

ARIES 105 ROV SYSTEM

The ARIES is designed for use in subsea support, IRM operations and remote intervention tasks. These include positioning subsea structure, pipelines/umbilical connections, pipeline repairs, component change-out and debris removal.



ARIES 105 Work Class ROV System

150 HP of Hydraulic Power

- Separate hydraulic for tooling
- Auto heading, depth, altitude
- Serial, Video, Ethernet via single mode fibre
- HD camera capability (IP)
- PLC Based control system
- Survey sensor integrated capacity



GENERAL SPECIFICATIONS

Depth rating:	1000 msw
Dimensions (L x W x H):	2.9 x 1.6 x 1.9 m
Weight in air:	3.2 ton
Through- frame lift:	1.5 ton
Payload:	200kg

PERFORMANCE

Power:	150 HP
Thrusters (Horizontal):	4 x SA380
Thrusters (Vertical):	3 x SA300
Forward, aft, lateral BP:	750 kg
Vertical up pull:	600 kg
Forward, aft speed:	3.5 knots
Lateral, Vertical speed:	2.5 Knots

AUTO FUNCTIONS

Auto heading:	± 2.5 degrees
Auto depth:	± 15 cm
Auto altitude:	± 15 cm

SENSORS

Gyro (MRU):	Tritech iGC
Navigation compass:	Tritech Gyro Compass
Depth Sensor:	Digiquarts
DVL:	Optional
Altimeter:	Imaginex 862
Sonar:	Imaginex 881

CAMERAS & LIGHTS

First Pan & Tilt:	1 x Tritech Hydraulic
Second Pan & Tilt:	Optional
Low light B/W:	1
Colour CCD Zoom:	1
Colour CCD Fixed focus:	2
Dimmable lights:	4
Flood lights:	2

MANIPULATORS

7 Function:	Hallin MK7
5 Function:	Hallin MK5
	Schilling optional

TOP HAT MANAGEMENT SYSTEM

Dimensions (D X H):	2 x 2.2 m
Weight in air:	3 ton
Max tether length:	400 m
Depth sensor:	Pressure transducer
Colour camera:	2
Lights:	2

CONTROL, WORKSHOP CONTAINERS

Control:	20 feet DNV 2.7.1
Work Shop:	20 feet DNV 2.7.1

LAUNCH & RECOVERY SYSTEM

Type:	A-Frame
Dimension (L x W x H):	6.0 x 2.99 x 3.6 m
Max height:	9.0 m
A-Frame weight:	19 ton
Winch (L x W x H):	2.95 x 2.55 x 2.55 m
Winch weight:	18 ton
Winch max umbilical:	2,000 m
HPU (L x W x H):	1.8 x 1.2 x 1.9 m
HPU Weight:	3,500 kg

STANDARD OPERATIONAL LIMITS

Beaufort:	6
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ELECTRICAL REQUIREMENTS

ROV, Control van:	380/480 VAC, 50/60 Hz
	3PH, 250A
LARS:	400/460 VAC, 50/60 Hz
	3PH, 150A

ROAD TRANSPORTATION

Numbers of trucks:	3-4
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