

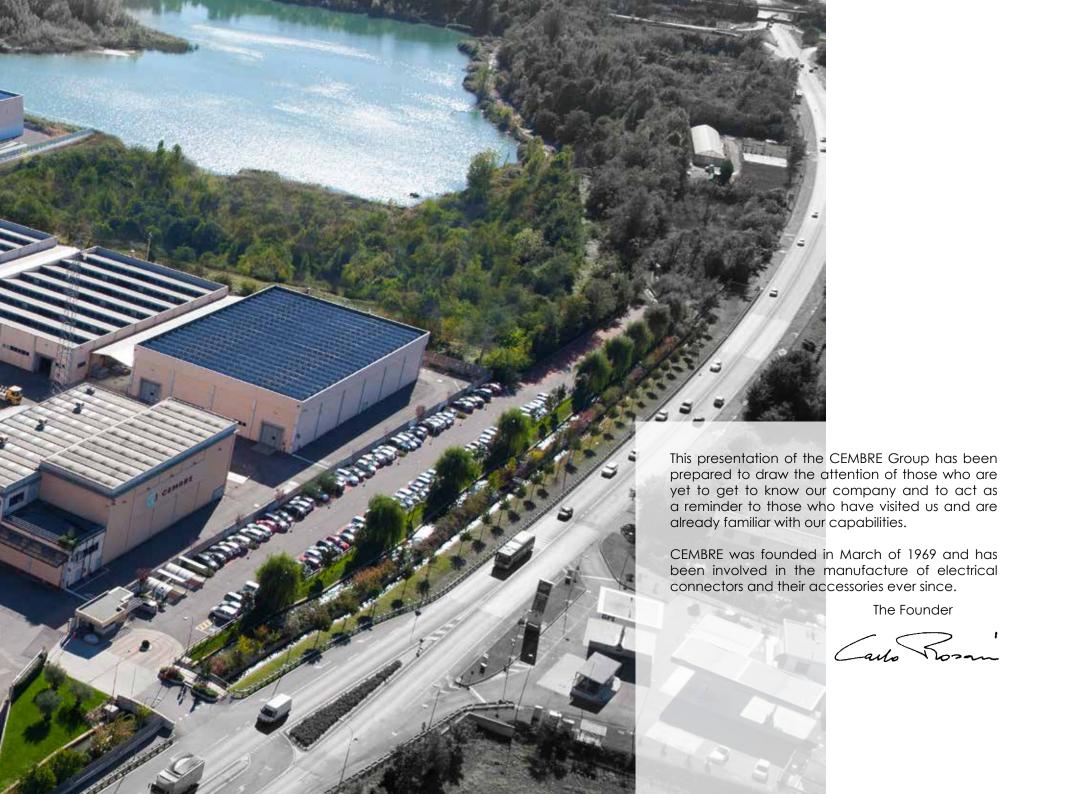
() CEMBRE

since 1969

() CEMBRE

A COMPLETE RANGE FOR ELECTRICAL CONDUCTION	
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A COMPLETE RANGE FOR ELECTRICAL CONDUCTION

Industrial marking







Tools



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, mitre saws, impact drivers)
- products for industrial marking (thermal transfer printers and consumables)

