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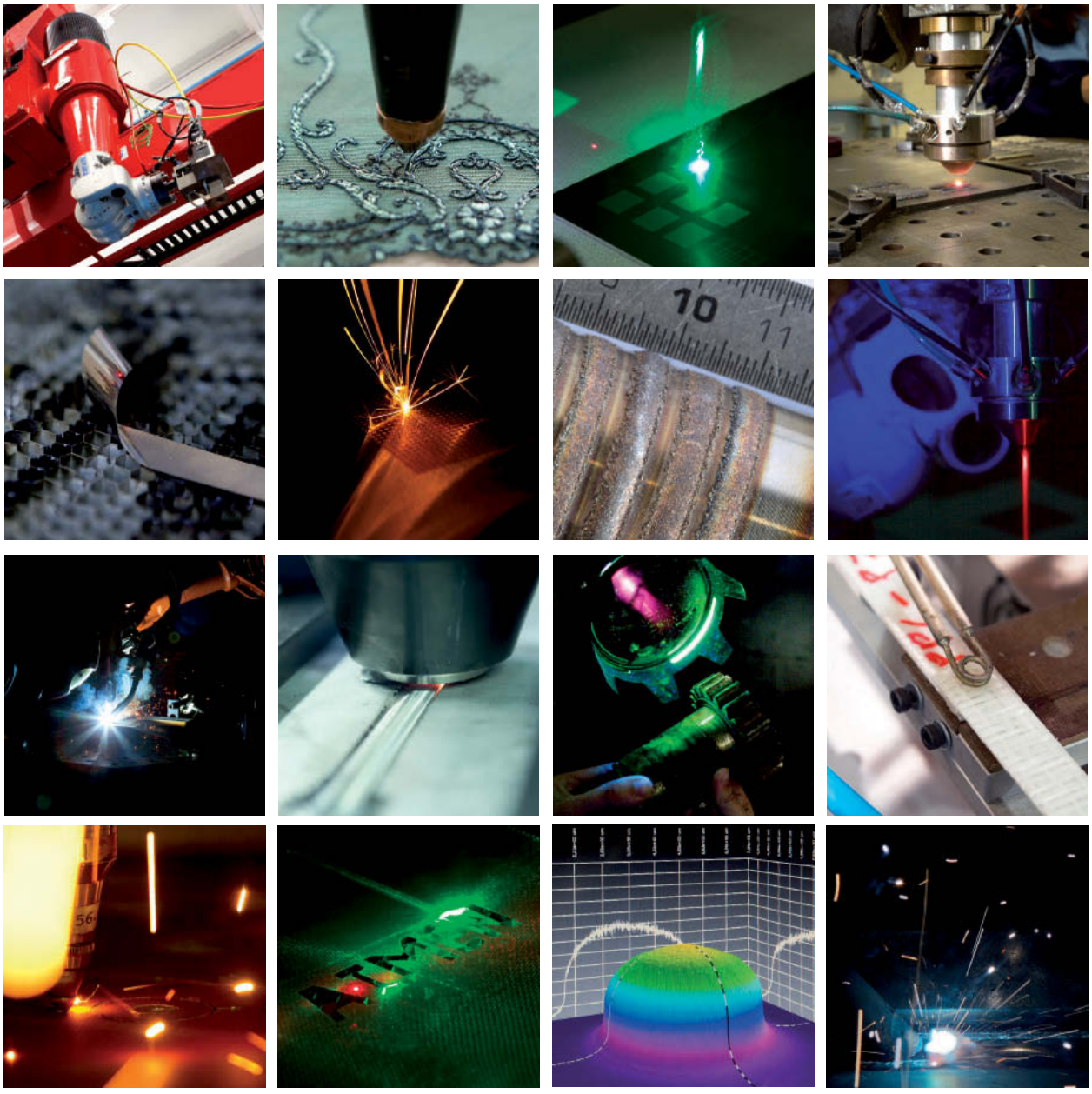

INDUSTRIAL SOLUTIONS & INNOVATION

About us

AIMEN is an Innovation and Technology Centre founded in 1967 on the initiative of a group of Galician entrepreneurs. Today, we are a national leader in research and in providing technological services in the fields of joining technologies, materials and laser technologies applied to materials processing and industrial robotics.

