

Quasar

The high performance work class remotely operated vehicle (ROV) enables precision manipulative tasks even in high currents.

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 and FMD drill support
 - Completion and well intervention including: BOP shutdown, fluid injection, hot stabbing, drilling and tapping, and gasket change out
- Survey including multibeam and OSS
- Dive support

Technical specifications

Depth rating	3000 msw
Length	3000 mm
Height	1700 mm
Width	1700 mm
Launch weight	3500 kg
Forward speed	3.2 knots
Thrust forward	800 kgf
Thrust lateral	800 kgf
Thrust vertical	500 kgf
Payload	2000 kg

System power requirements

Input supply	3-phase 380-480 VAC -(120A)
Hydraulic power	150hp Curvetech power pack

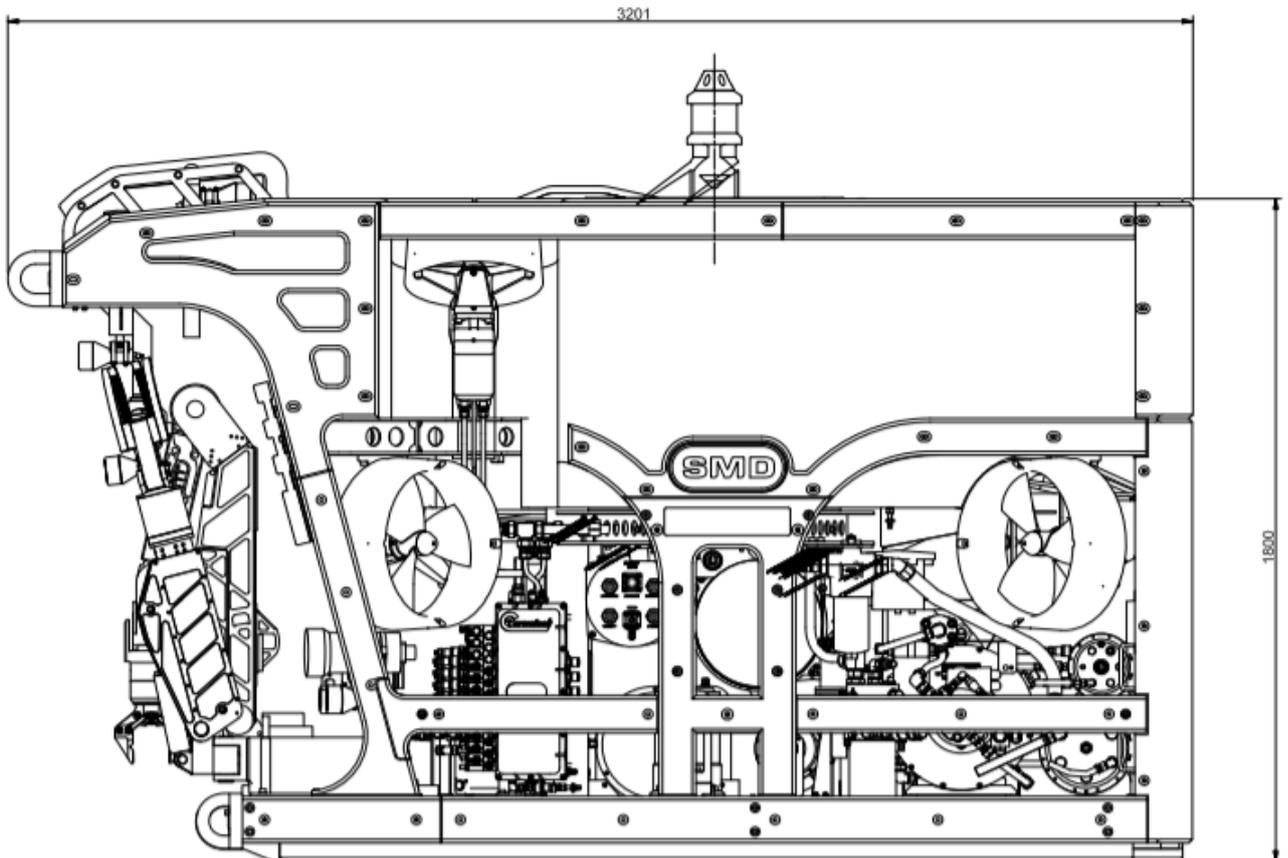
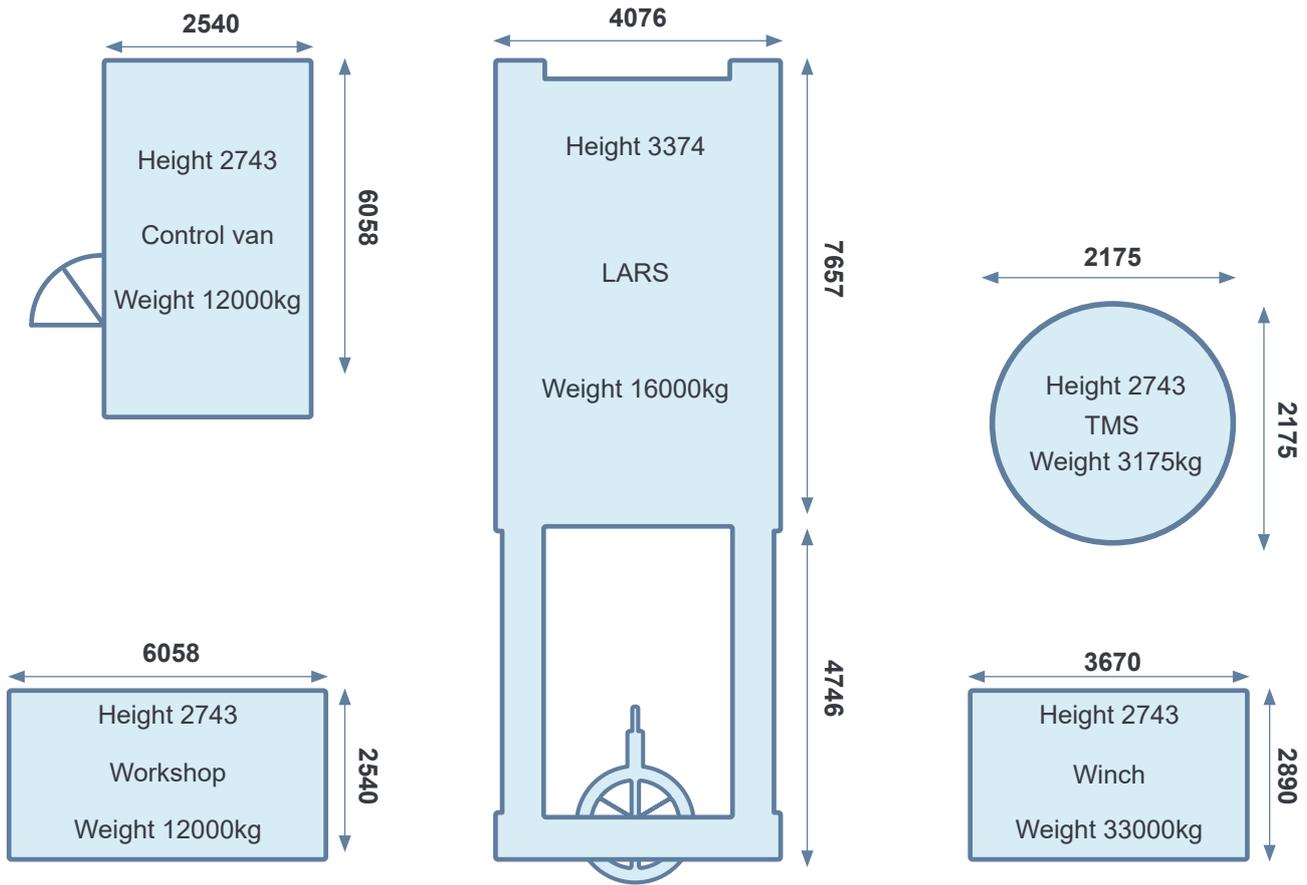
System accessories fitted

