

# QUASAR MKIII

WORK CLASS ROV



## OVERVIEW

- 150 HP Hydraulic Power
- 3000m Depth Rated
- Extended Tether Management System (TMS) with 915m 275 Tether Capability
- 250kg Payload
- SMD DVECSII Digital Telemetry
- Up to 800kg Bollard Pull
- HDTV & Gigabyte Capability
- SMD AutoROV Advanced Control Modes



# REVER WORK CLASS ROV

Quasar is the medium size vehicle in SMD's Q-Series Work ROV range. Utilizing the latest "multi-platform" Curvetech components, the vehicle offers class leading performance and exceptional tooling capability.

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

- Light construction including pipelay support and TDM
- IRM, pipeline and platform inspections including CP & FMD
- Drill support, completion & well intervention including BOP shut down, fluid injection, hot stabbing, drilling and tapping, and gasket change out
- Survey including multibeam and OSS
- Dive support

## QUASAR SYSTEM SPECIFICATION

<b>Hydraulic power</b>	150hp (110kW) Curvetech power pac
<b>Depth rating (Optional)</b>	3000msw
<b>Length</b>	3000mm
<b>Width</b>	1700mm
<b>Height</b>	1700mm
<b>Weight in Air (std)</b>	3500kg
<b>Work pack capacity</b>	3000kg under-slung 1000kg aft
<b>Propulsion</b>	Four Curvetech HTE 380BA (380mm) horizontal vectored thrusters. Three Curvetech HTE 300BA (300mm) vertical hydraulic thrusters
<b>Manipulators</b>	One 7F position feedback control (Schilling Titan4). One 5F grabber (Schilling Rigmaster).
<b>Auto functions</b>	Heading, depth & altitude
<b>Cameras</b>	One Bowtech Explorer Extreme One Bowtech Surveyor-SD-B8-B One Bowtech Mini Colour One Bowtech Mini B&W LLC
<b>Pan and Tilt</b>	One Kongsberg OE10-102
<b>Tilt Unit</b>	One Kongsberg OE10-103
<b>Lighting</b>	Six Bowtech LED-U-4200AC LED Lamps
<b>Sensors</b>	One Tritech SeaKing DST Sonar (RS232 interface) One CDL 3000m TOGS/NAV Gyro with RDI DVL, Mini IPS, Pitch & Roll One Novatech ST400A Xenon Flasher

## WORKSHOP

<b>Type</b>	20ft A0 ISO Container
<b>Classification</b>	Safe Area
<b>Dimensions (l x w x h)</b>	6058 x 2540 x 2743mm
<b>Electrical supply</b>	240 VAC Input single phase supplied from Control Cabin 50m power cable

## TETHER MANAGEMENT SYSTEM (TMS)

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

## LAUNCH AND RECOVERY SYSTEM (LARS)

<b>Type</b>	SMD Hydraulically powered 'A-frame with umbilical sheave, damped snubber and rotating frame.
<b>Classification</b>	Safe Area
<b>Certification/standard</b>	Designed in accordance with Lloyds Lifting Appliances in a Marine Environment
<b>Dimensions (l x w x h)</b>	12483 x 4076 x 8895 mm (operational) 7657 x 4076 x 3374 mm (transport)
<b>Outboard Reach</b>	4746mm
<b>Weight</b>	16000kg
<b>SWL</b>	10725kg
<b>Design factor</b>	3g

## UMBILICAL WINCH

<b>Type</b>	Hydraulically driven ROV lift winch
<b>Classification</b>	Safe Area
<b>Certification/standard</b>	Designed in accordance with Lloyds Lifting Appliances in a Marine Environment
<b>Dimensions (l x w x h)</b>	3670 x 2890 x 3160 mm (includes fleeting)
<b>Weight</b>	33000kg (inc. umbilical)
<b>Winch pull</b>	12000kg (top wrap)
<b>Line speed</b>	50m/minutes max
<b>Umbilical</b>	3300m of 41.2mm diameter, double steel armoured (Nexans RS686)
<b>HPU</b>	Twin 75kW

# REVER WORK CLASS ROV

## CONTROL VAN

<b>Type</b>	20ft ISO Container (air conditioned)
<b>Classification</b>	3000msw
<b>Dimensions (l x w x h)</b>	6058 x 2540 x 2743mm
<b>Weight (approx.)</b>	12000 Kg Gross
<b>Transformer</b>	3 Phase transformer (ROV HPU)
<b>Operational Console</b>	DVECS2 ergonomic control system c/w Pilot Control Desk Co-Pilot Control Desk Touch screen control monitors for menu navigation and ROV auxiliary
<b>Monitors</b>	Eight, 19" TFT Flat Panel monitors in "video wall" arrangement (4 x video - two c/w quad screen splitters, 4 x control/diagnostics)
<b>Power Distribution Unit</b>	Self contained 150hp PDU
<b>Rack Mounted</b>	Oceantools 2 channel Video Overlay
<b>Equipment</b>	Kramer Video Matrix Switcher 16x16 Two Quad Splitters Two Edge DVR Recorders (SD Version) Blue View Sonar System Canford Communication system
<b>Sensors</b>	One Tritech SeaKing DST Sonar (RS232 interface) One CDL 3000m TOGS/NAV Gyro with RDI DVL, Mini IPS, Pitch & Roll One Novatech ST400A Xenon Flasher

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