

MacArtney Underwater Technology

Products and Capabilities

Worldwide Sales and Service Support



- **Group Headquarters**
Esbjerg, Denmark
- **Subsidiaries and Sales Offices**
21 locations in Europe, North America, Asia and Oceania
- **Distribution Network**
20 locations around the world

Founded in 1978 by Martin and Winnie MacArtney
~ 450 employees including group companies

MacArtney operations



Operations and distributors

Denmark | Norway | Sweden | Finland | United Kingdom | Netherlands | Germany | Poland | France
Spain | Portugal | Italy | UAE | Israel | Turkey | South Africa | USA | Canada | Mexico | Colombia | Chile | Brazil
Singapore | China | India | Pakistan | South Korea | Japan | Taiwan | Australia

Three pillars of technology...

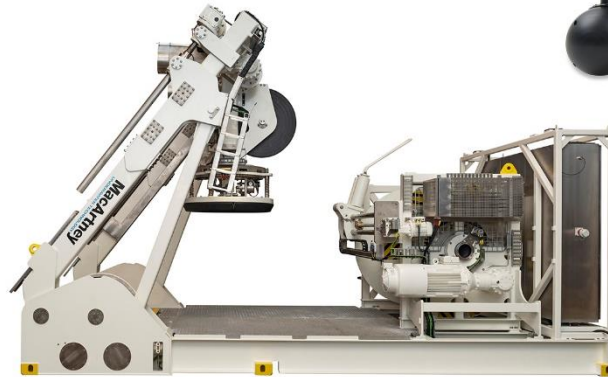
1. Connectivity



2. Data Acquisition



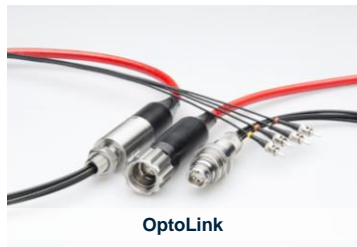
3. Launch and Recovery



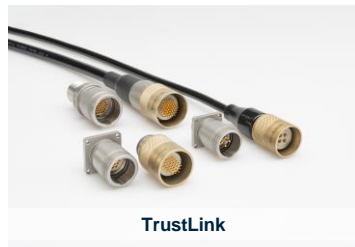
MacArtney brands



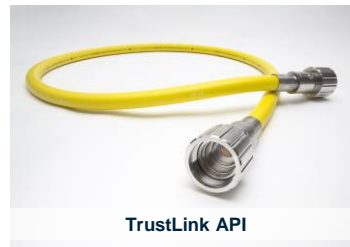
SubConn



OptoLink



TrustLink



TrustLink API



GreenLink



CORMAC



MERMAC



MERMAC eA



MERMAC A



MERMAC D



LUXUS



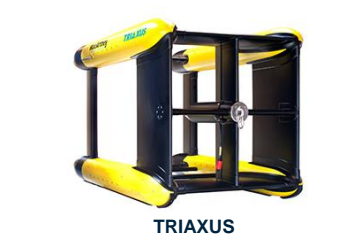
EMO



NEXUS



FOCUS



TRIAXUS



The best rubber connector in the world



Circular series



Micro Low Profile series



Micro Circular series



Ethernet series



Low Profile series



Coax series



High Power series



Metal Shell series



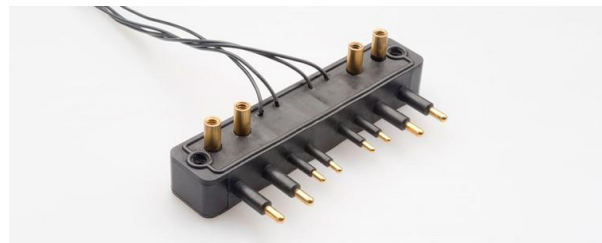
Penetrator series



Specials

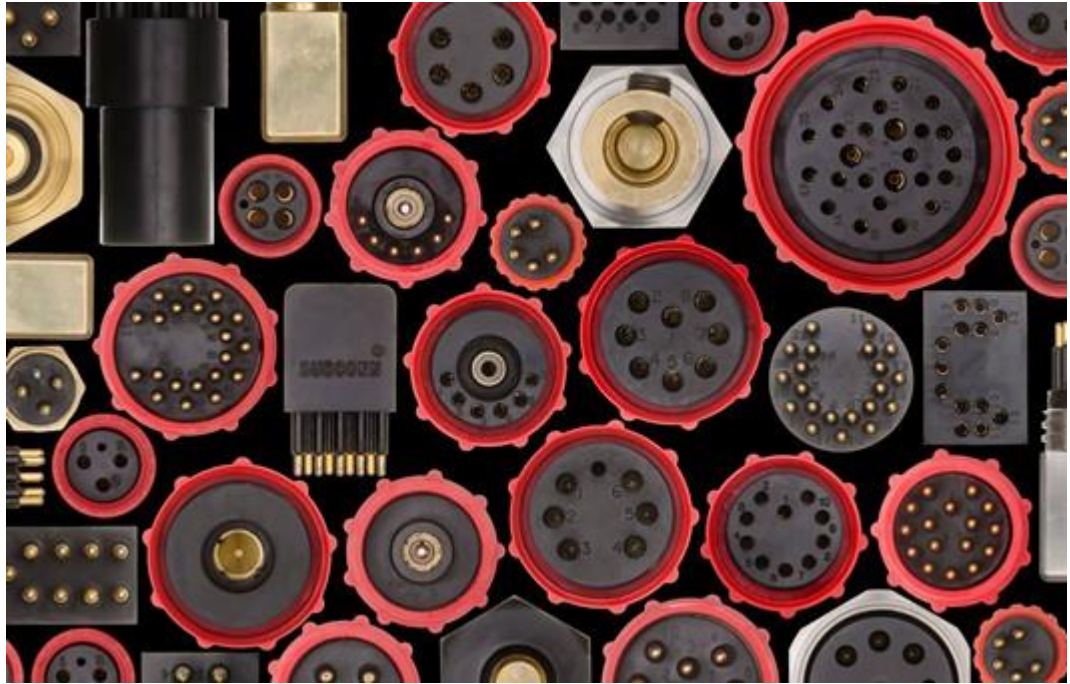


