

RAPTOR Anchoring Remote Operated Vehicle 2 (AROV2)

The Raptor AROV 2 is a remotely operated subsea drilling and anchor installation system, specifically developed for challenging offshore renewable environments.

What makes this system particularly interesting is the combination of precision, efficiency, and reduced offshore footprint.

The system was specifically developed for environments with very limited working windows, where you may only have a short slack-water period to complete operations.

Another major advantage is the reduced environmental impact:

- less invasive installation,
- lower seabed disturbance,
- reduced noise,
- and smaller overall operational footprint.

Key Features and Specifications

Operational Efficiency:

Capable of installing anchors within a single slack water period at high-flow tidal sites.

Precise Positioning:

Enables accurate positioning and installation, ensuring anchors are placed within $\pm 3^\circ$ degrees of vertical and secured to the seabed.

Minimal Environmental Impact:

Designed for less invasive anchoring with reduced noise, smaller seabed footprints, and lower rock cutting volumes.

Depth Rating:

The system is designed for operating depths up to 1,000 meters

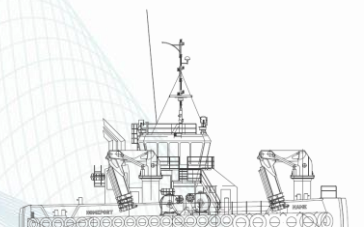


Construction

Item	Specification
Length (Operating)	5.2 m
Length (Transport)	5.7 m
Width (Operating)	5.2 m
Width (Transport)	2.2 m
Height (Operating)	6.9 m
Height (Transport)	2.2 m (for 20' ISO Container)
Weight (in Air)	11.5 t

Power and Control System

Item	Specification
Input	440 V @ 50/60 Hz
Subsea HPU	200 kW
Umbilical	Nexans RS680
Subsea Supply	3.3 kV



Capability

Item	Specification
Operating Depth	200 m
Design Depth	1000 m
Cutting Power	93.3 kW
Core Sampling	3.6 m, T6-H
Max. Anchor Diameter	0.9 m
Max. Drilled Length	3.0 m**

*3.9m possible with minor mast modifications

*Up to 0.8m if additional upstand possible

Additional Information

Item	Specification
Oil Type	Biodegradable
Fixed Cameras	3x LUXUS PUR SD
Lights	3x Bowtech LED K-Series
Pan & Tilt Cameras	2x Spyball SSB-HDI
Sonar	Gemini 720i (with pan + tilt)

Drill Heads

Lower Head

Item	Specification
Peak Torque	14.0 kNm
Max Speed	200 RPM

Upper Head

Item	Specification
Peak Torque	2.5 kNm
Max Speed	403 RPM
Max Pull Up / Down Load	15t

Control Container

Item	Specification
Configuration	20 FT ISO
Certification	DNV 2.7-1
Winchpull	4.5 t
HPU	35 kW