INDUSTRY



RAILWAY



POWER & UTILITIES







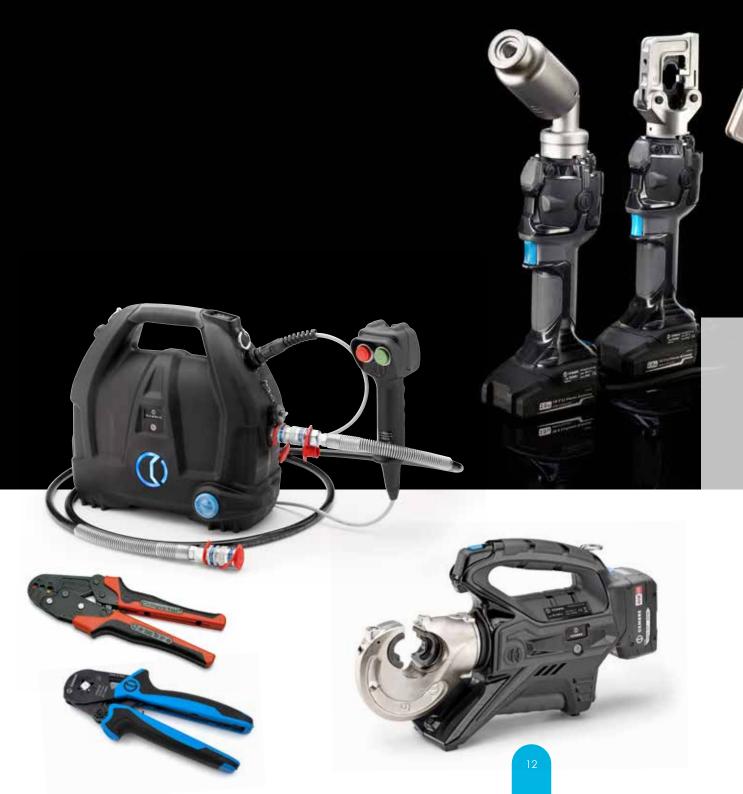




CONNECTORS AND TERMINALS

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.





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 sound and vibrations that the tools produce in addition to greater comfort through the positioning of the handgrip in relation to their centre of gravity.

(() CEMBRE

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-lon 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.



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.









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





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

expert employees responsible for exports to all other foreign markets.

123 people "on the road" belong to the commercial department, are extensive network of agents, distributors and importers to ensure proximity to the client in every part of the world.



() CEMBRE

CEMBRE S.p.A. - Brescia, Italy



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



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 Morangis, in the Paris area, whilst CEMBRE retailers are available to customers in Lyon, Orleans and Toulouse.

CEMBRE GmbH - Munich, Germany



CEMBRE GmbH in Munich was founded in 1997 in order to provide German customers with immediate assistance and a full range of 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 Ltd. - Birmingham, United Kingdom



Founded in December 1986, CEMBRE Ltd. 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.

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. Madrid is home to the main office and warehouse, but CEMBRE retailers are also available in Barcelona and Valencia

CEMBRE Inc. - Edison, United States





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, sales, 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. In 2018 CEMBRE opened a new office in Chicago to better serve such an important area.

OVER 50 YEARS OF HISTORY

1969

March • CEMBRE is founded in Brescia (an acronym of Costruzioni elettro-meccaniche bresciane; Brescia e l e c t r o m e c h a n i c a l engineering), in order to manufacture electrical connectors and tools for their installation.

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



HECHUE E PROVE

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.



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.



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).





Production begins on the

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.



battery-powered, electric ECODRILL LD-16B and the portable, electro-hydraulic

2016



B68M-P18 pump.

2018

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



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.







