

# Machining in Saint-Marcel

## Turning, milling, deep drilling, boring, broaching

### Outstanding capacity of machining to serve our Customers

#### Challenge

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

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

#### Solution

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

The plant has ISO and ASME certified QA Systems to support international projects and masters ESPN, RCC, ASME, YVL, etc. Solutions applicable to a wide range of industries (Oil & Gas, Energy, Aerospace, Chemical, Pharmaceutical, Transportation, Special Tooling, Ship Industry and Navy, Defense)

Several types of machining processes available:

##### Milling and Boring

- 2 milling 5-axis machines (2020 models) adapted for large parts up to 250 t, equipped with universal milling heads, continuous 5-axis facing heads
- 1 milling machine for parts up to 25 t
- Rotating and reclining tables for parts positioning

##### Turning (2 vertical lathes up to 160 t)

##### Drilling and Deep Drilling

- 2 machines for deep drilling up to 1000 mm with 3 spindles
- 1 machine for high speed conventional drilling equipped with 5 independent spindles
- Mass drilling (more than 10 000 holes per part)

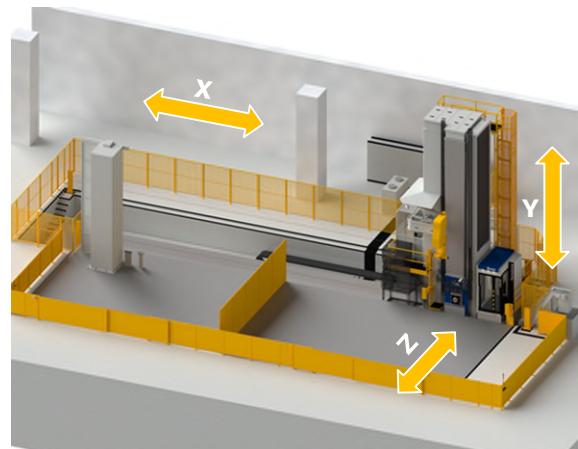
##### Broaching

- 2 machines for broaching complex holes in plates

### Customer benefits

- Safety and Quality Conformity
- Internationally trusted supplier with proven experience
- Capability to machine and handle exceptionally large components in size and weight
- Flexible and large industrial capacity of machining equipment
- Complete process of machining from raw material to finished part, inspection and worldwide shipment

### Your performance is our everyday commitment



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### Technical information

#### Milling and Boring

X = 31 500 mm

Y = 7 000 mm

Z = 3 400 mm

#### Rotating / Reclining table

#### Rotating Table

Max diameter of part: 4200 mm

6300 mm

Max weight of part: 150 t

250 t

Reclining angle: 60°

#### Turning

Max diameter of machining: 8 000 mm

Max weight of part: 160 t

#### Drilling and Deep Drilling

Max dimensions of part: 5500 mm x 5 500 mm

Max diameter of deep drilling: 25 mm

### Key figures

3 Shifts a day, **24/7** of machining activities

5 Machining Experts to support activities

**40 000** hours of annual capacity

Contact : [g-fra-pcm-sales@framatom.com](mailto:g-fra-pcm-sales@framatom.com)  
[www.framatome.com](http://www.framatome.com)

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