





CAETRA Programme: Dual-Use Technology Ecosystem (Region of Murcia)

CAETRA is a regional initiative led by the Economic Development Organization of the Murcia Region (INFO) to boost R&D, innovation, tech entrepreneurship and international cooperation/tech transfer in dual-use technologies—Defence, Security and Post-disaster Rebuilding—co-funded by ERDF & ESF.

It strengthens a growing ecosystem of SMEs, start-ups and institutions capable of supplying solutions to national and international defence and reconstruction projects.





> Who it's for ↘

Innovative SMEs and start-ups developing dual-use tech; technology centres, universities and research groups; established companies seeking access and certification for defence markets; public bodies and operators working in security, emergencies and rebuilding; plus investors and international partners connected through CAETRA's European networks.

> What CAETRA offers

Targeted support: R&D and certification assistance, partner search and access to European funds; networking and brokerage to match real military/industry needs; training and start-up acceleration (incl. investor forums and the “Bloque Técnico” accelerator). Practical “Caetra Guides” help firms navigate NATO tendering, DGAM registration, PECAL/AQAP quality assurance and industrial security clearances.

What's in this catalogue

This dossier compiles **individual profiles** of the companies participating in the **Reconstruction Section** of the CAETRA Program, highlighting their expertise, technological capacities, and experience in **post-disaster recovery**.

This specialization also stems from the region's industrial base in **engineering, construction, and advanced manufacturing**, as well as its experience in recovery processes after natural disasters, making the Murcia Region a strategic partner for international reconstruction efforts.

What are the technologies



Mobility

Off-road mobility vehicles
Helmets



Construction

Construction – Prefabricated
Security Doors



Energy

Energy Efficiency and Solutions
Portable Renewable Energy Installations
PV Generation
Electrical Assembly
Power Generators
Energy Storage Solutions



Technology

Emergency Management
Digitalization
Contamination detection
Chemical analysis
Smart City Technologies
Secure Communications



Water

Mobile Drinking Installations
Mobile Wastewater Treatment
Portable Water Analysis Equipment
Portable Water Purification
Water Treatment, Purification and Decontamination
Membrane Technology
Irrigation Reservoirs



Industrial Facilities

Piping, Structures, Equipment
Storage Tanks
Desalination Plants
Petrochemical Equipment
Food Process
Pressure Vessels
Machinery
Maintenance – pressure equipment
Waste recovery



Agritech

Greenhouses
Farm&Greenhouse Automation
Electronic Equipment
Irrigation with Renewable Energy
Smart Agro Control





General Information

Company: CORVUS INNOVA S.L.

Sector: Utility Task Vehicles (UTVs).

Year of Foundation: 2017

Number of Employees: 80



Specialisation

CORVUS has established itself as a benchmark in professional off-road mobility for personnel transport and auxiliary tasks. Its vehicles are specifically designed for sectors such as agriculture, livestock, construction, mining, and military use.



Experience and Key Projects

Since its foundation, CORVUS has become the first and only Spanish and European manufacturer of professional UTV off-road vehicles.

Today, it has a distribution network covering the entire European continent and is expanding into other international markets such as Israel and Australia.

Notable project: The recent acquisition of 64 units by the Spanish Air and Space Force. [Read more](#)



Technical capacity and certifications

CORVUS designs and manufactures its own technology, following European quality standards.

This value proposition has enabled the company to consolidate its brand in the European market from the ground up since 2017.

Relevant International Certifications

- **ISO 9001:** Certifies the company's quality management system, ensuring efficient processes, continuous improvement and customer satisfaction.
- **PECAL certification:** Currently in the process of being obtained.



CONTACT

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General Information

Company: NZI Technical Protection, S.A.

Sector: Automotive Industry

Year of Foundation: 1983

Number of Employees: 29

Expertise in Manufacturing Protective Equipment

- Manufacturing of helmets and PPE specialised in head protection:
 - Certified motorcycle helmets (R22.06, FMWSS 218, NBR 7141...).
 - Riot control helmets.
 - Industrial protection helmets EN 396.
- Specialised helmets for sports such as roller hockey or specific developments like the Casteller helmet.
- Manufacturing of composite material parts.



Experience

NZI Technical Protection, S.A. is a Spanish company based in Yecla (Murcia), renowned for its expertise in manufacturing safety products, especially motorcycle helmets.

The company has produced more than 21 million helmets sold in over 40 countries worldwide.

