

## Launchers Transversal competencies

### Main activities:

Design, industrialization and production of systems and equipments meeting the highest standards in harsh environment.

Expertise in elaboration and production of composite & polyurethane products meeting the highest level of quality & performance requirements.

Large-size 3D controls and thermal treatment.

## COMPETENCIES & CAPABILITIES

CNIM Systèmes Industriels (CSI) has an expertise in the **engineering and manufacturing of high added-value and large components** for space applications. Its expertise and competencies lies in large dimensions end-to-end projects: turning, milling, drilling, electron beam welding, large scale of high-precision controls, heat treatment.

Backed up by a long partnership with ArianeGroup, CSI now manufactures nozzle casings for the Ariane 6 launcher and cryogenic tanks components.



# CNIM Systèmes Industriels

## PRODUCTS & SERVICES

CSI manufactured all three-elements of Ariane 5's nozzles thanks to its expertise in precision machining and welding.

Located at the base of the boosters, the nozzles are responsible for ejecting and guiding the propulsion gases during the launcher's first stage of flight.

CSI has a state-of-the-art industrial equipment: large scale electron beam welding and now offers a new process to manufacture quicker and to reduce costs: the flow-forming technology.

CSI has both static and mobile control means, suitable for large-size and high-precision metrology (including MMT-ZEISS).

CSI has a strong expertise in Composite & Polyurethane used in space industry.

## MAJOR SPACE PROJECTS & REFERENCES

Ariane Group:

/ nozzles for Ariane 5

/ nozzles for P80 - VEGA

/ ...

Other references: cryogenic tank bottoms, bulkhead, composite structures (cover, filament winding tubes), insulation of large & complex parts (polyurethane spraying, vacuum bonding)..

## POINT OF CONTACT

**ADDRESS** : Zone Portuaire de Brégaillon – CS 60208  
83507 La-Seyne-sur-Mer Cedex France

**WEBSITE** <https://cnim-systemes-industriels.com>

**PHONE** +33 (0)4 94 10 30 00

**POINT-OF-CONTACT** AUGERAUD Régis, Sales  
[regis.augeraud@cnim.com](mailto:regis.augeraud@cnim.com) +33 (0)6 37 77 45 63

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