The MacArtney Group - providing innovative systems, products and solutions for four decades across the globe
Located in Rousset, in the Bouches-du-Rhône department of southern France close to Aix-en-Provence, MacArtney France operates out of modern office and workshop facilities.

Our multifaceted technical department represents a wide range of design, engineering, construction, testing, technical support, service, on-site maintenance, training and project management resources which, together with our well-qualified and experienced sales professionals, account for the competence and expertise being so essential when working with the most complex underwater projects.

Being part of the MacArtney Group, MacArtney France benefits from the global network which is patent to all MacArtney subsidiaries and sales representatives. Thus, we are backed by the global MacArtney Group network by 24/7 local access to global support.

MacArtney France was founded in 1994 and is part of the MacArtney Group specialising in the design, manufacture, distribution and maintenance of systems and products for customers working in offshore oil and gas, marine renewable energy, ocean science, fishery, defence and civil engineering.

MacArtney France SAS

MacArtney France 1997 - 2018

MacArtney France SAS financial strength and lifespan turnover development.
Our industries

Since 1978, the MacArtney Group has offered industry leading underwater technology products, systems and integrated solutions.

Oil and Gas
The oil and gas industry is constantly evolving and adapting to market needs. Since 1978, the MacArtney Group has been supplying underwater technology solutions to the entire industry value chain. Solutions from the seabed to surface ensure the safe and reliable performance of ROVs for the purposes of seismic and CSEM surveys, cable/pipeline surveys, drill support, construction, IRM and decommissioning.

Ocean Science
Ocean science is continually advancing our understanding and knowledge of the ocean. Acting as a system integrator, the MacArtney Group provides turnkey system solutions to operators and developers within the ocean science community from environmental authorities to research institutes. Our portfolio for this industry includes a vast array of integrated instrumentation systems for oceanographic, hydrographic and hydrometric purposes.

Defence
Leading-edge technology for the world’s defence markets is a must. MacArtney delivers turnkey solutions to the defence industry, supplying connectivity products, instrumentation, deck-and-over-the-side handling equipment, e.g. cables, sonars and winches. Our defence operation covers various fields within hydrography, harbour surveillance, coastal and fisheries inspection, submarines and mine counter measurement.

Civil Engineering
The discipline of civil engineering is extremely broad, characterised by ingenuity and innovation, with endless opportunities to apply new system solutions and technology. MacArtney supplies a wide variety of products to the civil engineering industry including dredging, telecommunications, shipbuilding, tunnel survey, dam structures and inspection.

Renewable Energy
Development of renewable energy is essential in our current economic climate and choosing the right supplier is crucial for the long-term success of offshore renewable energy projects. The MacArtney Group has been actively working with offshore renewable energy projects for over a decade, supplying state-of-the-art solutions to wave, tidal and offshore wind applications for projects around the world.

Fishery
Fishing is a historic industry that has undergone immense change over the decades. Both commercial fishing and aquaculture markets need to remain competitive and abreast of technological advancements. Beyond standard products and systems, several of the MacArtney solutions supplied to fishery markets comprise of custom designed and engineered systems tailored to accommodate advanced customer specifications.
Interconnectivity

Since our Group foundation in 1978, connectivity has taken a special position at the core of the increasingly system solution-oriented MacArtney organisation.

Even today, any connectors, cables, terminations, junction boxes, and everything beyond and in between are involved in pretty much activity that we conduct. In many ways, connectivity and integration have paved - and still pave - the way for most other innovative MacArtney products and systems.

All MacArtney connectivity solutions have been designed, built and tested for use under extreme conditions and have established a track record of uncompromised reliability in harsh marine environments.

**Connectivity for everyone, everything and everywhere**

MacArtney designs and manufactures state-of-the-art connectivity solutions and products for any application within all maritime industries including offshore oil and gas, marine renewables, ocean science, civil engineering, defence, fisheries, and diving.

Key technologies include wet and dry mateable power, signal and optical connector solutions, terminations and penetrators, under the renowned SubConn®, TrustLink and OptoLink brands, GreenLink termination solutions as well as subsea cables from leading manufacturers. Besides, MacArtney supplies an endless list of custom connectivity solutions including specially moulded cable assemblies, bespoke interconnect solutions and junction boxes.

**Case study**

**Underwater infrastructure challenge**

MEUST* project representing a second generation deepsea neutrino observatory infrastructure case has been integrated in the European network of neutrino telescope KM3NeT and deep sea observatory EMSO**.

In partnership with Teledyne ODI, MacArtney supplied underwater mateable connectors (photo above) for this MEUST neutrino observatory project, which represented the km³ scale successor of the revolutionary ANTARES underwater neutrino telescope, for which MacArtney supplied all cables and connectors.

The MEUST infrastructure was installed in the Mediterranean approx. 45 km off Toulon, France, at 2500 m water depth.

