

Large Parts Machining at Le Creusot

Milling, boring, turning, deep drilling for large forgings

Outstanding machining capabilities to machine forged and cast parts

Your Challenge

Manufacturing and dimensional control of large forged and cast parts to tight dimensional tolerances with stringent traceability. Machined materials: Carbon & stainless steels, any other alloys materials upon request.

Our Solution

Located in Burgundy, Framatome Le Creusot plant has industrial capacities, competencies and experience for the manufacturing of **large machined parts**.

The plant is ISO certified, and its Quality Assurance Systems can support international projects within ESPN, RCC, YVL or ASME.

Machining services can address a wide range of highly demanding industries, such as Oil & Gas, Energy, Aerospace, Chemical & Pharmaceutical, Ship Industry, Navy & Defense.

The plant can propose machining processes for complex and demanding requirements to address your specific needs.

- **Boring & Milling**
 - 4 gantry milling machines up to 200 t
 - 3 mill boring machines up to 160 t
- **Turning**
 - 4 horizontal lathes up to 180 t
 - 10 vertical lathes up to 200 t
- **Drilling machines**
 - 3 deep drilling machines up to 125 t
- **Precision metrology for very large parts (up to 40m)**
 - 3 photogrammetry cameras, combinable with 3D scanners
 - 7 Scanners 3D
 - 1 Laser Tracker



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Technical information

Machining process	X (m)	Y (m)	Z (m)	Outer ø (m)
Boring & milling	8.7 – 20	3.5 - 5	3.9 - 5.5	
Gantry milling	6.9 - 19	1.2 - 3	2.6 - 6	
Turning-horizontal			16.3 – 22	1.9 - 3
Turning-vertical			2.1 - 5.8	5.2 – 8.2
Deep drilling			<1 <8	6 - 25 mm 630 - 796 mm

Dimensional control	X (m)	Y (m)	Z (m)	Accuracy (µm)
Photogrammetry	Infinite			20M pixels
Fixed LED 3D Scanner	< 1	< 0.8	< 0.9	12M pts/scan
3D Laser Hand Scanner	Infinite			20µm + 15µm/m
3D Laser Fixed Scanner	< 0.5	< 0.6	> 0.3	From 25µm 20µm + 15µm/m
Laser Tracker	<40m			21µm + 8.5µm/m

Customer benefits

- Safety and Quality Conformity
- Internationally trusted supplier with proven experience
- Management of very high added value components
- Complete process of machining from raw material to finished part, inspection and worldwide shipment
- **Machining Experts located on site** for permanent support

Your performance
is our everyday **commitment**

Key figures

Operating on **3x8 shifts** and **24/7**

For parts up to **200 tons** and **20m**

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