

Costruzioni elettromeccaniche bresciane

since 1969



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This presentation of the CEMBRE Group has been prepared to draw the attention of those who are yet to get to know our company and to act as a reminder to those who have visited us and are already familiar with our capabilities.

STATISTICS AND

CEMBRE was founded in March of 1969 and has been involved in the manufacture of electrical connectors and their accessories ever since.

The Founder

Lado Rosani

A COMPLETE RANGE FOR ELECTRICAL CONDUCTION

Industrial marking









Electrical connectors and cable glands

Special tools for the railway industry







APPLICATIONS AND PRODUCTS

The electrical conductor is the focus around which CEMBRE products revolve, having been designed as components of a structured system of solutions for cutting, stripping, crimping, attaching, connecting and identifying conductors.

CEMBRE products are implemented principally in following markets:

- industry
- railway
- power & utilities

There are five product families:

- electrical connectors and accessories for cables
- hydraulic, mechanical and pneumatic tools for their installation
- cable glands and accessories
- products for the railway industry (rail contacts, drills, rail saws, impact drivers)
- products for industrial marking (thermal transfer printers and consumables)

INDUSTRY



RAILWAY



POWER & UTILITIES





Connectors

CEMBRE manufactures a comprehensive range of terminals, pre-insulated end ferrules, singlepole terminal blocks with indirect clamping, which are used in civil and industrial systems for power distribution.

Special connectors for dedicated applications are also available.





CONNECTORS AND TERMINALS

CEMBRE manufactures a wide range of connectors to suit a variety of applications:

- for bare or pre-insulated control panels and systems, suitable for use on low voltage cables for sections between 0.25 mm² and 1,200 mm²
- for medium voltage cables
- for shunts and earthing networks
- for bare overhead lines in copper, aluminium, aldrey and steel-reinforced aluminium
- special connectors, with shapes and sizes adapted to specific applications.



Tools

Our mechanical, pneumatic and hydraulic tools cover all applications for cutting and crimping electrical cables.

At CEMBRE, "quality" goes beyond the raw materials and their treatments and also involves design that ensures the health and safety of the user, minimising for example the noise and vibrations that the tools produce in addition to greater comfort through the positioning of the handgrip in relation to their centre of gravity.

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BATTERY-POWERED HYDRAULIC TOOLS

CEMBRE has successfully developed a range of portable, battery-powered hydraulic tools for both crimping and cutting, making it possible to work easily in confined spaces and without the need for power sources.

They are equipped with OLED displays which make it possible to view various parameters including the force exerted, the charge level and the number of work cycles carried out.

All are equipped with high-capacity Li-Ion batteries.





HYDRAULIC TOOLS

These are based on the "hydraulic jack" principle whereby oil is pressurised in order to push a piston with force; they are available as hand-operated tools or as press heads for use with a pump; they operate at a maximum pressure of 700 bar (equal to 691 atmospheres) and, despite their compact size, are capable of generating considerable force.

The hand-operated tools consist of an integrated pumping body with a toolhead for either crimping or cutting, including built-in safety valves; some have two piston speeds, with automatic switching from high to low speed when the die sets come into contact with the connector being crimped.

This range of hydraulic tools includes models capable of delivering maximum forces of 45-60-80-100-130 kN.



The hydraulic press heads, which are connected to the pumps via a flexible hose, are powered by a maximum pressure of 700 bar and have different dimensions and shapes to suit various requirements and to crimp connectors of sections up to 1,200 mm².

The maximum forces generated vary between 45-60-80-130-230-450-520-600-1,000 kN.

The pumps that use hydraulic press heads can be operated either by foot pedal, compressed air, or an electric motor powered by battery or mains. All are equipped with a maximum pressure safety valve.



MECHANICAL TOOLS

Low cost and used in various fields, such as control panels and electrical systems, for the installation of connectors suited to conductors with sections of up to 120mm².

They are generally made with appropriately treated special steel and require minimal maintenance. The most practical tools are equipped with a mechanical ratchet to control the crimping; they may have one or more fixed or adjustable apertures.

PNEUMATIC TOOLS

Operated using compressed air, these tools are generally suited to installing small-section connectors for large-scale jobs and are characterised by the speed of their cycle times.

Identification & Labelling

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Choosing CEMBRE means working with an expert partner capable of providing consultancy, practical know-how and experience, in addition to quality products.

CEMBRE manufactures thermal transfer printers that use both sheet and roll-based consumables in order to cover all industrial marking needs.

In Italy, CEMBRE manufactures MG4, a thermal transfer printer that can be powered by a battery, meaning that it is portable and can be used close to the electrical panel.



Cable glands

The CEMBRE catalogue offers an extensive range of cable glands and accessories manufactured using materials such as plastic, brass and stainless steel.