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* Mediterranean Eurocentre for Underwater Sciences
** European Multidisciplinary Seafloor and water-column Observatory
Choosing the right supplier is crucial to the success of renewable energy projects
The MacArtney Group has been actively working with offshore renewable energy projects for decades, supplying high-end solutions to wave, tidal and offshore wind applications and projects around the world.

Transferring energy and essential data
Subsea interconnectivity and infrastructure plays an important role in the offshore renewable energy sector; gathering the energy is just part of the equation. Our range of cables, terminations, connectors, penetrators, underwater hubs, and junction boxes is ideal for both transferring power and data for renewable energy systems.

The ‘Sabella D10’ tidal stream turbine interfaced by MacArtney connectivity
Complete MacArtney connectivity solution has been used by French marine renewable energy pioneer SABELLA in cable operation connecting a tidal turbine to an onshore grid.

The successful operation was carried out in the Fromveur Passage, off the island of Ushant, France, and the future outcome of this solution is a coverage of 15 to 20 percent of the Ushant island’s electricity consumption needs. The ‘Sabella D10’ tidal stream turbine project includes two drymate GreenLink connectors, one linked with the turbine, the other one connected to the export cable. They were eventually lifted out of the water and connected to one another.

Deployment of tidal turbine in the Fromveur Passage.

Funded by ETI, MacArtney has developed and supplied an industry-first GreenLink 11 kV wet-mate connector which eliminates the need to bring cables to the surface.

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GreenLink inline termination connects a tidal turbine to the grid (image courtesy of Andritz Hydro Hammerfest).

GreenLink inline termination deployed to connect multiple tidal turbines within an offshore tidal farm to a central power conditioning unit.

Principle Power deployed a full-scale prototype windfloat installation 5 km off the coast of Aguçadoura, Portugal. This system has produced in excess of a two-digit GWh amount of electricity delivered by sub-sea cable to the local grid. The structure was completely assembled and commissioned onshore before being towed some 400 km along the Portuguese coast.
Complete instrumentation system solutions

MacArtney France Instrumentation packages

Providing the link between surface and seabed

In the MacArtney universe, ‘Data Acquisition’ covers a vast group of products and systems used each in one way or another for sampling data, which characterise real world physical conditions, observe and record natural, underwater environments, and man-made subsea structures and transmit the data and observations to the surface in real time.

An agelong track record of supplying in-house developed and manufactured, innovative and highly versatile data acquisition systems testify to the various ranges of telemetry solutions, remote technology systems, underwater camera and light systems and a vast variety of underwater technology instruments provided through many years.

We supply first class fully operational hydrographic and oceanographic systems, from the initial study to the supply, commissioning, installation, harbour, and sea trials as well as operator training.

MacArtney France is the exclusive Kongsberg representative in France of hydrographic products. We also supply Valeport oceanographic and hydrographic instrumentation to the French market as well as EdgeTech products.

Instrumentation concepts include among others:

- **Oceanographic instruments:**
  Current meters, tide gauges, sound velocity sensors and profilers, CTD and multiparameter instruments.

- **Acoustic instruments:**
  Sonars and altimeters, side scan sonars, and sub bottom profiler systems.

- **Hydrographic instruments:**
  Hull mounted and profiling sound velocity, single-beam and multibeam echo sounders, attitude sensors, and ROTV systems.

- **Cameras, lights, and controllers:**
  LED, power and high-power lights, compact, high-definition, low-light and colour-zoom cameras, and media controllers.
Leading-edge technologies ensure reliable and high bandwidth data acquisition

The requirement for reliable transmission of large amounts of data and video from subsea and seabed installations, ROVs, and ROTVs increases concurrently with the development of more bandwidth sensor suites.

Telemetry systems provide the solution to the common need to transmit data reliably, quickly and cost effectively from remote locations.

Ocean engineering projects inevitably require that tailored instrumentation suites are put together for the specific needs of a certain project. This can be very time consuming, particularly when it comes to interfacing all the sensors together.

The MacArtney ROTV systems provide a robust, user-friendly, accurate, steerable, open, and flexible instrumentation platform which can be deployed for a variety of underwater data acquisition and inspection applications.

The FOCUS ROTV vehicles can operate a number of acoustic survey sensors and instruments simultaneously ensuring maximum usage of ship time. The GUI is an easy-to-use Windows based software package. The system has been designed to carry a broad range of sensor packages from leading manufacturers of underwater equipment.

MacArtney’s range of multiplexers includes both the NEXUS and the EMO brands. The core technology of both EMO and NEXUS multiplexers guarantees engineering capabilities and multiannual experience enabling us to supply standard and customised solutions for a wide variety of marine and subsea applications.
MacArtney offers a range of high-tech and rugged winch and handling systems. Embracing the CORMAC and MERMAC standard series along with a wide range of customised and bespoke solutions - all backed by comprehensive training, service and testing - MacArtney has a handling solution to suit any marine application and purpose.

