

# QUASAR MKII WORKCLASS ROV

## General Description

The Quasar is an industry standard Type III Work Class ROV System. With proven reliability utilizing the latest “multi - platform”. Curveteck components, the vehicle offers class leading performance and exceptional tooling capability.



Bintang Subsea is a member of the Shelf Subsea group of companies of which both are active members of various associations including IMCA.

All details are presented herein in good faith and are believed to be correct at time of publication. System specifications are subject to change without notice.

## Applications

Quasar is an excellent all-round performer and is suitable for the following sectors and tasks:

- Construction Support
- Inspection, Repair and Maintenance activities
- High Resolution Survey Support and Seabed Mapping
- Deep Water Drill support, completion & well intervention
- Dive support
- Pipeline Inspection

## Main Features

- 150hp hydraulic power with integrated tooling circuit
- 3000m depth rated
- Extended Tether Management System (TMS) with 915m 27mm tether capability
- 250kg payload
- Up to 800kg bollard pull
- SMD DVECSII digital telemetry
- HDTV & gigabyte capability
- SMD AutoROV Advanced Controls including ‘Position Hold’

## ROV SPECIFICATION

Hydraulic power	150hp (110kW) Curvetech power pack
Depth rating	3000msw
Dimensions (L x W x H)	3000 x 1700 x 1700mm
Weight in air	3500kg
Bollard pull	≥ 740kgf fwd/aft, ≥ 740kgf lateral, ≥ 500kgf vertical
Surface speed	3.2kn forward, 2.5kn lateral, 25.kn vertical
Work pack capacity	3000kg under-slung 1000kg aft
Propulsion	Four Curvetech HTE 380BA (380mm) horizontal vectored thrusters Three Curvetech HTE 300BA (300mm) vertical hydraulic thrusters
Manipulators	One 7F position feedback control (Schilling Titan4) One 5F grabber (Schilling Rigmaster)
Auto functions	Heading, depth & altitude
Cameras	One Bowtech Explorer Extreme One Bowtech Surveyor-SD-B8-B One Bowtech Mini Colour One Bowtech Mini B&W LLC
Pan and Tilt	One Kongsberg OE10-102
Tilt Unit	One Kongsberg OE10-103
Lighting	Six Bowtech LED-U-4200AC LED Lamps
Sensors	Blue View Sonar System (RS232 interface) One CDL 3000m TOGS/NAV Gyro with RDI DVL, Mini IPS, Pitch & Roll One Novatech ST400A Xenon Flasher

## WORKSHOP

Type	20ft ISO Container (air conditioned)
Classification	Safe Area
Dimensions (l x w x h)	6058 x 2438 x 2598mm
Weight (approx.)	11500 Kg Gross
Electrical Supply	240VAC supplied from Control Van

## LAUNCH AND RECOVERY SYSTEM

Type	Hydraulically driven ROV lift winch & Hydraulically powered A-frame with umbilical sheave, damped snubber and rotating frame
Classification	Safe Area
Certification/standard	Designed in accordance with Lloyds Lifting Appliances in a Marine Environment for operation in up to Sea State 6
System SWL	12000kg (top wrap)
Winch Dimensions	3670 x 2890 x 3160 mm (includes fleeting)
Winch Weight	32700kg (Inc. umbilical)
Line speed	50m/min
Umbilical	3300m of 35mm diameter, double steel armored (Nexans RS686)
A Frame Dimensions	7000 x 4036 x 10797 mm (Operational)
A Frame Weight	25000kg
Outboard Reach	4.7m
HPU	Twin 75kW
Incoming power supply	440v supply

## TETHER MANAGEMENT SYSTEM (TMS)

Class/Type	SMD Extended Tophat Tether Management System (TMS)
Dimensions (d x h)	2175 x 2475mm
Weight in air	3175kg (inc 500m of 27mm tether)
Weight in seawater	2050kg (inc 500m of 27mm tether)
Line Speed / pull	0 – 60m/min proportional @ >300kgf
Lighting	Two Bowtech LED-U-4200AC LED Lamps
Cameras	Two Bowtech LLC 600 Mono
Depth sensor	Digiquartz Depth Sensor Tether 27mm diameter Nexan WT1-1 Work Class Tether

## CONTROL VAN

Type	20ft ISO Container (air conditioned)
Classification	Safe Area
Dimensions (l x w x h)	6058 x 2540 x 2743mm
Weight (approx.)	12000 Kg Gross
Transformer	3 Phase transformer (ROV HPU)
Operational Console	DVECS2 ergonomic control system c/w Pilot Control Desk Co-Pilot Control Desk Touch screen control monitors for menu navigation and ROV auxiliary
Monitors	Eight, 19" TFT Flat Panel monitors in "video wall" arrangement (4 x video - two c/w quad screen splitters, 4 x control/diagnostics)
Power Distribution Unit	Self-contained 150hp PDU
Rack Mounted Equipment	Oceantools 2 channel Video Overlay Kramer Video Matrix Switcher 16x16 Two Quad Splitters Two Edge DVR Recorders (SD Version) Canford Communication system