The Monobuoy Co. Ltd,
United Kingdom

Monobuoy SARL
Monaco

Introducing
THE MONOBUOY COMPANY



The Monobuoy Co. Ltd,
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03 CONCLUSION



About Us

"MONOBUOY"

- *Set up in* 1998 in the UK

Specialists in SPM Terminals.

Core Expertise:

- Design & Engineering
- Manufacture
- Procurement
- After Sales / Spare parts
- Overhauls
- Installations
- Training
- ISO 9001 Accredited

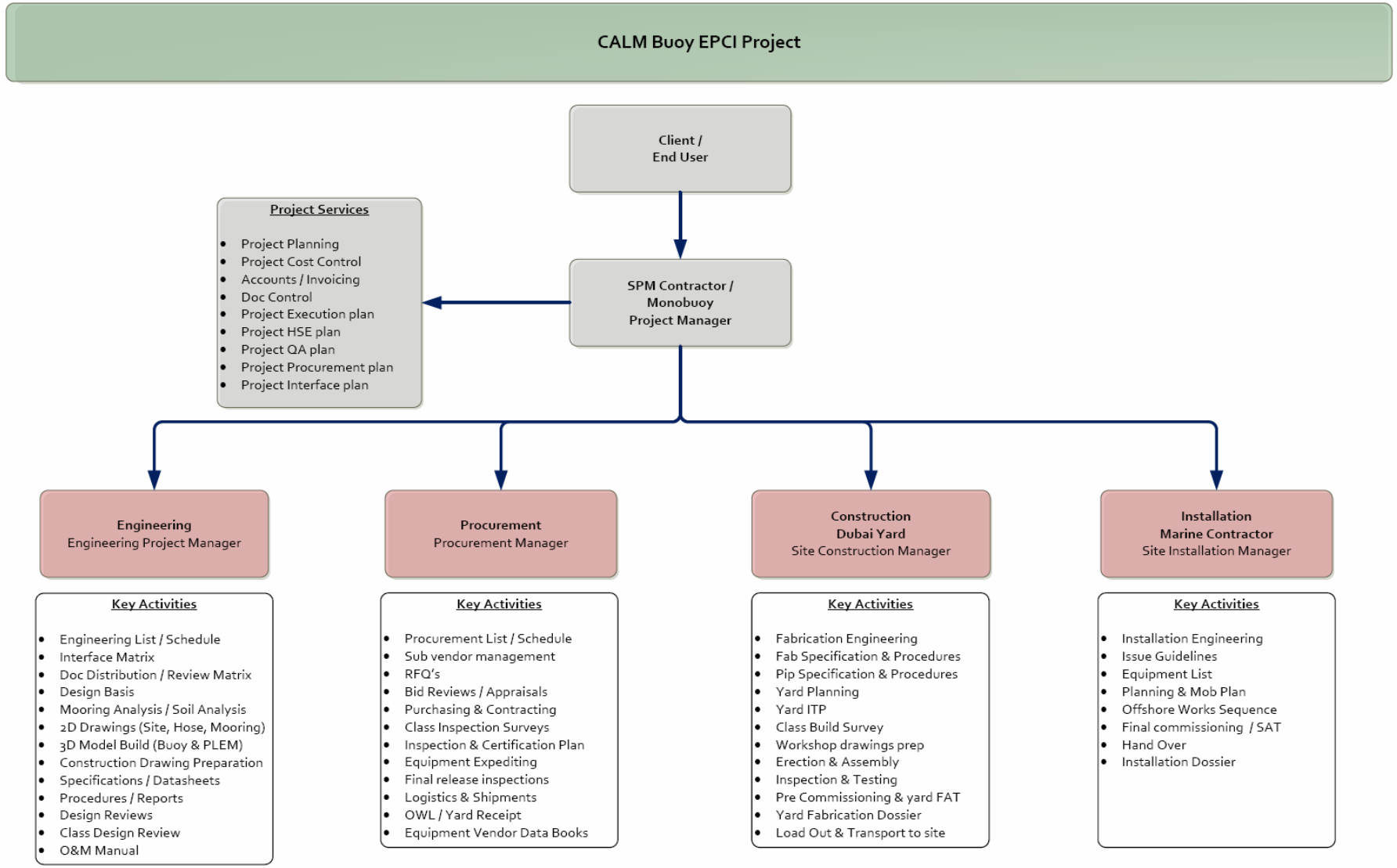


Locations

- United Kingdom – Head Office
- Monaco – Execution Office
- Dubai – Service Centre