While motorcycle helmets remain its core business, its mastery of composite materials technology, plastic injection and in-house facilities in Spain provide the technical capability to diversify production into other safety products, such as:

- Riot control helmets
- Industrial safety helmets
- Padel rackets
- Specialised niche helmets (e.g. for castellers or roller hockey)



Technical capacity and certifications

Helmet certifications:

- UN/ECE R.22.06 (United Nations)
- FMWSS 218

International standards:

- ISO 9001
- 11960 COP UCA – C1 36232301D
- COP VCA – XCB005539



CONTACT

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General Information

Company: ALQUIBARSA
Sector: Industrialised Modular Construction
Year of Foundation: 1982
Number of Employees: 24

Reconstruction Specialism

Construction of emergency housing (and other infrastructures) through prefabricated modules optimised for rapid assembly, efficient transport, and high durability.



Experience and Key Projects

Recent Project: Construction of a facility comprising 420 prefabricated modules within a very short execution timeframe.

Project video: [YouTube link](#)

Established Track Record: Over 250 modular buildings currently available for rental and 6,000 modules in circulation for projects of varying scale.



Technical capacity and certifications

Certifications:

- ISO 9001 (Quality)
- ISO 14001 (Environment)
- ISO 45001 (Occupational Health and Safety)

Technologies and Methodologies:

- Use of recycled materials and a focus on logistical efficiency
- Prefabricated concrete floor system with optimised structural design





General Information

Company: Puertas Padilla S.L.

Sector: Manufacturer of Metal Doors (fire-rated, security and specialised doors)

Year of Foundation: 1987

Number of Employees: 250

Expertise in Reconstruction

- Manufacturing of fire-rated metal doors for residential, public, hospital and industrial use.
- Security, armoured, acoustic, anti-radiation and anti-explosion doors.



Experience and Key Projects

Project name: Supply of anti-radiation doors – Chernobyl Nuclear Power Plant (critical infrastructure reconstruction)

Location: Ukraine

Description: Manufacturing of special single- and double-leaf doors for the lower closure of the protective sarcophagus of the damaged reactor.



Technical capacity and certifications

Certifications:

- ISO 9001:2015 and ISO 166.002.

Manufacturing standards:

- UNE-EN 1634-1, UNE-EN 1363-1, UNE-EN 13501-2 and NFPA 252.

Capabilities:

- Robotised production systems and proprietary distribution and logistics systems.





General Information

Company: CETENMA
Sector: R&D&I
Year of Foundation: 2000
Number of Employees: 34

Expertise in Reconstruction

- Specialists in energy efficiency, power generation and storage from renewable sources and green hydrogen.
- Development of advanced energy solutions for integration into critical infrastructures.
- Design of solutions for water supply and the subsequent reconstruction of infrastructures.



Experience and Key Projects

- Design, 3D modelling and energy simulation of energy solutions for the rehabilitation and reconstruction of buildings and infrastructures.
- Design of water treatment, reuse and purification facilities.

Project: SUDOE ENERGY PUSH (Efficient ENERGY for Public Social Housing)

Development of energy solutions using renewable sources and rehabilitation methodologies based on BIM for social housing in Spain.

Results: Zero-emission pilot housing in Cantabria; rehabilitation of social housing in Granada.



Technical capacity and certifications

Certifications:

- ISO 9001 (Quality)
- ISO 14000

Technologies and Methodologies:

- Design of energy supply systems in emergency situations or isolated locations.
- Design of compact, transportable water treatment plants (drinking water production and wastewater treatment) adapted to different water sources and operating conditions.
- BIM for infrastructure design and management.
- Energy simulation of buildings and rehabilitation solutions.





Dami Chemical



Expertise in Reconstruction

- Supply of basic chemical resources for industry.
- Portable renewable energy installations.
- Soil decontamination, recycling and waste recovery.
- Chemical analysis, process design, assembly and operation of chemical plants.



Experience and Key Projects

Project: Analysis and decontamination of environments in south-eastern Spain

Brief description: Analysis of multiple sources of contamination from industrial and mining activities affecting riverbeds, aquifers, etc., posing risks to human health and the environment.

Results:

- Identification of several highly contaminated sites in the Region of Murcia.
- These sites, polluted by residues from former industrial and mining activities, significantly affect ecologically important and vulnerable areas such as the Mar Menor.
- Contaminants are leached into the subsoil by rainfall and transported via sand layers and underground rivers to the sea and watercourses.
- Implementation of physical and chemical decontamination processes, with innovative water treatment techniques successfully applied in Seville (Cobre Las Cruces).



Technical capacity and certifications

- **Relevant certifications:** Hazardous Waste Management (SEPE).
- **Innovative technologies and methodologies:** Advanced development of physical and chemical processes for the decontamination of industrial and mining residues.



