INNOVATION, PERFORMANCE, EXCELLENCE







CNIM Systèmes Industriels

designs and manufactures high added value, large and high precision systems and equipment in La Seyne-sur-Mer in the South of France. Since 2022, CSI is a REEL group company.



▲ EMBODY INNOVATION AND PIONEERING SPIRIT



▲ INTEGRATE ALL STAGES OF A PROJECT

△ OWN FIRST-CLASS INDUSTRIAL MEANS

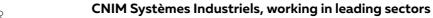


CNIM Systèmes Industriels

74 million euros in turnover

400 EMPLOYEES

> 60 000 sqm of workshops



▲ DEFENSE

Deterrence

▲ SPACE

Pressure tanks

Large revolving parts

Mechanical structures

Naval

Land







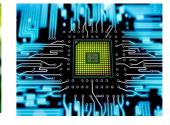
Military Research reactors

▲ BIG SCIENCE

Fusion High energy physics Science of matter







▲ NEW ENERGIES Hydrogen

▲ SEMICONDUCTOR MACHINE

Mechanical structures

160 YEARS OF INDUSTRIAL **ADVENTURE**

CNIM Systèmes Industriels is an independent company from CNIM Group's company which history dates back to 1856 with the shipyards at La Seyne-sur-Mer.



CNIM Systèmes Industriels is a French equipment manufacturer and industrial contractor operating on a worldwide basis.

Servicing large private and public companies, local communities and states, CNIM Systèmes Industriels operates in the Environment, Energy, Defense and High Technology

Technological innovation is at the heart of the equipment and services designed and produced. They contribute to the production of cleaner and more competitive energy, to the reduction of the environmental impact of industrial activities, to the security of sensitive installations and infrastructures, to the protection of people and states.



Delivering across the entire value chain

CNIM Systèmes Industriels (CSI) is involved in all stages of your project. Our Engineering office, with its multidisciplinary experts, associated with the Methods and Manufacturing departments allows us to support you from the start of your project to its testing and installation phases on site.





Our industrial tool, from manufacturing to controls, is adapted to large size and high precision components.

- ▲ LARGE DIMENSION MANUFACTURING
- ▲ ELECTRON BEAM WELDING
- ▲ FLOW FORMING
- ▲ COMPOSITE & POLYURETHANE
- ▲ METROLOGY
- ▲ TEST BENCHES
- ▲ ISO 6 CLEAN ROOMS
- ▲ TREATMENTS





The most complex and demanding assemblies are carried out in an ISO 6 clean room.





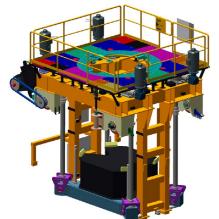


Design and industrialization

Support you from the start

One of CSI's major assets is its ability to design, industrialize and manufacture its clients' projects. Each project has a dedicated team.

CSI's industrial experience and the use of cutting-edge design tools allow the creation of systems and equipment with high added value while respecting quality, costs and deadlines.



Spent nuclear fuel handling system for deep storage.



To efficiently respond to customer requests and benefit from the feedback of its engineers, our design office is organized in a matrix.

▲ SPECIALIZED ENGINEERING

With more than 80% of engineers, these teams work on product family and addresses CSI's business sectors. They also carry out R&D on new products, materials and processes.

These teams of specialists (calculations, laboratory tests, systems and control), make their expertise available to the project teams as needed.



Large size manufacturing

CNIM Systèmes Industriels' workshops in La Seyne-sur-Mer are equipped with cutting-edge machines, including several vertical and one horizontal lathes, three boring machines for machining parts with complex geometry, a double gantry milling machine and three high speed machining centers allowing the machining of parts combining large dimensions and high levels of precision. The machined parts measure from 1 to 15 meters.







Double gantryl milling machine (X 30000, Y 9000, Z 1250 mm, maximum load: 5 tons / sqm).



Horizontal lathe (L 15000 mm, maximum load 40 tons).

HIGH SPEED MACHINING

Produce small and medium series for leading industrial companies

Tree machining centers15000 to 24000 RPM



Manufacturing

Innovative Processes

CSI has the most powerful and one of the largest flow forming machines in Europe.