1 x Titan 4 (7 function manipulator)
1 x Rigmaster (5 function grabber)
6 x Bowtech LED lamps
1 x Kongsberg P&T
1 x Kongsberg tilt
1 x Bowtech surveyor
1 x Novatech strobe

Working limits

Sea state	7
Wind speed	28 knots
Wave height	2.8 m
Current	3.2 knots

System dimensions (mm)





Launch and recovery system (LARS)

Type	SMD 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
Dimensions (l x w x h)	12483 x 4076 x 8895 mm (operational) 7657 x 4076 x 3374 mm (transport)
Outboard reach	4746 mm
Weight	16000 kg
SWL	10725 kg
Design factor	3 g

Workshop

Type	20ft A0 ISO container
Classification	Safe area
Dimensions (l x w x h)	6058 x 2540 x 2743 mm
Electrical supply	240 VAC input single phase supplied from control cabin 50m power cable

Control van

Type	20ft ISO container (air conditioned)
Classification	3000 msw
Dimensions (l x w x h)	6058 x 2540 x 2743 mm
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 Tritech SeaKing DST Sonar (RS232 interface) One CDL 3000m TOGS/NAV Gyro with RDI DVL, Mini IPS, Pitch & Roll One Novatech ST400A Xenon Flasher

Tether management system (TMS)

Class/Type	SMD extended tophat TMS
Dimensions (d x h)	2175 x 2475 mm
Weight in air	3175 kg (inc 500 m of 27 mm tether)
Weight in seawater	2050 kg (inc 500 m of 27 mm tether)
Line speed/pull	0 – 60 m/min proportional @ >300 kgf
Lighting	Two Bowtech LED-U-4200AC LED lamps
Cameras	Two Bowtech LLC 600 Mono
Depth sensor	Digiquartz depth sensor
Tether	500 m of 27 mm diameter Nexan WT1-1 work class tether

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 fleetings)
Weight	33000 kg (inc. umbilical)
Winch pull	12000 kg (top wrap)
Line speed	50 m/minutes max
Umbilical	3300 m of 41.2 mm diameter, double steel armoured (Nexans RS686)
HPU	Twin 75kW

