The "Ateliers de la Meuse"

Established nearly two centuries ago, "Les Ateliers de la Meuse (ALM)" is a French industrial company specializing in the **manufacturing** and **integration** of components, large welded assemblies and large-scale machining. **Through partners, ALM also offers engineering and design services**.

The company operates in highly technical sectors, in particular the **nuclear industry**, but also in **medical**, **space**, **energy** and **heavy industries**.

ALM benefits from integrated industrial and qualitative capabilities, with **large-scale infrastructure**: purpose-built workshops, high-capacity lifting, large-scale machining, heavy welding and assembly & testing pits.

ALM is an **industrial integrator** capable of managing **complex projects**, based on client drawings or in partnership with engineering offices : procurement, subcontracting, assembly, inspection, documentation and project management.

The company supports its clients in delivering one-off and small-series projects while meeting the highest industrial standards.

Ateliers de la Meuse
GROUPE ALFEOR



1835
Establishment date

+50
Skilled workforce

Capabilities

8 workshops→ 10 000 m²
Lifting → 150T
Horizontal lathe → L=13m & Ø3,6m & 60T
Vertical lathe → Ømax 6,25m & 100T & h=3,85m
Boring/Milling → 15x5m
Balancing→ 40T
Welding positioners & welding machines → 100T
Shot blasting booth→ 6x10m
Paint booths→ 6x6m
Pits → assembly, testing, finishing

ALM's capabilities



Engineering & design

Engineering & design through our partners



Precision machining

Machining, boring, milling, vertical and horizontal lathes



Large scale machining

Up to 150 tonnes, 8 meters in diameter and 14 meters in length



Very large scale machining

With the support of a specialist partner : up to 200 tonnes lifting capacity
Milling machine : 35×7,5m
Rotating table : dia 6m



Industrial metal fabrication

Special-purpose industrial metal fabrication
5 welding processes
Qualification in multiple weld inspection processes (NDT)



Surface treatments

Sandblasting, metallizing, shot blasting, micro-blasting



Balancing

Low-speed dynamic balancing



Assembly

Manufacturing of large-scale electromechanical assemblies
Final assembly of boiler making and machined components



Projects integrator

Integrator from drawing to delivery



Coating

2 paint booths
6 × 6m

Our infrastructure

10 000 m² of workshops space

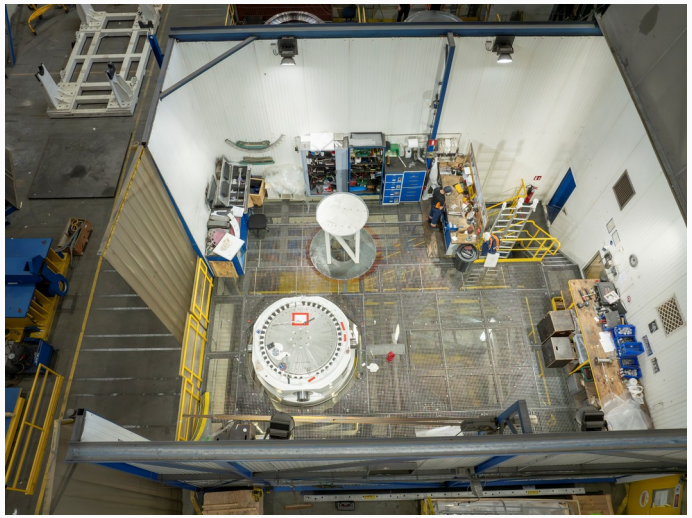
Heavy lifting and handling capacity up to 150 tonnes



Assembly pits

→ 10 x 7 x 2m
→ 22 x 10 x 3,5m









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Precision machining

Our machines adapt perfectly to the strict tolerances of your parts : essential parameters such as rotation speed and depth of cut can be adjusted with precision for a high-quality result