Project Organisational Structure



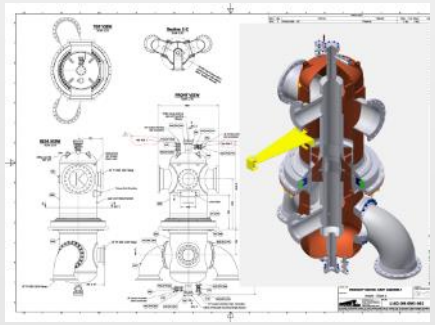
What we do today – a unique service

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Introduction

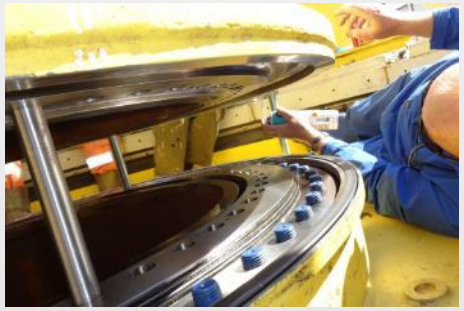
Design & Build New SPM Buoys







Service & Overhaul SPM Terminals







Install & Changeout SPM Terminals







In-Country Training and Personnel Development







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CALM BUOY PROJECTS

CALM Buoys Supplied

Year	Project No.	Client	Location	Type	Classification Society	Tanker size DWT	Chains legs	Hoses	Details
2012	1144	Waha Oil	Libya	Turntable	ABS	320,000	8 x 102 mm	2 x 24"	Incl. installation
2012	1144	Waha Oil	Libya	Turntable	ABS	320,000	8 x 102 mm	2 x 24"	Incl. installation
2013	1159	Detech	Cyprus	Turntable*	DNV	300,000	8 x 76 mm	2 x 24"	
2014	1166	Shell	Nigeria	Turntable*	n/a	300,000	8 x 95 mm	2 x 24"	
2014	1179	Perenco	Gabon	Turntable*	n/a	326,000	6 x 89 mm	2 x 20"	
2015	1182	PDO	Oman	Turntable	DNV	350,000	8 x 76 mm	2 x 20"	
2015	1182	PDO	Oman	Turntable	DNV	550,000	6 x 102 mm	2 x 20"	
2015	1182	PDO	Oman	Turntable	DNN	Spare	Spare	Spare	
2016	1190	GALP	Portugal	Turntable*	BV	300,000	12 x 178 mm	2 x 24 "	Incl. installation
2017	1199	Shell	Oman	Turntable	DNVGL	100,000	8 x 76 mm	2 x 8"	Incl. installation
2017	1197	IOCL	India	Turntable	DNVGL	320,000	6 x 95 mm	2 x 20"	
2018	1200	Irving Oil	Canada	Turret	DNVGL	440,000	8 x 92 mm	1 x 24"	
2019	1205	Sirte Oil	Libya	Turntable	DNVGL	400,000	6 x 102 mm	2 x 20"	Incl. installation
2019	1206	Ocensa	Colombia	Turret	ABS	400,000	6 x 102 mm	3 x 20"	Incl. PLEM

Note: Dates in Brackets () indicate project in progress. * indicates that the buoy was a refurbished buoy

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Recent Significant CALMs

CALM Buoys Supplied

Year	Project No.	Client	Location	Type	Classification Society	Tanker size DWT	Chains legs	Hoses	Details
2021	1217	Chevron	Angola	Turntable	ABS	325,000	6 x 98.5 mm	2 x 20"	Incl. new umbilical
2021	1214	Saudi Aramco	KSA	Turntable	DNV	525,000	6 x 111 mm	2 x 24"	
2022	1214	Saudi Aramco	KSA	Turntable	DNV	525,000	6 x 111mm	2 x 24"	
2022	1214	Saudi Aramco	KSA	Turntable	DNV	525,000	6 x 111mm	2 x 24"	
2022	1214	Saudi Aramco	KSA	Turntable	DNV	525,000	8 x 95 mm	2 x 24"	
2022	1215	EAC	Cyprus	Turntable	DNV	80,000	6 x 70 mm	2 x 16"	Incl. new umbilical, PLEM actuators and SPM installation
2022	1216	IOCL	India	Turntable	DNV	320,000	6 x 95 mm	2 x 24"	Incl. 2 x PLEMs, Hoses, Chains and Piles
2024	1223/1214E	NPCC/ Saudi Aramco	KSA	Turntable	DNV	525,000	6 x 95 mm	2 x 24"	Incl. Hoses, Chains and Piles
2024	1226	Chevron	Angola	Turntable	ABS	325,000	6 x 98.5 mm	2 x 20"	Incl. new umbilical
(2025)	1229	CCCC	Oman	Turntable	DNV	45,000	6 x 76 mm	2 x 12"	Incl. PLEM, Hoses, umbilical, Chains and Piles

Note: Dates in Brackets () indicate project in progress. * indicates that the buoy was a refurbished buoy

New Built CALM Buoy Newbuild Design Conditions

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Recent Significant CALMs

Year	Project	Client	Location	Water depth m	Maximum Operating Conditions			Survival Conditions		
					Waves	Wind	Current	Waves	Wind	Current
2012	1144	Waha Oil	Libya	26	H_{max} = 5 m T_p = 8 to 15 s	15 m/s	0.75 m/s	H_{max} = 8 m T_p = 10 s	30 m/s	1.5 m/s
2012	1144	Waha Oil	Libya	31						
2015	1182	PDO	Oman	34	H_{max} = 5 m T_p = 8 to 15 s	15 m/s	0.75 m/s	H_{max} = 8 m T_p = 10 s	30 m/s	1.5 m/s
2015	1182	PDO	Oman	43						
2015	1182	PDO	Oman	Spare						
2017	1199	Shell	Oman	20	H_{max} = 5 m T_p = 8 to 15 s	15 m/s	0.75 m/s	H_{max} = 8 m T_p = 10 s	30 m/s	1.5 m/s
2017	1197	IOCL	India	32.5	H_{max} = 2.7 m T_p = 7 s	28 m/s	1.33 m/s	H_{max} = 6 m Tp = 9 s	50 m/s	2.3 m/s
2018	1200	Irving Oil	Canada	43.4	H_{max} = 3 m T_p = 9 s	11.8 m/s	0.5 m/s	H_{max} = 6.4 m T_p = 13.5 s	28.8 m/s	1 m/s
2019	1205	Sirte Oil	Libya	40.9	H_{max} = 5 m T_p = 8 to 15 s	15 m/s	0.75 m/s	H_{max} = 8 m T_p = 10 s	30 m/s	1.5 m/s
2019	1206	Ocensa	Colombia	29.1	H_{max} = 1.8 m T_p = 5 to 11 s	26.7 m/s	0.6 m/s	H_{max} = 2.6 m T_p = 8 to 11 s	28.3 m/s	0.6 m/s

Note: Dates in Brackets () indicate project in progress.

New Built CALM Buoy Newbuild Design Conditions

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Recent Significant CALMs

Year	Project	Client	Location	Water depth m	Maximum Operating Conditions			Survival Conditions		
					Waves	Wind	Current	Waves	Wind	Current
2021	1217	Chevron	Angola	36.1	H_{max} = 5.5 m T_p =12 to 17s	15 m/s	0.8 m/s	H_{max} = 6.8 m T_p =14 - 17 s	17 m/s	0.8 m/s
2021	1214-31	Saudi Aramco	KSA	35.4	H_{max} = 4.4 m T_p = 6.3 s	16.9 m/s	0.5 m/s	H_{max} = 8.1 m T_p = 7.8 s	25.6 m/s	0.7 m/s
2022	1214-32	Saudi Aramco	KSA	36.2						
2022	1214-33	Saudi Aramco	KSA	38.5						
2021	1214-36	Saudi Aramco	KSA	39.0						
2022	1215	EAC	Cyprus	33.0	H_{max} = 6.3 m T_p = 7.4 s	20.7 m/s	0.51 m/s	H_{max} = 11.6 m T_p = 11.3 s	33.8 m/s	0.41 m/s
2022	1216	IOCL	India	37.9	H_{max} = 5.4 m T_p = 6.8 s	13.8 m/s	1.25 m/s	H_{max} = 13.6 m T_p = 10.8 s	56.9 m/s	1.25 m/s
2024	1223/ 1214E-37	NPCC/ Saudi Aramco	KSA	41.2	H_{max} = 4.5 m T_p = 6.7 s	17.0 m/s	0.4 m/s	H_{max} = 8.2m T_p = 7.9 s	25.5 m/s	0.6 m/s
2025	1226	Chevron	Angola	31.8	H_{max} = 5.5 m T_p =12 to 17s	15 m/s	0.8 m/s	H_{max} = 6.8 m T_p =14 - 17 s	17 m/s	0.8 m/s

Note: Dates in Brackets () indicate project in progress.