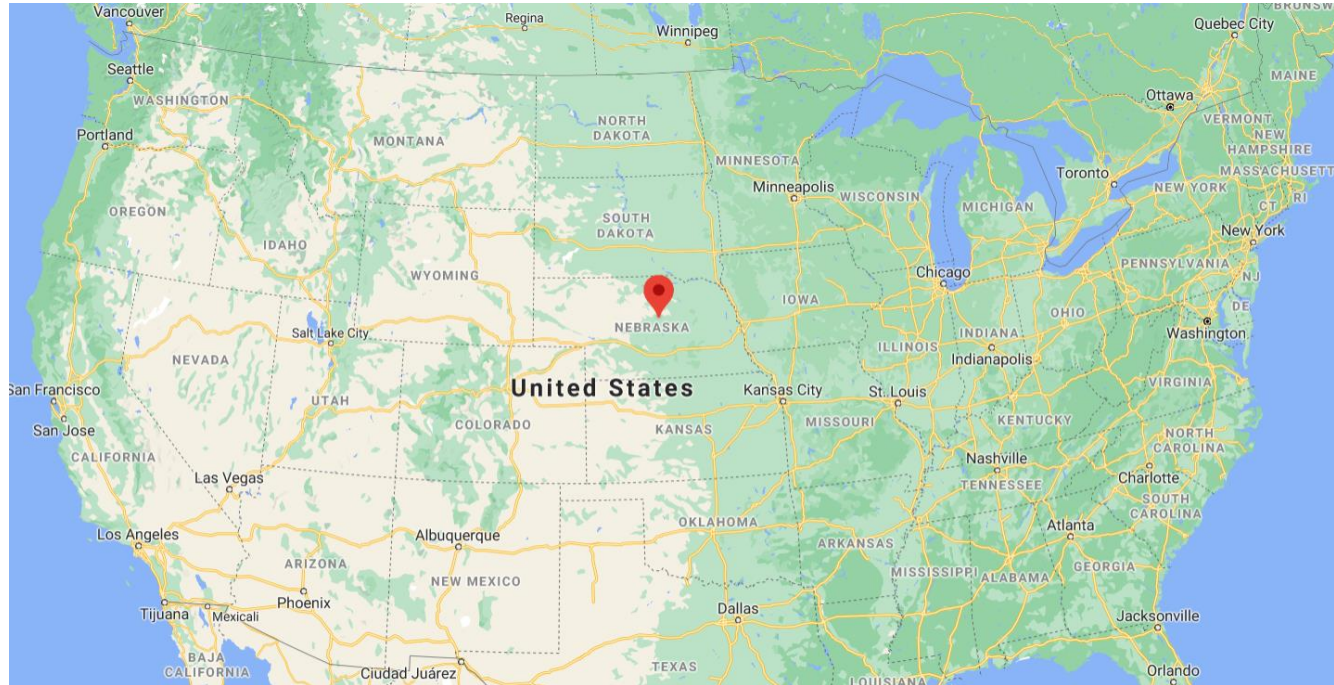
Specials



Specials

- Standards in stock
- 40-year track record of excellence
- Rely on cost-effective, simple, and rugged contact design
- Come in brass, anodized aluminum, stainless steel, and titanium
- Full ocean depth rating





Ironically, SubConn connectors – one of the most widely used subsea connectors in the world - are manufactured in Burwell, Nebraska – 162 miles from the geographic center of the USA.

TrustLink Metal Shell Connectors





Size A
4, 8, 12 contacts



Size B
16, 19 contacts



Size C
26, 37 contacts



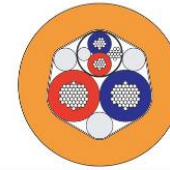
Hybrid
Coming soon

Standard Cables

- Global network of cable suppliers
- Stock standards at SubConn and MacArtney
- Optimized supply of custom cables



