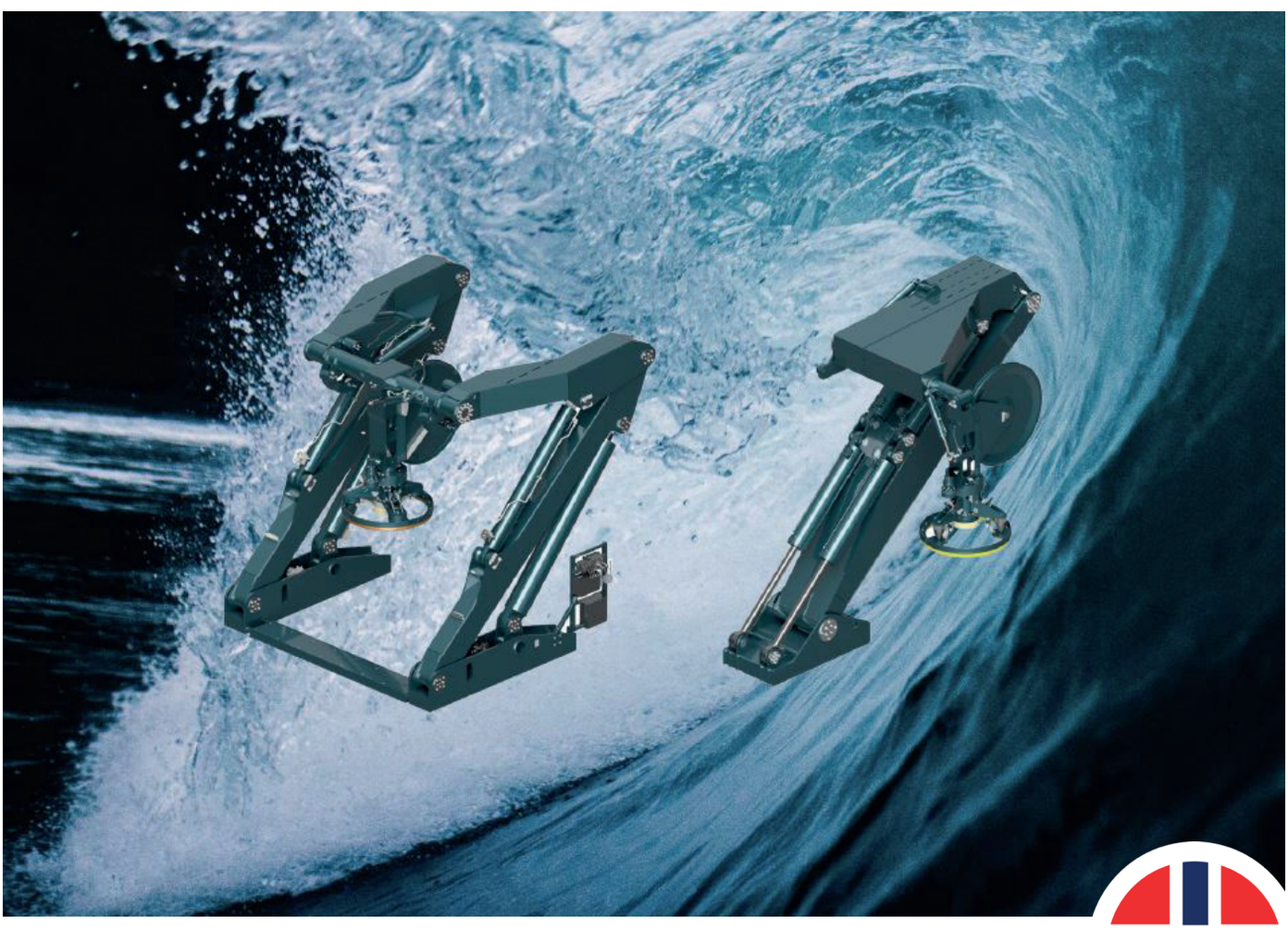
EVOTEC
Designed for efficiency

OFFSHORE - LARS FOR ROV

Evotec`s Launch And Recovery Systems for ROV are the most reliable systems in the industry. Providing you the best AHC (Active Heave Compensation) perfomance ensures a smooth and hazzle free operation, in the most harsh conditions!



