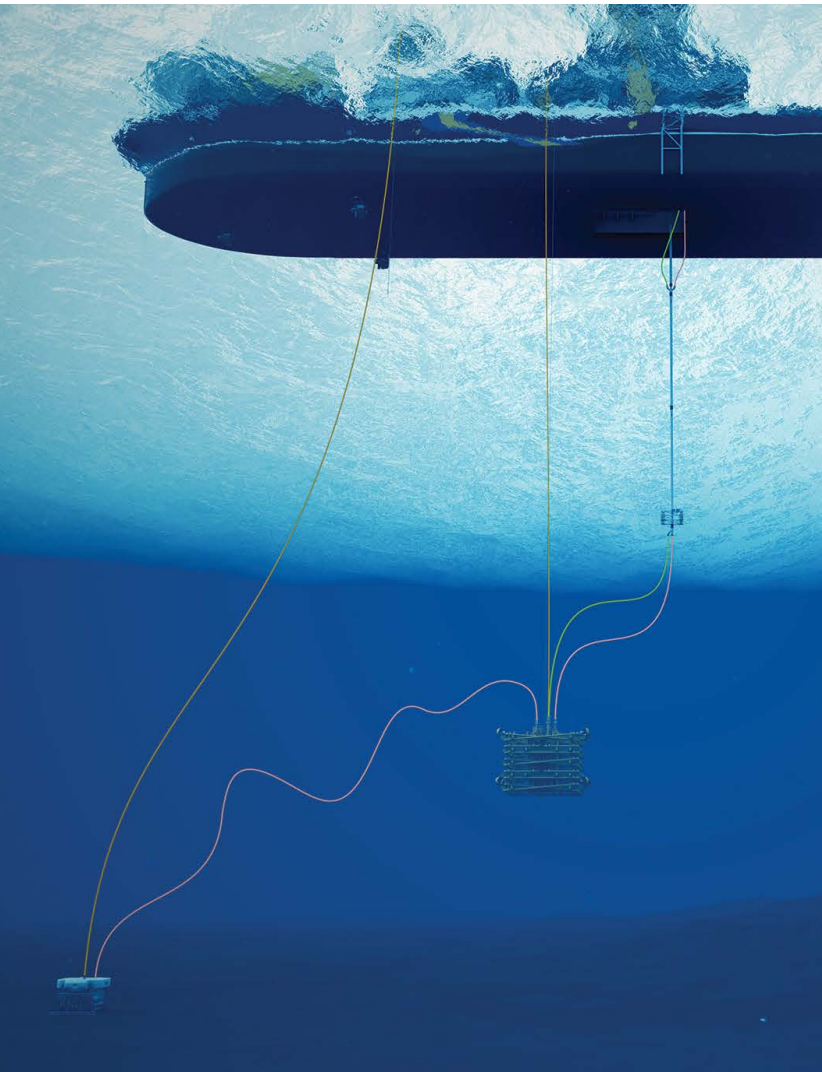


Merlin™ Deepsea Mineral Riser System



Merlin™ Deepsea Mineral Riser System

OSI Minerals™ applies over 40 years' experience as a leader in the design and manufacture of advanced connection systems for offshore applications to meet the new demands of deepsea mineral harvesting.

Designed for ultra-deep performance, the Merlin™ Deepsea Mineral Riser System offers improved operational safety, speed of deployment/retrieval, and cost savings compared to traditional riser systems.

The Merlin™ Deepsea Mineral Riser System (MMR) is the critical conduit that connects the seabed harvesting vehicle to the surface vessel. With the field-proven Merlin™ Connector as its main component, the MMR system offers a safe and efficient mode of transport for nodules. It is fast to deploy and suitable for all environments up to depths of 6,000 meters.

Deepsea mineral harvesting presents a number of technical and operational challenges. Commercial success relies upon safety, speed and reliability.

Safety

OSI Minerals™ Merlin™ Deepsea Mineral Riser System is automated, completely hands-free and can be run from either an on-board control cabin or from shore. With automated make-up and break-out, the riser joints remove the possibility of operator error and or fatigue, eliminating the risk of drop, slip, trip, crush, or trapping injuries.

Speed

Automation provides a level of control that cannot be achieved manually. With 40 second make-up, the Merlin™ Deepsea Riser system can reach incredible depths much faster than conventional systems, increasing operational uptime by as much as 50 days per annum.

Reliability

OSI Minerals™ Merlin™ Deepsea Mineral Riser System is based upon the field proven Merlin™ Connector. With in excess of 400,000 Merlin™ connectors successfully deployed across the globe over the past 40 years, Merlin™ has proven its technical, operational and reliability advantages across a wide range of riser systems.

OSIMinerals™ Merlin™ Deepsea Mineral Riser System

Merlin™ Deepsea Mineral Riser System

Our comprehensive riser system design services ensure that your system from harvester to vessel will meet operational and capacity performance requirements in the expected environment. And our systems are the only ones based upon the world-class Merlin™ connector, which provides fast make-up and high performance.

Technical Superiority

The Merlin™ Connector is a non-helical, pre-loaded connector with no moving parts and has excellent fatigue resistance. Consisting of only two parts, Merlin™ rapidly joins two tubular sections without the need for human intervention.

Because it is not threaded, does not require rotation during assembly, and has no moving parts, the Merlin™ connector eliminates many of the issues associated with traditional connectors: galling and torque issues, loss of preload, differing friction coefficients on thread or flange coatings, seized dogs, worn dog profiles and cracked dog surfaces. Its design also eliminates the need for constant cleaning and lubrication. No maintenance is required after assembly.

Merlin™ connectors are easy to inspect and have been extensively wear-tested to ensure long, reliable service life. They are ideally suited to extremely remote environments.



Merlin™ 13 5/8\" Deepsea Mineral Connector

OSI MINERALS™

Sales, Engineering & Manufacturing

EUROPE & EURASIA
2 Heartlands Terrace
Heartlands Business Park
Whitburn, West Lothian
EH47 0SF
Scotland, UK
Tel +44 1506 896 000

ASIA
42-H Penjuru Road
Singapore 609158
Tel +65 6773 7555

Regional Sales

EUROPE & EURASIA
Moss Road
Gateway Business Park
Nigg, Aberdeen
AB12 3GQ
Scotland, UK
Tel +44 1224 290 000

5 Allée des Mésanges
13012 Marseille, France
Tel +33 491 95 60 51

Vagif Mustafazade Street 6/10
1st Floor, Sahibtac Business Centre
Old City, Baku AZ1010
Azerbaijan
Tel +994 12 598 1125
Edificio Zamakona
Muelle Reina Sofia s/n, 35008
Gran Canaria, Las Palmas, Spain
Tel +34 666 991 047

SOUTH AMERICA
Av Presidente Wilson, 231
14th Floor
Bloco 2, Sala 105
Rio de Janeiro, RJ Brazil
CEP 20030-905
Tel +55 21 3554 6644

MIDDLE EAST
HDS Tower, Unit 2209, Cluster F
Jumeirah Lakes Towers
Dubai, United Arab Emirates
Tel +971 4 452 8482

Info@osirenewables.com

osiminerals.com

OSIMinerals™