1967
Founding of AIMEN

1995
Opening of the Armando Priegue Building in O Porriño

1998
Official Recognition as an Innovation and Technology Centre

2002
Creation of the Joining Technologies Pilot Plant

2004
Setting up of the Laser Technologies Research Unit

2014
Opening of the Laser Applications Centre

> Our VISION is to become a strategic technology partner to our associates and clients, contributing to improving their technological capabilities.

690
R&D&i Projects
In the last 10 years

8
Patents
As of 31/12/2019

+500
Customers
Annual average in the last 5 years

+250
Employees
37 PhDs
59% men / 41% women

15,6 M€
Annual Income
2019

285.926
Technical Reports
As of 31/12/2019

Headquarters. Laser Applications Centre

Torneiros Centre. Armando Priegue Building

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INDUSTRIAL SOLUTIONS & INNOVATION

Technological Offer

Over 50 years in the service of industry, combined with our technical experts' high levels of specialisation and the unique nature and excellence of our facilities, endorse the quality of our multidisciplinary and multi-sectoral technological offer.

R&D

We carry out **our own research**, and also partner with companies on R&D projects aimed at developing new technologies and incorporating technological improvements into their products and/or processes, including the development of prototypes and demonstrators. Aligned with a common purpose: to maximase business and industrial performance.

- Applied research
- Extensive network of industrial and R&D partners
- Management of R&D&i Funding Programmes

red pIDi

AENOR
GESTIÓN I+D+i
UNE 166002
IDI-0020/2011

Advanced Materials

Metal matrix composites

Polymer matrix composites

Adhesives and Resins

Development of solutions for extreme conditions (high temperature, corrosion, wear)

Robotics and Control

Cooperative mobile robotics applied to industry

Flexible robotised cells

Real-time process monitoring and control

Development of optical sensors

Automated inspection systems

Advanced Manufacturing Processes

Advanced joining processes (Laser, FSW, brazing, induction, hybrid joints, etc)

Surface processing for functionalisation (laser cladding and heat treatment, FSP, laser texturing, etc)

Thermally assisted forming (induction, laser)

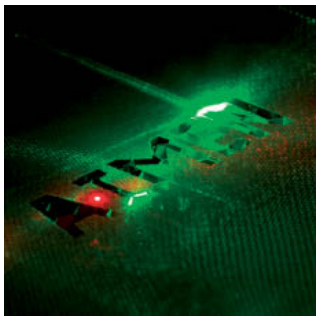
3D laser micro machining

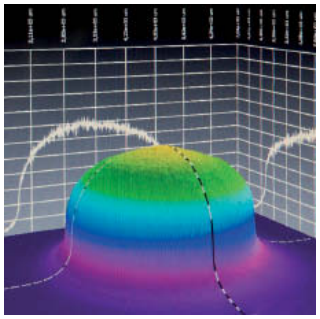
Environment

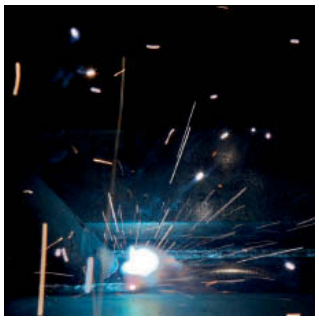
Waste treatment and waste recovery

Water quality and treatment

Energy and Waste Efficiency







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INDUSTRIAL SOLUTIONS & INNOVATION

Industrial Services

Our unique services offer advanced, innovative and differentiating solutions that add value to products and processes and, ultimately, help to our clients become more competitive.