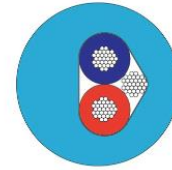
Coax hybrid cables



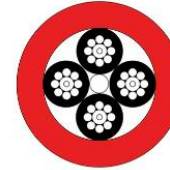
Power & data cables



Power/signal cables



Data cables



Fibre cables



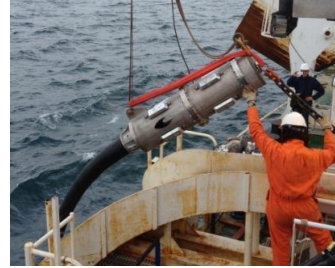
Fibre hybrid cables



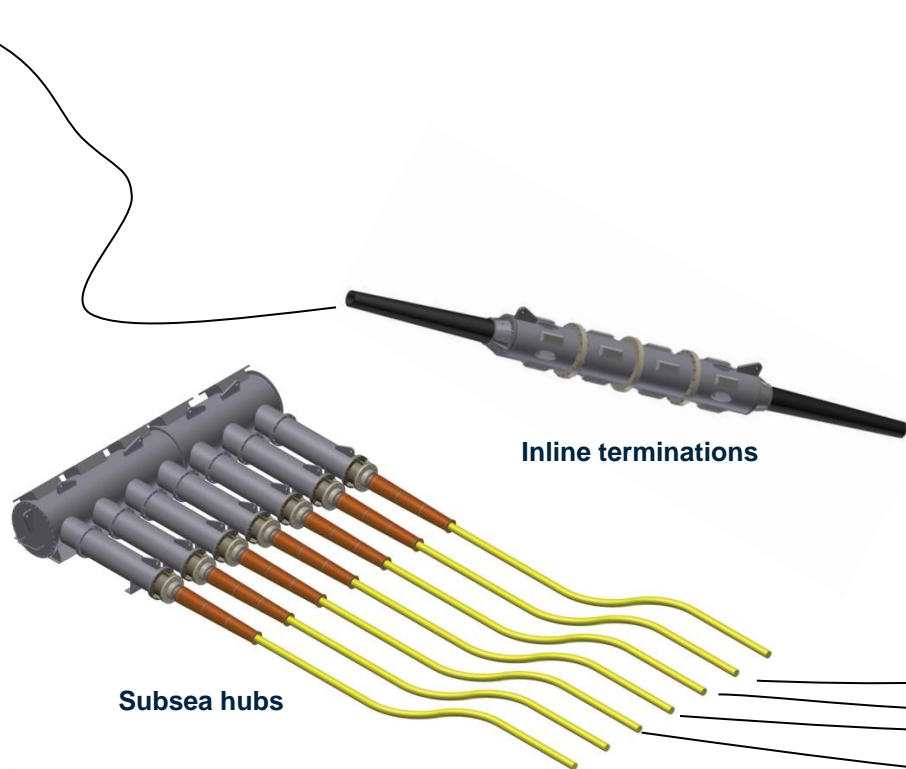
Special cables

Renewable energy solutions

- GreenLink subsea hubs
- GreenLink terminations
- Connectors
- Cables and cable protection equipment
- Engineering
- Construction and design



GreenLink hubs and terminations



Floating wind turbines



Wave energy converters



Tidal energy converters

Renewable energy application



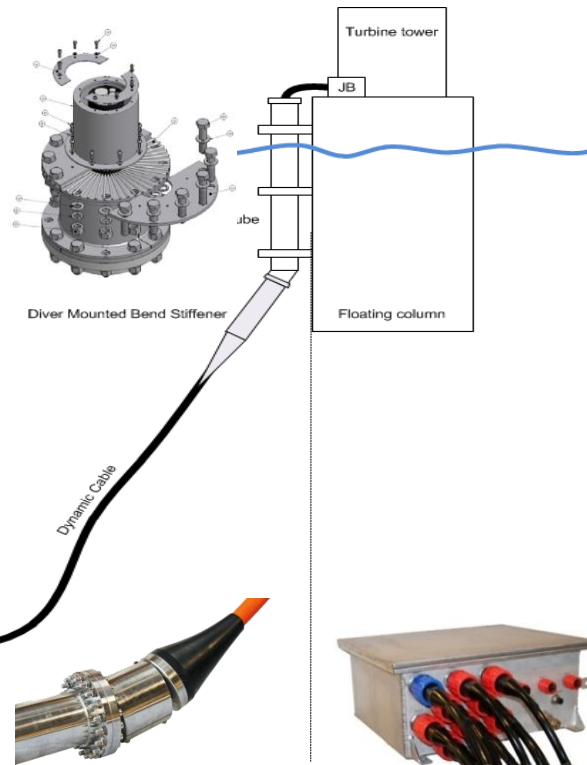
GreenLink inline termination



Mechanical protection



Buoyancy modules



Bend stiffener

Junction box

Multiplexers

EMO 



NEXUS



EMO Nano

Base configuration includes:

- 2x high bandwidth primary channels (HD video, GBE Ethernet, etc.)
- 4x supporting serial channels (additional sensors, camera pan-and-tilt or zoom, LED dimming control, etc.)
- Power switching
- Fiber redundancy
- Up to 6000 m depth rating

A powerful, compact, and lightweight telemetry solution



NEXUS MK 8

Standard configuration includes:

- 3x HD video channels
- 3x GBE Ethernet
- 2x 10/100 Mb Ethernet
- 11x serial (RS-232, 485, 422)
- 3x LED interfaces
- 2x TTL
- Power switching
- Programmable soft fuses
- System health monitoring

One size fits most solution with seamless software integration and modern interface



Multiplexer applications

- Remotely operated vehicles (ROVs)
- Subsea ocean observatories
- Towed systems
- CTD rosettes
- Security, defence, and industrial sensor systems
- Pipe/hull inspection robotics

MacArtney EMO multiplexers are designed specifically for customer requirements

NEXUS multiplexers standardized, highly capable systems for demanding applications

