Confab Equipamentos

Since its foundation in 1943, Confab has pursued constant innovation and improvement, ensuring its prominence among Brazilian companies.

Confab Equipamentos produces metallic equipment used in the chemical, petrochemical, steel and energy industry, as well as in the generation of steam, oil, gas and pulp. Also in infrastructure, engineering and construction segment. Confab Equipamento’s mill, located in Pindamonhangaba, SP, has an annual production capacity exceeding 1 million man-hour/year and relies on modern laboratories for non destructive, mechanical and chemical tests.

The company is part of Brazil’s energy development history and it has already participated in projects such as most important Petrobras’ refineries and platforms, with the supply and assembly of equipment. The company is also a supplier for Angra 1, 2 and 3 nuclear energy mills. Since its foundation, Confab has supplied more than 1.2 million tons of equipment for the domestic industry.

<table>
<thead>
<tr>
<th><strong>EQUIPMENT UNIT</strong></th>
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<tbody>
<tr>
<td><strong>Total area</strong></td>
<td>904,239 m²</td>
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<tr>
<td><strong>Constructed area</strong></td>
<td>56,300 m²</td>
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<tr>
<td><strong>Production capacity</strong></td>
<td>over 1 million man-hour/year</td>
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<td><strong>Maximum equipment volume</strong></td>
<td>50,000 ton per year</td>
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Services

- technical assistance
- commissioning
- engineering assistance
- equipment revamping
- project center
- assembly

Partial manufacture of clad cover for Coke Reactors
Liquid and Gas Storage Tanks

A complete range of solutions for gas and liquid storage, meeting our customers’ most complex needs.

**Tanks**

**Vertical cylinder for liquid storage**
Manufactured under API 620 and API 650 standards, these tanks may present the following configurations:
- Floating roof (pontoon or double deck) tanks
- Self-carrying tapered roof tanks with frame
- Dome roof tanks

**Refrigerated or cryogenic tanks for liquefied gas storage**
Designed and manufactured according to the stored product. They may have a double back – isolated with expanded or simple pearlite, covered with a polyurethane foam and recovered by an aluminum film. In both solutions, the tank bottom is isolated with foamglass bricks.

**Pressurized tanks (Spherical or Cylindrical)**
Used to store liquefied or nonliquefied gases, these tanks are designed and manufactured according to ASME standards, Section VIII, Div. 1 and 2.
High Pressure Vessels and Reactors

Certified to meet ASME, Section VIII, Div 1, 2, 3 and R, Confab manufactures vessels and high pressure reactors, with large diameters and thicknesses. This equipments can be designed and produced with simple or compound wall (multiwall type) using different materials depending on the product to be stored or processed. Steels used go from carbon materials of high strength steels to chrome-molybdenum and chromium-molybdenum-vanadium alloys noble stainless steel, as well as clad or welding-coated materials.
Columns and Internal Parts

The company has provided more than 1.2 million tons of components and equipment for the Brazilian industry, including an important variety of internal parts and columns.

Our manufactory resources enable us produce an entire range of columns/towers, by using materials from carbon steel to special alloys. The equipment may be shipped fully assembled and tested or preassembled in the factory and sent in marked and identified segments for subsequent field assembly.

Offshore Equipment

Confab Equipamentos contributes to the development of suppliers’ maritime oil and gas prospection and production activities, jacket components (tubular, piles and knots), boring bases and process equipment for anticipated production systems.
Petrochemical Furnaces

Expertise gained over more than 60 years in design, manufacturing, electromechanical assembly, commissioning, assistance to the departure of petrochemical furnaces and modernization of existing equipment in accordance with customers’ needs.

Supplying an entire range of furnaces to oil and petrochemical industry, Confab Equipamentos develops activities from the thermal project to the assisted operation. Our people’s experience in the application of refractory concrete/thermal insulation, together with company’s know-how in the manufacture of furnace structure and pressure parts enable us to send the convection set practically assembled to field, thus reducing significantly assembly services.

The company may also provide overall solutions for furnace revamps, aiming to increase capacity, improve effectiveness, automation or adequacy to overall legislation in force. Among its main products are:

- cabin type furnace
- burn-off furnace
- cylindrical furnace
Chemical and Petrochemical Mills

In addition to being a traditional supplier of equipment to the oil and petrochemical industry, Confab Equipamentos is also recognized for providing overall solutions in the supply of plants or complete systems, contracted in EPC or turnkey modality.

By using its own resources and establishing strategic partnerships, Confab Equipamentos develops starting from a basic project, all the activities associated with planning, engineering, procurement, supply, construction and assembly, in addition to assisted operation and training of the mill operating team.

Supported by an integrated administration software, all the activities are planned and followed up by means of flash reports on the evolution of each phase of the project. The main types of projects which have already been performed include:

- atmospheric distillation units
- PSA systems – Hydrogen generation
- MTBE plants
- steam and energy generation units

MTBE plant. Capacity: 79,000 tons per year.

Enlargement and modernization of Refinaria Isaac Sabbá (Reman), in Manaus-AM, increasing capacity from 2,500 m³ to 7,500 m³, including the supply and installation of the new atmospheric distillation unit.
Social Development

Since its foundation Confab Equipamentos has established deep roots in the community in order to provide mutual support between the industrial project and the community, promoting development through partnerships in projects conducted by different entities in Pindamonhangaba.

