



PROTEM

A CUT ABOVE THE REST



www.protem.fr
www.protem-gmbh.de
www.protemusa.com

PRESENTATION OF THE PRODUCTS AND MEANS OF PROTEM

PROTEM offers proven expertise to help its customers around the world to achieve their goals.

In this way, PROTEM equipment enables our customers to:

- Cut their operation and maintenance costs.
- Achieve their objectives both in terms of quality, project requirements and deadlines.
- Extend the lifetime of components.
- Reduce the exposure time spent in hazardous environments.
- Improve their overall performance.

Our engineers and technicians will provide you with optimal, individualized solutions for all your maintenance and repair operations.





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MORE THAN 50 YEARS OF WORLDWIDE EXPERIENCE AND TECHNICAL EXPERTISE

Worldwide Leader in the Design and Manufacture of Machining Equipment

Our goal is to play a lead role in assisting operators with weld end preparation applications for their construction, maintenance and repair solutions, including those associated with nuclear, fossil fuels, wind power, hydro power, oil and gas, chemical, tube processing, aerospace, shipbuilding and high purity applications.

This requires an excellent knowledge and understanding of the technical requirements and constraints that are present during component replacement projects or emergency shutdown operations.

To meet the technological challenges of the coming years, we are laying foundations to take research and development to new heights.

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I. General presentation

The PROTEM group is made of 2 autonomous entities (PROTEM and SERCO) and a highly complementary trademark (ULTIMASTER) which aim is to propose a global offer of machine tools and services to cover all needs in terms of machining and welding preparation of tubular components, machining of sealing surfaces on heat exchangers, replacement of steam generators, machining of flanges and valves, dismantling of internals of nuclear reactor vessels.

PROTEM is a French Company specialized in the study, design and manufacturing of portable machining equipment for the construction, maintenance, repair and dismantling of tubes and pipelines. Applications are various: orbital cutting, beveling, facing, counterboring, surfacing, drilling, boring, heat exchanger tube cutting to length, removal of weld beads on exchangers, replacement of steam generators...

With its efficient technical and human resources, the PROTEM group can build portable and transportable machining equipment along with specially developed machines for the needs of major customers from various industries such as Energy (Nuclear, Oil and Gas, Thermal Power Plants, Sustainable Energy), Tubes and Valves Manufacturing, Welding, Naval Construction, Chemical Industry, Aerospace and Aeronautics Industries, High Purity Industry (Pharmaceutical, Semi-conductors, Food Processing, Clean Rooms...) and Defense.

The whole design and production operations are made in France.

Since more than 50 years, the flexibility, the reactivity and the capacity of adaptation to severe issues of PROTEM group have consolidated its position worldwide and allowed its entities to take part to major industrial projects.

Thus:

More than 20 000 PROTEM and SERCO machines are used around the world.

PROTEM and SERCO have designed more than 3500 special machines since their creation.

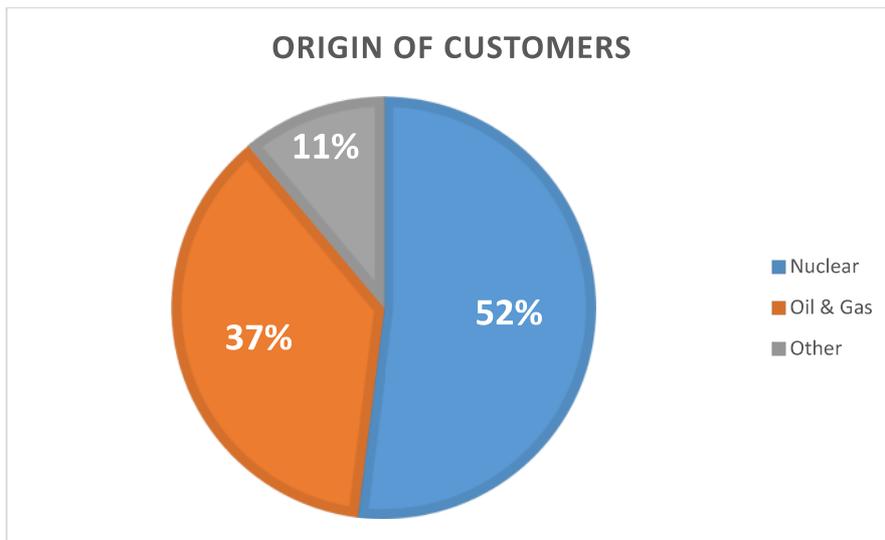
PROTEM focuses constantly on the innovation and the reliability of its machines, this to anticipate the needs and satisfy the expectations of its customers and partners in terms of quality and requirements.