New Built CALM Buoy Newbuild Design Conditions

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Year	Project	Client	Location	Water depth m	Maximum Operating Conditions			Survival Conditions		
					Waves	Wind	Current	Waves	Wind	Current
(2025)	1229	CCCC	Oman	39.6	H_{max} = 4.6 m T_p = 7.87 s	12.94 m/s	0.21 m/s	H_{max} = 7.10 m T_p = 10.6 s	19.67 m/s	0.33 m/s

Note: Dates in Brackets () indicate project in progress.

2012 – 2 CALM Buoys NEWBUILD – Waha, Libya

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Recent Significant CALMs

Buoys Details

CALM Buoy:	Turntable Type
Design Life:	25 years
Mooring Force:	400 t
Class Authority:	ABS
Weight:	230 t
Hull Dia:	12 m
Chainlegs:	6 or 8
Cathodic Protection:	10 years
Main Slew bearing:	4 m triple roller
Mooring Bridle:	400 t Dual Hawser
Product Swivel Unit:	Single path Path 1: 2 × 24 inch

Scope of work

- Buoys Newbuild & transport to site
- Offshore Changeout, delayed to 2015 following the civil war

Key Features

- Integrated Rope Guard & Navigation Aids Frame
- Interchangeable symmetrical 6 or 8 chain legs configuration



2013 – CALM Buoy Overhaul – Detech, Cyprus

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Buoy Details

CALM Buoy:	Turntable Type
Hull Dia:	12 m
Chainlegs:	8
Cathodic Protection:	10 years
Main Slew bearing:	4 m triple roller
Mooring Bridle:	400 t Dual Hawser
Product Swivel Unit:	Single path Path 1: 2 × 24 inch

Scope of work

- Client urgent turnaround of 16 weeks
- Drydock & Refurbishment of a stock SBM Buoy
- Replacement of Main and PSU bearings
- New Ratchet Chainstoppers
- New Telemetry System
- New Rope Guard Design
- Transport to site



2014 – CALM Buoy Overhaul – Shell, Nigeria

Buoy Details

CALM Buoy:	Turntable Type
Hull Dia:	11.4 m
Chainlegs:	8
Cathodic Protection:	10 years
Main Slew bearing:	4 m triple roller
Mooring Bridle:	250 t Double Hawser
Product Swivel Unit:	Dual paths Path 1: 2 × 24 inch Path 2: 16 inch

Scope of work

- Drydock & Refurbishment of a Getip Buoy
- New Main Bearing arrangement
- New Boat landing platform design
- Transport to site



2014 – CALM Buoy Overhaul – Perenco, Gabon

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Recent Significant CALMs

Buoy Details

CALM Buoy:	Turntable Type
Hull Dia:	11 m
Chainlegs:	8
Cathodic Protection:	10 years
Main Slew bearing:	4 m triple roller
Mooring Bridle:	250 t Single Hawser
Product Swivel Unit:	Dual paths Path 1: 2 × 20 inch Path 2: 12 inch

Scope of work

- Drydock & Refurbishment of a stock used Buoy
- PSU seals replacement
- Full blast & repainting
- Piping valves & Expansion Joints replacement
- Replacement of overboard piping due to fatigue cracks
- Preparation for Heavy Lift Transport







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2015 – 3 CALM Buoys NEWBUILD – PDO, Oman

Buoys Details

CALM Buoy:	Turntable Type
Design Life:	25 years
Mooring Force:	400 t
Class Authority:	DNV GL
Weight:	275 t
Hull Dia:	12 m
Chainlegs:	6 or 8
Cathodic Protection:	10 years
Main Slew bearing:	4 m triple roller
Mooring Bridle:	400 t Dual Hawser
Product Swivel Unit:	Dual paths Path 1: 2 × 24 inch Path 2: 16 inch

Scope of work

- Buoys Newbuild & transport to site
- Offshore Changeout Supervision

Key Features

- Double Hull + Extra Fendering
- Thermal Spray Aluminium Corrosion Protection
- Interchangeable symmetrical 6 or 8 chain legs configuration
- Telemetry



2016 – CALM Buoy Overhaul & Changeout – GALP, Portugal

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Recent Significant CALMs

Buoy Details

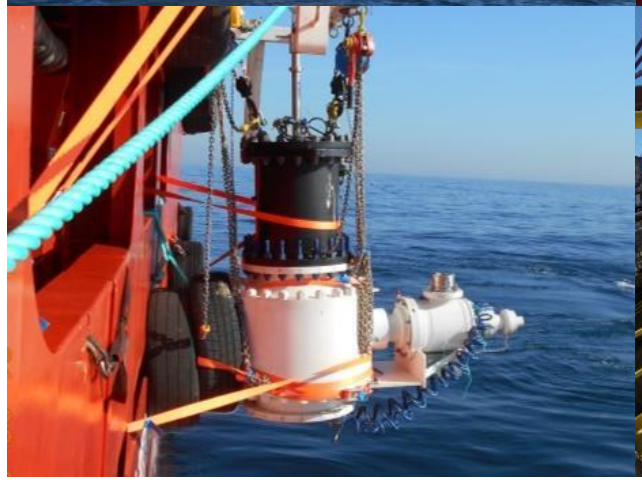
CALM Buoy:	Turntable Type
Hull Dia:	12 m
Chainlegs:	12
Cathodic Protection:	10 years
Main Slew bearing:	4 m triple roller
Mooring Bridle:	400 t Dual Hawser
Product Swivel Unit:	Single path Path 1: 2 × 24 inch