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A-Frame

Offshore Vessel

Technical Specification - example

Estimated weight (each)	20 Te
Type of equipment	A-frame for ROV
SWL	20 Te
Design weight of ROV/TMS	12 Te
DAF	1.8
Sheave	Ø1500 mm, for Ø50 mm umbilical
Docking Head	Max in/out 10 deg / 30 deg Max rotation +- 90 deg Max left/right 37 deg / 37 deg
Oil consumption	300 l/min
Hydraulic system	250 bar
Ambient temperature	-20 deg. to +30 deg

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A-Frame, skidding

Offshore Vessel

Technical Specification - example

Estimated weight (each)	30 Te
Type of equipment	A-frame for ROV, skidding
SWL	21 Te
Design weight of ROV/TMS	21 Te
DAF	2
Sheave	Ø1100 mm, for Ø52,6 mm umbilical
Docking Head	Max in/out 10 deg / 30 deg Max rotation +- 90 deg
Oil consumption	300 l/min
Hydraulic system	250 bar
Ambient temperature	-20 deg. to +50 deg

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L-Frame

Offshore Vessel

Technical Specification - example

Estimated weight (each)	10 Te
Type of equipment	L-frame for ROV
SWL, Bullet/Dive	5 Te
Design weight of ROV/TMS	13 Te
DAF	1.8
Sheave	Ø1000 mm, for Ø28 mm umbilical
Docking Head	Longitudinal tilt +-30 deg Max rotation +- 90 deg
Oil consumption	280 l/min
Hydraulic system	250 bar
Ambient temperature	-20 deg. to +30 deg

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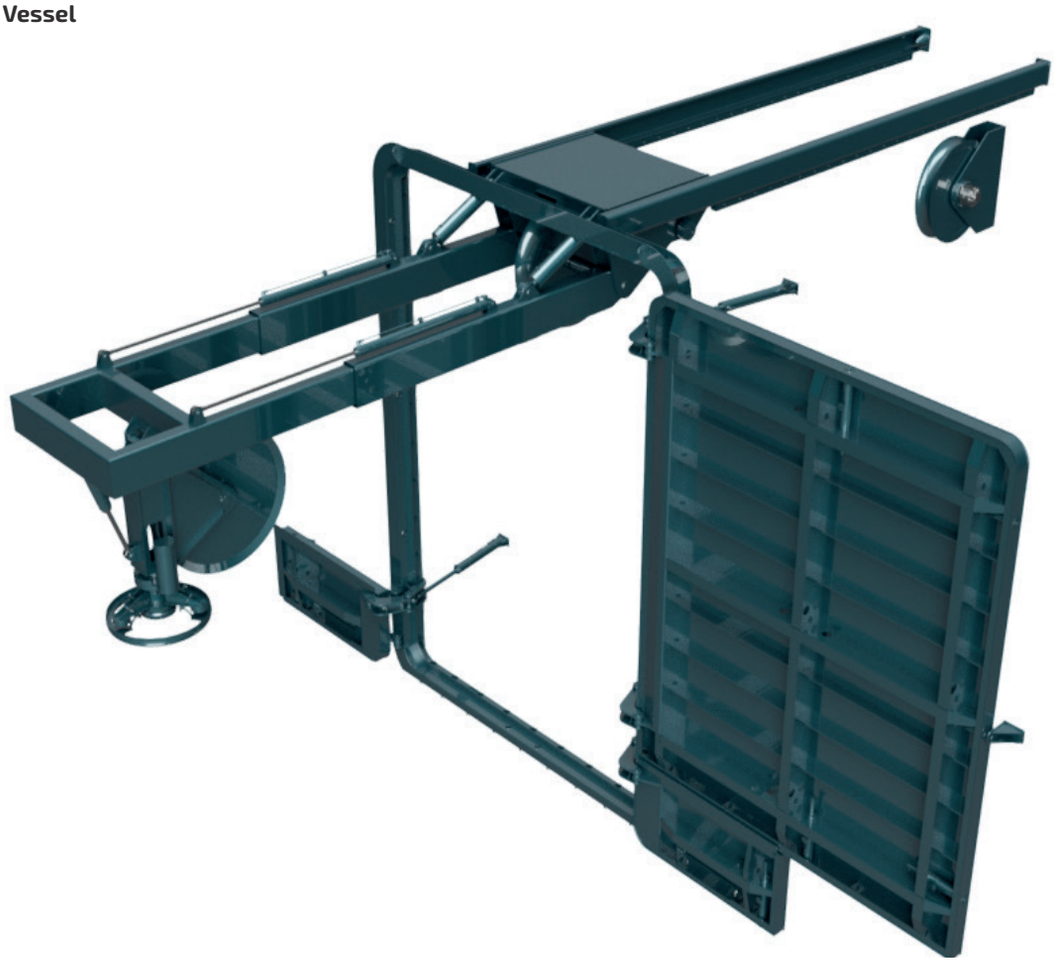
Overhead-Frame