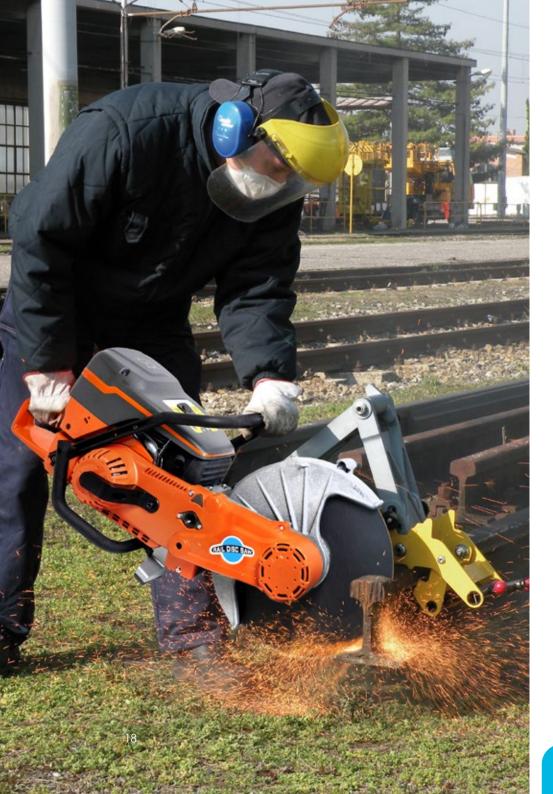




The range includes:

- Polyamide PA6.6 cable glands and accessories
- Nickel-plated brass cable glands and accessories
- ATEX cable glands for use in explosive hazardous
 areas
- Stainless Steel cable glands and accessories
- Seals, couplings and fittings for pipes
- Cable entry system





Special machinery for the railway industry

The railway industry is one of the major users of CEMBRE products.

Our company provides innovative products for the maintenance of rails and railways sleepers, most notably having developed a range of particularly innovative and sustainable battery-powered machines.







CEMBRE offers specific product lines for the railway industry, such as:

- electrical contacts for rail connections and tools for their installation
- terminals, connectors and special tools
- drilling machines for rails and track equipment
- drilling machines for wooden sleepers
- automatic saws for cutting rails
- impact wrench for the maintenance and installation of tracks and railway structures
- machines for the installation and removal of elastic rail fasteners for track refurbishment and adjustment works

CEMBRE GROUP

CEMBRE is always there for its clients!

addition to the In headauarters Italy. in the group is made up 5 overseas subsidiaries: United Kingdom, France, Spain , Germany and Holland to cover the principal markets of western Europe from a commercial and service standpoint. The subsidiary in Edison oversees the American market otherwise

Shangai is for the **Chinese** market.

An expert team of employees is also responsible for exports to all other foreign markets.

153 people "on the road" belong to the commercial department, who are complemented by an extensive network of agents, distributors and importers to ensure proximity to the client **in every part of the world**.

CEMBRE S.p.A. - Brescia, Italy



CEMBRES.p.A. is the Group's historical headquarters. Created in 1969, it is still the technical, manufacturing, logistical and administrative hub to which all of the subsidiaries refer.

CEMBRE Ltd. - Birmingham, United Kingdom

Founded in December 1986, CEMBRELtd. has experienced years of continual growth and today it is a CEMBRE Group manufacturing unit. The head office, laboratories and factory are all situated in Cudworth, close to Birmingham, whilst an active sales force is available to customers throughout the UK.



ı, Italy

() CEMBRE

CEMBRE BV - Eindhoven, Holland



The new CEMBRE BV office, opened in Holland in 2024, completes the market coverage in Europe and serves customers based in Benelux offering a dedicated and local sales team.

CEMBRE España S.L.U. - Madrid, Spain



CEMBRE España S.L.U., began trading in 1994 and rapidly reached a successful position in the national market for electric connectors and the respective tools and it covers the customers' needs in the Spanish Country

CEMBRE Co. Ltd. - Shanghai, China



In 2024 CEMBRE opened a new office in Shanghai to provide Asian customers with immediate assistance and a full range of products. The sales force covers the whole Far East.

CEMBRE S.a.r.l. - Morangis, Paris, France



CEMBRE GmbH - Munich, Germany



Founded in 1997 in order to provide German customers with immediate assistance and a full range of

Since 1998, CEMBRE S.a.r.l, has

continued to develop its presence

in the French market. The main

offices, warehouse and laboratories

are located in Lyon and it covers

the customers' needs in the French

Country

products. The sales force covers the whole of Germany.

Nel 2021 IKUMA GmbH & Co. KG, which is located in the Stuttgart area, merged with the CEMBRE Group

CEMBRE Inc. - Edison, New Jersey U.S.





CEMBRE Inc. has its headquarters in New Jersey and was founded in March 1999, providing a complete range of products adapted to the American market.

It is responsible for technical advice, ales, maintenance and the distribution of spare parts, while customers are also provided with sales and support services by CEMBRE representatives present in different regions of the United States.