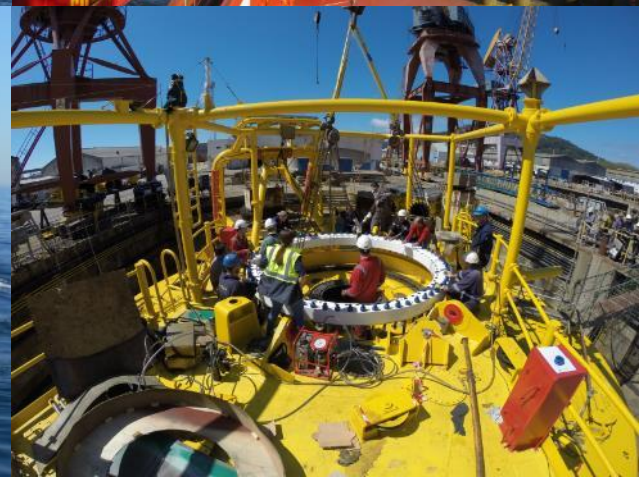
Scope of work

- Client urgent turnaround of 19 weeks
- Drydock & Refurbishment of an SBM Buoy
- Replacement of Main and PSU bearings
- New Overboard Pipe Swivels
- New Telemetry System
- Offshore Changeout
- Replacement of 5 x 178 mm chain legs
- Replacement of subsea PLEM valves and hydraulic actuators









2017 – CALM Buoy NEWBUILD & Changeout – Shell, Oman

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Recent Significant CALMs

Buoy Details

CALM Buoy:	Turntable Type
Design Life:	25 years
Mooring Force:	400 t
Class Authority:	DNV GL
Weight:	250 t
Hull Dia:	12 m
Chainlegs:	8
Cathodic Protection:	10 years
Main Slew bearing:	4 m triple roller
Mooring Bridle:	400 t Dual Hawser
Product Swivel Unit:	3 individual paths
	Path 1: 12 inch
	Path 2: 12 inch
	Path 3: 12 inch

Scope of Work

- Buoy Newbuild & Transport to site
- Offshore Changeout

Key Features

- Double Hull + Extra Fendering
- Thermal Spray Aluminium Corrosion Protection
- Telemetry



2017 – CALM Buoy NEWBUILD – IOCL, India

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Recent Significant CALMs

Buoy Details

CALM Buoy:	Turntable Type
Design Life:	30 years
Mooring Force:	400 t
Class Authority:	DNV GL
Weight:	250 t
Hull Dia:	12 m
Chainlegs:	6
Cathodic Protection:	10 years
Main Slew bearing:	4 m triple roller
Mooring Bridle:	400 t Dual Hawser
Product Swivel Unit:	Single path Path 1: 2 × 24 inch

Scope of Work

- Site Mooring Analysis & hose configuration
- Buoy Newbuild & Transport to site
- Submarine Hose System (GMPHOM 2009)
- Umbilical System
- Offshore Changeout Supervision

Key Features

- Double Hull
- On board HPU
- Remotely actuated PLEM valves
- Telemetry



2018 – CALM Buoy NEWBUILD (Turret) – Irving, Canada

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Buoy Details

Video Teaser Click Here

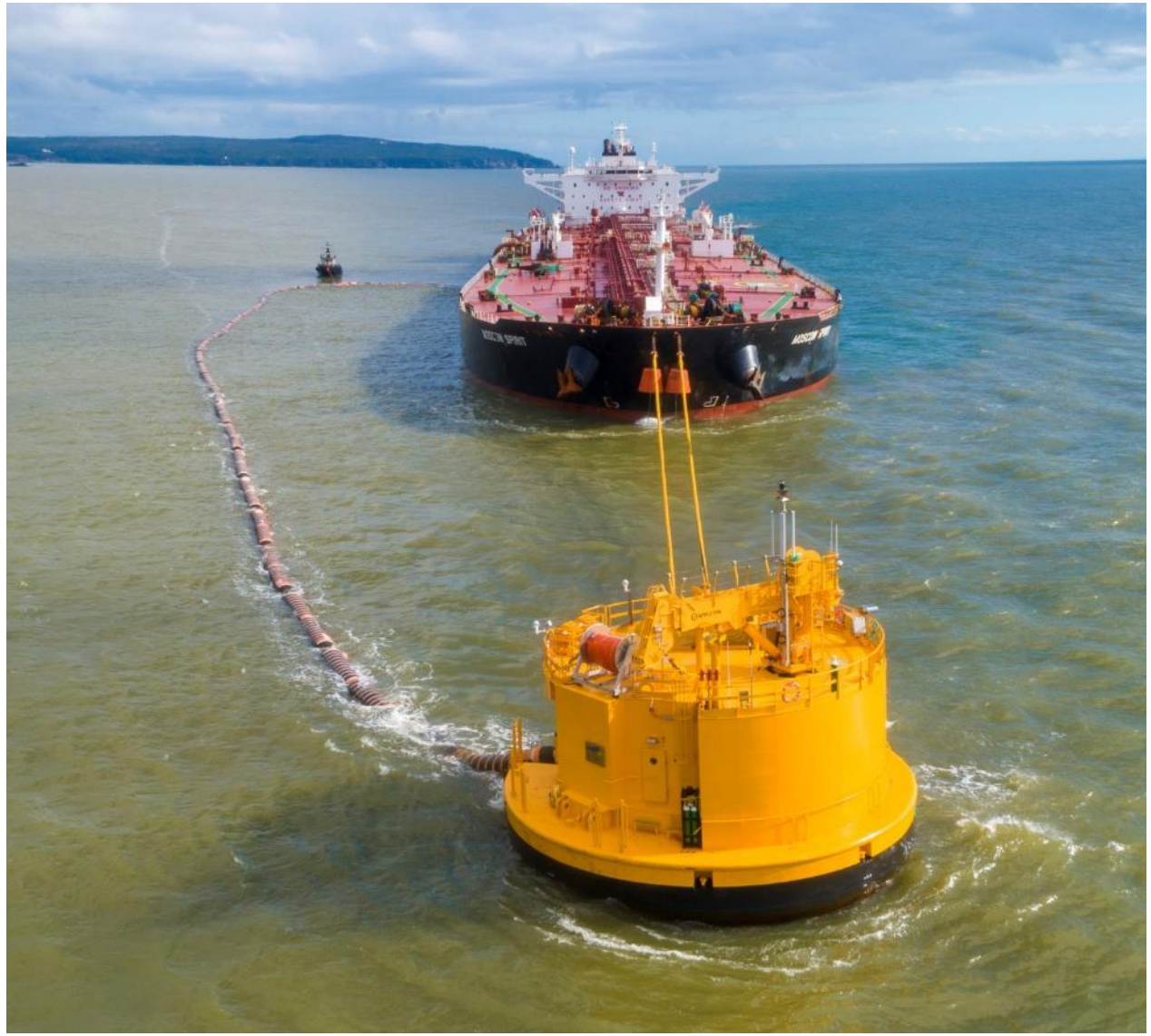
CALM Buoy:	Turret Type
Design Life:	30 years
Mooring Force:	400 t
Class Authority:	DNV GL
Weight:	455 t
Hull Dia:	15 m
Chainlegs:	8
Cathodic Protection:	10 years
Main Slew bearing:	5 m triple roller
Mooring hooks:	250 t Dual Hawser
Product Swivel Unit:	Single path 24 inch