Offshore Vessel



Technical Specification - example

Estimated weight (each)	8 Te
Type of equipment	Roof mounted LARS
SWL	8 Te
DAF	13 Te
Transvers travel	8000 mm
Outreach	4500 mm
Downreach	6800 mm from roof to ROV interface ring
Docking head rotation	180 deg

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Telescope-Frame

Offshore Vessel

Technical Specification - example

Design	Mobile LARS on skid - SWL 4 Te, 6 Te and 10 Te
Designed for	ROV+TMS or Free Flying ROV
System	Complete modular system including umibilical winch, HPU, A-frame and docking head
Prepared for	Single point lifting and easy istallation / transportation
	Can be delivered with or without telesopic beam

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E-Door

Offshore Vessel

Technical Specification - example

Estimated weight (each)	31 Te
Type of equipment	E-door for ROV
SWL	20 Te
Design weight of ROV/TMS	12 Te
DAF	1.8
Sheave	Ø1500 mm, for Ø50 mm umbilical
Docking Head	Max in/out 10/30 deg Max rotation 90 deg Max left/right 45/45 deg
Oil consumption	280 l/min
Hydraulic system	250 bar
Ambient temperature	-20 deg. to +30 deg

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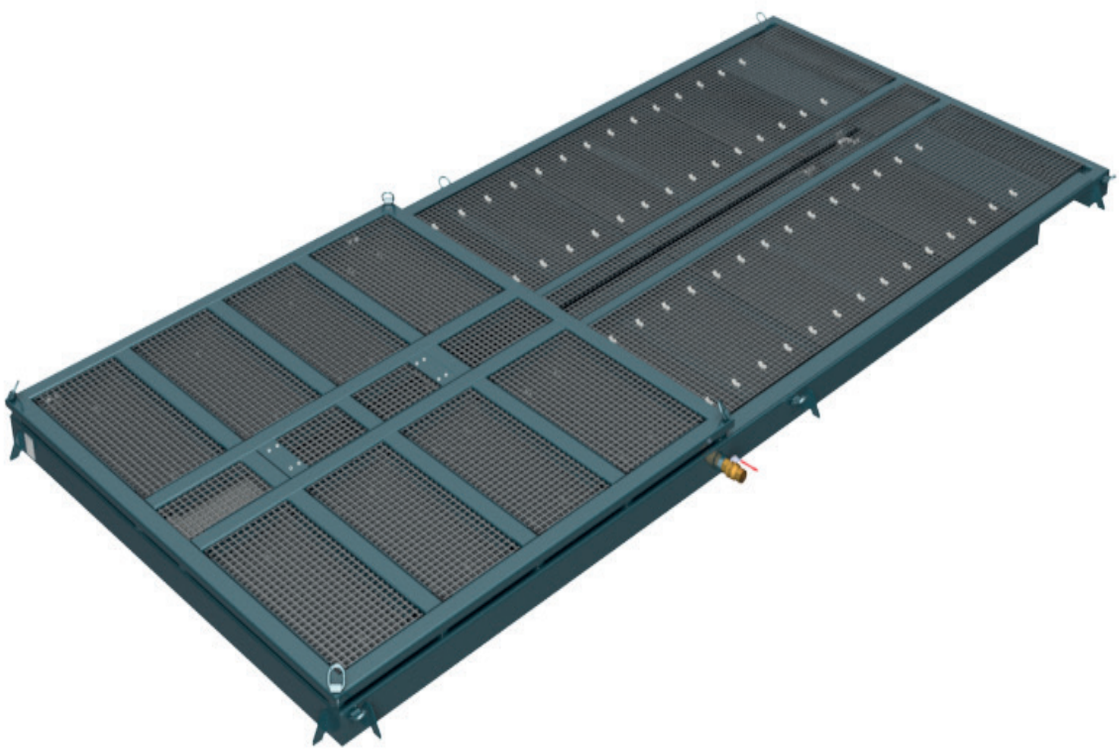
Skidding system