Within this proposition to promote economic, social and environmental sustainability, one of the company’s mottos is to “help those who help themselves”. The company is focused on projects related to education, health and environment that meet the following criteria: they were created as a community initiative; they benefit a large number of people; they promote voluntary work; they are conducted by entities known for their competence and transparency.

Confab also evaluates the community’s ability to maintain the project, even if the company were no longer present. The goal is to contribute for the projects to grow, strengthen and become stable and independent. The projects supported by the company benefit an average 20 thousand people every year, directly or indirectly.
Pinda Florida Project
The purpose of this initiative, established in partnership with Pindamonhangaba’s City Hall, is to increase scientific knowledge regarding the diversity in the Trabijú Municipal Park, a 6 million m² natural reserve of the Atlantic Forest that holds rare animal and plant species, and stimulate environmental education. One of the project’s important actions was implementing the Pinda Verde initiative, promoting the culture of healthy community vegetable gardens, based on the agroecology concept.

Pinda Marathon
The marathon gathers over 6 thousand people, promoting sports, quality of life and multicultural integration. The event is considered the third largest athletics course in the State of São Paulo and the largest in the Vale do Paraíba, with participation from children, boys and girls, men and women and the elderly. It is one of the official activities performed to celebrate the city’s anniversary.

Study Excellence Awards
The objective of this program is to highlight and award students that present outstanding academic performance in the municipal, state and private High Schools in Pindamonhangaba. For this purpose, it awards up to 200 students every year. To receive the award, each student must present average grades of 9.0 or higher, good behavior and attendance.

Saindo das Ruas (Leaving the Streets) Project
This project aims at improving academic performance and keeping students in schools. The participants, over 2,300 children and teenagers, are supported with reinforcement classes and after-class help. When they’re not studying, they are involved in several activities, such as lessons in street dancing, aerobics, capoeira and cultural manifestations, tin orchestras, outdoor and indoor soccer. There is also a partnership with the local Guri Project providing regular music classes for 300 children.

The Anália Franco Children’s Space
The purpose of the program is to disseminate values and attitudes for over 400 participants, children and teenagers, related to the principles of ethics and citizenship, through theme projects and ludo-pedagogical workshops, strengthening family, school and the community. To promote integral development of its participants the project also has a free pre-college preparatory course for teenagers with very few financial resources. In 2009, the space established a partnership with Cimientos Foundation, from Argentina, and with TenarisConfab to implement a project offering educational and financial support for 30 low-income high school students in Pindamonhangaba.

Palacete 10 de Julho (Small Palace July 10)
This XIX century building belonged to the coffee barons of the city and was used in the past as Pindamonhangaba City Hall. With Confab sponsorship it being transformed into a cultural center to provide the population with an important research tool and to develop art and culture, as well as to promote education for the young. The company has also formed a partnership “Agentes Históricos do Museu a Céu Aberto” (Historical Museum Agents) to grant scholarships for young people to participate in a course of history and restoration projects, the object of which will be the Palacete 10 de Julho.

16,230 children and teenagers are benefited every year by the initiatives focused on education, with the support of Confab Equipamentos. Together, the “Study Excellence Award”, “Leaving the Streets” and “Anália Franco Scholarship” projects make dreams come true.
Quality, Health, Safety and Environment

According to its policy, the company aims at achieving the highest standards regarding Quality, Health, Safety and Environment, incorporating the principles of sustainable development throughout its operations.

Quality
The search for excellence is more than a Quality Policy in Confab Equipamentos. It is a guideline supported by an internationally certified program.

The company uses a unified management system, designed to ensure that clients always obtain the same quality standard in our products and services around the world. Quality Management is integrated in all of our business processes.

Processes to ensure quality
- destructive tests
- 4 MeV linear accelerator for X-Ray tests
- pneumatic, hydrostatic and other tests
- MPI – Materials Positive Identification
- materials testing laboratory
- metrology laboratory
- ultrasound equipment, including ToFD/EP (Time of Flight Diffraction / Echo Pulse) and Phased Array technologies
- industrials radiography and gammagrapy equipments (linear accelerator and 320/225 KV)
- magnetic particle and penetrate liquid

Health & Safety
The Company’s practices not only benefit employees but also the communities where we operate.

Environment
Confab is committed to sustainable business, minimizing the environmental impacts of its operations and using efficiently natural resources and energy.
Certifications

Throughout its history, the company has accumulated the most respected certifications assuring quality and technical capability to provide equipment with high technological requirements.

- qualified to operate in nuclear areas by IBQN – Instituto Brasileiro de Qualidade Nuclear and ETN – Eletrobras Termonuclear, in accordance with CNEN-NN 1.16 standard
- homologated by the National Board of Boiler and Pressure Vessel Inspectors as manufacturer of equipment bearing ASME seal, upon certification and authorization to manufacture pressure boilers and vessels as per the American Society of Mechanical Engineers – ASME (seals U, U2 and S)
- ISO 9000 certification
- R Seal, upon insertion into ASME Quality Manual of the chapter regarding Repairs and Changes, in compliance with the National Board of Boiler and Pressure Vessel Inspectors Code
- the only company in Brazil and first in Latin America having the U Seal, upon recommendation of ASME audit for construction of pressure vessels, according to ASME code, SECTION VIII – DIVISION 3.