OVER 50 YEARS OF HISTORY

1969

March • CEMBRE is founded in Brescia (an acronym of Costruzioni elettro-meccaniche bresciane: Brescia electromechanical engineering), in order to manufacture electrical connectors and tools for their installation.

The production of splices, full-tension connectors and copper terminals begins.





1971-1975

Production begins on: pre-insulated terminals and medium voltage connectors; the first manual mechanical tool, the model TN1; in addition to the first hydraulic head, the model ECW-H.

1977

Production begins at the new site in Via Serenissima.



1979-1984

Production begins on: aluminium terminals and connectors: the first manually operated hydraulic tool, the model HT100-U; in addition to the model HP3 manual mechanical tool and bimetallic terminals.

1986

Foundation of CEMBRE Ltd. in Coleshill, Birmingham, United Kingdom.



1988

Foundation of CEMBRE S.a.r.l. in Bagneaux, Paris, France. Production of the AR60 electrical rail contact begins.



1992

Certification of CEMBRE S.p.A.'s Quality System in accordance with ISO 9001 for the design, production and marketing of electrical connectors and tools and after-sales service.

1994

Foundation of CEMBRE España SL. in Madrid, Spain. Production of the LD-1P rail drilling machine begins.

1997

Foundation of CEMBRE GmbH in Munich, Germany.

CEMBRE on the stock exchange: IPO and listing on the online market of the Borsa Italiana (Italian Stock Exchange).







1998

Production begins on the first battery-powered hydraulic tool, the B50.

The first automated warehouse at the Brescia headquarters put into service.

1999

Purchase of OELMA s.r.l., a company involved in the manufacturing and marketing of cable glands and electrical products in general.

Foundation of CEMBRE Inc. in Edison, New Jersey, United States.

CEMBRE's AR 60 rail contacts are installed along the entire length of the Channel Tunnel and in both the English and French terminals.

2001

CEMBRE enters the STAR segment of the MTA Market of Borsa Italiana.

2002

Acquisition of General Marking, for the production of markers and products for the marking of cables and other electrical components. Production begins on the MARKINGENIUS thermal transfer printer and consumables for marking and a portable, electro-hydraulic pump, the B70M-P24.

2004-2007

Production begins on: the PCM-2P system for the installation and removal of elastic rail fasteners; the NR-11P impact driver; in addition to B15D and B54 battery-powered tools.

2008

Go-live of the new ERP SAP at CEMBRE S.p.A. and certification of CEMBRE S.p.A.'s Environmental Management System in accordance with ISO 14001:2004.

2009

Qingzang Railway, "The CEMBRE NR-11P driver is easy and practical to use; it works at an altitude of 5,000m and gives excellent results" -Chinese Railways Body.

2011

Purchase of 13,500m² of warehouse and office space adjacent to the Brescia headquarters.



2012

Certification of the Management System for the Health and Safety of Workers at CEMBRE S.p.A. and the Italian Regional Offices in accordance with OHSAS 18001:2007.

CEMBRE GmbH is awarded Deutsche Bahn's award for "2012 Supplier of the Year", in the special category for "the development of connectors suitable for use on new generation cables".

The new automated warehouse is put into service.

2013

Launch of the automatic RDS-14P rail saw and the MARKINGENIUS MG3 thermal transfer printer.

2014

Production begins on a new generation of 18.0V battery-powered tools.

2016

Production begins on the battery-powered, electric ECODRILL LD-16B and the portable, electro-hydraulic B68M-P18 pump.

2017

Production begins on a new generation of "Bilinear" tools, the B500ND and B540ND.

2018

IKUMA GmbH & Co. KG (Weinstadt, Stuttgart) becomes part of the CEMBRE Group.

2019

CEMBRE celebrates its 50th anniversary.

2020

Restyling of the logo and brand identity.

2021

Agreement signed for the extension of the manufacturing area by a further 15,000m².

2022

Launch of the new batterypowered, MG4 thermal transfer printer.



2024

New Autostore in UK with 15.000 bins in the automatic warehouse to speed up logistic processes and deliveries.



Opening of two commercial branches: Shanghai in China and Eindhoven in Holland

Launch of the EWO series is CEMBRE's innovative family of split cable entry systems.



