



ADVANCED MANUFACTURING



# METROLOGY FOR LARGE COMPONENTS

High precision control equipment  
for flawless manufacturing



A REEL Group company

**ENIM**  
Systèmes Industriels

# We guarantee the quality of the large components we manufacture

CNIM Systèmes Industriels is a French equipment manufacturer and industrial contractor specialising in the design, industrialisation and manufacturing of large, high-accuracy parts. Rolling out innovative processes, quality management and vertically integrated projects is second nature to us.

## Demanding manufacturing tolerances: a few microns on several metres' components.

Thanks to our **highly qualified team (up to COFFMET level 3)** and the **ideal fit between our manufacturing and inspection means**, we are able to guarantee that all parts leaving our workshops in La Seyne-sur-Mer comply with specified performance requirements.

**We also offer metrology services** to ensure your large-size parts reach the required performance.

## Metrology suitable for industries with stringent quality requirements

Advanced Industry | Semiconductor Manufacturers  
Nuclear Power | Big Science | Space



HIGH PERFORMANCE  
EQUIPMENT

### / ZEISS MMZ-G machine

X 4 000 | Y 8 000 | Z 2 000  
E = 3,6 µm + 2,7 µm per meter  
100mm/s (max scan)  
ZEISS VAST Gold scanning sensor  
Orientable carbon fiber measuring styli up to 1.2m long  
Load capacity 20 tons  
CALYPSO Software

Our measurements accuracy complies with ISO 10360-2-5 E0/E150.

### / Mobile equipment

4 Laser trackers  
1 multi-axis articulated measuring arm

### / DEA Delta HA machine

X 5 080 | Y 3 500 | Z 2 000  
E = 6 µm + 7 µm per meter  
METROLOG software

/ Dye-penetrant inspection

/ Non-destructive testing equipment



## We guarantee...

- / **Effective upstream planning** to optimise component inspection times
- / Inspections and measurements to ensure **product compliance**
- / Comprehensive inspection **reports**