Offshore Vessel



Technical Specification - example

Estimated weight (each)	1,8 Te
Type of equipment	Skidding system with drip tray
Max weight of ROV / payload	12 Te
Travel	5400 mm
DAF	1,3
Skid speed	3 m/min (approx.)

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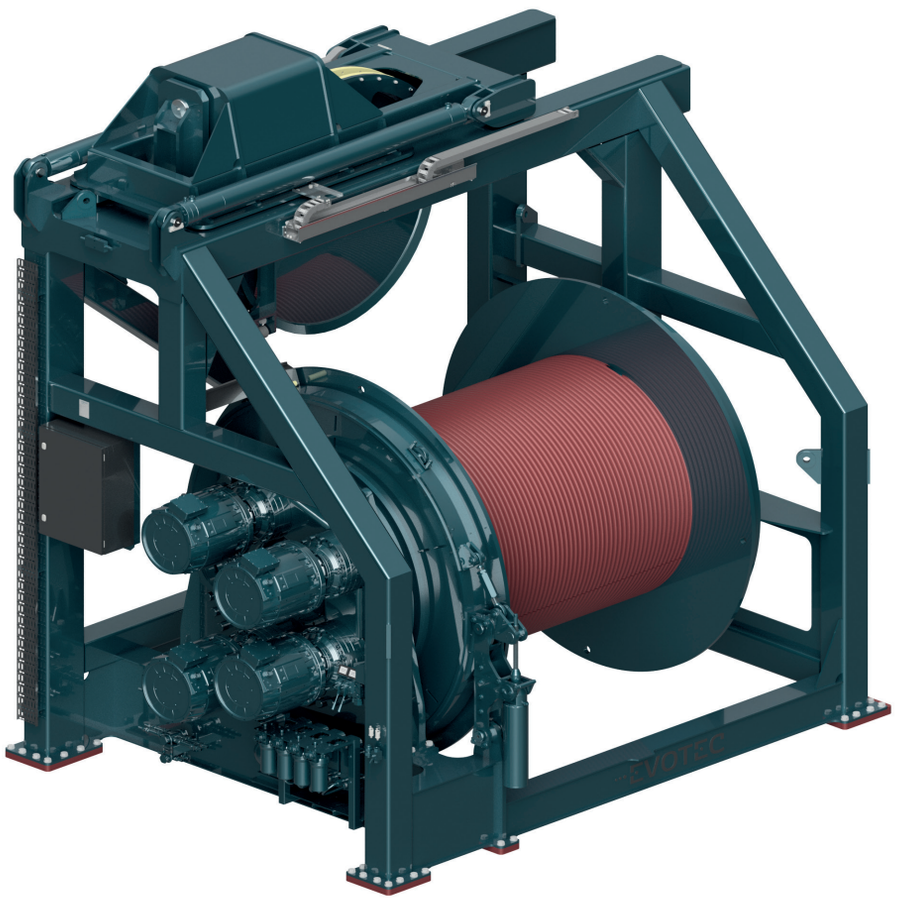
Umbilical Winch

