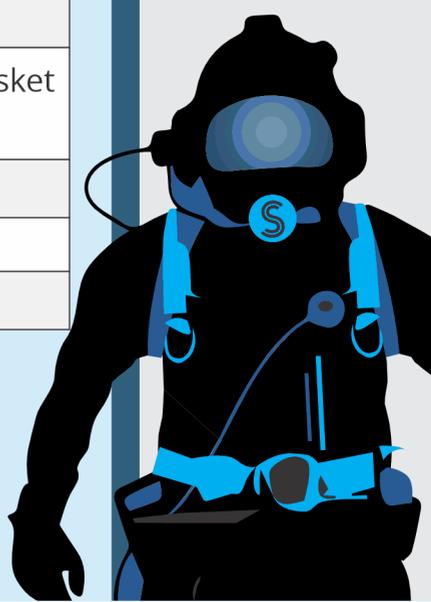
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IMCA Code:	Description:
IMCA D018:	Code of Practice for the Initial and Periodic Examination, Testing, and Certification of Diving Plant and Equipment
IMCA D023:	Design – Diving Equipment Systems Inspection Guidance Note
IMCA D014:	International Code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

Sr. No.	Description:
1	1 x Skid for Mounting All LARS Equipment
2	1 x Rugged A-Frame (2000 kg Rated) for Luffing Diver Baskets and Guide Weights
3	2 x Hydraulic Luffing Cylinders with Stainless Steel Shafts
4	2 x Main Man-Riding Winches for Diver Basket Deployment and Recovery
5	2 x Guide Wire Man-Riding Winches for Guide Weight Deployment and Recovery
6	Guide Wire and Basket Ropes Routed via Sheaves on A-Frame Top
7	1 x Dedicated Main HPU & Electrical DB for A-Frame Luffing and Main Diver Basket Winches
8	1 x Dedicated Standby HPU & Electrical DB for Standby Diver Basket Winch
9	1 x Emergency HPU (Cross-Over Capable to Either Main HPU)
10	1 x Main Diver Basket with 20 m ³ Onboard Gas
11	1 x Standby Diver Basket with 10 m ³ Onboard Gas





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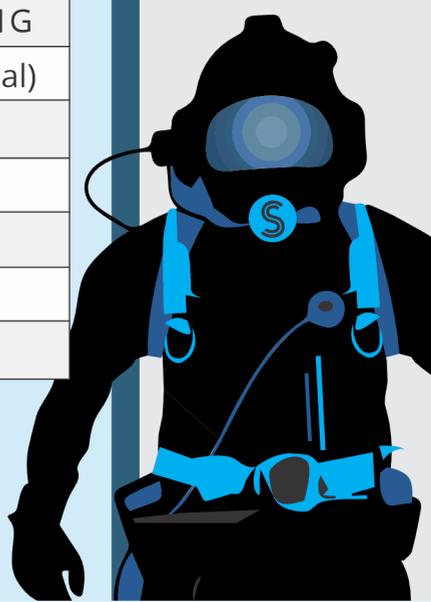
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3-Diver Twin Basket Launch & Recovery System (LARS)



Description:	Specification:
Diver Capacity:	2 Divers & 1 Standby Diver
Maximum Working Depth:	60 m
SWL of A-Frame:	2000 KG
Main Dive Cage Mass (without cylinders):	400 KG
Main Dive Cage – Maximum Gross Mass:	950 KG
Main Dive Cage Guide Weight – Maximum Mass:	200 KG
Standby Dive Cage Guide Weight – Maximum Mass:	150 KG
Main Dive Cage Guide Weight System SWL:	1200 KG
Standby Dive Cage Mass (without cylinders):	380 KG
Standby Dive Cage – Maximum Gross Mass:	650 KG
Standby Dive Cage Guide Weight SWL (Single Fall):	650 KG
SWL of Main Basket Winch in LARS	1000 KG
SWL of Main Basket Guide Wire Winch in LARS (Single Fall)	600 KG
SWL of Standby Basket Winch in LARS	700 KG
SWL of Standby Basket Guide Wire Winch in LARS (Single Fall)	500 KG
Operational Sea State	Sea State-2 (Max. 2m Hs) -15 to +50 °C
Temperature Range	1G (Longitudinal), 1G
Dynamic Loading	(Lateral), 2G (Vertical)
Overall Length (A-Frame Luffed Outboard)	6140 mm ±
Overall Length (A-Frame Stowed)	4040 mm
LARS Overall Weight (Incl. Guide Weight & Baskets)	6500 KG
Overall Width (Inboard and Deployed)	2250 mm
Overall Height (A-Frame Stowed, Max.)	2250 mm