- Results-oriented
- Extensive knowledge of Spanish and international regulations and standards
- Customised services

Manufacturing Engineering

Welded joint and process design

Production quality assurance

Regulations and codes

Manufacturing procedures

Process implementation and improvement

Numerical Calculation and Simulation

PRODUCT design

PROCESS design

Calculation of structures

FEA Analysis

Certification of conformity and legalization

Mechatronics

Process monitoring and automation

Artificial vision and industrial software

Mechanical design

Turnkey Projects

Prototype Development

On-site Technical Support

Training

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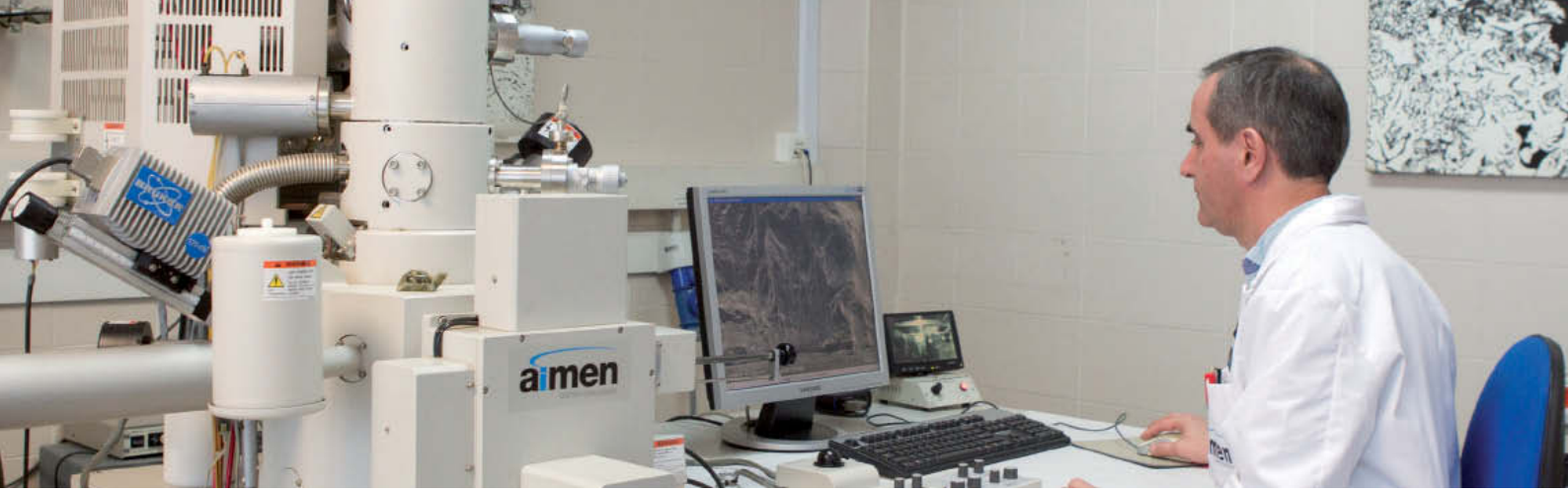
INDUSTRIAL SOLUTIONS & INNOVATION



Testing and Analysis

Our laboratories are backed by many official accreditations and recognitions that guarantee our impartiality and technological capabilities.

- Materials Characterisation
- Technical Support and Consultancy
- Specialised Technical Services