General Information

Company: DAMI CHEMICAL TECHNOLOGIES SLU

Sector: Extractive Metallurgy

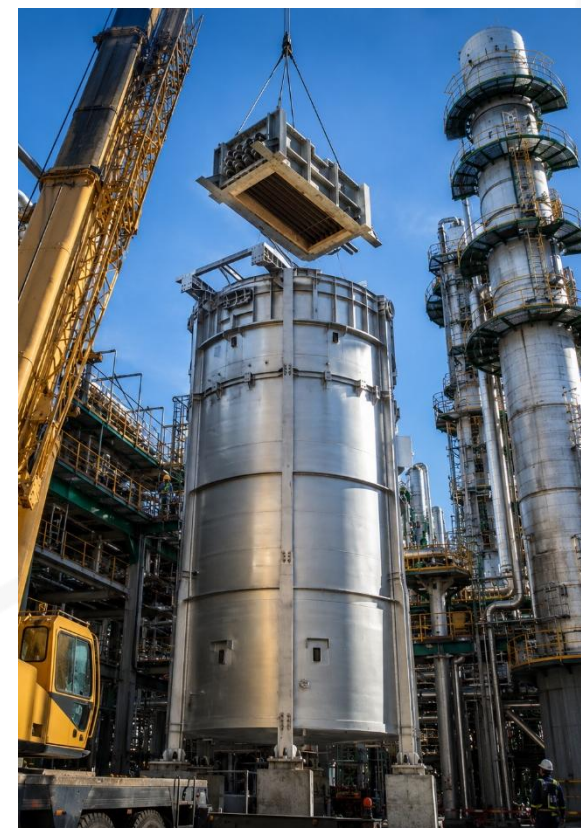
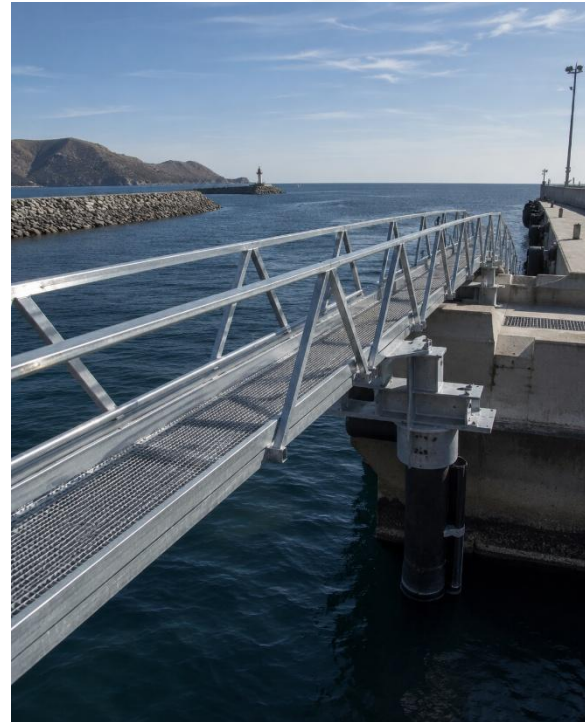
Year of Foundation: 2023

Number of Employees: 1



CONTACT

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General Information

Company: Metalmecanicas Herjimar SL
Sector: Metalworking
Year of Foundation: 1995
Number of Employees: 200

Expertise in Reconstruction

- Piping, metallic structures, tanks, machinery and industrial equipment.
- Fabrication and repair of welded assemblies for critical infrastructures.
- Industrial support for desalination, petrochemical, naval, port and energy facilities.
- Maintenance and refurbishment of damaged metallic assets.
- Pressure vessels, valves and auxiliary systems.



Experience and Key Projects

Project: Industrial fabrication and maintenance for critical infrastructure in southeastern Spain

Brief description: Herjimar provides fabrication, repair, maintenance, and integration of metallic structures, piping, tanks, machinery, and industrial equipment for naval, port, energy, desalination and petrochemical facilities.

Results:

- Metallic elements and port structures: buoys, cranes, walkways, supports, and auxiliary structures.
- Metallic structures, bridges, platforms, tanks, frames, and welded assemblies.
- Proven expertise delivering projects in energy, petrochemical, water, desalination, industrial, and naval environments.
- Maintenance and repair of industrial equipment, valves, and piping.
- Reconstruction, recovery, and adaptation of damaged metallic assets.
- Quality, welding, traceability, and technical documentation compliant with stringent standards.



Technical capacity and certifications

• **Certifications:** ISO 9001, ISO 14001, ISO 45001, EN ISO 3834-2, EN 1090-2 EXC3, EN 15085-2 CL1, PECAL 2110.