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Electrical Data:

Description:	Detail:
Power:	2 X 11 KW, 22KW Peak
Voltage:	415 V \pm 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 & Stand by Basket
- Main Winch for Main Basket & Stand by Basket
- Guide wire Winch for Main Basket & Stand by Basket
- 11 KW Hydraulic Power Unit Main 1 & 2
- 11 KW Hydraulic Power unit Emergency-1
- HPU-2 Electrical Control Box IP 66 RATED
- Emergency HPU Electrical control Box IP 66 RATED
- Over hoist protection Limit Switch





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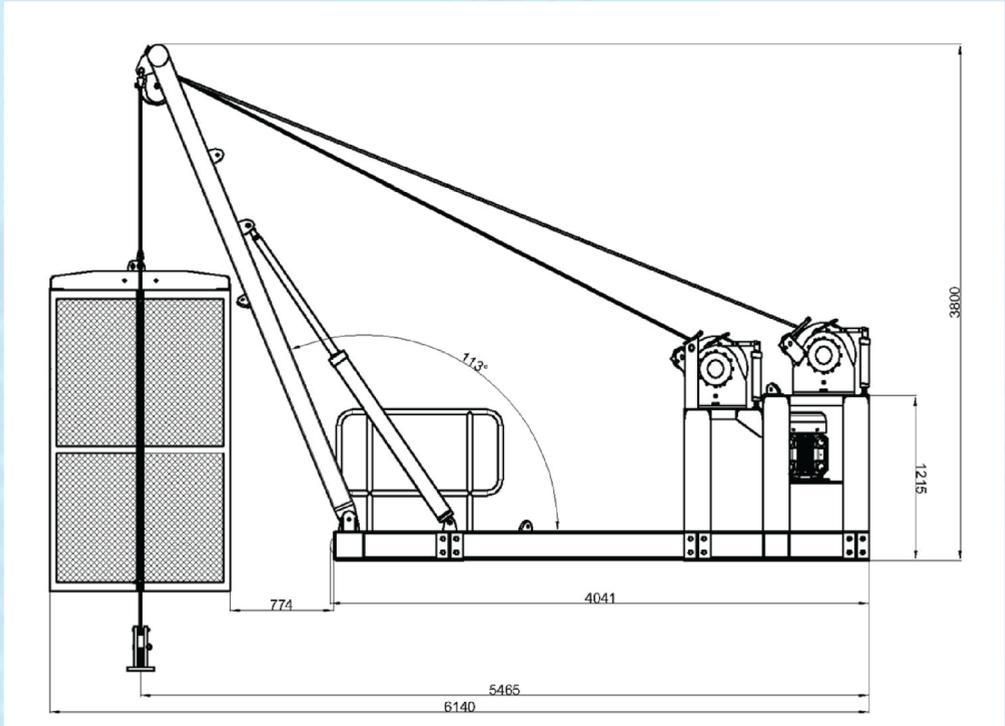
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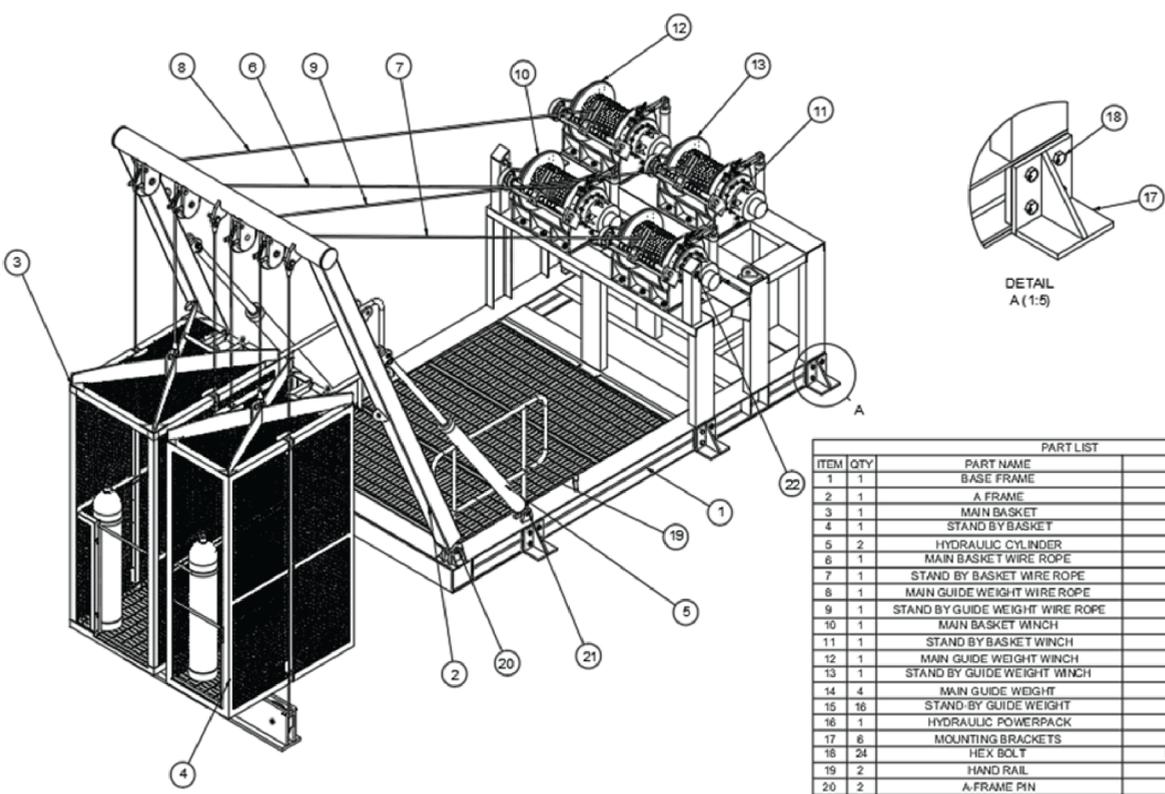
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3-Diver Twin Basket Launch & Recovery System (LARS)

