

## FOCUS-2

SPECIFICATION SHEET



### SURVEY CLASS ROTV

### KEY FEATURES

- APPLIED FOR PIPELINE INSPECTION, CABLE ROUTE SURVEYS, LARGE AREA SEARCHES, ENVIRONMENTAL IMPACT STUDIES, SITE SURVEYS AND SEA FLOOR MAPPING.
- MAXIMUM USAGE OF SHIP TIME - OPERATING SIMULTANEOUSLY WITH A NUMBER OF ACOUSTIC SURVEY SENSORS AND INSTRUMENTS.
- REAL TIME UNDERWAY DATA COLLECTION AND REAL TIME FEED-BACK TO VEHICLE CONTROL MODULE THAT KEEPS THE ROTV AT THE RIGHT LATERAL DISTANCE FROM THE PIPELINE.
- LOW MAGNETIC AND ACOUSTIC NOISE SIGNATURES.
- INTELLIGENT SEABED AVOIDANCE SOFTWARE
- THE FOCUS-2 IS AN ACTIVELY CONTROLLED TOWED VEHICLE. IT PROVIDES SUPERIOR ROLL/PITCH/YAW CONTROL AND DECIMETER ACCURACY IN HEIGHT ABOVE SEABED.
- 3 TRANSLATION AXES, FORWARD/BACKWARD, SIDEWAYS, UP/DOWN. 360DEG IN ROLL, PITCH AND HEADING.
- MODULAR RUGGED AND STREAMLINED DESIGN

## GENERAL

<b>POWER</b>	220 VAC or 110 VAC
<b>PAYLOAD</b>	40 kg
<b>WEIGHT IN AIR</b>	120-160 kg (depending on sensor configuration)
<b>DIMENSIONS (LXWXH)</b>	1.85 x 1.25 x 1.25 m
<b>SHAPE</b>	Consists of four carbon-fibre hulls, connected by a carbon-fibre frame, forming a cube

## PERFORMANCE

<b>SURVEY DEPTHS / SPEED</b>	400m @ 4kn (1200m cable)
	400m @ 8kn (2700m cable)

## STANDARD EQUIPMENT

<b>MULTI BEAM SONAR</b>	Reson SeaBat 8125H, 455 kHz
<b>SYNTHETIC APERTURE SONAR (SAS)</b>	Miniature Interferometric Synthetic Aperture Sonar, KRAKEN Sonar Systems Inc.
<b>PRESSURE SENSOR</b>	Paroscientific Digiquartz 8000 series
<b>SOUND VELOCITY SENSOR</b>	SAIV SD 204
<b>ATTITUDE / HEADING SENSOR</b>	IXBLUE ROVINS
<b>USBL TRANSPONDER</b>	Kongsberg MST 319
<b>DOPPLER VELOCITY LOG</b>	Teledyne RD Instruments Workhorse Navigator 600KHz



## ERGONOMIC AND FUNCTIONAL PILOT INTERFACE

<b>INTERFACE</b>	Distribution panel for sensor data Joystick for winch pay out/in Joystick for manual flight control of the ROTV Realtime monitoring system Integrated mouse
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## TELEMETRY

<b>SERIAL CONNECTIONS</b>	9 (basic config.)
<b>ETHERNET</b>	1 GB

## CONTROL CONTAINER

<b>CONTROL CONTAINER</b>	Integrated in vessel control room or typical 20' container
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## WORKSHOP CONTAINER

<b>WORKSHOP CONTAINER</b>	Integrated in vessel workshop or typical 10' or 20' container
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## HANDLING SYSTEM

<b>ROTV WINCH</b>	Active heave compensated to approx. 4m Hs (Vessel dependent)
<b>MANUFACTURER/TYPE</b>	MacArtney/MASH ROTV Focus-2 Winch type 2000-10-15
<b>LENGTH</b>	1.455 m
<b>WIDTH</b>	1.675 m
<b>HEIGHT</b>	1.35 m
<b>WEIGHT</b>	1800 kg (Excl. Cable & slip ring)
<b>TOWCABLE</b>	2000 m Double armoured steel cable including subsea and topside termination 50 m electric and fibre optical deck cables Cable sheave
<b>LAUNCH / RECOVERY</b>	A-frame or crane

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