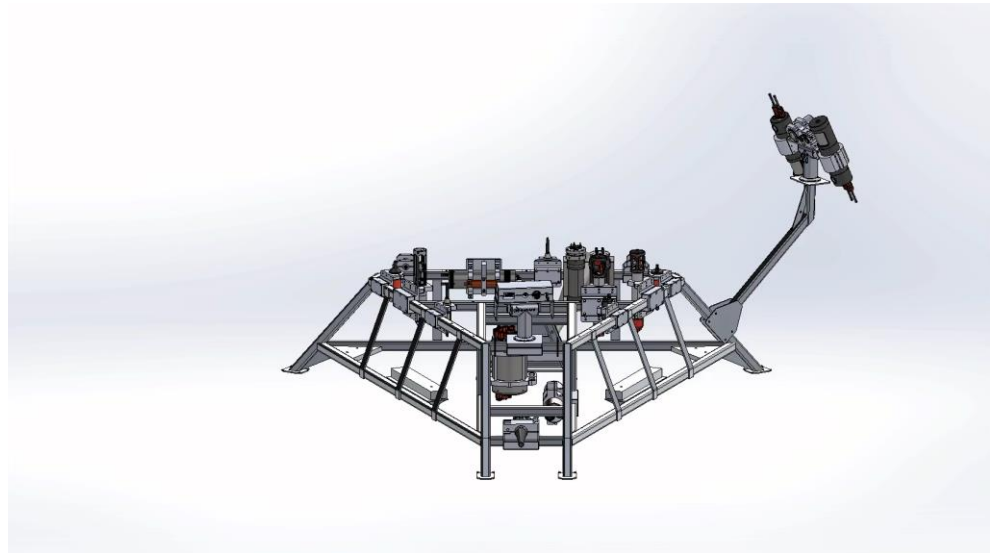


COVE Multi-Sensor Seabed Platform (MSSP) Stella Maris

- Marine instrumentation test bed
- Deployment June 2021
- Follow on contract awarded July 2023 for **4 additional systems**

Custom EMO **DOMINO-7** multiplexer

- Hydrophones
- Imaging sonar
- CO2
- Phosphate
- HD video
- Imaging laser
- Lights



ROTVs

- FOCUS and TRIAXUS ROTV systems
- Highly stable, maneuverable, effective, and efficient towed sensor data acquisition platforms
- Allow for the optimal utilization of ship time for underway data collection
- Applications include:
 - Bathymetry
 - Sub-bottom profiling
 - Pipeline inspection
 - Oceanography

The result of 25 years of constant product development from customer feedback



LUXUS

Cameras and LEDs



**LUXUS Compact
PUR camera**



**LUXUS Compact
camera**



**LUXUS HD
Inspection
camera**



**LUXUS Compact
PUR LED**

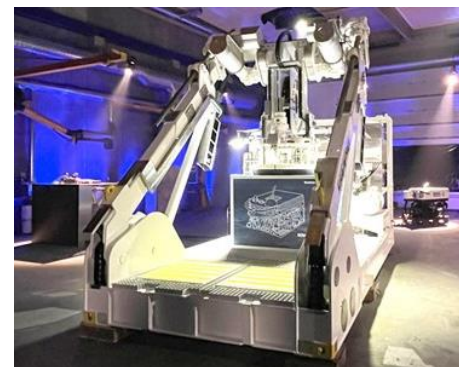
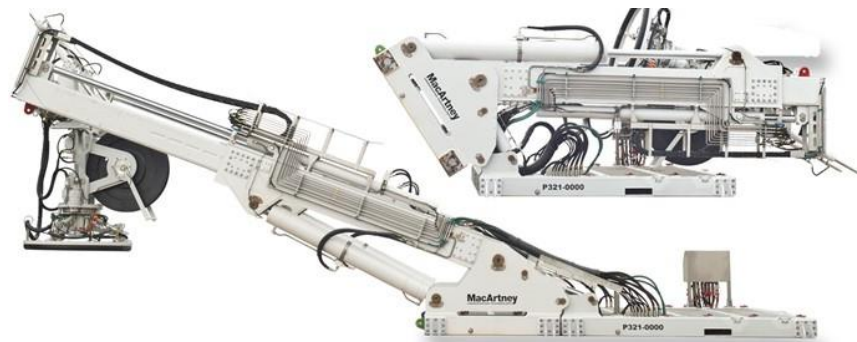