Main Skid & A-Frame



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PART LIST			
ITEM	QTY	PART NAME	MATERIAL / REMARK
1	1	BASE FRAME	SVOE/TWL/BSF-611
2	1	A FRAME	SVOE/TWL/AFR-621
3	1	MAIN BASKET	SVOE/TWL/MNC-631
4	1	STAND BY BASKET	SVOE/TWL/SBC-641
5	2	HYDRAULIC CYLINDER	SVOE/TWL/HDC-651
6	1	MAIN BASKET WIRE ROPE	Ø13
7	1	STAND BY BASKET WIRE ROPE	Ø13
8	1	MAIN GUIDE WEIGHT WIRE ROPE	Ø15
9	1	STAND BY GUIDE WEIGHT WIRE ROPE	Ø13
10	1	MAIN BASKET WINCH	SVOE/TWL/WNH-661
11	1	STAND BY BASKET WINCH	SVOE/TWL/WNH-661
12	1	MAIN GUIDE WEIGHT WINCH	SVOE/TWL/WNH-661
13	1	STAND BY GUIDE WEIGHT WINCH	SVOE/TWL/WNH-661
14	4	MAIN GUIDE WEIGHT	SVOE/TWL/MGW-661
15	16	STAND BY GUIDE WEIGHT	SVOE/TWL/SGW-671
16	1	HYDRAULIC POWERPACK	SVOE/TWL/HYP-681
17	6	MOUNTING BRACKETS	SVOE/TWL/MB-603
18	24	HEX BOLT	HT CLASS 10.9 STEEL
19	2	HAND RAIL	SVOE/TWL/HR-602
20	2	A-FRAME PIN	SVOE/TWL/PIN-601
21	2	HYDRAULIC CYLINDER PIN	SVOE/TWL/PIN-601
22	2	LOCKING PIN	SVOE/TWL/PIN-601