Study of in-service behaviour and causes of failure

Breakage

Corrosion

Wear

Characterisation of compound materials, non-metallic and metallic materials

Metallographic analysis, including on-site metallographic replicas

Chemical composition

Static and dynamic mechanical testing

Residual stress measurements

Physical properties

Special and Customised Testing

Corrosion and wear testing

Mechanical and thermal fatigue testing

Simulation of service conditions

Useful and remaining life studies

Non-Destructive Testing and Inspection

Radiography, including fluoroscopy and digital radiography

Ultrasonic testing, including TOFD and Phased Array

Verification of ultrasonic equipment

Computerised axial tomography

Visual inspection

Magnetic particles

Liquid penetrant testing

AENOR GESTIÓN DE LA CALIDAD ISO 9001 ER-0372/2011

IQNet CERTIFIED MANAGEMENT SYSTEM

AENOR GESTIÓN AMBIENTAL ISO 14001 GA-2012/0258

AENOR CALIDAD AEROESPACIAL OP-0008/2014

AENOR SEGURIDAD Y SALUD EN EL TRABAJO ISO 45001 SST-0042/2017

CERTIFIED LR EN 15085 LRE/15085/CL1/0048/1/17

CERTIFIED LR ISO 3834 LRE/0038/0108/0/19

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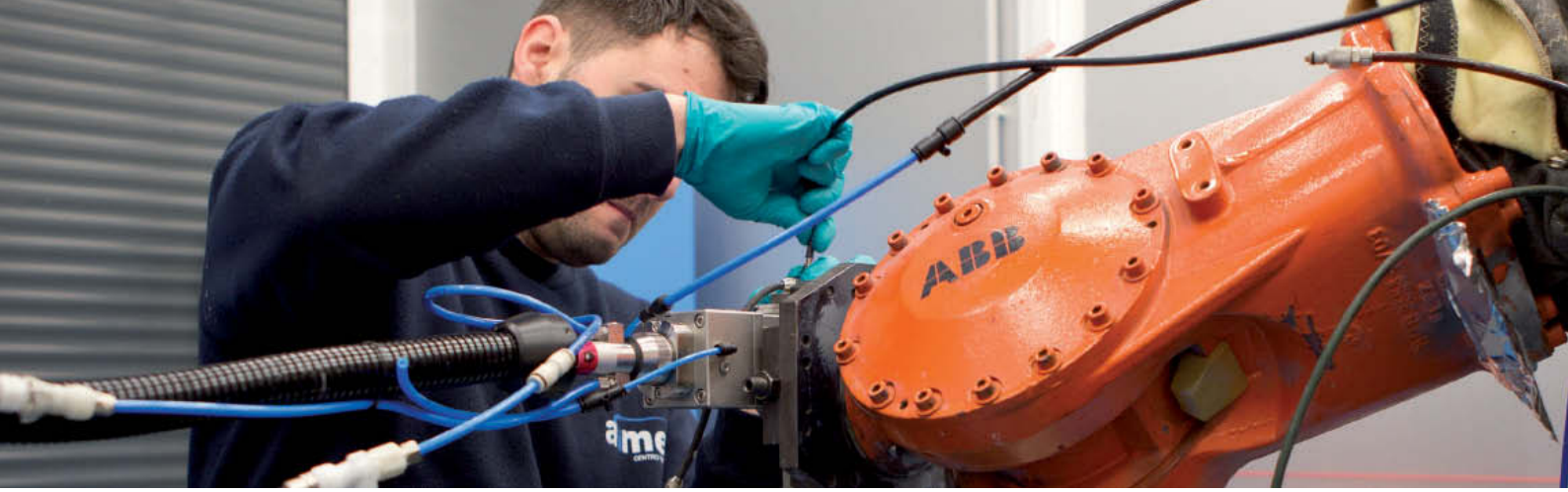


Training

Our training is differentiated by our cutting-edge equipment, extensive industry knowledge and our instructors' high levels of technical specialisation.

- Highly Specialised Technical Programmes
- Extensive Catalogue of Specialised Training
- Accredited Training Centre

High Tech Specialisation

IWE – International Welding Engineer

FROSIO – Paints and Coating Inspector

EAB – European Adhesive Bonder

Non-Destructive Testing, levels I, II, III

Ongoing Training

In-company training to meet each company's needs

Annual training programme of open courses

Professionality Certificates

Coated Electrode and TIG welding

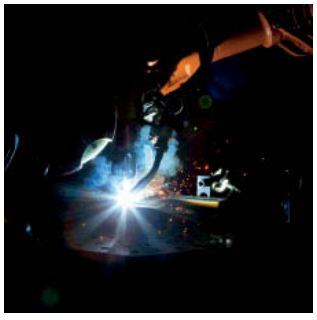
Oxy-gas and MIG/MAG welding

Organisation and Control of Non-destructive Testing

Specialisation Fields:

Materials, Analysis and Testing, Non-destructive Testing and Inspection, Metallography, Failure Analysis, Corrosion, Joining Technologies and Laser Technologies.

