

QUASAR 14

TECHNICAL SPECIFICATION



DeepTech

Part of the MCS Group
deeptechoilservices.com

SYSTEM SUMMARY

The Quasar 14 is an excellent all-round performer capable of survey, construction and drill support operations in the harshest environments up to 3000 m. These ROV systems offer a comprehensive combination of 1X7 Function Manipulator, 1X5 Function Manipulator, thrust, payload, through frame lift and sensor interface. For enhanced capability The Quasar 14 can be fitted with purpose-built tooling skids and a range of acoustic sensors to perform precision surveys and salvage operations.

Suitable for myriad sectors and tasks:

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



POWER

The vehicle is stable even in strong currents, and so excels as a survey and oceanographic platform.



EFFICIENT

Access to the vehicle's quick release components is fast and easy decreasing maintenance time and increasing availability.



INTUITIVE

Its DVECSII control system can be mastered quickly and intuitively helping reduce operational risk.

TECHNICAL OVERVIEW

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|----------------------------|--|
| Hydraulic power | 150hp (110kW) Curvetech power pac |
| Depth rating | (Optional) 3000msw |
| Dimentions | Length : 3000mm, Width : 1700mm, Height : 1700mm |
| Weight in air (std) | 3500kg (7716 lbs) |
| 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 OE10102- |
| Tilt Unit | One Kongsberg OE10103- |
| Lighting | Six Bowtech LED-U-4200AC LED Lamps |
| Sensors | One Trittech SeaKing DST Sonar / (RS232 interface) One CDL 3000m TOGS/NAV Gyro with RDI DVL, Mini IPS, Pitch & Roll One Novatech ST400A Xenon Flasher |

WORKSHOP

| | |
|--------------------------|--|
| Type | 20ft A0 ISO Container |
| Classification | Safe Area |
| Dimensions | Length 6058mm Width 2540mm Height 2743mm |
| Electrical supply | 240 VAC Input single phase supplied from Control Cabin 50m power cable |

TETHER MANAGEMENT SYSTEM (TMS)

| | |
|---------------------------|--|
| Class/Type | SMD Extended Tophat 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 | Nexan WT11- Work Class Tether 1500 1-m of 27mm diameter |

CONTROL VAN

| | |
|--------------------------------|---|
| Type | 20ft ISO Container (air conditioned) |
| Classification | 3000msw |
| 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 | Oceantools 2 channel Video Overlay |
| Equipment | Kramer Video Matrix Switcher 16x16 , Two Quad Splitters , Two Edge DVR Recorders (SD Version) Blue View Sonar System Canford Communication system |
| Sensors | One Trittech SeaKing DST Sonar, (RS232 interface), One CDL 3000m TOGS/NAV Gyro with RDI, DVL, Mini IPS, Pitch & Roll, One Novatech ST400A Xenon Flasher |

LAUNCH AND RECOVERY SYSTEM (LARS)

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

UMBILICAL WINCH

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

*All of our ROVs can be customized and integrated with the MCS product-line including the 3D Photo Realistic Cloud (3D PRC) and the Platform and Pipeline Commander systems for fast and accurate data which is easy to access and share.



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