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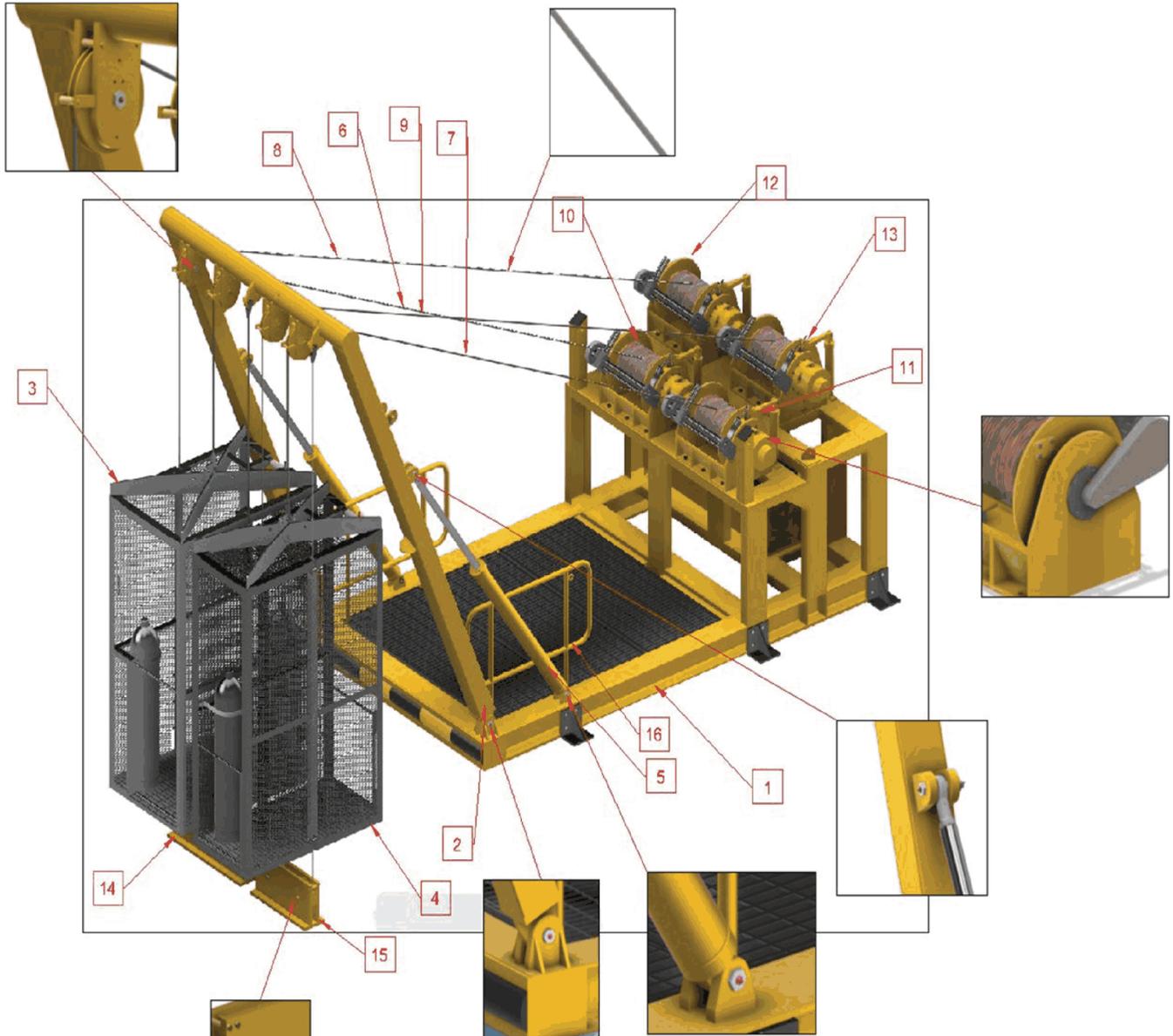
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Lubrication



