

QUASAR 13

TECHNICAL SPECIFICATION



DeepTech

Part of the MCS Group
deeptechoilservices.com

SYSTEM SUMMARY

The Quasar 13 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. A medium sized, work class ROV it utilizes the latest multi-platform Curvetech™ components and offers class-leading in-current performance. It has good tooling and instrument carrying capability and easy access for maintenance.

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

Hydraulic power	150hp (110kW) Curvetech power pac
Depth rating	(Optional) 3000msw
Dimintions	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)

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

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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