• **Capabilities:** Qualified welding, metal fabrication, industrial maintenance, valve testing, dimensional control and technical documentation.





General Information

Company: IMPROGENIA PROYECTOS SLP

Sector: Engineering and project management with a collaborative model (CNAE 7112).

Year of Foundation: 2020

Expertise in Reconstruction

- Engineering of electrical installations for photovoltaic generation (low and high voltage).
- Solar parks, self-consumption and solar pumping.
- Project Management.
- Technical site management (Technical Direction and Health & Safety Coordination) for construction works.
- Engineering and technical management of civil works for irrigation reservoirs made of loose materials, with associated hydraulic works and solar pumping.
- Technical inspections with drones: data collection for engineering designs, aerial thermography and civil works staking.
- EPC design and management of machinery projects (electric vehicles, conversion of combustion vehicles to electric, etc.).
- Technical consultancy for the optimisation of industrial company operations using Lean Management.
- Interim Portfolio Management, Project Management Consultancy (PMC), audit of photovoltaic installations (according to IEC 62446-1), etc.



Experience and Key Projects

- Design and Technical Management of a new 30,000 m³ irrigation reservoir with 704.9 kWp solar pumping system in Cieza (Murcia, Spain).
- Design and Technical Management of floating photovoltaic installations: 109 kWp in Santomera (Murcia, Spain) and 133 kWp in Mula (Murcia, Spain).
- Design and Technical Management of photovoltaic installations for the municipalities of Rafal (Alicante, Spain).
- Ongoing project: process optimisation and continuous improvement for the Directorate-General for the Environment of the Region of Murcia.



Technical capacity and certifications

- Project management methodologies used: FEED, PM², hybrid projects (waterfall + agile), following PMBOK best practices.
- Tools and approaches: BIM for engineering design, LEAN STARTUP methodologies for new business development.
- Certified SME by ENISA as a start-up with innovative and scalable entrepreneurship.
- Certified UAS operator by AESA (Spanish Aviation Safety Agency). Drone pilots accredited under STS-01/02.
- Project Managers with multisectoral experience and certified as Project Management Professionals (PMP) by PMI.
- Integrated Management System (IMS) implemented and in process of certification according to ISO 9001, ISO 14001 and ISO 45001.



CONTACT

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General Information

Company: Pramac
Sector: Energy Solutions
Year of Foundation: 1996
Number of Employees: 1100

Expertise in Reconstruction

- Power generators.
- Energy storage systems.
- Customised energy solutions.



Experience and Key Projects

Project name: Supply of generators and lighting towers

Location: Ukraine

Brief description: Supply of generators to provide electricity in conflict areas of Ukraine deprived of power supply.

Results: Infrastructure and households gained access to electricity.



Technical capacity and certifications

Relevant international certifications:

- ISO 9001, ISO 14001, OEA.

Innovative technologies and methodologies:

- High-capacity battery energy storage systems up to 2000 kWh.
- Sustainable power generators.





Expertise in Electrical Installations

- Industrial maintenance in High and Low Voltage.
- Electrical assembly.
- Renewable energy installations.



Relevant Experience

- Cabling and wiring of submarines.
- Comprehensive maintenance of facilities at the Navantia Shipyard in Cartagena.
- More than 10 years of experience in the naval sector.



Technical capacity and certifications

Relevant international certifications:

- ISO 9001, ISO 14001, ISO 45001 and SA 8000.

Specialisations:

- Military connectors
- Telecommunications
- Photovoltaic installations
- Hydrogen plant assembly
- Repair and commissioning of transformers and motors
- Air conditioning and energy efficiency
- EV chargers



General Information

Company: INTEGRALIA ENERGÍA

Sector: Electricity

Year of Foundation: 2012

Number of Employees: 68





General Information

Company: Civilio Information Systems, S.L.

Sector: Information and Communication Technologies (ICT)

Year of Foundation: 2023

Number of Employees: 3

Specialisation in Emergencies

- Emergency management
- Real-time coordination and assessment
- Digitalisation of geo-referenced data for the creation of maps and digital twins



Experience and Key Projects

Project name: Damage assessment and coordination after the DANA storm

Through the Civilio platform, more than 150 architects and volunteers worked across 11 municipalities in Valencia and surrounding municipalities, centralising essential data and generating detailed maps to prioritise emergency actions.

Results: Around 6,000 homes assessed within the first few days of the operation.