1	BASE FRAME	9	STAND-BY GUIDE WEIGHT WIRE ROPE
2	A-FRAME	10	MAIN BASKET WINCH
3	MAIN BASKET	11	STAND-BY BASKET WINCH
4	STAND-BY BASKET	12	MAIN GUIDE WEIGHT WINCH
5	HYDRAULIC CYLINDER	13	STAND-BY GUIDE WEIGHT WINCH
6	MAIN BASKET WIRE ROPE	14	MAIN GUIDE WEIGHT
7	STAND-BY BASKET WIRE ROPE	15	STAND-BY GUIDE WEIGHT
8	MAIN GUIDE WEIGHT WIRE ROPE	16	HAND RAIL



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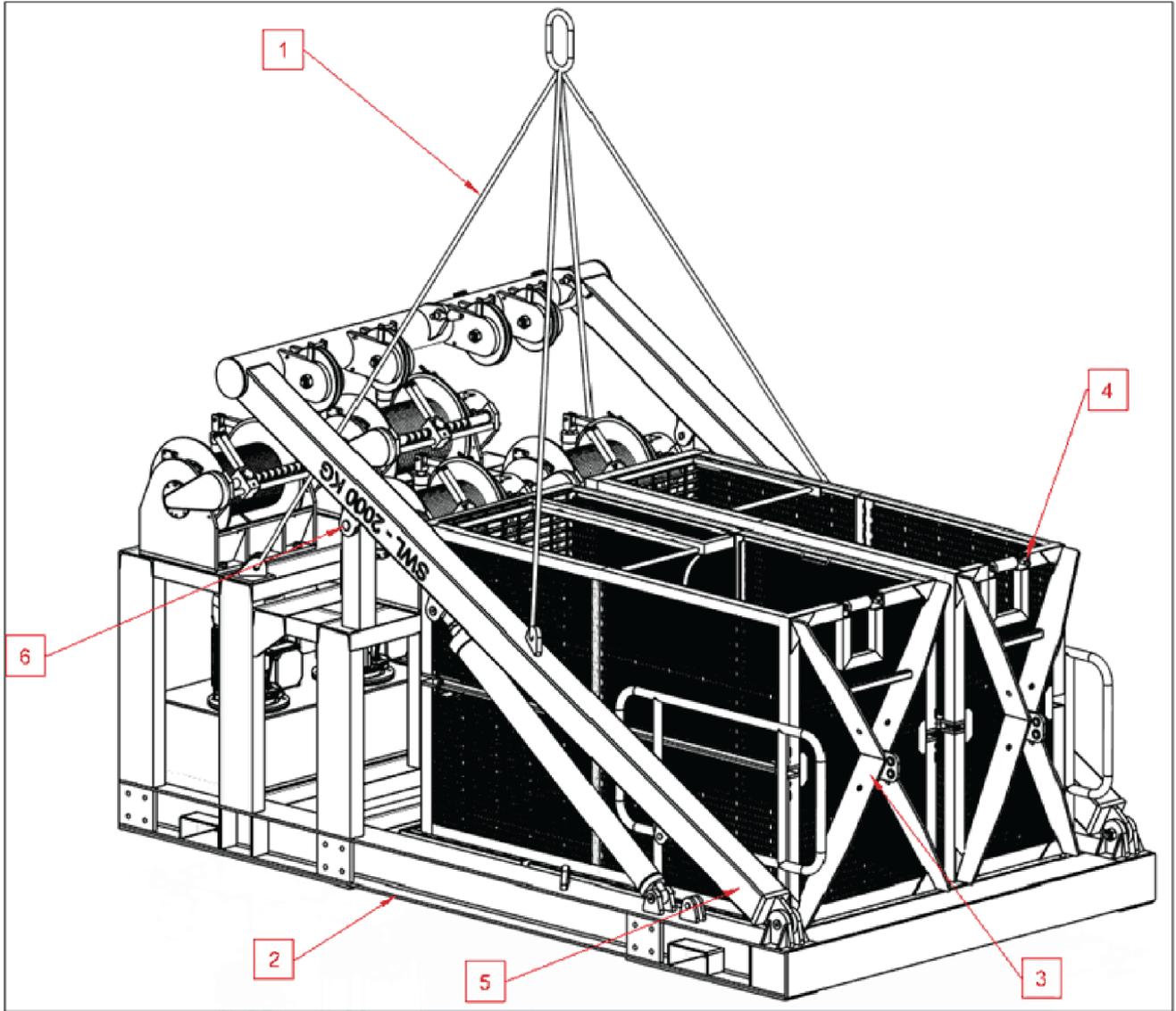
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GA Drawing