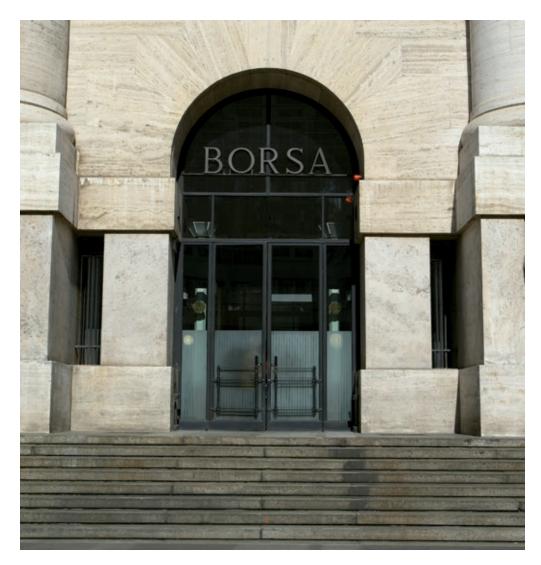
CEMBRE ON THE STOCK EXCHANGE SINCE 1997

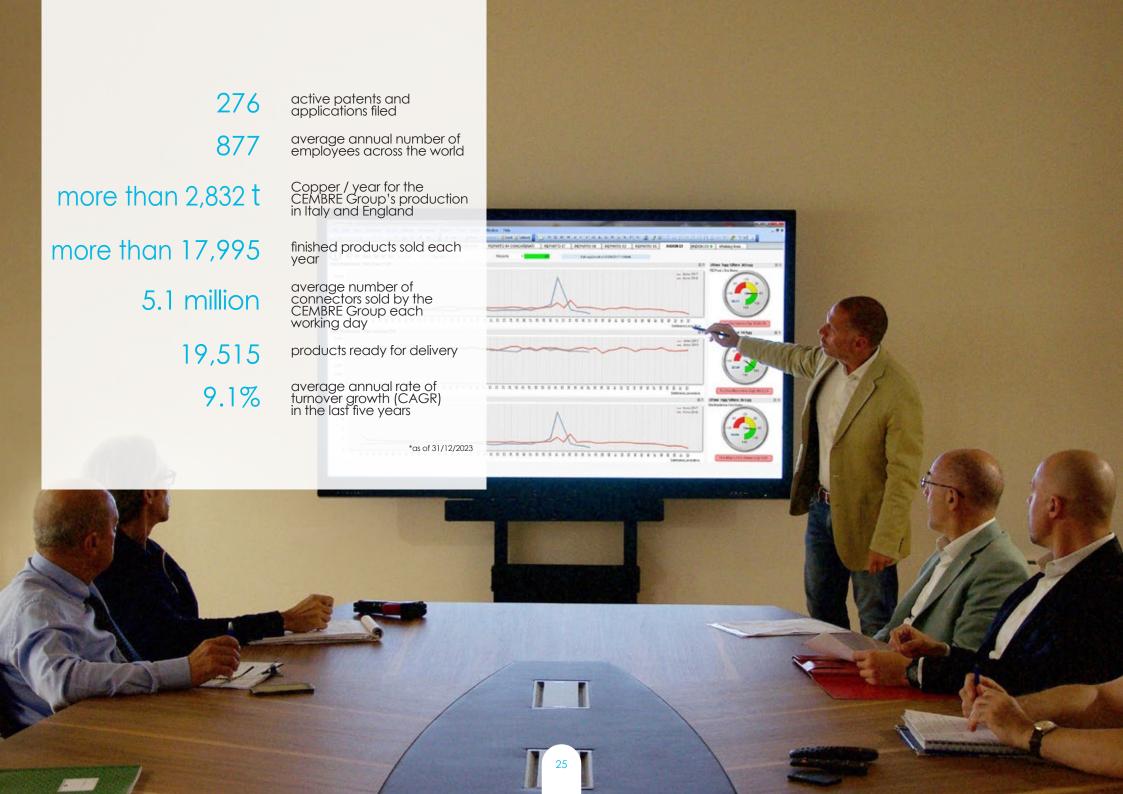
Since December 1997, CEMBRE has been listed on the Borsa Italiana.

This was an extremely important step in the history of the Company which, under the leadership of a highly motivated management team, has opened its capital to the market and investors in Italy and abroad through the issue of 5 million new shares valued at \in 3.01 each.

This is a significant decision that, due to its new financial resources, has enabled CEMBRE to increase its rate of growth.

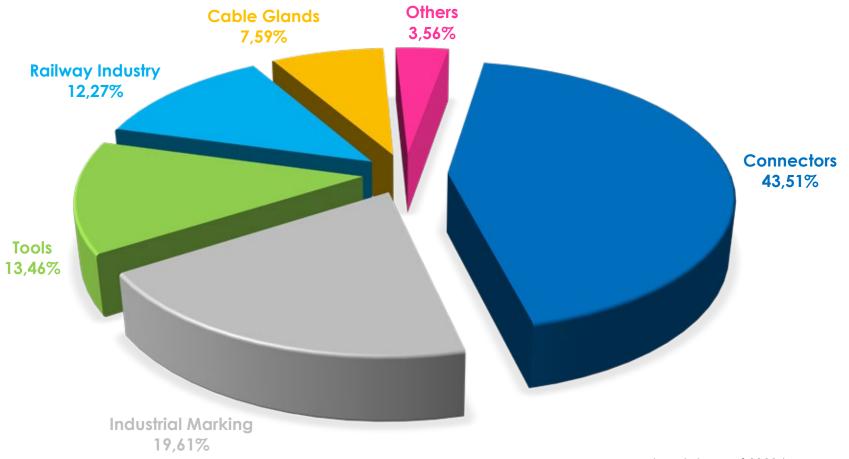
By enhancing its production capacity and its sales network in Italy and beyond, CEMBRE is able to seize the opportunities of a developing market and consolidate and strengthen its position as a leading Italian producer of electrical connectors and the respective installation tools, and one of the largest in Europe,



