

High precision machining at Jeumont

Turning, milling, mill turning, drilling, tapping, grinding, lapping, polishing and dimensional controls

High precision machining & dimensional controls in air-conditioned workshops

Your Challenge

Manufacturing and dimensional control of complex parts to very tight dimensional tolerances with stringent traceability.

Machined materials: Carbon & stainless steels, Nickel base alloys, including Hastelloy & Inconel / Stellite alloys, Tungsten & Chromium carbides, silicon nitrides / graphite.

Our Solution

Located in Northern France, Framatome Jeumont plant owns a large portfolio of machine tools and coordinate measuring machines.

The plant are ISO and ASME certified, and 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.

- **Milling:** 2 milling & boring machines & 4 milling centers
- **Mill turning:**
 - 5-axis & 9-axis mill turning machines (2 & 5 units)
 - All units with 5-axis milling heads for highest productivity
- **Turning:** 3 vertical lathes & 11 horizontal lathes
- **High precision metrology:**
 - 1 portable 3D laser scanner
 - 4 portable 3D measurement arms (PCMM)
 - 7 bridge type Coordinate Measurement Machines (CMM), with **one of the biggest bridge-type CMM in Europe for parts of 8 tons**

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**



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Technical information

Machining process	X (m)	Y (m)	Z (m)	Outer ø (m)	Load (tons)
Boring & milling	<5	<2	<3.5		<16
Milling	0.8-2.5	0.7-2.1	0.6-1.25		<8
Turning-horizontal			<5	<1.3	<10
Turning-vertical			<1.6	<2.3	<20
Mill turning-horizontal				<0.6	<1.5
Mill turning-vertical				<2	<4
Grinding				<0.45	<1
Dimensional control	X (m)	Y (m)	Z (m)	Load (tons)	Accuracy (µm)
3D scanner	Volume: 4.4m ³			NA	± 20 µm + 40 µm/m
PCMM #1-#4	6 axis: 1.2/2.5/2.5 7 axis: 3.5			NA	6 axis: ± 24/± 30/± 28 7 axis: ± 92
CMM #1	0.5	0.5	0.5	0.1	± 2.4 + L/300
CMM #2	0.5	0.6	0.5	0.15	± 2.2 + L/300
CMM #3	0.9	1	0.8	0.18	± 1.9 + L/333
CMM #4	1.5	1.2	0.9	5	± 1.7 + L/350
CMM #5	0.9	3	0.8	1.8	± 1.2 + L/350
CMM #6	1.2	3	1	2.25	± 1.7 + L/350
CMM #7	3	2	1.6	8	± 1.7 + L/400

Key figures

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

Precision machining down to **1 micron**

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