Technical capacity and certifications

- **Innovative technologies and methodologies:**
 - Cutting-edge technology platform for risk management and crisis coordination.
 - Supports decision-making and ensures a rapid, organised response of resources.
 - Comprehensive approach combining geospatial technology with real-time field data collection, creating a digital twin of the disaster

- **Relevant international certifications:**
 - Civilio is a start-up currently applying for the EIBT seal.
 - Selected for the DefenceTech Accelerator by CEEIC and the Regional Development Agency of Murcia (INFO).





General Information

Company: Centro Tecnológico de Materias Primas Minerales y Materiales (CTM)

Year of Foundation: 1996

Number of Employees: 22

Expertise

System for detecting contaminated areas caused by the accumulation of mining waste following natural disasters (DANAs).



Description and Projects

Brief description: Acquisition and analysis of hyperspectral images to, among other objectives, detect minerals of economic interest in various Spanish mining operations and to characterise and model both buried and surface heritage.

Projects: ROTATE, HYPOPROCK and PATRIGEO

Location: Spain, France and Norway



Registered at

CTM is registered under no. 136 in the Register of Technological Centres and Centres for Technological Innovation Support, approved by Royal Decree 2093/2008 of 19 December, and under no. 0012032010 in the Register of Entities conducting R&D activities of the Ministry of Industry, Tourism and Trade (Order ITC/570/2006 of 22 February).

It is also registered under no. 164 in the Office for the Transfer of Research Results (OTRI), within the Standing Committee of the Interministerial Commission on Science and Technology (CICYT).





General Information

Company: Metal Technology Centre (CTMetal)

Main Areas: Technological innovation and inspection

Year of Foundation: 2002



Development Centre

- Inspection and control of rescue, salvage and fire protection equipment.
- Collaboration with the Ministry of Defence since 2020 in the inspection of arsenals, naval vessels and land-based equipment



Certifications

Certifications:

- ISO 9001
- ISO 14001
- ISO 45001
- ENAC accreditation
- Registered in the General Directorate of Armament and Material (DGAM) company register, registration no. 1612 (Auxiliary).
- Implementation and documentation of the quality system in accordance with PECAL 2110.



General Information

Company: OdinS
Sector: IoT Solutions
Year of Foundation: 2014
Number of Employees: 37

Areas of expertise

Smart City

Environmental monitoring, noise level and water quality measurement, smart gardens, intelligent irrigation of sports fields, smart waste management, capacity control, access control, fire detection, and more.

Smart Agro

Irrigation control, monitoring of soil, crops, climate and nutrition with advanced sensors, satellite imagery, water consumption monitoring, and IoT solutions for livestock and aquaculture.

Defence

- **5GTB (5G Tactical Bubble):** Portable IoT solution on a standalone or federated private 5G network for tactical field deployment.
- **Securing Drone Communications:** Advanced protection for drone communications and onboard systems.
- **Portable Water Quality Analysis:** Portable electrochemical analysis using voltammetry.



Experience and Key Projects

OdinS has a proven track record in national and international R&D&I projects, with flagship 5G initiatives such as **PROMETEO**, **AGRO6GSENSE**, and **MAS4CARE**, targeting advanced applications like telemedicine in remote areas and digital transformation of the agri-food sector.

We also deliver innovative water quality monitoring solutions, deployed in the Las Moreras WWTP naturalised lagoons and the Campotéjar Lagoons, and lead IoT rollout projects with public and private partners.

Our federated technological ecosystem ensures efficiency, interoperability, and scalability across all solutions.



Technical capacity and certifications

Relevant international certifications:

- ISO 9001, ISO 14001, ISO 27001, ENS – Medium.
- In progress: ENS – High, ISO 9100.

Innovative technologies and methodologies:

- Voltammetric technology for water quality assessment; interoperable technologies with multiple buses and communication protocols (LoRaWAN, NB-IoT, LTE, GNS...); energy flexibility; beyond 5G; secure device management; resilient edge computing; anti-tampering technologies; post-quantum cryptography; secure drone communications and operation.





General Information

Company: ECOHIDRO, Water and Environment

Sector: Water Treatment

Year of Foundation: 2006

Number of Employees: 23

Expertise in Reconstruction

- Mobile drinking water installations from fresh, brackish or sea water.
- Mobile wastewater treatment plants.
- Portable water purification solutions for emergencies.
- Treatment plants powered by renewable energies.



Experience and Key Projects

Project: Mobile water purification units for reconstruction camp settlements

Location: Mauritania

Five mobile water purification units treating well water, transported in UN trucks.

Results: Drinking water supply capacity for around 10,000 people.

