

ARIES 108 ROV SYSTEM

ARIES 108 is a well-established and proven performer in deep water operations. The ROV system offers a comprehensive combination of thrust, payload, through-frame lift and sensor interface. With its upgraded 150hp Hydraulic Power Unit, the system offers versatility, reliability and capacity of a wider option of tooling operations without sacrificing maneuverability and thrust. In addition to that an upgrade on its Fibre Optic Multiplexing data transmission system allows for more data and video channels to be relayed to surface via single SM Fibre. This opens up the option for utilization of spare fibres for 3rd party equipment ie. cameras, sensors, etc. without interfering with the ROV's control channel.



ARIES 108 Work Class ROV System

125 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:	1500 msw
Dimensions (L x W x H):	2.3 x 2.44 x 1.37 m
Weight in air:	3.0 ton
Through- frame lift:	1.0 ton
Payload:	250kg

PERFORMANCE

Power:	125 HP
Thrusters (Horizontal):	2 x SA380, 4 x SA300
Thrusters (Vertical):	2 x SA300
Forward, aft, lateral BP:	650 kg
Vertical up pull:	500 kg
Forward, aft speed:	3.0 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
Sonar:	Kongsberg MS 1000

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:	Schilling Conan
5 Function:	Schilling Rig-master

TOP HAT MANAGEMENT SYSTEM

Optional

CONTROL, WORKSHOP CONTAINERS

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

LAUNCH & RECOVERY SYSTEM

Type:	A – Frame
Dimensions (L x W x H):	6.25 x 2.44 x 3.2 m
Max height:	8.0 m
A-Frame weight:	10 ton
Winch (L x W x H):	3.5 x 2.2 x 2.8 m
Winch weight:	12 ton
Winch max umbilical:	1,500 m
HPU (L x W x H):	2.5 x 1.5 x 1.5 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:	2-3
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