FROSIO
The Norwegian Professional Council for Education and Certification of Inspectors for Surface Treatment

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INDUSTRIAL SOLUTIONS & INNOVATION

Facilities and Technological Equipment

Our facilities are unique and innovative, with cutting-edge equipment to offer our clients and partners fully guaranteed technology services.

- 2 centres: Armando Priegue Building and Laser Applications Centre
- 9,000 m^2 of technological and scientific infrastructure
- Cutting-edge equipment

Joining Technologies

MIG/MAG/TIG/PAW/SAW Arc-welding Equipment

MIG/MAG Fronius Twin Arc TPS 7200

CMT and CMT Advanced Fronius

Fronius Multi Welding System track-mounted 4 m length and handling capacity workpieces up to 1500 kg

Resistance Welding

Friction Stir Welding & Processing

Brazing & Soldering: furnaces, induction, flame

Mechanical Joints

Adhesive Joints

Plastic cutting and welding equipment

Laser Technologies

Laser - Macro-processing

- ROFIN DC035 CO_2 source 3.5 kW
- Direct Diode laser source:
  - LASERLINE LDL 160 DE 3.3 kW
  - LASERLINE de 6 kW
- TRUMPF TruDisk Disk Laser System 16 kW

Laser - Microprocessing

- SPECTRA PHYSICS Pulsed Nd source: YAG PRO-290-30
- Fibre source:
  - TRUMPF TRUFIBER 400 W
  - ROFIN 1.5 kW
- Pulsed sources: Nd YV04
- 3D Laser Micro machining System
- TRUMPF TruMark 6350 Ultraviolet Laser with processing cabin
- EOLITE HEGOA IR40/G20/UV10 - 30 ps Picosecond Laser
- AMPLITUDE SATSUMA HP2 Laser (IR, GREEN and UV) 400 fs - 10 ps
- CryLaS MOPA 266-50 pulsed laser, 266 nm - 950 ps

Manipulation: CNC gantries, robots and servo-controlled tables

Laboratory

Mechanical Testing

- Universal testing Machines, up to 1000 kN
- Resonance testing machine for fatigue testing

Microstructural Characterisation

- HITACHI S-4800 II field emission scanning electron microscope with EDS and EBSD microanalysis systems
- JEOL JSM 6400 scanning electron microscope with EDS microanalysis system

Physical-chemical testing

- VARIAN VISTA-MPX simultaneous ICP plasma spectrometer
- BRUKER S4 Pioneer X-Ray Fluorescence Spectrometer
- PROTO iXRD portable residual stress measurement equipment using X-Ray diffraction
- Dektak 8CSM profilometer

Non-destructive Testing Radiographic - Ultrasonic

- X-CUBE Compact Radioscopy Cabin from GE Inspection Technologies with 160 kV X-ray source
- Computerised Axial Tomography System (patent no. ES 2341833 B2)
- Gamma Radiography and X-Ray equipment
- PERKIN ELMER XRD 1622 A014 Digital X-Ray Flat Panel Detector
- DÜRR HD-CR 35 NDT Computer Radiography System
- ISONIC digital equipment for UT and TOFD with graphic register
- OLYMPUS OMNISCAN MX equipment for TOFD, PHASED ARRAY and UT

Dimensional Metrology

- Mitutoyo EUROC 122010 Coordinate Measuring Machine 1200 x 2000 x 1000 mm

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