Scope of Work

- Site Mooring Analysis & hose configuration
- Buoy Newbuild & transport to site
- Offshore Changeout Supervision

Key Features

- LARS System (Centrewell diving)
- 70 t.m Crane
- Hawser Reelers (Recovery & Storage)
- Anti-Icing System (Arctic Conditions)
- Onboard Flushing System (back to shore)
- Thermal Spray Aluminium Corrosion Protection
- Dry hose connections
- Hull rotation drive



2019 – CALM Buoy NEWBUILD (Turntable) – Sirte Oil, Libya

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Recent Significant CALMs

Buoy Details

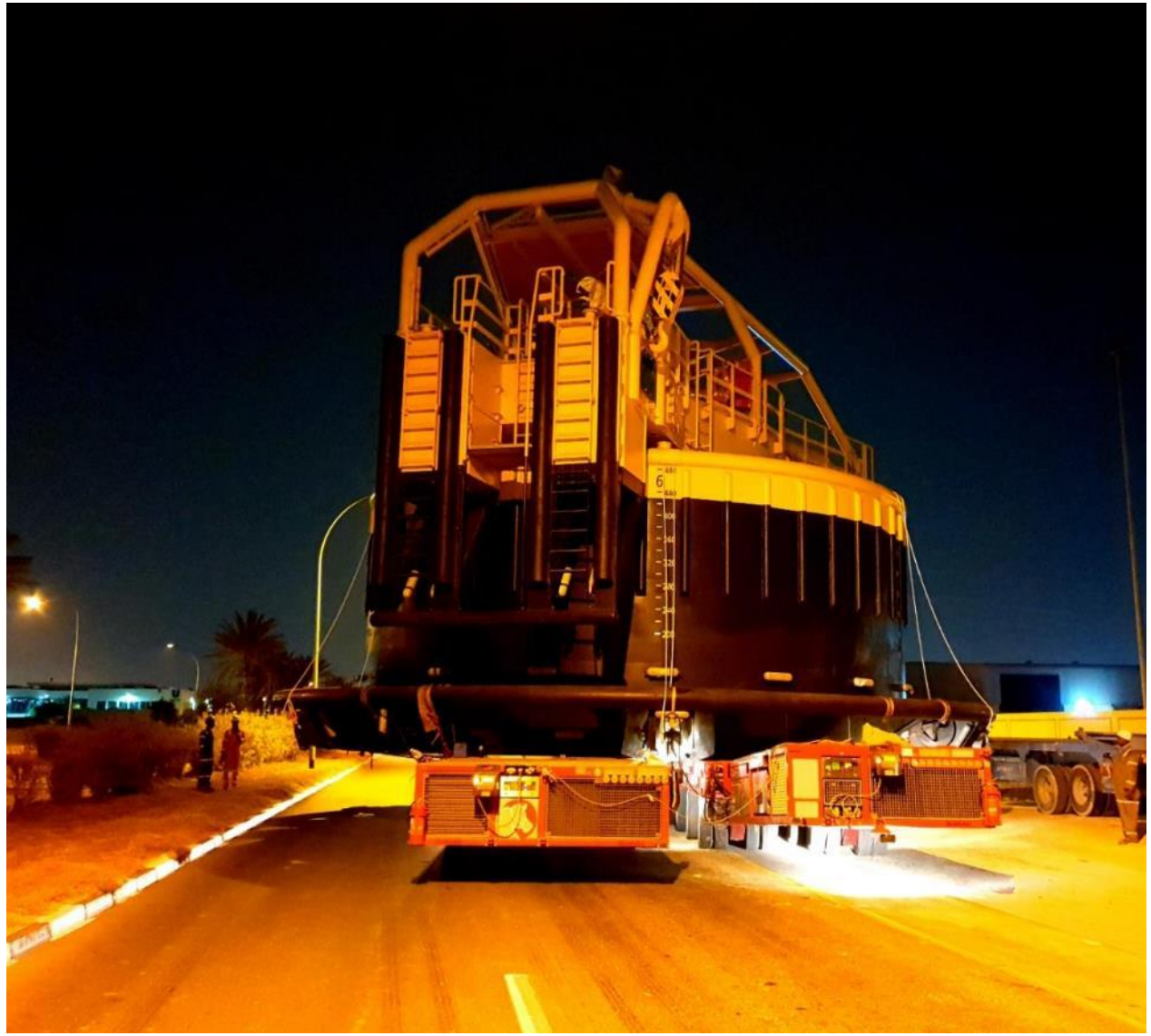
CALM Buoy:	Turret Type
Design Life:	30 years
Mooring Force:	400 t
Class Authority:	DNV GL
Weight:	250 t
Hull Dia:	12 m
Chainlegs:	6
Cathodic Protection:	10 years
Main Slew bearing:	3m triple roller
Mooring Bridle:	400 t Dual Hawser
Product Swivel Unit:	Dual paths Path 1: 24 inch Path 2: 24 inch

Scope of Work

- Full design & engineering of system
- Buoy Newbuild & transport to site
- Offshore Installation Campaign

Key Features

- Dual Product Swivel Unit
- PSU Leak tank alarm
- Triple Eccentric Butterfly Valves



