



COUGAR FS ROV SYSTEM

Class II Remotely Operated Vehicle

Jointly developed by DNT and Seaeye, the Cougar ROVs combine the capabilities of observation class ROVs with two 5-functions dexterous manipulators, much greater payload, and thrust to accommodate a wider range of tooling and sensors.

COUGAR FS ROV SYSTEM

SYSTEM MAIN APPLICATIONS

- Mobile and fixed offshore structure inspections
- NDT inspections
- Cables and pipelines surveys: pre-lay, touch-down monitoring, as-laid and as-built
- Pipeline instrumental inspections
- Light maintenance and repair
- Diver assistance



GENERAL SPECIFICATIONS

Depth rating (msw):	500
Dimensions (L x W x H - m):	1.5 x 1.0 x 1.1
Weight in air (Kg):	500
Payload (Kg):	80

PERFORMANCE

Thrusters (horizontal):	4 x Saab Seaeye SM5
Thruster (vertical):	2 x Saab Seaeye SM5
Forward bollard (Kgf):	100
Lateral bollard (Kgf):	72
Vertical bollard (Kgf):	76
Maximum speed (knots):	3.0

AUTO FUNCTION CONTROL

Auto heading:	Available
Auto depth:	Available

SENSORS

Compass:	Saab Seaeye 10CP / 3 ± 1 deg accuracy
Depth Sensor:	Saab Seaeye 10DP / 2 ± 0.1% FSD accuracy
Sonar:	Tritech Super Seaking

CAMERAS AND LIGHTS

Tilt unit:	1 x electric Saab Seaeye
Low light B/W camera:	1
Color CCD fixed focus camera:	1
Incandescent lights:	4 (on 2 separate channels)

HYDRAULIC SPECIFICATIONS

90200 power pack pressure and flow (bar@lpm):	140@0.5
7-F valve packs*:	2 x HLK-72100

*Functions are shared with manipulators

MANIPULATORS

5 functions:	2 x Hydrolek HLK-HD5
3 functions grabber*:	Optional

*Replaces a 5 functions manipulator when installed

TELEMETRY SYSTEM

Standard channel types:	1 x RS 485 / 422, 1 x CP twisted pair*, 3 x fixed focus PAL video, 1 x zoom focus PAL video
Subsea power outputs:	110VAC, 24VDC

*May be used as additional RS 485 / 422 channel, if not used for CP reference

CONTROL VAN, WORKSHOP AND STORAGE

2 x 10' containers

LAUNCH & RECOVERY SYSTEM

Winch dimensions (L x W x H - m):	1.8 x 1.8 x 1.9
Winch weight (Ton):	2,1
Winch umbilical capacity (m):	500
Crane dimensions (L x W x H - m):	1.1 x 2.6 x 2.4
Crane weight (Ton):	2,1
Crane capacity (Ton@m):	1.1@7.7
HPU dimensions (L x W x H - m):	0.8 x 1.1 x 1.9
HPU weight (Kg):	600
Clump weight (Kg):	20

STANDARD OPERATIONAL LIMITS

Beaufort:	4
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ELECTRICAL REQUIREMENTS

ROV and LARS:	380 / 475 VAC, 50 / 60Hz, 3PH, 40KVA
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ROAD TRANSPORTATION

Number of trucks:	5 (approximately)
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