Project: Containerised purification units for emergency and reconstruction situations

Location: Bulgaria

Six containerised purification units treating fresh or well water, housed in thermally insulated and air-conditioned maritime containers.

Results: Drinking water supply capacity for around 35,000 people.



Technical capacity and certifications

- **Relevant international certifications:** ISO 9001 and ISO 14001.
- **Innovative technologies and methodologies:**
 - Use of renewable energies to power the equipment.
 - Integration of energy recovery systems to minimise consumption.
 - Water purification capacity without energy requirements (HydroSURVIVE Backpack).





General Information

Company: Hidrotec
Tratamiento de Aguas, S.L.
Sector: Water Treatment
Year of Foundation: 1997
Number of Employees: 18

Expertise in Reconstruction

- Water treatment, purification and decontamination.
- Manufacturing of equipment using membrane technology – micro/ultra/nanofiltration and reverse osmosis.
- Removal of contaminants from drinking water supplies.



Experience and Key Projects

Project name: Ultrafiltration treatment of surface water for public supply

Location: Angola

Brief description: Supply of water in remote areas.

Results: Access to drinking water for the local population.

Project name: Removal of pesticides from public water supply

Location: Chiva, Guadassuar, Cheste, Albalat and other municipalities in the Ribera region.

Brief description: Removal of pesticides from groundwater intended for public water supply.

Results: Access to safe drinking water for the population.



Technical capacity and certifications

Relevant international certifications:

- ISO 9001.

Innovative technologies and methodologies:

- Manufacturing of compact, modular and easily transportable equipment.
- Possibility of installation in a standard shipping container for quick and simple deployment at destination.





General Information

Company: Novedades Agrícolas, S.A.

Sector: Agricultural Services & Technology

Year of Foundation: 1978

Number of Employees: 200

Expertise in Reconstruction – Irrigation Projects

Open-field irrigation projects with renewable energy.



Key Projects

Project: Irrigation systems with automated heads and solar pumping.

Location: Spain.

Description: Irrigation heads with filtering and fertiliser dosing equipment, photovoltaic solar pumping, automation and remote control, reservoirs for woody and fruit crops.

Results: 1,600 plants cultivated with clean energy, rapid payback, higher water efficiency and minimal carbon footprint.



Technical capacity and certifications

Relevant international certifications:

- ISO 9001 – Quality management for the design, installation and maintenance of irrigation systems, fertigation, reservoirs, greenhouses, climate control and water treatment plants.
- ISO 14001 and IQNET recognition – for environmental management.

Innovative technologies and methodologies:

- Specialised engineering team evaluating and designing tailor-made solutions, including full hydraulic and electrical calculations.
- 30,000+ m² of facilities for the manufacturing of fertigation systems and automation technologies.
- Largest assembly team in Spain, ensuring efficiency and reliability in project delivery.





Expertise in Reconstruction – Irrigation Projects

Containerized Water treatment plants
RO drinking water supply
Irrigation Projects



Key Projects

Project: Critical infrastructure for drinking water supply.
Location: Cape Verde.
Description: Sea Water RO plant for drinking water supply to Maio Island and b) Sea Water Desalination plant in the Persian Gulf
Results: 750 m3/day installed in just 4 months and b) 1000 m3/day drinking water supplied in 3 weeks.
More than 40 references in Reverse Osmosis desalination projects..



Technical capacity and certifications

Relevant international certifications:

- ISO 9001 – Quality management for the design, installation and maintenance of drinking, industrial and irrigation systems and water treatment plants.

Innovative technologies and methodologies:

- Specialized engineering team evaluating and designing tailor-made solutions.
- European manufacturing facilities.
- An assembly team ready to set up the system anywhere in the world.



General Information

Company: Desalia Water S.L.U.

Sector: Water treatment plants

Year of Foundation: 2016

Number of Employees: 6



Expertise in Reconstruction – Water Treatment Projects

Water treatment projects in emergency areas.



Key Projects

Project: Improvement of drinking water and reuse systems.

Location: Peru (America).

Description: Commissioning of a water treatment plant providing the first locality in the province with access to drinking water.

Results: Bottling and commercialisation of water boosted local development and ensured project sustainability.

[More information](#)



Technical capacity and certifications

Relevant international certifications:

- ISO 9001 – Quality management for the design, installation and maintenance of irrigation systems, fertigation, reservoirs, greenhouses, climate control and water treatment plants.
- ISO 14001 and IQNET recognition – for environmental management.