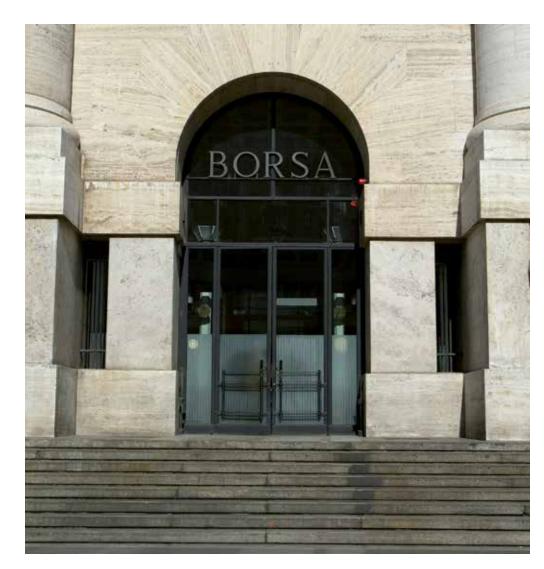
CEMBRE ON THE STOCK EXCHANGE SINCE 1997

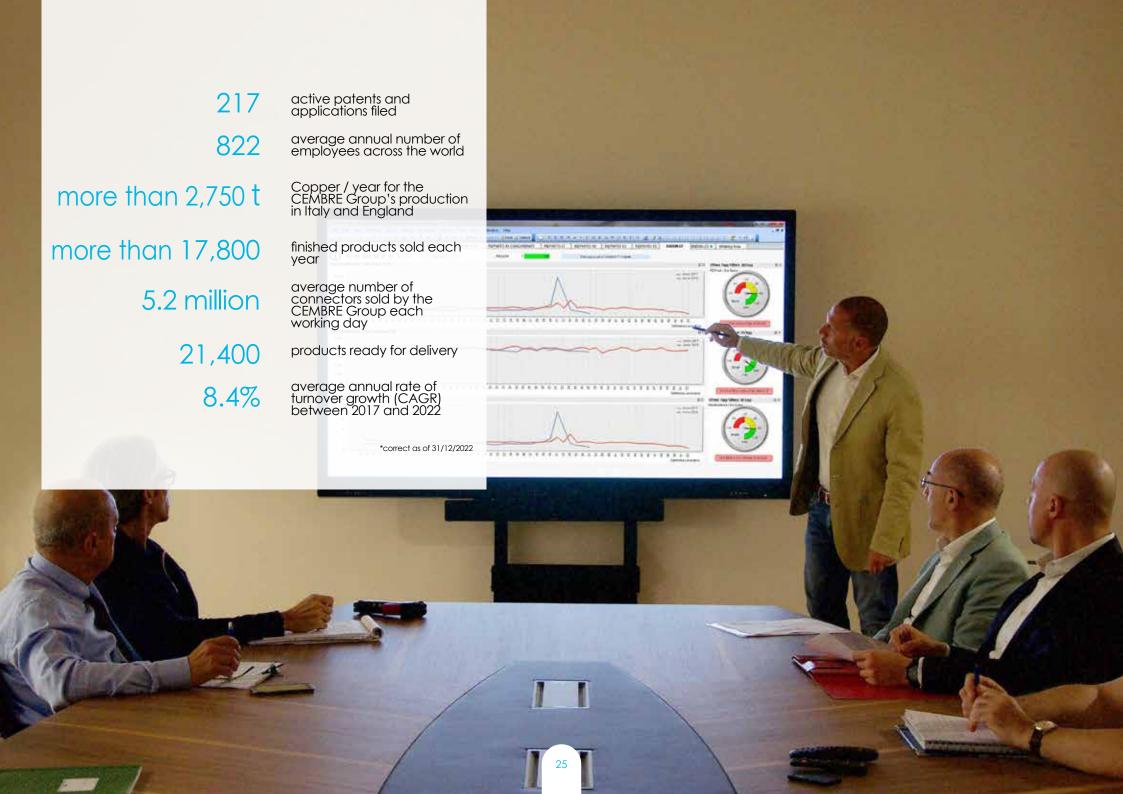
Since December 1997, CEMBRE has been listed on the Borsa Italiana.

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 ≤ 3.01 each.