Offshore Vessel



Technical Specification - example

Drum size (inner/outer dia - width)	Ø1500/Ø2450 - 1900mm
Estimated weight (each)	18 Te (without cable)
Power consumption (winch)	220 kW
Winch capacity	4200 m of Ø34,9 mm umbilical
Minimum bend radius cable	R750 mm
Speed	60 m/min (90 m/min max speed outer layer)
Winch pull / brake	200 kN / 360 kN at 1st layer (Ø1541 mm) 156 kN / 280 kN at mid layer (Ø1976 mm) 127 kN / 230 kN at outer layer (Ø2411 mm)
Spooling device	Automatic parametric spooling
Brake	Hydraulic release, spring applied band brake
Secondary brake	Hydraulic release, spring applied multidisc brake, each motor

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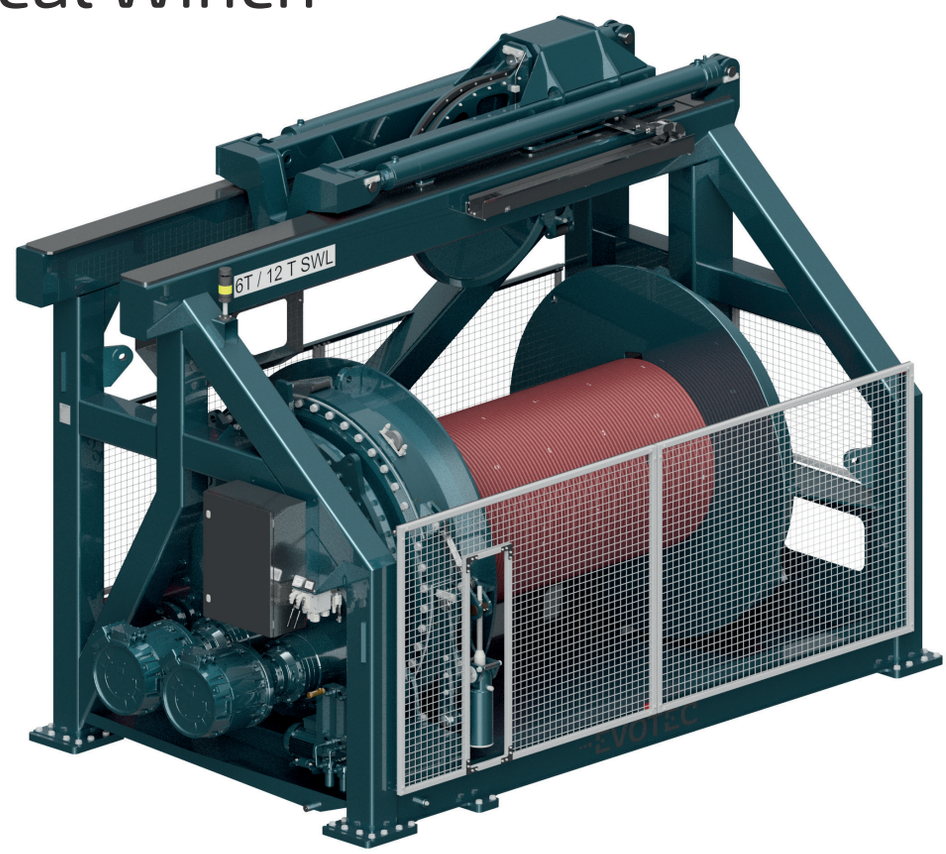
Umbilical Winch

Offshore Vessel



Technical Specification - example

Drum size (inner/outer dia - width)	Ø1000/Ø2020 - 2100mm
Estimated weight (each)	13 Te (without cable)
Power consumption (winch)	150 kW
Winch capacity	6500 m Ø24,9 mm umbilical
Minimum bend radius cable	R500 mm
Speed	50 m/min at 1st layer 80 m/min at outer layer
Winch pull / brake (2 motors)	160 kN / 295 kN at 1st layer 98 kN / 170 kN at outer layer
Winch pull / brake (1 motor)	120 kN / 295 kN at 1st layer 68 kN / 170 kN at outer layer
Spooling device	Automatic parametric spooling
Brake	Hydraulic release, spring applied band brake
Secondary brake	Hydraulic release, spring applied multidisc brake between motor/gear