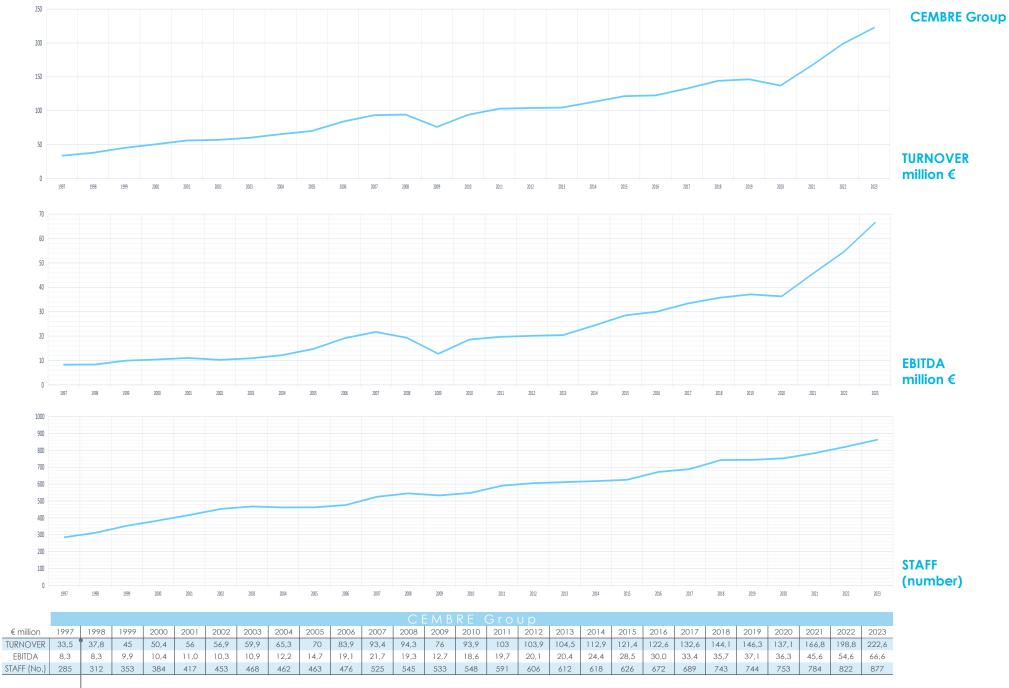


CEMBRE IN NUMBERS

The turnover is made up of various products ranges which can be summarised as follows:



breakdown of 2023 turnover



Listed on the Italian stock exchange

CERTIFICATIONS: QUALITY, ENVIRONMENT, SAFETY

BUSINESS MANAGEMENT SYSTEM STANDARD



Quality, in the sense of a constant pursuit of customer satisfaction, is a philosophy that CEMBRE has adopted since its foundation, at a time when the very concept of quality and the certification of systems to ensure it were unfamiliar to many.

We thought, then as today, that quality is a strategic choice to be rigorously impose day after day and that you must constantly pursue and improve.

PRODUCT CERTIFICATIONS AND MARKS





SUSTAINABILITY



25,695	Total number of annual hours of training provided to employees
24%	Female representation
1.400,37 kW	Installed power in the italian facility
96%	Employees with a permanent employment contract
80%	Waste destineal to recovery and/ or reuse

as of 31/12/2023

CEMBRE S.P.A.

At its Brescia headquarters, CEMBRE's offices, plant, laboratories and services take up a total of 75,000m² of space on a site covering over 145,000m². The intelligent use the available space and rational organisation have created a comfortable, safe and efficient working environment.





Surface treatments

moulding

Numerical control machines

Reception Auditorium Showroom Offices

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CEMBRE LTD.

CEMBRE Ltd. the CEMBRE Group's second European manufacturing unit; founded in 1986, CEMBRE Ltd. has grown steadily, reaching a position of importance.

It began trading with a small warehouse in the nearby industrial area of Coleshill, subsequently moving to the current premises in Curdworth: 16,457 m² of land occupied, of which 8,808 m² is currently built on.

115 people currently work at this site*.

CEMBRE Ltd. is located on the industrial outskirts to the east of Birmingham, the UK's second largest city and the heart of the Midlands, known for its steel and car industries, which is highly industrialised and therefore offers highly qualified and readily available allied industries, complementing our production work.