1	CUSTOM 4 LEG SLING SET	4	STAND-BY BASKET
2	BASE FRAME	5	A-FRAME
3	MAIN BASKET	6	LIFTING LOCKING PIN



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GA Drawing

SPECIFICATIONS:

1. MAXIMUM OPERATING TEMPERATURE = 50°C
2. MINIMUM OPERATING TEMPERATURE = -15°C
3. OPERATIONAL SEA STATE = SEA STATE 2 (2M SIGNIFICANT WAVE HEIGHT)
4. DYNAMIC LOADING = 1G (LONGITUDINAL), 1G (ATTITUDE), 2G (VERTICAL)
5. EST. SYSTEM MASS OF LABS FOR LIFTING = 6500 KG
6. SWL OF A-FRAME (INCL. GUIDE WEIGHT) = 2000 KG
7. MAIN CAGE EST. MASS (EMPTY MAX) = 400 KG
8. MAIN CAGE EST. MASS INCL. EQUIPMENT & 2 DIVERS = 950 KG
9. STANDBY CAGE EST. MASS (EMPTY MAX) = 380 KG
10. STANDBY CAGE EST. MASS INCL. DIVER = 650 KG
11. MAIN CAGE CLUMP WEIGHT MASS = 200 KG (MAX)
12. STANDBY CAGE CLUMP WEIGHT MASS = 150 KG (MAX)
13. MAIN CAGE WINCH RATED LOAD = 1000 KG
14. MAIN CAGE GUIDE-WIRE WINCH RATED LOAD = 700 KG
15. STANDBY CAGE WINCH RATED LOAD = 700 KG
16. STANDBY CAGE GUIDE-WIRE WINCH RATED LOAD = 400 KG

CASE A: (NORMAL OPERATIONS)

- MAIN DIVE CAGE CARRIES = 950 KG
- STANDBY DIVE CAGE CARRIES = 650 KG
- 1/2 MAIN GUIDE WIRE WINCH AS DOUBLE REEVED EACH CARRY = 100 KG
- 1/2 STANDBY GUIDE WIRE WINCH AS DOUBLE REEVED EACH CARRY = 75 KG

CASE B: (EMERGENCY OPERATIONS)

- MAIN GUIDE WIRE WINCH AS DOUBLE REEVED CARRY 1100 = 575 KG
- STANDBY GUIDE WIRE WINCH AS DOUBLE REEVED CARRY 800 = 400 KG

ITEM QTY	PART NAME	MATERIAL / REMARK
1	1	BASE FRAME
2	1	A FRAME
3	1	MAIN BASKET
4	1	STAND BY BASKET
5	2	HYDRAULIC CYLINDER
6	1	MAIN BASKET WIRE ROPE
7	1	STANDBY BASKET WIRE ROPE
8	1	MAIN GUIDE WIRE WINCH
9	1	STAND BY GUIDE WIRE WINCH
10	1	STANDBY GUIDE WIRE WINCH
11	1	MAIN GUIDE WIRE WINCH
12	1	STANDBY GUIDE WIRE WINCH
13	1	MAIN GUIDE WIRE WINCH
14	4	MAIN GUIDE WEIGHT
15	4	STANDBY GUIDE WEIGHT
16	1	HYDRAULIC POWERPACK
17	6	MOUNTING BRACKETS
18	24	HEX BOLT M20
19	24	HEX BOLT M16
20	2	A FRAME PIN
21	2	HYDRAULIC CYLINDER PIN
22	2	STAND BY HYDRAULIC CYLINDER PIN
23	24	HEX BOLT M20
24	24	HEX BOLT M16