Large size Flow forming

Adapted by CNIM Systèmes Industriels to large-scale revolution parts, flow forming saves both time and material.

In stainless steel, aluminum, steel or other alloy, the parts are produced in series, with high levels of both quality and precision.





Electron beam welding

/Multi-material /High thickness /Local vacuum

Since 1988, CNIM Systèmes Industriels has been performing electron beam welding on large parts thick from 1 to 125 mm.



Element of the Jules Horowitz reactor's core.



Welding facilities

Volume: 230 m³ Dimension: L 7400 x I 5500 x H 5050 mm Capacity: 30 tons



Welding of homogeneous materials

ALLOY STEELS, STAINLESS STEELS, REFRACTORY STEELS, ZIRCALOY

TITANIUM, TANTALUM, NIOBIUM, ZIRCONIUM COPPER, MONEL, ALUMINUM

Welding of heterogeneous materials

STAINLESS STEEL WITH COPPER / MOLYBDENUM / NICKEL / NIOBIUM

ALUMINUM / COPPER



Manufacturing

Innovative Processes

Designing and shaping of composite and polyurethane parts.



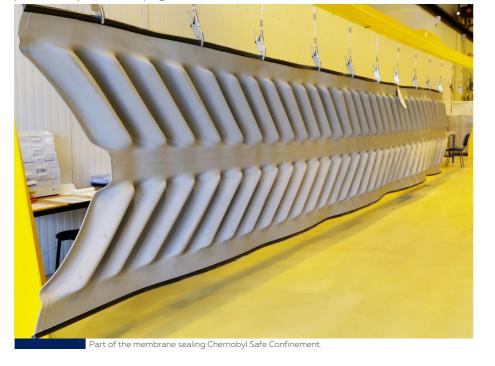
Robotic polyurethane spraying.

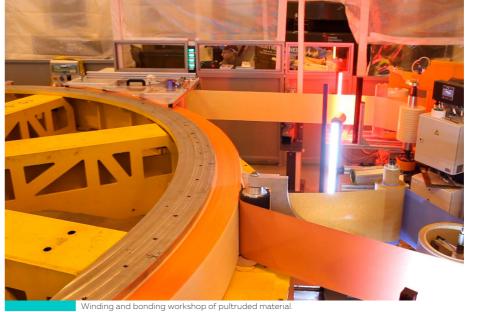
Polyurethane / Easy implementation

/Extended lifespan in extreme environment or during heavy mechanical stress

Our suspension systems and airthight membranes meet the very high requirements of our customers: high tightness, resistance to the strongest earthquakes, permanent pressure, suspension, damping.









Composite / Corrosion resistance

/ Exceptional mechanical performances / Low maintenance cost in operational conditions

/Lightness

CSI produces composite parts to achieve a significant reduction in weight and better resistance to corrosion. Composite solutions offer the best technical and economic compromise while offering highlevel mechanical strength capabilities. Our manufacturing processes are automated.

Composite technologies

FILAMENT WINDING

Pre-impregnation / autoclave







Qualification

Metrology

To guarantee the best quality, CNIM Industrial Systems' metrology means are entirely consistent with the production means: they are adapted to large size and high precision.







DELTA three-dimensional control machine.

More than 30 qualified experts for welding control

Our experts have high level COFREND* qualifications for non-destructive testing of welds.

/ Visual testing (VT), up to VT3, the highest

/ Penetrant testing (PT), up to PT3

/ Magnetoscopy Testing (MT)

/ Ultrasonic Testing (UT), including Phased Array et TOFD, up to UT3

/ Radiographic Testing (RT), up to RT3

Leak Testing (LT), including VP and GT, up to LT3

Qualification

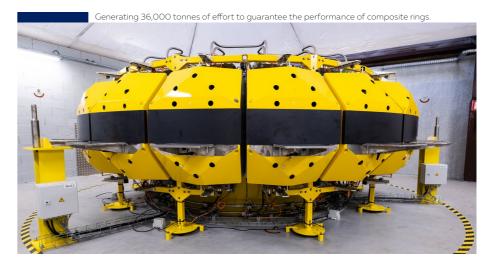
Special test benches

For projects where the highest level of safety is required, in particular in the nuclear environment, CNIM Industrial Systems is developing specific test benches to guarantee that performances will be achieved under extreme conditions.