2019 – CALM Buoy & PLEM NEWBUILD (Turret) – Ocensa, Colombia

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Recent Significant CALMs

Buoy Details

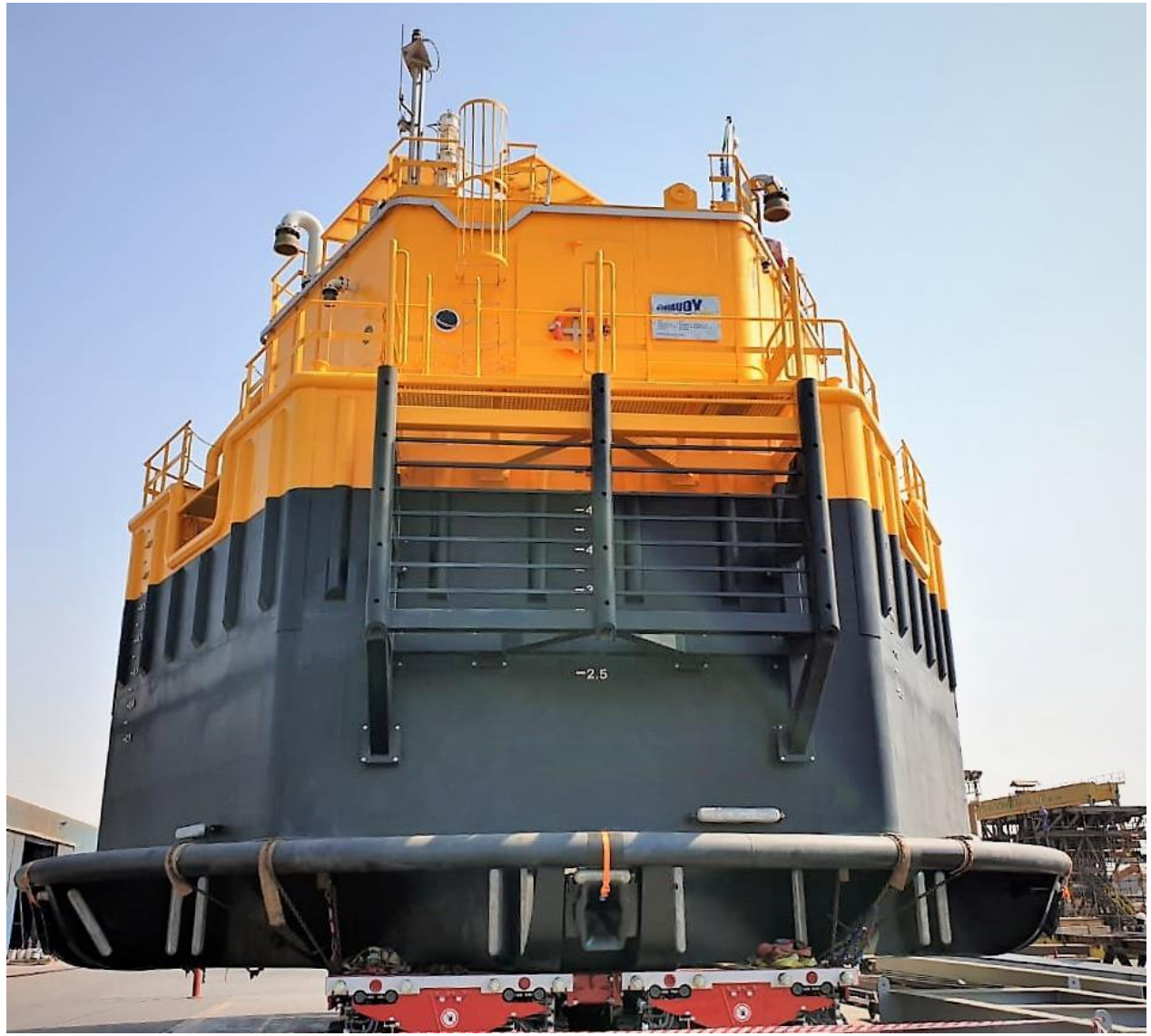
CALM Buoy:	Turret Type
Design Life:	30 years
Mooring Force:	400 t
Class Authority:	ABS
Weight:	300 t
Hull Dia:	12 m
Chainlegs:	6
Cathodic Protection:	10 years
Main Slew bearing:	3m triple roller
Mooring Unijoint	200 t Dual Hawser
Product Swivel Unit:	Single path 20 inch

Scope of Work

- Full design & engineering of system
- Buoy Newbuild & transport to site
- Offshore Changeout Supervision

Key Features

- Dedicated Electrical Room
- Fully Integrated Product/Hydraulic/Electrical Swivel
- Fibre Optic Patch Panel for shore comms link
- Fully Automated Valve Control System
- Surge Protection System



2021 – 4 CALM Buoys NEWBUILD (Turntable) – Saudi Aramco, KSA

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Recent Significant CALMs

Buoy Details

CALM Buoy:	Turntable Type
Design Life:	25 years
Mooring Force:	400 t
Class Authority:	DNV
Weight:	336 t
Hull Dia:	12 m
Chainlegs:	6 or 8
Cathodic Protection:	10 years
Main Slew bearing:	4 m triple roller
Mooring Bridle:	400 t Dual Hawser
Product Swivel Unit:	2 individual paths Path 1: 30 inch Path 2: 16 inch

Scope of Work

- Full design & engineering of system
- Buoy Newbuild
- Offshore Changeout Supervision

Key Features

- Flow meters
- Can be retrofitted with an electric/hydraulic slip ring
- Dual Product Swivel Unit
- PSU Leak tank alarm
- Triple Eccentric Butterfly Valves
- Telemetry via UHF
- CCTV via 5.8 GHz Mesh Network