DETAIL A (1:5)



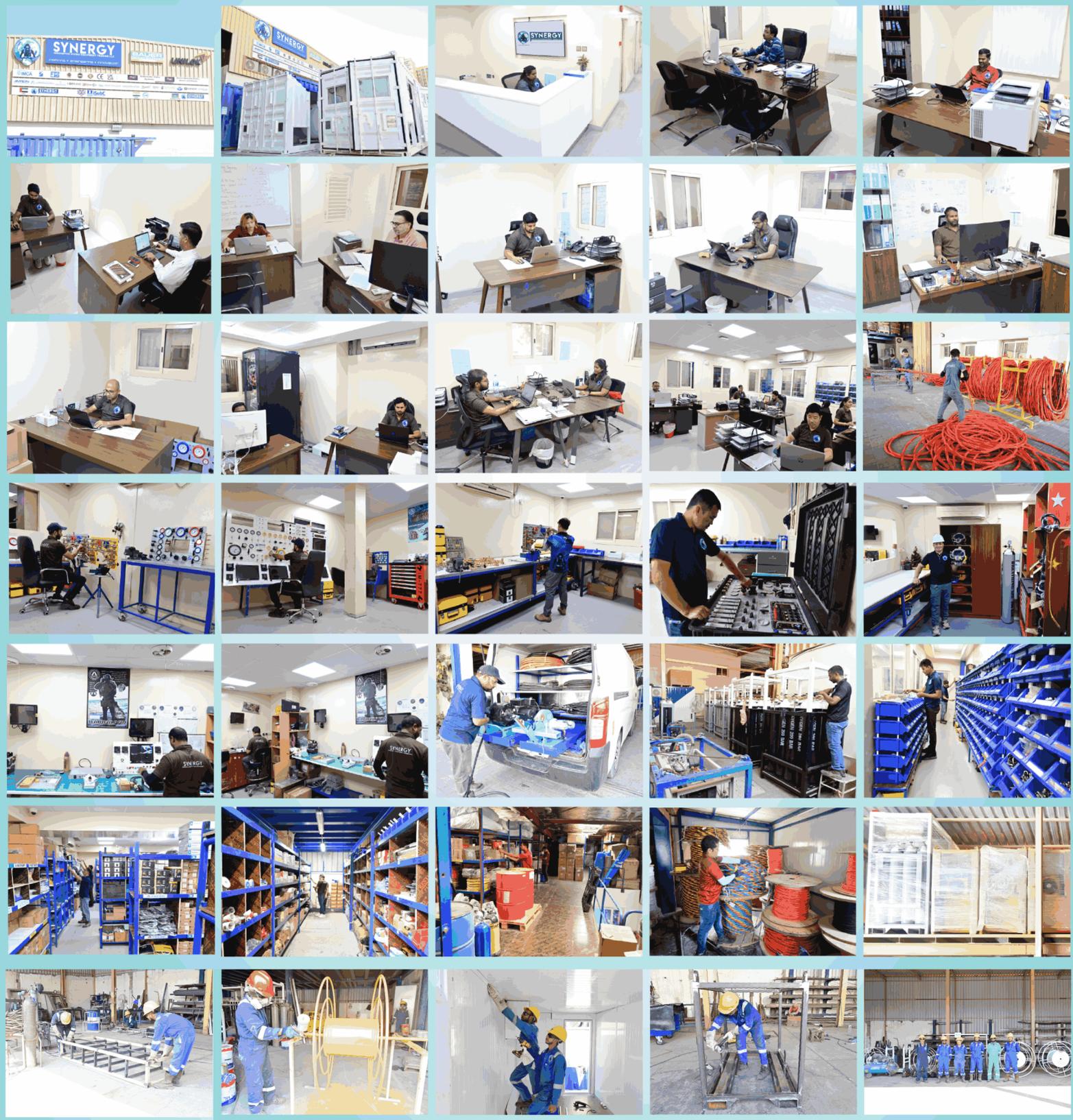
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