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

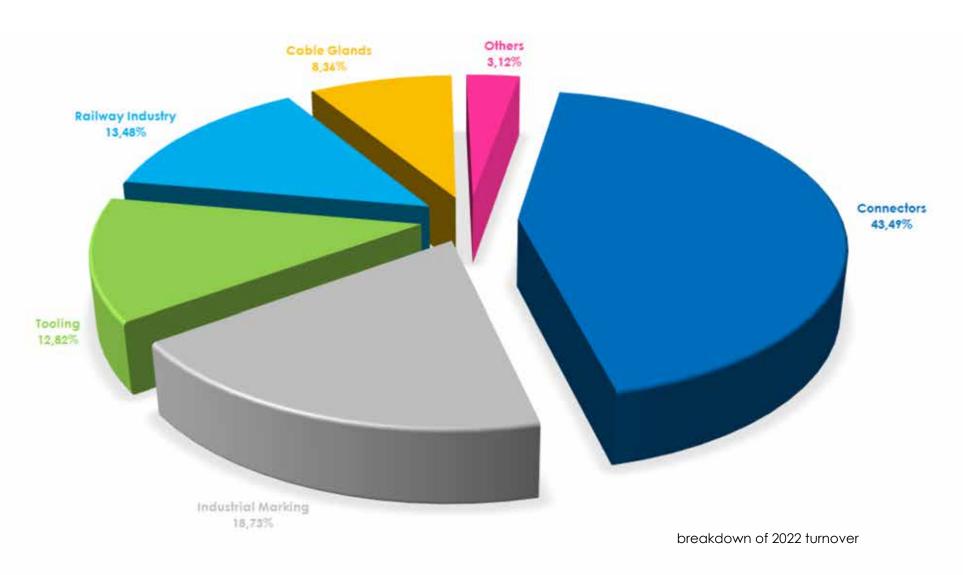
By enhancing its production capacity and its sales network in Italy and beyond, CEMBRE is able to seize the opportunities of a developing market and consolidate and strengthen its position as a leading Italian producer of electrical connectors and the respective installation tools, and one of the largest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





CEMBRE IN NUMBERS

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



CEMBRE S.p.A. — CEMBRE Group **TURNOVER** million € 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 **EBITDA** million € 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022

STAFF (number) 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2011 2012 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022

€ million	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010 2	2011 2	012 20	13 20	14 20	5 20	16 20	17 20	18 201	9 202	2021	2022
TURNOVER	4,6	5,8	7,1	8,8	10,9	11,4	14,4	16,4	18	18,5	18,4	20,5	26,7	28,7	33,5	37,8	45	50,4	56	56,9	59,9	65,3	70	83,9	93,4	94,3	76	93,9	103 10	03,9 10	4,5 11:	2,9 121	,4 122	2,6 132	2,6 14	4,1 146	,3 137	,1 166,8	8 198,8
EXPORT TURNOVER	1,5	1,7	2,2	2,1	2,3	2,9	3,7	4,4	5,8	5,9	6,2	7,2	9,3	9,4	14,7	17,3	20,8	24	27,9	29,4	30,1	34	38,8	46,8	54,1	53,2	45,2	52,5	58,2	2,8 6	5,3 68	,8 72	8 73	,6 77	,1 8/	5,1 87,	8 81,	2 96,4	114,4
% of turnover	32	28	30	23	20	24	25.7	26.8	32	32	33.7	34.8	35	32.7	44	45.6	46,2	47,7	49,8	51,7	50,3	52,1	55,4	55,8	58	56,4	59,5	55,9	56,5	0,5 6	2,5 60	,9 60	0 60	,0 60	,0 5	9,0 60,	0 59,	2 57,8	57,6
EBITDA	1,0	1,2	1,7	2,2	2,9	2,6	4,0	4,3	4,8	4,3	4,5	4,9	7,1	7,1	8,3	8,3	9,9	10,4	11,0	10,3	10,9	12,2	14,7	19,1	21,7	19,3	12,7	18,6	19,7 2	0,1 20	0,4 24	,4 28	5 30	,0 33	,4 3	5,7 37,	1 36,	3 45,6	54,6
STAFF (No.)	107	122	128	141	142	153	172	174	176	183	183	192	214	216	285	312	353	384	417	453	468	462	463	476	525	545	533	548	591	606 6	12 61	8 62	6 67	2 68	19 7	43 74	4 75	3 784	822

CERTIFICATIONS: QUALITY, **ENVIRONMENT, SAFETY**

BUSINESS MANAGEMENT SYSTEM STANDARD



ISO 9001 - ISO 14001 ISO 45001

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

25,205

Total number of annual hours of training provided to employees

25%

Female representation

200 KWp

Power delivered by the solar power system installed at the facility in Italy

In 2022, CEMBRE decided to extend the existing solar power system with a view to reaching

about 1,550 KWp

(A total of 2 GWh self-consumption)

97%

Employees with a permanent employment contract

79%

Refuse recycled or reused

correct as of 31/12/2022

CEMBRE S.P.A.