*as of 31/12/2023









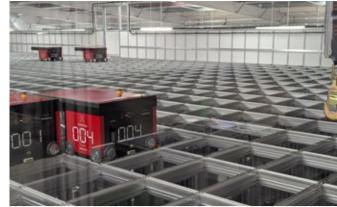




() CEMBRE

It is dedicated primarily to the UK market, capable of responding to the country's specific needs through its manufacturing capability; however, its flexibility also enables it to provide support to the other companies in the group.





TECHNOLOGY AND INNOVATION

The engineers at CEMBRE design both electrical connectors and installation tools, as well as the equipment and machinery for their production. Their primary objective is to make electrical connectors and equipment of the highest level of reliability, practicality and safety at the lowest cost possible.

Their work involves the use of two- and threedimensional CAD programmes and finite element calculation systems.

Coordination between the technical office and production is optimised through the use of CAD-CAM systems. The products are inspected in a fully equipped testing room.



Since 2008, significant investments and targeted projects have led CEMBRE to equip all branches of the SAP Enterprise Resource Planning (ERP) product, unanimously recognized as a world leader.

It has been integrated with Business Intelligence, Customer Relationship Management and Manufacturing Forecasting tools.

The high level of data integration and accessibility, coupled with a rigorous and effective structure of business processes, is both an achieved objective and a starting point for the continuous improvement of the Group's information systems.

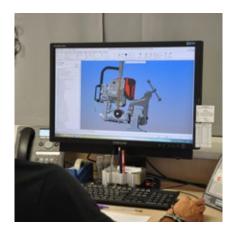


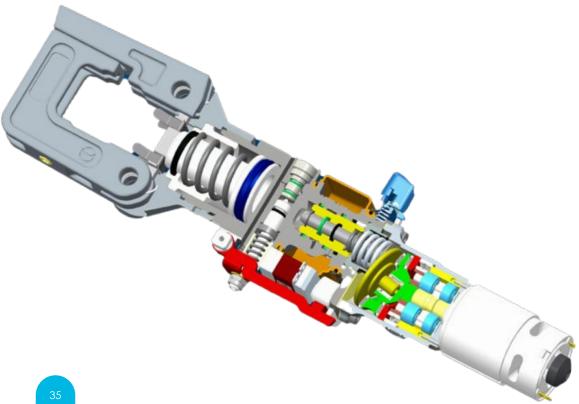




Technical office







BEYOND RAW MATERIALS



CEMBRE has always placed great importance on inspection, research and control, leading to significant investments in its laboratories and prototype department.

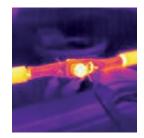
CEMBRE is equipped with:

- equipment for ascertaining the physical state of metals (analysis of the crystalline structure);
- saline test chamber to assess the behaviour of the materials over time in aggressive climatic and environmental conditions;
- instruments to check the thickness of tin plating, nickel plating, zinc plating, and silver plating of connectors;
- computer-aided optical system for checking the exact shape and size of the products;
- equipment for short-circuit tests;
- computer-controlled thermal cycle test benches for testing the ageing phenomena of connections by simulating extreme operating conditions; data relating to thermal resistance and connection temperatures are acquired and processed automatically;
- apparatus for measuring the dielectric strength of the insulating materials;
- equipment for safety testing to UL 486A;
- Infrared thermal camera for real-time monitoring of thermal cycling tests.
- test bench for accelerated testing of resistance to sunlight;
- test benches for mechanical tension tests on components for underground use or for overhead lines;
- test benches for mechanical fatigue tests;
- test bench for pressure tests;
- test bench for checking flammability of materials.



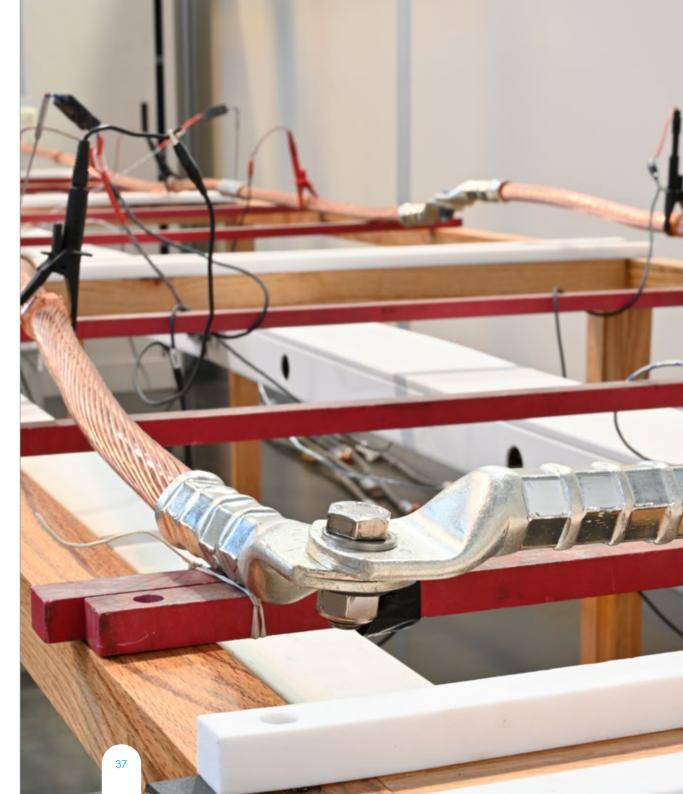
Electrical connectors are only produced using electrolytic copper with a minimum purity of 99.95% and aluminium with a purity greater than 99.5%.

