



QCOLLECTOR NODULE COLLECTION RANGE



ENGINEERING
EXCELLENCE
UNDERWATER

QC RANGE

The patent pending SMD QCollector (QC) range has been designed for the purpose of collecting polymetallic nodules in deep water. The range is available in a variety of sizes to suit vessel and client requirements.

Designed with a least impact philosophy at its core, the resultant technique and process form a unique, energy-efficient solution that minimises any impact on both the seabed and surrounding environment.

SMD can supply the umbilical system and launch and recovery equipment associated with the QC vehicle.

SMD can also offer, with a consortium, a full nodule collection turnkey solution from seabed to surface, if required.

SMD CUSTOMISATION SERVICE

SMD understand that every customer is different and therefore have individual needs from their systems. In order to meet your specific requirements SMD can customise our vehicles using our range of standard components to suit your preference and performance requirements.

FEATURES

- Designed with environmental sensitivity at its core. Low submerged weight and a collection method designed for minimal seabed disturbance and minimised sediment plumes.
- Proven SMD technology to 6000m operation
- Efficient, commercially viable method combines minimised processing on ship with maximised nodule collection.
- Plastic tracks to minimise submerged weight.

CONTACT US

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QC RANGE

SYSTEM SPECIFICATIONS

GENERAL	QC1000	QC1500	QC2000	QC2000MAX
Depth rating	6000msw	6000msw	6000msw	6000msw
Dimensions*:				
Length	6m	9m	12m	12m
Width	5m	7.5m	10m	15m
Height	5m	5m	6m	6m
Weight in air	30te	65te	95te	105te
Submerged weight	4.5te	4.5te	4.5te	4.5te

MECHANICAL

Construction	Steel chassis
Collection tank	Steel
Buoyancy	Syntactic foam
Other	Stainless steel fittings and housings

COLLECTOR HEAD

Width	2.5m	5m	10m	15m
No. of eductors	4	8	16	24
Eduction power	~150kW	~300kW	~600kW	~750kW
Dredge power	~150kW	~375kW	~375kW	N/A

POWER

Power	2x375kW	3x375kW	4x375kW	4x375kW
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SUBSEA ELECTRONICS

Electronics pod	One atmosphere pressure vessel
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SUBSEA SURVEILLANCE

Comprehensive instrumentation and surveillance suite, typically comprising cameras, lamps, pan & tilt and sonar.

POWER AND CONTROL SYSTEM

Vessel integrated or housed in ISO A60 containers

UMBILICAL SYSTEM

Synthetic umbilical on a 30te SWL winch with slack / snatch system

LARS

A-Frame	Up to 110te SWL with docking head and cursor
Lift Winch	Up to 120te SWL
Control Kiosk	To control all LARS components
HPU	To power LARS equipment

AFTER SALES SERVICE

Operational Personnel
Technical Support
Service Agreements
Spares Packages

*All dimensions are approximate and subject to final design

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