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Side Door

Offshore Vessel

Technical Specification - example

Max. operation wind load	Storm (24 m/s)
Design water pressure	13,87 kN/m2
DAF	1,3
Design	Hydraulic cylinders
Cylinder force	300 kN at 250 bar
Open/closing time	Approx. 45 s/ 30 s
Locking elements	8 hydraulic locking pins

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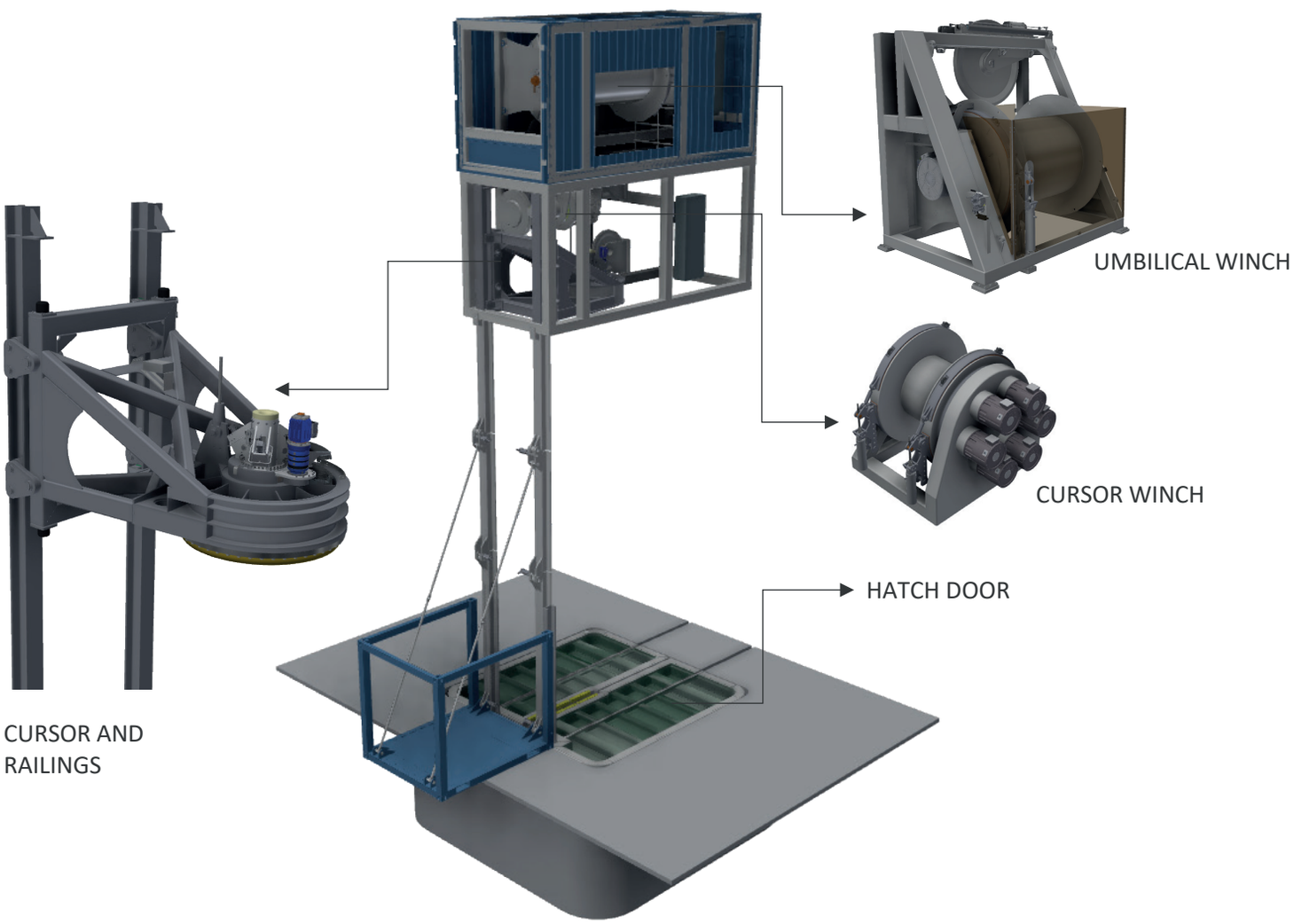
Moon Pool System

Offshore Vessel



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OFFSHORE - LARS FOR AUV

Evotec enables AUV operation 365-24/7, guaranteed

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Containarized AUV LARS

Offshore Vessel

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AUV deploy

Offshore Vessel

With Evotec`s LARS for AUV the deployment is made easy.