Copper connectors undergo an annealing process in order to optimise the structural characteristics of the metal.









sections of crimped connectors

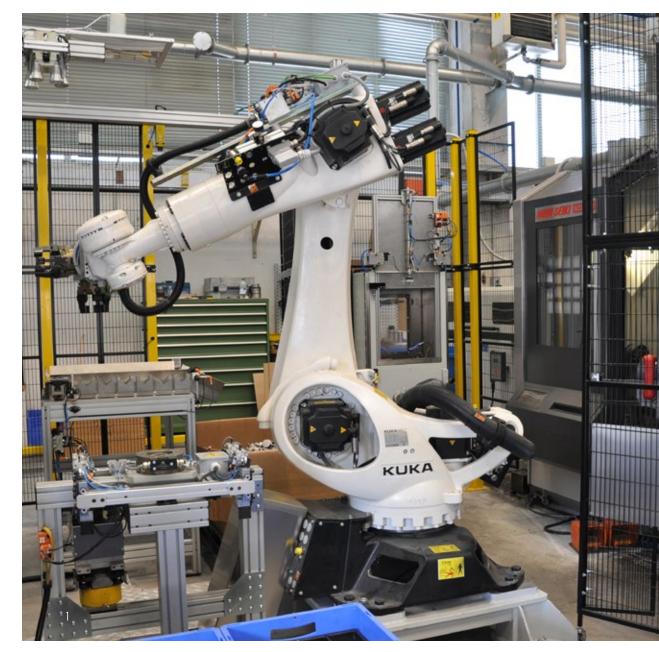


MANUFACTURING

For the production of tools for the installation of connectors and the cutting of conductors, CEMBRE makes use of cutting machines, lathes, numerical control stations and electrical discharge machines which ensure a high standard of accuracy and productivity.

For the production of the various types of connectors, automatic presses powered by smart systems are used to guarantee a highly reliable product.

CEMBRE also designs and builds its own equipment, including the specific machines used to produce connectors and tools; this enables the production of the highest quality products at a competitive price.



- NCM work centres
 Injection moulding presses
 Brass cable gland components
 Semi-finished steel products







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Numerical control machine department



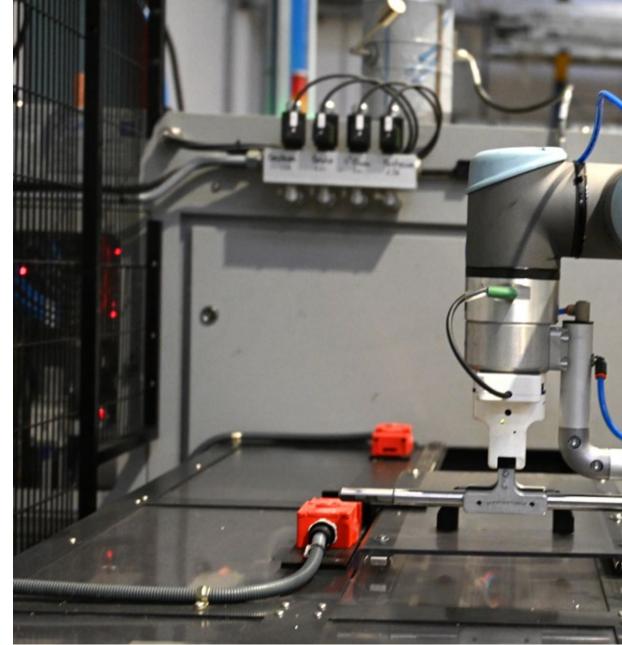




Fully digital label production with laser finishing and cutting machine









Numerical control machine department







Connector components
 Soldering detail





- Pre-insulated terminal assembly department
 Pre-insulated terminals
- Forminal block assembly department
 Galvanising department









- Tool assembly area organised using lean management
 View of the tool assembly department







- 3. Vertical component storages
- Rail drill component
 Electro-hydraulic pumps
- Battery crimping tools
 Hydraulic crimping tool