BOST Machining Center

Technical specifications

4 turning attachments

2 orientable milling heads and 1 vertical head

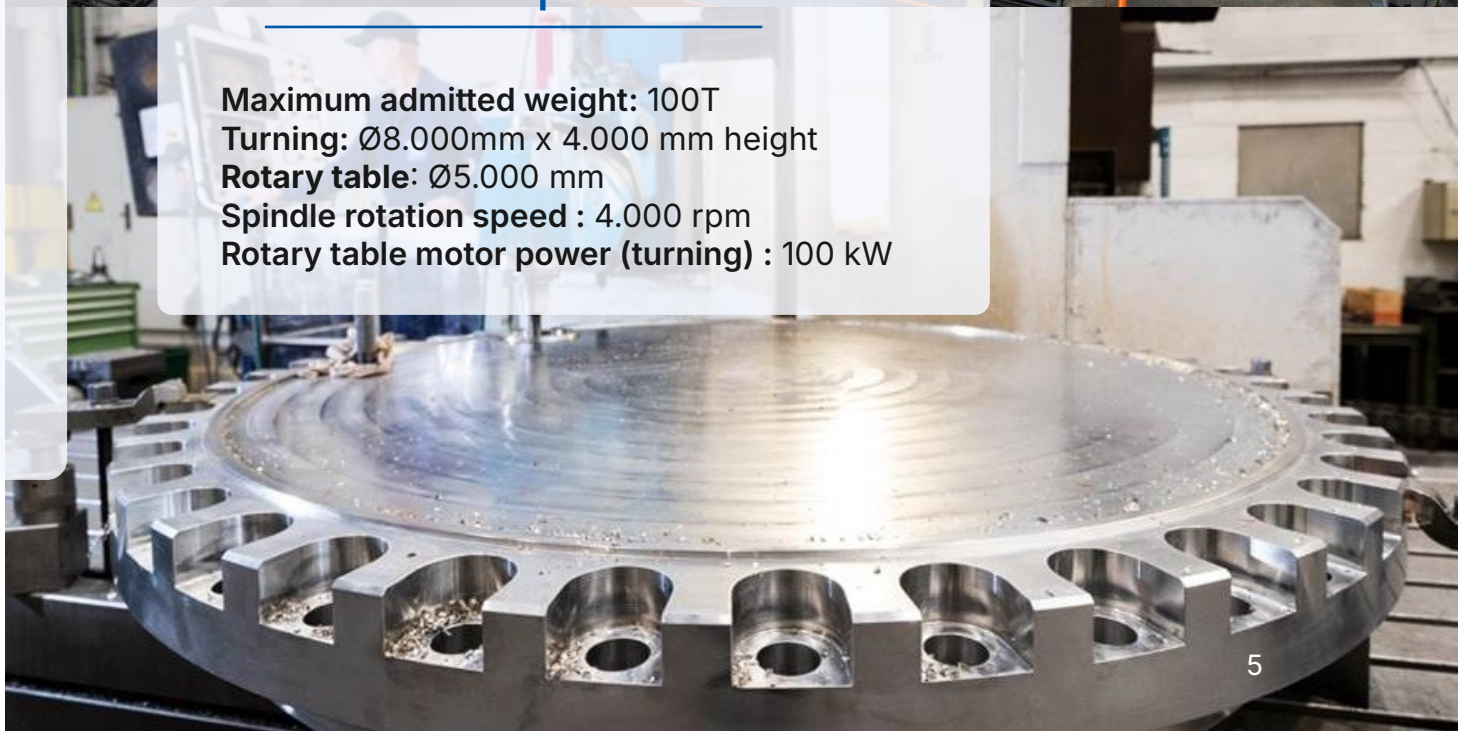
Automatic tool change for turning and milling attachments

Tool magazine with robotic automatic tool changer

CNC control with on-machine programming (ISO, ShopTurn and ShopMill)

Technical capabilities

Maximum admitted weight: 100T
Turning: Ø8.000mm x 4.000 mm height
Rotary table: Ø5.000 mm
Spindle rotation speed : 4.000 rpm
Rotary table motor power (turning) : 100 kW



Precision machining : vertical lathes

Our workshop is equipped with 4 vertical lathes, ideally designed for the manufacturing of your large cylindrical and conical parts



Technical capabilities

Maximum admitted weight : 40T

Maximum motor power: 92 kW

Rotary table : Ø3.000 mm

Turning height : 3.600 mm

Precision machining : conventional lathe

Our workshop is equipped with a conventional (engine) lathe, the ultimate machine tool for material removal and the manufacturing of your large cylindrical and conical components.



Technical capabilities

Maximum admitted weight: 60T
Turning: Ø3.260 mm
Rotary table : Ø2.514 mm
Horizontal travel : 13.000 mm
Maximum motor power : 62 kW
3 steady rests: Ø1.600 mm
Rotation speed : 100 rpm
CNC control with on-machine programming

Precision machining : boring and milling

Our workshop is equipped with boring-milling machines, ideally designed for drilling operations on your large-scale parts.



Boring

Maximum admitted weight : 100T
Horizontal travel : 15.000 mm
Vertical travel : 5.000 mm
Rotary table : 2.400 x 2.400 mm
Spindle diameter: 225 mm
Motor power : 90 kW
Ram section : 600 x 480 mm

Annual machine calibration
Orientable heads of various sizes
CNC control with on-machine programming

Milling

Maximum admitted weight : 20T
Horizontal travel : 9.300 mm
Vertical travel : 1.954 mm
Motor power : 22 kW
Ram section : 600 x 480 mm
Spindle + ram extension : 1.000 mm

CNC-indexed universal head
CNC control with on-machine programming

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ALM relies on a specialized partner for the welding and machining of extra-large metal parts

High-precision gantry machining – very large dimensions

Modern machine fleet for milling and turning very large parts :

- 5-axis bed-type milling machine
- 20,0 x 3,3 × 1,5m (x2)
- 7,0 x 1,5 × 2,0m (x2)
- 4,0 x 2,5 × 1,5 m
- Grinding 2,0 x 0,7 m