Thanks to its success and the confidence of its customers worldwide, the PROTEM Group is now proud of its position as world leader in the portable machine tool market.

II. References

Energy industry = Customers of Nuclear and Oil and Gas industries.

Other industries = This category includes customers of Sustainable Energy, Aeronautics and Aerospace, Naval Construction, Tubes and Valves Manufacturing, High Purity (Pharmaceutical, Semi-conductors, Food Processing, Clean Rooms...), Welding, Chemical Industry, Constructors of Thermal Power Plants and Defense.



framatome

**John
Cockerill**

TA
TechnicAtome

TUNZINI
NUCLEAIRE



ANDRA

SPIE

e.on

VELAN

**Babcock
Wanson**

ENIM



NAVAL
GROUP



Rolls-Royce



NUCLEAR AMRC



Westinghouse

ALSTOM



**uni
per**



ONET



ENDEL



VATTENFALL



endesa



**Kraftanlagen
Heidelberg**



Sellafield Ltd

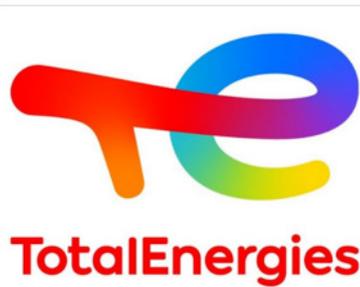


enrichment technology



Siempelkamp

SPX



III. Our machines and machining solutions

ID Mounted Machining Equipment:



OD Mounted Machining Equipment:



IV. Organization

The PROTEM Quality Management System meets the general requirements of ISO 9001-V2015 standard.

PROTEM is certified CEFRI (Certificate number: 667 E).

Our staff who performs interventions on-site has nuclear certifications such as:

RP option: RN, CC, CU – QSP – QSSEP – HN2 – H0 B0 M2 – TEV – Lifting truck – SST – Crane – Sling operator on the ground – GIES 2 – BE – ATEX 0 – Fire extinguisher handling.

Capacity to mobilize the required resources:

- ▼ Within the group, PROTEM has the required resources, and can, at any time, mobilize technicians within its design office, staff dedicated to the project follow up, to the manufacturing or to any other activity if a need for additional staff was noticed.
- ▼ The project's team can, at any time, ask for additional staff to the management of the company.
- ▼ Depending on the subject, a new team will be appointed or any solution to increase available capacities will be studied.

V. Establishments

Head office of PROTEM SAS in Étoile-sur-Rhône (26)



- ▼ Workshop surface = 1000 m² including 400 m² for spares parts and machines stock, 600 m² area for machine assembly and testing

PROTEM SAS facilities in Colmar (68)



- ▼ 200 m² workshop and 300 m² offices

Mechanical design office

- ▼ Surface of 100 m²
- ▼ 10 work stations CAO / FAO - SOLIDWORKS - AUTOCAD
- ▼ Calculation by finite elements on SOLIDWORKS SIMULATION

Subsidiaries and worldwide distribution network

- ▼ 2 subsidiaries: PROTEM GmbH (Germany) and PROTEM USA LLC (U.S.A.), along with distributors worldwide

PROTEM GmbH, Dettenheim (Baden-Württemberg)



PROTEM USA LLC, Evergreen (Colorado)



Head office of SERCO SAS in Montélimar (26)



- ✿ Workshop surface = 600 m² including 300 m² for spares parts and machines stock, 300 m² area for machine assembly and testing. 100 m² for offices

VI. Our services

▼ Mastered services

- Preliminary design studies
- Final design studies
Including mechanical, pneumatic, hydraulic and electrical studies with realization of:
 - General drawing and sub-assemblies' drawings
 - Parts list
 - Detailed drawings
 - Diagrams
 - Dimensioning note
 - Calculation notes
 - Functional analysis
 - Risk analysis
 - FMECA
 - ...
- Parts manufacturing according to drawings file
- Source of supply and integration of serial elements
- Definition and manufacturing of the control-command including the creation of program (programmable logic controller - PLC)
- Assembly in our workshops
- Tests, off load tests and development in our workshops
- Factory acceptance tests
- Training of the customer's operators (intervention and maintenance)
- Packing
- Transport
- Intervention on customer's site which could include:
 - On site set-up
 - On site start-up
 - On site acceptance tests
- Warranty of the equipment
- After-sales service and update further to equipment's obsolescence

Appendices:

- ▶ Certificate ISO 9001 V. 2015 n°1993-1379.12 (28/03/2023)
- ▶ Certificate CEFRI 667 E PROTEM (31/08/2024)
- ✿ Certificate CEFRI 484 E SERCO (30/04/2024)
- ✿ Qualification certificate EDF UTO SERCO (31/03/2024)

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