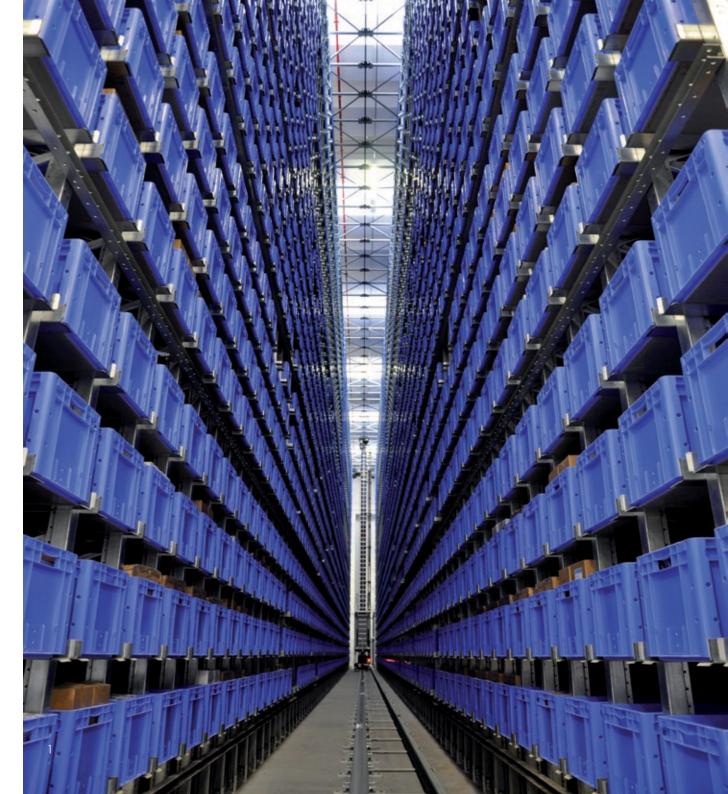
ADVANCED LOGISTICS

In order to ensure a fast and efficient delivery service to its customers, CEMBRE keeps a wide range of the most frequently used products in its warehouse, managing stock movement through its own "Data Processing Centre".

- The automatic warehouse (which has increased operational efficiency and reduced customer response times) comprises shelves 16 metres in height divided into 28 levels, with a total capacity of 60,000 crates.
- Product retrieval is carried out by 6 double deep stacking cranes moving at a speed of 5 m/s.
- The handling capacity of the system is more than 10,000 order lines per working day.
- Considering the order lines delivered, shipping errors in 2023 were in the order of 234 parts per million.

Automatic packaging machines quickly and accurately pack the various types of connectors into bags; these are then placed in modular sized boxes which allow a logical layout on the shelves and ensures items are easy to locate.

The shipping department, which is adjacent to the warehouse, organises the grouping of materials and packages them in the most suitable way for the delivery method required by the customer.





CEMBRE is a special partner of the Customs Office in its capacity as an "Operatore Economico Autorizzato AEOF" (Authorised Economic Operator –Full), the most comprehensive level of authorisation awarded by the Agency in terms of Customs/ Security Simplification.

Customs controls and procedures are simplified as a result of this status, while maintaining the highest level of security with the aim of protecting the entire international supply chain.



- 1. Interior of the automated warehouse
- Overall view of the warehouse
 Packaging department
- 4. Parts of the automatic
- packaging process











() CEMBRE

Making the right connections

Each day in the world over 5.1 million* electrical connections are made using our connectors.

*as of 31/12//2023



CEMBRE Ltd.

sales@cembre.co.uk

CEMBRE S.p.A.

via Serenissima, 9 25135 Brescia Italy Ph +39 030 36921 ufficio.vendite@cembre.com sales@cembre.com
 Dunton Park,
 129 rue Servient

 Kingsbury Road,
 69003 Lyon

 Curdworth, Sutton Coldfield,
 France

 West Midlands, B76 9EB
 Ph +33 1 60 49 11 90

 United Kingdom
 info@cembre.fr

 Ph +44 01675 470440
 France

CEMBRE S.a.r.l.



Calle Verano 6 y 8 Pl Las Monjas 28850 Torrejón de Ardoz

Madrid - Spain

Ph +34 91 4852580

comercial@cembre.es

Geschäftsbereich Energie- und Bahntechnik Heidemannstr. 166 80939 München Germany Ph + 49 89-3580676

info@cembre.de

CEMBRE GmbH

Geschäftsbereich Industrie und Handel Boschstraße 7 71384 Weinstadt Germany

Ph +49 7151-20536-60 info-w@cembre.de

CEMBRE B.V.

Luchthavenweg 53

5657EA Eindhoven

The Netherlands

info@cembre.nl

CEMBRE Inc.

CEMBRE INC.

Raritan Center Business Park 300 Columbus Circle-S.F, Edison, NJ 08837 USA Ph +1 (732) 225-7415 sales.us@cembre.com

Midwest Office 1051 Perimeter Dr #470

Schaumburg, IL 60173



Cembre Electrical Connections Shanghai Ltd.

Room 2201, Jin Hang Mansion, NO.83 Wan Hang Du Road, Jing An District, Shanghai info@cembre.cn sales@cembre.cn

www.cembre.com

/ebsite

Company videc





This is CEMBRE

Cod. 6260577