Innovative technologies and methodologies:

- 30,000+ m² of facilities and a specialised engineering team delivering tailor-made solutions to minimise water and energy footprint.
- Factory-assembled and tested Plug & Play plants, avoiding civil works and complex on-site interventions.
- Remote monitoring, autonomous operation, and adaptable treatment capacity.
- Durable, top-brand equipment built to the highest quality standards for optimal performance.



General Information

Company: Novedades

Agrícolas, S.A.

Sector: Agricultural Services & Technology

Year of Foundation: 1978

Number of Employees: 200



General Information

Company: GASCA
MONTAJES INDUSTRIALES,
S.L.

Sector: Metal Industry

Year of Foundation: 2021

Number of Employees: 30

Expertise in Reconstruction

Mechanical assembly and maintenance of industrial facilities, including piping, structures, supports and equipment.



Experience and Key Projects

Assembly and maintenance services for industrial facilities across all sectors, with clients such as:
REPSOL Petróleo, REPSOL Butano, CEMEX, AIR LIQUIDE, IBERDROLA, SAINT GOBAIN PLACO, SONAE ARAUCO, among others.



Technical capacity and certifications

Relevant international certifications:

- ISO 9001
- ISO 45001
- ISO 14001

Certified installer of:

- Pressure equipment
- Gas installations
- Petroleum installations
- Fire protection systems





General Information

Company: Carthago
Instalaciones y Servicios
Técnicos, S.L.

Sector: Services

Year of Foundation: 2019

Number of Employees: 3

Expertise in Reconstruction

- Maintenance and installation of butane, propane and natural gas. Category A – Ministry of Industry.
- Maintenance and installation of pressure equipment and special gases at low and high pressure (Oxygen, Helium, Hydrogen, Nitrogen, etc.).
- Maintenance and repair of hyperbaric chambers.
- Manufacture of cylinder racks, distribution panels and special gas testing systems.



Experience and Key Projects

- Design and manufacture of the control panel for the autonomous bottle recharging centre (air, helium and mixes up to 300 bar) at the Spanish Navy Diving Centre.
- Manufacture of cylinder racks for storage of diving gas mixtures for the Navy.
- Design and manufacture of the control panel for the GEAS hyperbaric chamber.
- Design and manufacture of test benches for diving cylinder valves up to 500 bar.



Technical capacity and certifications

- **Relevant international certifications:**
 - ISO 9001
 - ISO 14001
- Registered with the DGAM and NCAGE number.
- Certified installer and maintainer of gas installations – Category A, Ministry of Industry.
- Certified installer and maintainer of pressure equipment – Categories ERP-II and EIP-II, Ministry of Industry.





Expertise in Reconstruction

- Construction and assembly of pipeline networks, metal structures and pressure vessels.
- Construction and assembly of storage tanks for liquid bulk (fuels and chemical products).
- Construction of desalination plants and industrial food waste treatment plants.
- Design and manufacture of customised process equipment for the petrochemical, food and pharmaceutical sectors.



Experience and Key Projects

Project name: Fuel storage park at airport and pipeline connection to airside
Location: Dublin (Ireland)

Brief description: Expansion of operational capacity for refuelling at Dublin airport.

Results: Increased airport air traffic. Project completed in 24 months.

Project name: Maintenance platform for GRANTECAN telescope

Location: La Palma, Canary Islands (Spain)

Brief description: Design, manufacture and assembly of a maintenance platform for the GRANTECAN optical telescope.

Results: Full maintenance capability for the telescope. Project completed in 18 months.



Technical capacity and certifications

Relevant international certifications:

- ISO 9001, ISO 9100, PECAL/AQAP 2310, PECAL/AQAP 2110, NATO Certificate, ISO 45001, ISO 14001, UNE 19601:2017, ISO 3834-2, NB R Stamp, ASME U + U2 Stamp.

Innovative technologies and methodologies:

- CAD, CAM and CAE engineering tools.
- CNC manufacturing and certified joining technologies for all types of metal alloys.
- Comprehensive management through ERP and Business Intelligence systems.



General Information

Company: MECÁNICAS BOLEA

Sector: Metallurgical Industry

Year of Foundation: 1985

Number of Employees: 240





General Information

Company: Palec Ecológico S.L.

Sector: Manufacturing and Processing of Plastic Raw Materials

Year of Foundation: 1996

Number of Employees: 50

Expertise in Reconstruction

Equipped with machinery to manufacture any component required for reconstruction projects.



Experience and Key Projects

- Extensive experience in delivering plastic-based solutions.
- Conducted tests with blocks and chambers, replacing concrete and soil fillings with these plastic chambers.



Technical capacity and certifications

Relevant international certifications:

- ISO 9001.

