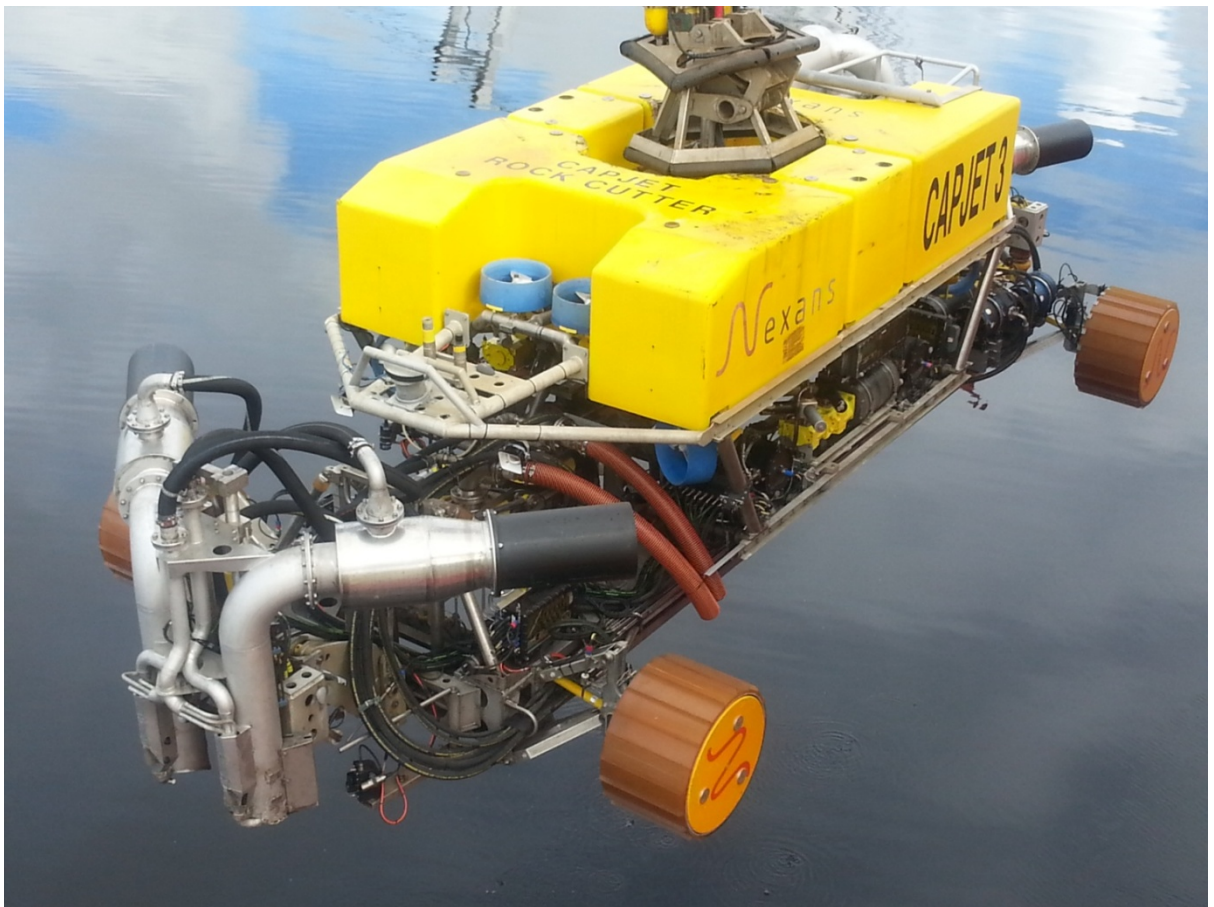


Nexans Capjet Rock cutter





The Nexans Capjet Rockcutter is based on the Nexans Capjet 1MW and share the same topside equipment in addition to the ROV module. Since the basis is the same it is no need to mobilize a second vessel to perform rockcutting, just replace the submodule of the Capjet 1MW jetting machine.

Size & weight

- Control container 20', 7t
- Workshop 20', 4t
- Transformer container 20', 13t
- Storage container 20', 7t
- Rock cutter storage container 20', 10t
- Rock cutter workshop container 10', 5t
- Generators (optional) 2x 20', 15-18t each
- Umbilical winch 4.4x3x2.8m 30t (incl 1000m umb)
- LARS 3.5x5x11m 42t
- Rockcutter 5x3.5x12.5m 17t

Hydraulic system

- 2 x 150 HP HPU redundant systems
- 1 x 6 HP dirty hydraulic
- 10 x 17 thrusters (each 550 kg)
- Bollard pull
- Forward approx 2000 kg
- Lateral 1000 kg
- Vertical 1000 kg
- all HPUs pressure software controlled

Rockcutting module

- 1 x 195 kW HPU cutting system
- 1 x 195 kW ejector system
- 4 x wheel drive (adjustable side to side)
- 4 x wheel individual level adjustment

Electronics/data

- 27 Gbit uplink/175 baud download w 5xRS232 and 5xRS485/422,
- 6 x video and 2 x imaging sonar links, Ethernet w 3 x 10 Mbits links
- Typical 16 extra Rs232 on Ethernet 1 Ghz main computer on control system.

Control system

All data are collected on a serial to Ethernet drop down network which Gives local control of all sensors and valvepacks. The latest control system technology as OPC, distributed data collection, touchscreens and WEB based monitoring and support tools. The system can be fully supported through the internet and low speed connections. Realtime control system for transformer control and LARS and umbilical winch control and monitoring.

Sensors (typical)

- Six color video cameras
- Two mesotech 1000 sonar
- Mesotech SM2000 imaging sonar
- Digiquarts pressure sensor
- Digital yoke sensor
- Mesotech digital altimeter
- Octans fiberoptical survey gyro
- Three off electrical P&T units

Cutting/suction system

- 2 x counter rotating cutting mills (typical cutting depth 75cm)
- Dual 14 front suction
- Central suction in cutting heads
- Aft suction

Cable guiding

- Front tensioner with drive (0-250 kg pulling force)
- Aft tensioner with drive (0-250 kg pulling force)
- Dual rollerized guides past cutting heads
- Fully instrumented including emergency stop of cutter heads