MacArtney systems are continuously involved in the safe and efficient launch and recovery of ROVs, towed systems, corers, drills, ploughs, pumps, sonars, sensors, diving systems, and a vast range of other equipment types, under harsh maritime conditions all across the globe.

**Standard and custom winch and handling systems**

Apart from their extreme functionality and reliable features, winch and handling systems based on proven MacArtney standard designs offer several advantages to customers including reduced delivery time, lower costs and standardisation of spare parts.

Beyond standard winch and handling systems, MacArtney supplies a broad range of advanced customised solutions including complete vessel moon pool handling systems and winches for military, container integrated, underwater, and arctic applications.

**System integration**

The MacArtney Group has the unique ability to provide a full system solution integrating new developments and proven technology which is of crucial importance when adding value to our customer.

**Oceans of solutions**

MacArtney delivers a broad range of special winch and handling solutions and we offer design and engineering support for custom handling system projects all across the globe. These special systems are used in offshore, subsea, defence, scientific, civil engineering, and nuclear projects throughout the world. Projects often involve close cooperation with our customer to identify technical needs and expectations. MacArtney offers engineering expertise in electrics, hydraulics, mechanics, hydrodynamics, fibre optics, electronics, and software.

From draft to delivery, MacArtney systems are fully supported by extensive in-house test facilities and quality system procedures.

Procedures, charts, and management routines are developed in compliance with ISO 9001:2015.
The MacArtney Group supplies and services a wide range of integrated systems and products designed, developed and manufactured by MacArtney. Our range of fast, versatile and precise remotely operated towed vehicles (ROTV) includes the MacArtney FOCUS and TRIAXUS vehicles.

MacArtney product lines also include underwater connectivity systems (SubConn®, OptoLink, TrustLink and GreenLink), advanced NEXUS fibre optic telemetry systems, electric CORMAC and MERMAC winch and handling systems available with active heave compensation for ROV systems, and the LOTUS data acquisition and telemetry buoy system.

In addition, MacArtney products include the CEMAC offshore cable handling equipment, hydrostatic pressure vessels and a versatile range of LUXUS underwater cameras and lights. MacArtney are also trusted representatives of other leading manufacturers of underwater products.
Global service - local support

MacArtney offers an extensive range of service solutions and packages to product and system customers across the world.

From accurate sensor calibration performed by highly trained oceanographic specialists, through advanced hydrostatic pressure testing and expert workshop services to complete training and service programmes for owners and operators of MacArtney products and systems, MacArtney provides solutions which can sustain and increase the value, efficiency, performance, and service life of your specific system.

Global moulding and cable assembly services
Empowered by a network of dedicated moulding and cable assembly workshops located across the globe, we are able to handle any type of order - from large scale series production of cable and connector assemblies to highly advanced one-off custom moulds.

The right hands with the right tools
Our workshops allow us to provide fast and reliable solutions for all electrical and fibre optic wiring, testing, mechanical termination, and moulding needs.

Operating out of a purpose designed in-house workshop equipped with the latest tools and equipment, our service facility is capable of performing complete refurbishment, repair and maintenance of e.g. Focal slip rings.

Our experienced technicians are trained to the highest levels possible and have access to the latest production technology and materials to aid them in their work.
MacArtney France provides a local moulding and cable assembly workshop, a fibre optics workshop as well as a hydrostatic pressure vessel test facility in Rousset.

The well-equipped workshops hold the latest production and testing tools including OTDRs and fusion splicing equipment.

In the moulding and cable assembly workshop, technicians have access to computerised moulding technology including state-of-the-art mixing machines which are computer controlled to provide accurate mix and material flow ratios allowing flexibility and precise control of shore hardness.

From the fibre optics workshop, our team of experienced fibre optics technicians produce and service the range of MacArtney OptoLink fibre optic connectors, penetrators, and assemblies along with custom fibre solutions.

Hydrostatic pressure test facility
At Rousset, we offer access to cutting-edge hydrostatic pressure test facilities and services. Empowered by our own purpose built pressure vessels we are able to put almost any type of underwater equipment to the test.

Organised around a pressure vessel boasting a hydrostatic test capacity of 600 bars, equivalent to the pressure found 6000 meters underwater, our in-house hydrostatic pressure test facility is capable of putting underwater technology products and systems to the test. MacArtney’s own control software allows bespoke test programmes and repeated pressure cycling to be carried out.

The pressure vessel has an internal diameter of 650 mm and a useable internal height of 1100 mm. This, along with a 4000 kg overhead crane, allows for the testing of large and unwieldy equipment. The entire hydrostatic pressure test facility is available for rent with the assistance of specialist MacArtney technicians. Full test reports can be provided in the form of a printed graph or as data log.

On-site interventions
Offering locally based service on a global scale, MacArtney is always represented in the vicinity of our customers facilities. To identify and fully understand customer expectations we provide technical assistance services on our customer’s site, thus being empowered to intervene and make service and repair locally.