Innovative technologies and methodologies:

- Use of recycled materials in construction.
- Design of customised plastic parts.





Expertise in Machining and Welding

- Custom-made parts.
- Turnkey projects.
- Machining solutions for industrial use.



Experience and Key Projects

Project name: Manufacture of a customised electrode

Location: Spain

Brief description: A client required the replacement of a part over 3 metres long which was no longer available, and the original manufacturer no longer existed. We redesigned the piece, optimising its design for better performance and durability, while ensuring 100% compatibility. The part was machined from a single piece.

Results: The client was able to quickly resume normal production with a minimal investment compared to replacing the entire machine.



Technical capacity and certifications

Relevant international certifications:

- ISO 9001 in Machining and Industrial Maintenance.

Innovative technologies and methodologies:

- HNC-640 TNC 5-axis milling machine with moving column, capable of machining parts over 3 metres long.



General Information

Company: Monisol Maquinaria Fitosanitaria y Mecanizados S.L.

Sector: Metal Production and Processing

Year of Foundation: 1976

Number of Employees: 27



General Information

Company: GESPROGA SOLUCIONES S.L.
Brand: CTIcontrol
Sector: Agricultural Engineering / Electronic Engineering
Year of Foundation: 1998
Number of Employees: 50

Expertise in Reconstruction

- Design, construction and automation of farms and greenhouses.
- Design and manufacture of electronic equipment.
- Electronics adapted to Industry 4.0 technologies.



Experience and Key Projects

- **Porcine Farm “Ventica”:** Comprehensive reconstruction of a large-scale pig production facility covering all stages (gestation, farrowing, weaning and fattening). The project incorporated smart climate control, automated feeding management and enhanced biosecurity, prioritising animal welfare and energy efficiency.
- **Poultry Complex “Naver”:** Participation in the design and reconstruction of an automated poultry facility for rearing hens. It included climate control systems, silo weighing, alarms and automated feeding.
- **Prisma:** Design of a modular electronic actuator system for the automation of windows and gates in livestock facilities and greenhouses. The system integrates environmental sensors and enables remote control, optimising ventilation and reducing thermal load.



Technical capacity and certifications

Machinery for electronics and process automation:

- AOI Inspection Machine
- 1826MK5 AIR Package Oven (HELLER brand)
- Modular selective soldering system
- YCP10 high-performance compact printer

Technologies:

- BIM for the design and management of livestock buildings.





General Information

Company: Novedades Agrícolas, S.A.

Sector: Agricultural Services & Technology

Year of Foundation: 1978

Number of Employees: 200

Expertise in Reconstruction – Greenhouse Construction

Construction of greenhouses for rural agricultural development.



Key Projects

Project: Construction of greenhouses and training of families.

Locations: Ecuador, Mexico, Guatemala, Honduras, Colombia, Mozambique.

Description: Greenhouses equipped with climate control systems, storage facilities and irrigation heads with pumping, filtration and fertigation equipment. Families trained in crop production and marketing.

Results: 5,500 kg of vegetables produced in greenhouses, 400 families benefited, micro-enterprises created from the project.



Technical capacity and certifications

Relevant international certifications:

- ISO 9001 – Quality management for the design, installation and maintenance of irrigation systems, fertigation, reservoirs, greenhouses, climate control and water treatment plants.
- ISO 14001 and IQNET recognition – for environmental management.

Innovative technologies and methodologies:

- Specialised engineering team designing tailor-made solutions in compliance with UNE-EN 13031-1 standards.
- 30,000+ m² of facilities for greenhouse and technology manufacturing, equipped with 4 overhead cranes, high-tonnage presses, cutting machines, punching robots, roll formers, folding machines, and more.





Expertise in Reconstruction – Analysis and Data for consumable water

On site analysis of water quality and evaluation of contaminants including; wastewater pollution, mining related, agricultural and biological contaminants. Nutrient monitoring and control for agriculture.



Key Projects

Project: Water contaminant monitoring for the Region of Murcia, Spain

Locations: La Trinchera Reservoir, Torre Pacheco, Murcia

Description: Automated monitoring of water quality for multiple applications.

Results: Development of pioneering technology for early detection and warning of water contaminants

Project: Aquafertitech with automated monitoring resulting in on demand adjustment of nutrients for intensive agriculture



Technical capacity and certifications

Relevant international certifications:

- Eibt – Approval stamp

Innovative technologies and methodologies:

- This company is subsidized by CDTI
- Neotec 2024



General Information

Company: Blueming Biotech

Sector: Water analysis

Year of Foundation: 2020

Number of Employees: 4

> **contact** ↘

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> **More info**

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