A test benche dedicated to the latest generation of aircraft engines







Assembly and Integration

ISO 6 to ISO 8 large clean rooms

Manufacturing parts that meet the highest requirements of cleanliness: this is CNIM Systèmes Industriels' everyday challenge. Already possessing an ISO 6 clean room of 220 sqm since 2010, CSI built another clean room of 2500 sqm in La Seyne-sur-Mer for cleaning and assembling parts of which the highest level of cleanliness is required.

Two clean rooms adapted to the large size and high precision

ISO 6-8 clean room

DEDICATED TO CLEANING, ASSEMBLY, TESTING AND QUALIFICATION OF COMPLEX PARTS

SURFACE: 2500 sam

- 1000 sqm FOR PARTICULATE CLEANING
- 1500 sam FOR ASSEMBLY

ISO 6-7 clean room

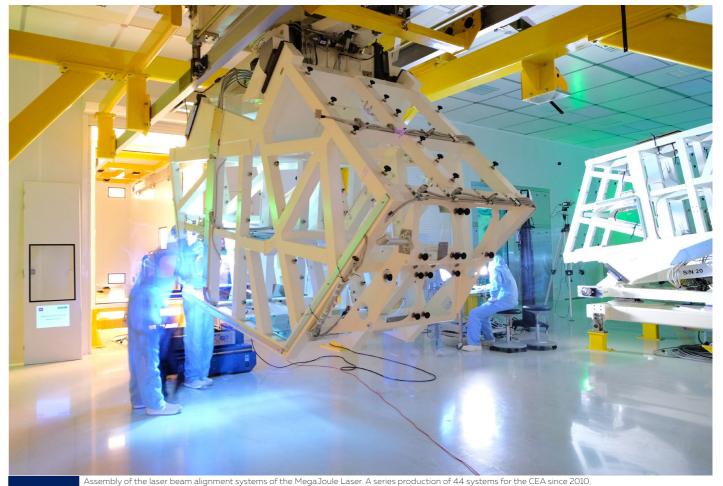
SURFACE: 220 sam

HEIGHT: 4.5 m

GANTRY CAPACITY: 1,5 tons



New clean room in service since 2021



Surface treatments and completion

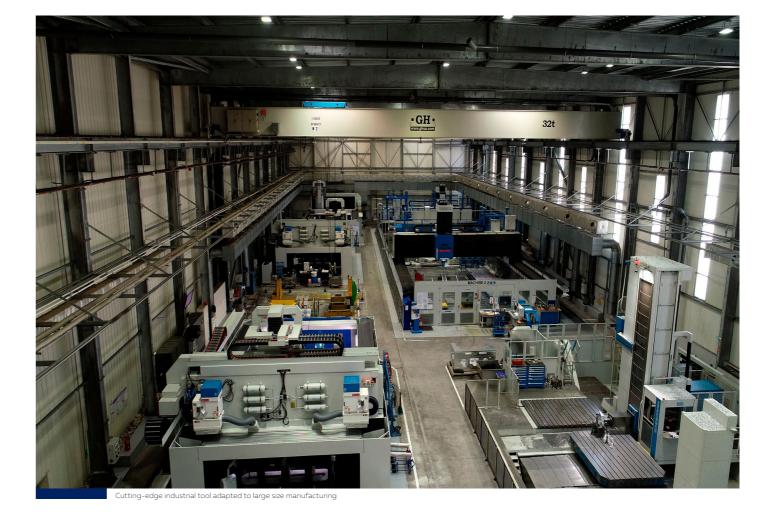
Large capacity furnaces, sandblasting and painting facilities: CSI's industrial tool is suitable for manufacturing large parts up to their finalization stages to guarantee their performances over time and in the harshest environment.





Autoclave oven for composite parts.





ENIM



ENIM

Systèmes Industriels

Siège social

Zone portuaire de Brégaillon CS 60208 83507 La Seyne-sur-Mer Cedex FRANCE