2021 – CALM Buoy NEWBUILD (Turntable) – Chevron, Angola

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Recent Significant CALMs

Buoy Details

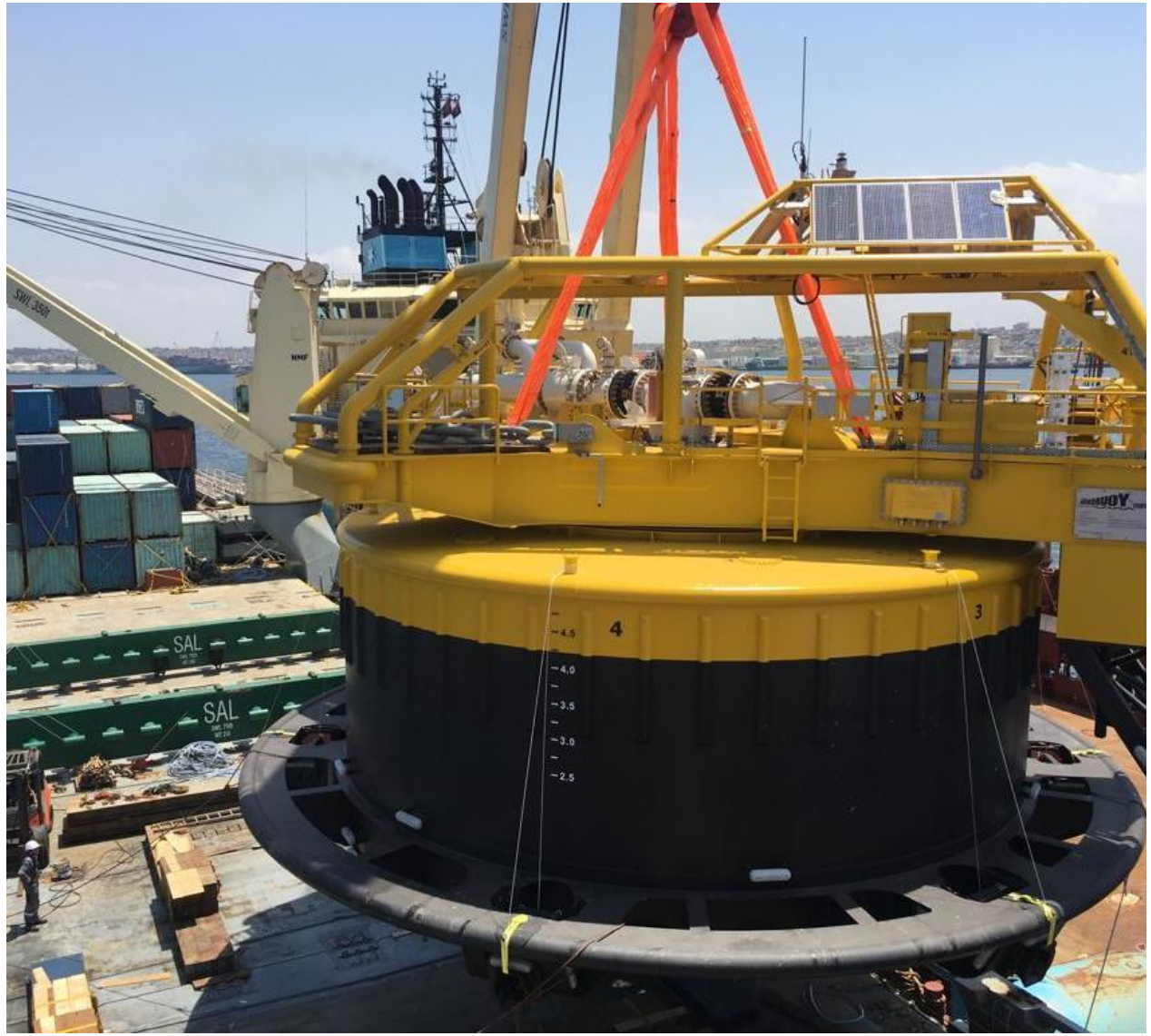
CALM Buoy:	Turntable Type
Design Life:	25 years
Mooring Force:	400 t
Class Authority:	ABS
Weight:	284 t
Hull Dia:	12 m
Chainlegs:	6
Cathodic Protection:	10 years
Main Slew bearing:	4 m triple roller
Mooring Bridle:	400 t Dual Hawser
Product Swivel Unit:	Single path Path 1: 2 × 24 inch

Scope of Work

- Full design & engineering of system
- Buoy Newbuild
- Offshore Changeout Supervision

Key Features

- Hydraulic operation of the centrewell valves
- Can be retrofitted with an electric/hydraulic slip ring
- PSU Leak tank alarm
- V-shaped boat landing platform
- 10 t pneumatic winch



2022 – CALM Buoy (Turntable) + 2 PLEMs NEWBUILD – IOCL, India

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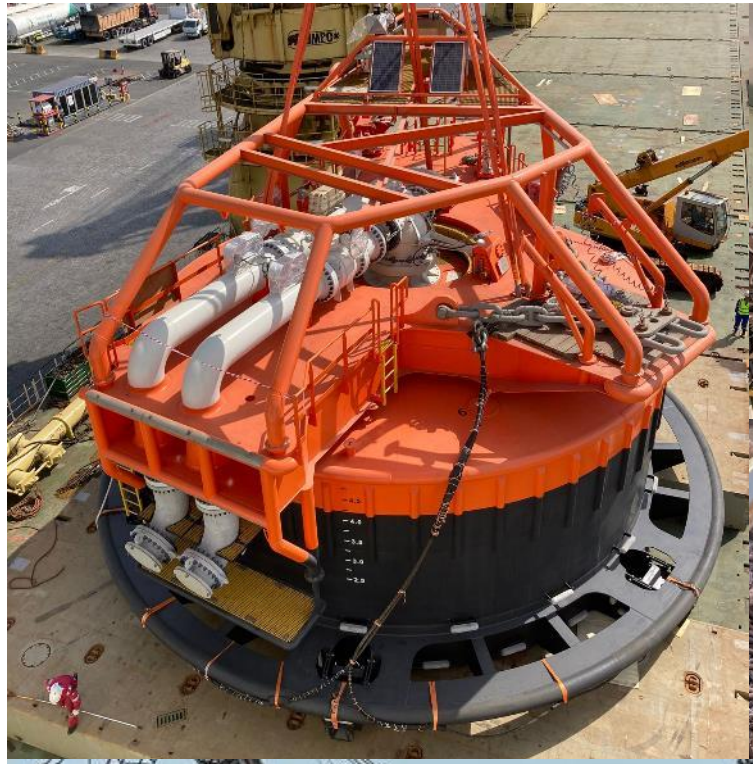
Recent Significant CALMs

Buoy Details

CALM Buoy:	Turntable Type
Design Life:	30 years
Mooring Force:	400 t
Class Authority:	DNV
Weight:	290 t
Hull Dia:	12 m
Chainlegs:	6
Cathodic Protection:	10 years
Main Slew bearing:	4 m triple roller
Mooring Bridle:	400 t Dual Hawser
Product Swivel Unit:	Single path Path 1: 2 × 24 inch

Scope of Work

- Site Mooring Analysis & hose configuration
- Buoy, 2 off PLEMs, piles (for buoy and PLEM) Newbuild & Transport to site
- Floating & Submarine Hose Systems (GMPHOM 2009) for 2 berths
- Anchoring chains for 2 off berths
- Umbilical System for 2 off berths
- Mooring hawsers for 2 off berths
- Offshore new installation / changeout Supervision









2022 – CALM Buoy NEWBUILD (Turntable) – EAC, Cyprus

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Recent Significant CALMs

Buoy Details

CALM Buoy:	Turntable Type
Design Life:	25 years
Mooring Force:	250 t
Class Authority:	DNV
Weight:	216 t
Hull Dia:	11 m
Chainlegs:	6
Cathodic Protection:	10 years
Main Slew bearing:	4 m triple roller
Mooring Bridle:	250 t Single Hawser
Product Swivel Unit:	Dual Path Path 1: 16 inch Path 2: 16 inch

