

## Precision machining in Saint-Marcel

Turning, milling, deep drilling, boring, broaching and dimensional controls

Outstanding machining capabilities to finalize manufacturing of heavy parts

### Your Challenge

Manufacturing large parts of various geometries by machining with a high accuracy of dimensional tolerances and surface roughness.

Typical materials: carbon & stainless steel, nickel base alloys, hastelloy alloys, inconel, tantalum

### Our Solution

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

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

Machining services can be delivered to highly demanding industries, such as Oil & Gas, Energy, Aerospace, Chemical & Pharmaceutical, Ship Industry, Navy & Defense.

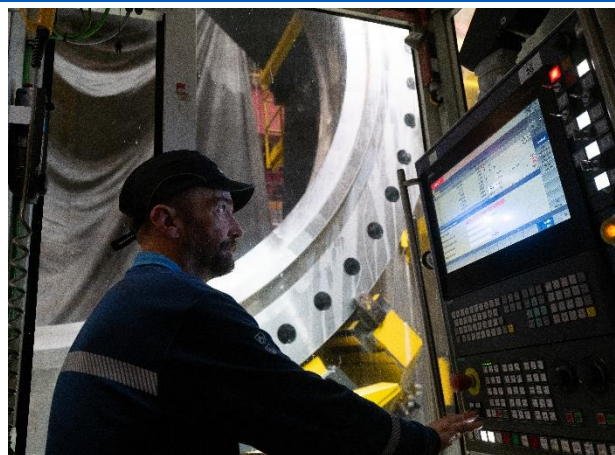
The plant can propose machining processes for complex and demanding requirements to address your specific needs.

- **Boring & Milling:** 2 boring (5-axis) & 2 milling machine
- **Rotating tables:** for parts positioning up to 60° and 250 t
- **Turning:** 2 vertical lathes up to 160 t
- **Drilling, Deep Drilling & Broaching:**
  - 1 deep drilling machines up to 1000 mm with 3 spindles
  - 1 high-speed drilling machine with 5 independent spindles
  - 1 broaching machine for complex holes through plates
- **Precision metrology for very large parts (up to 40m)**
  - 2 photogrammetry cameras & 4 Scanners 3D
  - 4 Laser Trackers & 1 Coordinate Measurement Machine (CMM)

### Customer benefits

- Safety and Quality Conformity
- Internationally trusted supplier with proven experience
- Capability to machine and handle exceptionally large components in size and weight
- 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**



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### Technical information

Machining process	X (m)	Y (m)	Z (m)	Outer ø (m)	Load (tons)
Boring	24 - 35	6.8	6		60
Milling	2.9-5.5	2.5-8	1.3-5.5	4.5	5-25
Rotating table #1 • Reclining angle: 60°				4.2	150
Rotating table #2 • Not reclining				6.3	250
Turning-vertical			2.5 – 4.5	2 – 8.1	20 - 100
Deep drilling	<5	<3.5	<1		
Broaching	<5.5	<2.25			

Dimensional control	X (m)	Y (m)	Z (m)	Accuracy (µm)
Photogrammetry			Infinite	4.5µm + 4.5 µm/m
3D Laser Hand Scanner	0.17	1	0.88	9µm + 9µm/m
CMM	0.5	0.4	0.3	1.9 µm + L/250 µm
Laser Tracker			<40m	15 µm + 6 µm/m

### Key figures

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

For parts up to **250 tons** and **31.5m**

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