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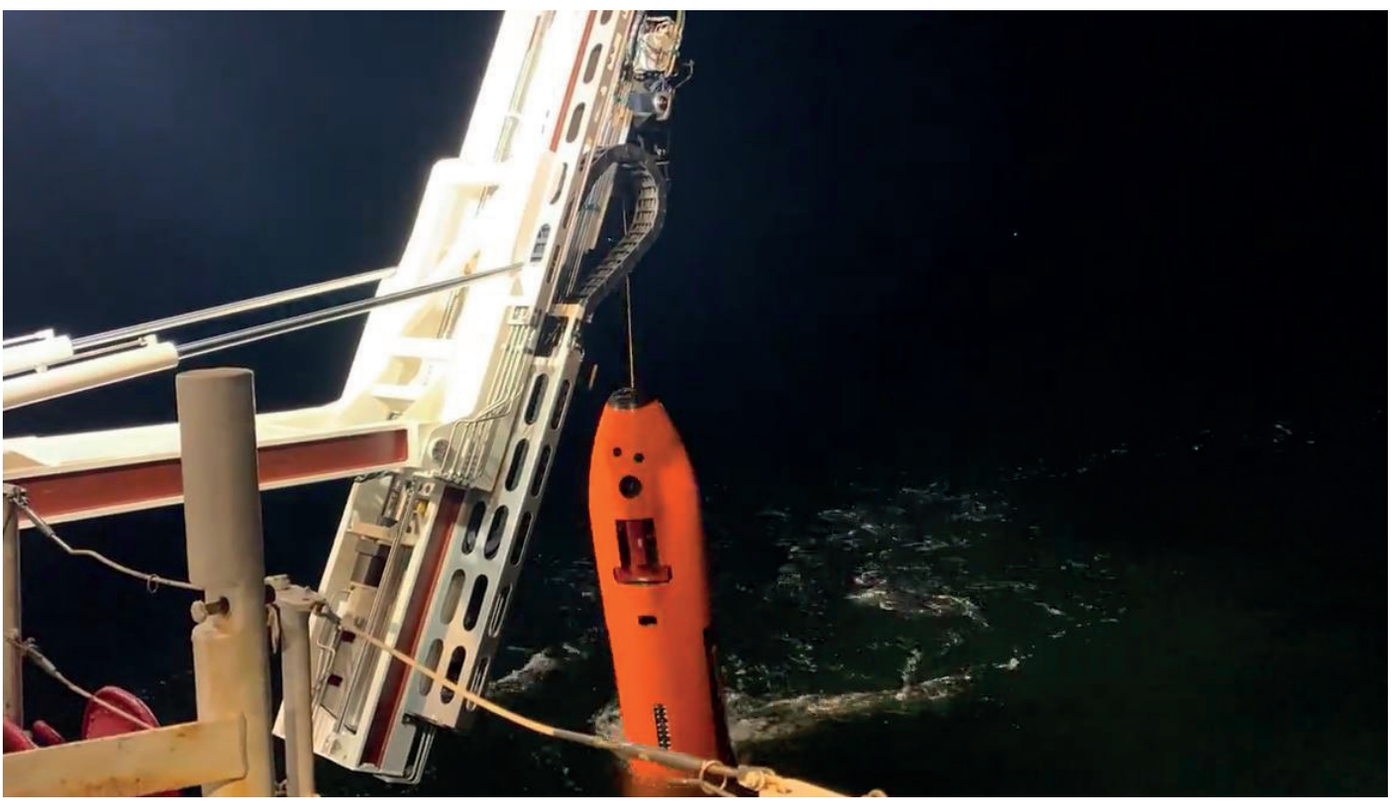
AUV retrive

Offshore Vessel

With Evotec`s LARS for AUV and possibility for VERTICAL retrieval, the operation is gentle even in high sea states.



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