Scope of Work

- Full EPCIC scope + changeout of the PLEM actuators
- Electrical umbilical
- PLEM valve actuators

Key Features

- Hydraulic operation of the centrewell + PLEM valves
- PSU Leak tank alarm
- 6.7 t pneumatic winch



2024 – CALM Buoy NEWBUILD (Turntable) – NPCC/Saudi Aramco, KSA

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Recent Significant CALMs

Buoy Details

CALM Buoy:	Turntable Type
Design Life:	30 years
Mooring Force:	400 t
Class Authority:	DNV
Weight:	336 t
Hull Dia:	12 m
Chainlegs:	6 or 8
Cathodic Protection:	10 years
Main Slew bearing:	4 m triple roller
Mooring Bridle:	400 t Dual Hawser
Product Swivel Unit:	2 individual paths Path 1: 30 inch Path 2: 16 inch

Scope of Work

- Full design & engineering of system
- Buoy Newbuild
- Floating & Submarine Hose Systems (GMPHOM 2009+ SA standard)
- Anchoring chains
- Mooring hawsers
- Offshore installation Supervision

Key Features

- Flow meters
- Can be retrofitted with an electric/hydraulic slip ring
- Triple Eccentric Butterfly Valves
- Telemetry via UHF
- CCTV via 5.8 GHz Mesh Network



2025 – CALM Buoy NEWBUILD (Turntable) – Chevron, Angola

The Monobuoy Co. Ltd,
United Kingdom

Monobuoy SARL
Monaco

Recent Significant CALMs

Buoy Details

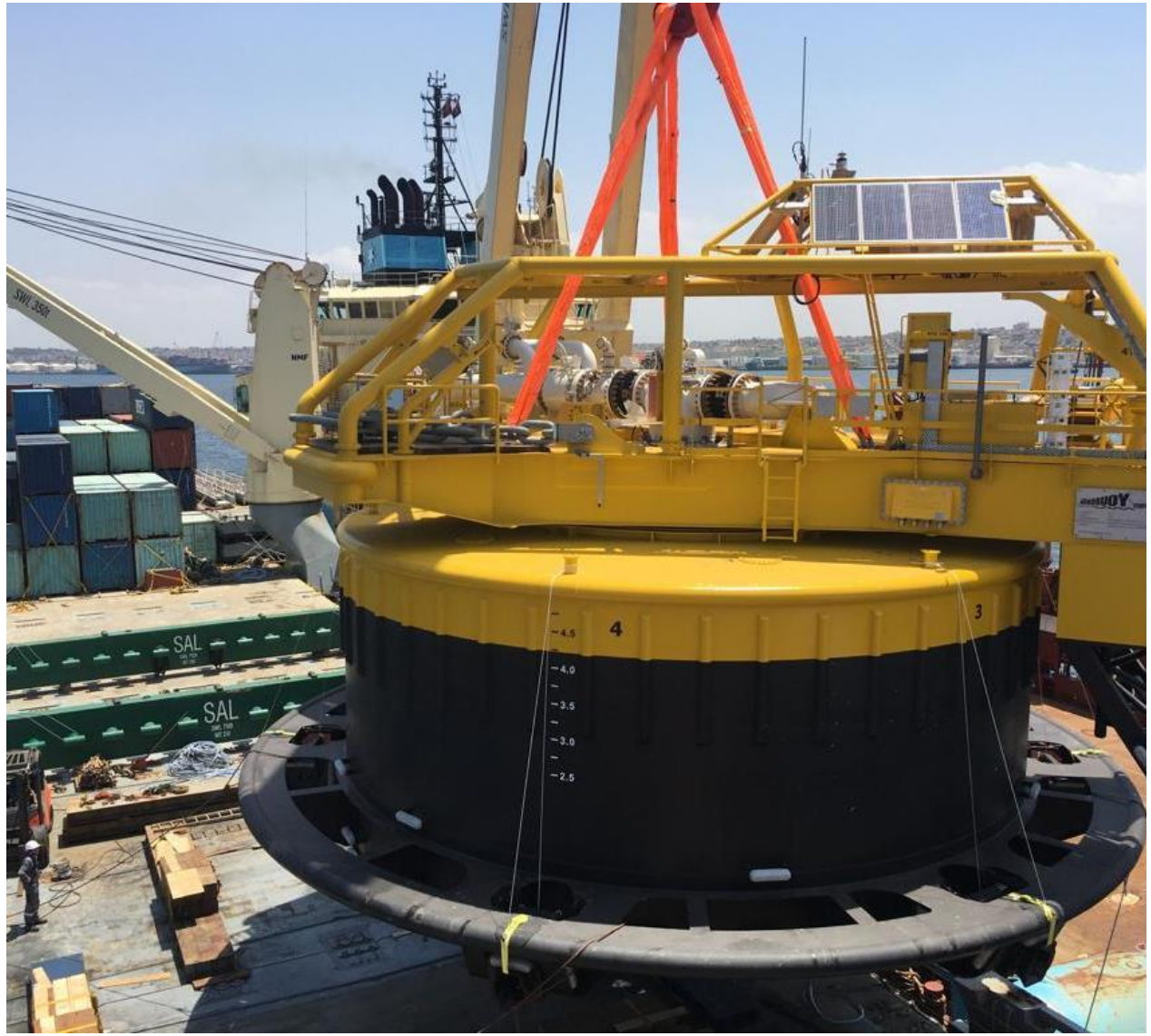
CALM Buoy:	Turntable Type
Design Life:	25 years
Mooring Force:	400 t
Class Authority:	ABS
Weight:	284 t
Hull Dia:	12 m
Chainlegs:	6
Cathodic Protection:	10 years
Main Slew bearing:	4 m triple roller
Mooring Bridle:	400 t Dual Hawser
Product Swivel Unit:	Single path Path 1: 2 × 24 inch

Scope of Work

- Full design & engineering of system
- Buoy Newbuild
- Offshore Changeout Supervision

Key Features

- Hydraulic operation of the centrewell valves
- Can be retrofitted with an electric/hydraulic slip ring
- PSU Leak tank alarm
- V-shaped boat landing platform
- 10 t pneumatic winch



CLOSING REMARKS

Monobuoy has become one of the major buoy suppliers in the last 5 years

Flexible & Reactive from the enquiry phase right to the after sales support

Adaptable project execution method

Monobuoy has become the most innovative buoy manufacturer

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Conclusion