**LUXUS Compact
LED**



**LUXUS
High-Power LED**

Winches and handling systems



CORMAC B series winches

- Manual or electric motor drive
- Small, lightweight, and portable
- Designed for use with Focal 180 slip ring
- Suitable for cable storage or light weight handling applications, including:
 - Class I ROV work
 - Underwater camera systems
 - Oceanographic equipment
 - Diver communications
 - Marine instrumentation

Rugged, transportable cable reel for lightweight applications



CORMAC M series winches

- Greater robustness
- 316 stainless steel construction
- Highly customizable:
 - Mechanical or electrical level wind
 - Panel, remote, or wireless control
 - PLC control available
 - A-frame, davit, or deck crane
 - Speed, pull, motor size, cable capacity
 - 5 models: M2, M3, M4, M5, M6



Modular, compact design allowing for flexible installation on vessels with confined deck space

CORMAC Q series winches

- Stainless steel construction
- Electrically driven drum and level wind
- Integrated protective frame
- Frame mounted control panel
- Modular design with options consisting of:
 - PC control
 - Remote control operation (wired or wireless)
 - Cable status indicator
 - A-frame or davit
 - Cable sheave

**5 customizable models (Q2, Q3, Q4, Q5, Q6)
suitable for a wide variety of applications**



MERMAC S series winches

- Developed for use in ocean sciences
- PLC based; programmable
- Automatic operation
- Active tension control
- 4 standard versions (S20, S30, S40, S50) with dozens of options
- Accepts cable diameters of 8.2 mm – 25.4 mm
- 1800 kg – 6250 kg

Intelligent payload launch and recovery for sensitive applications and equipment



MERMAC R series winches

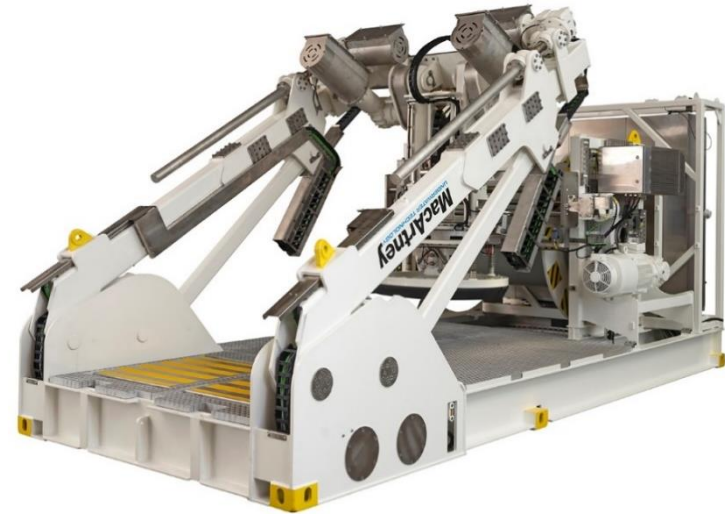
- Designed for the heaviest duty payloads
- Active heave compensation
- Constant tension
- Seamless integration to over-the-side and moon pool handling systems
- PLC based; programmable
- Remote diagnostics tool
- 6 motors for increased power, efficiency, and redundancy
- 5 models: R10, R20, R30, R40, R50

Powerful, intelligent, and fine tuned payload control



eLARS

- Fully electric
- Green; no pressurized oil over water
- Fully scalable
- 50% reduction in maintenance
- Safer operation
- Standardized replacement parts
- High level of redundancy
- Competitive pricing to legacy hydraulic LARS



Worldwide sales and service support



Thank you for your attention

For further information

please visit:

www.macartney.com

or contact us at:

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