Very large bed-type milling machine :

- Table 35 × 7,5 m
- Height 7,35 m
- Rotary table Ø 6 m
- Spindle power 100 kW

MILLING | TURNING | GRINDING

Heavy welding workshop

- Welding of large-sized structures and parts
- Qualified and certified welders
- Complex welded mechanical assemblies
- Control of geometric tolerances over long lengths

WELDING | WELDED ASSEMBLIES | STRUCTURE ASSEMBLY

Heavy assembly & handling

- Lifting capacity up to **200 tonnes**
- Integration, assembly and adjustment of mechanical subassemblies

ASSEMBLY | HEAVY HANDLING | MECHANICAL INTEGRATION

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Assembly and integration

Thanks to our advanced boiler making capabilities, we carry out the assembly and integration of large-scale electromechanical units.

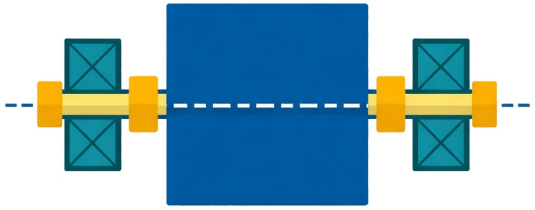
Our lifting and handling equipment, with a capacity of up to 150 tonnes, enables us to perform the final assembly of your equipment, starting from fabricated and pre-machined components.



Balancing

SCHENK dynamic balancing machine

Low-speed dynamic balancing for rotors up to 40T, with a maximum diameter of 3.15m and a maximum length of 6.2m.



Technical capabilities

Motor power: 1,1 kW

Maximum turning diameter: 3.150 mm

Maximum swing-over-bed diameter: 3.150 mm

Table length : 6.200 mm

Welding

Our welders are qualified in 5 welding processes in accordance with ASME IX.

Processes :

GTAW (also known as TIG)

GMAW (also known as MIG/MAG)

SMAW

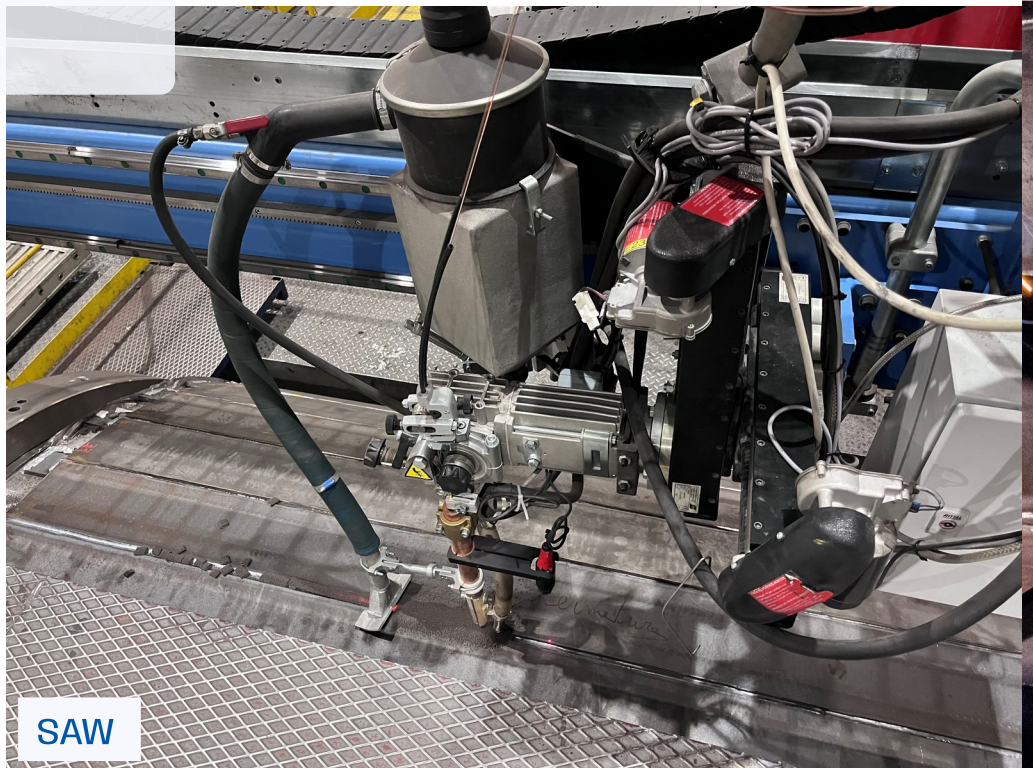
SAW

FCAW

Some of the processes mentioned above can also be used for anti-corrosion cladding or hard facing (joint face cladding/buttering).



Narrow gap



SAW



Special-purpose machinery – Manufacturing of a part required for the decommissioning of the Chooz A nuclear facility

Assembly consisting of two components



Reactor pit sealing device



Frame





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