At its Brescia headquarters, CEMBRE's offices, plant, laboratories and services take up a total of 60,000m² of space on a site covering over 121,000m².

The intelligent use the available space and rational organisation have created a comfortable, safe and efficient working environment.





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: 10,400 m² of land owned, of which 7,350 m² is currently built on.

117 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.

*correct as of 09/2022









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 three-dimensional 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.

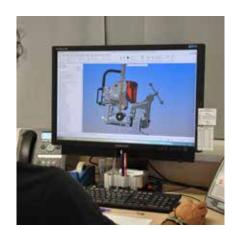


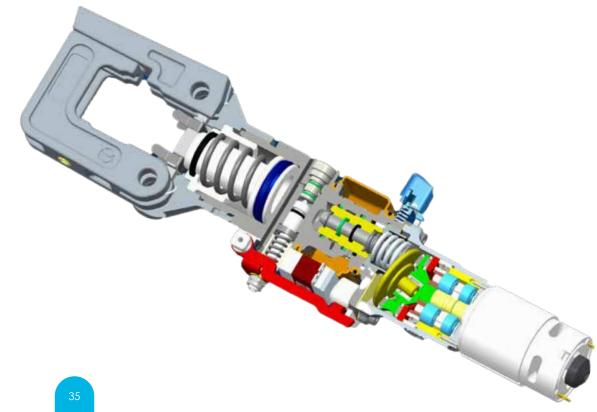




Technical office









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, cadmium 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.

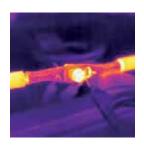




Electrical connectors are only produced using electrolytic copper with a minimum purity of 99.95% and aluminium with a purity greater than 99.5%.

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

sections of crimped connectors









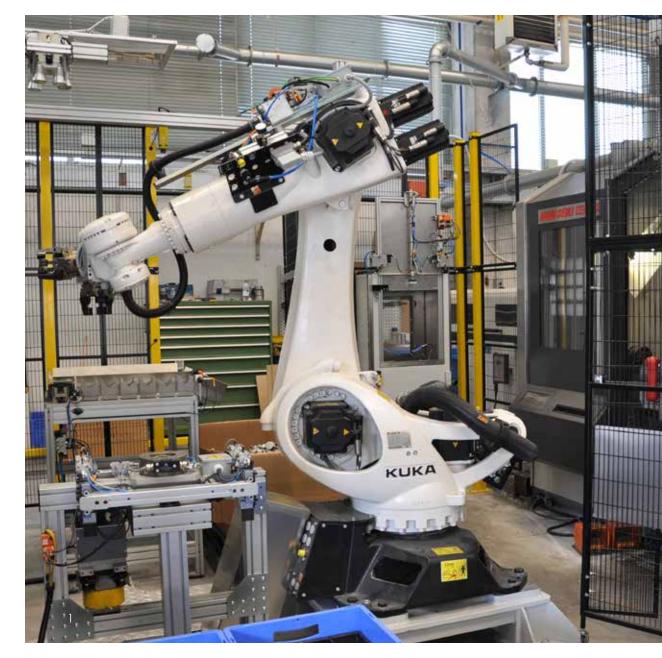


MANUFACTURING

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.

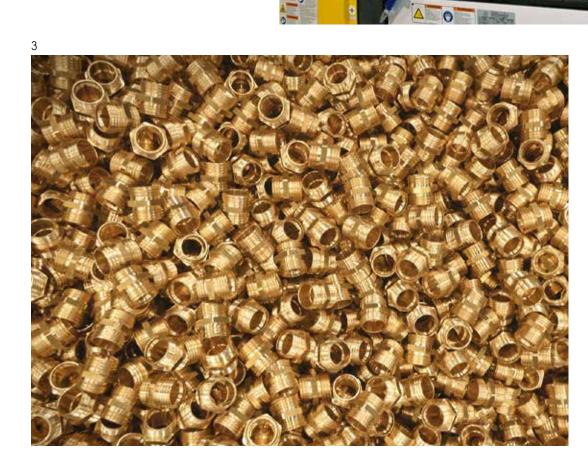
For the production of the various types of connectors, automatic presses powered by smart systems are used to guarantee a highly reliable product.

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









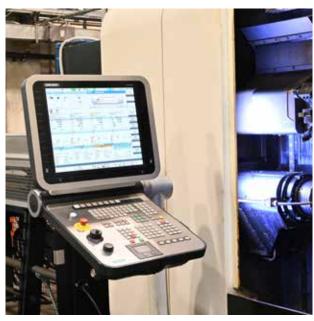






Numerical control machine department







Fully digital label production with laser finishing and cutting machine









Numerical control machine department







- Connector components
 Soldering detail





2

- 3. Pre-insulated terminal assembly department4. Pre-insulated terminals
- 5. Terminal block assembly department6. Galvanising department









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





2











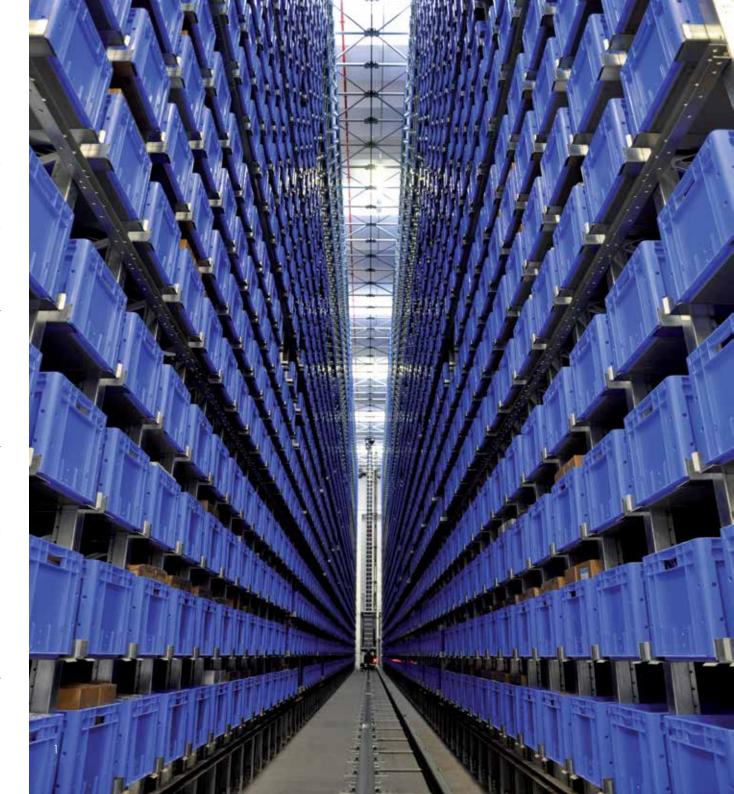
ADVANCED LOGISTICS

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 new 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 2021 were in the order of 200 parts per million.

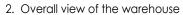
Automatic packaging machines quickly and accurately pack the various types of connectors into bags; these are then placed in modular sized boxes which allow a logical layout on the shelves and ensures items are easy to locate.

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.





1. Interior of the automated warehouse





4. Parts of the automatic packaging process



3



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.



IT AEOF 16 1164











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Company video



This is CEMBRE

Cod. 6260577



