

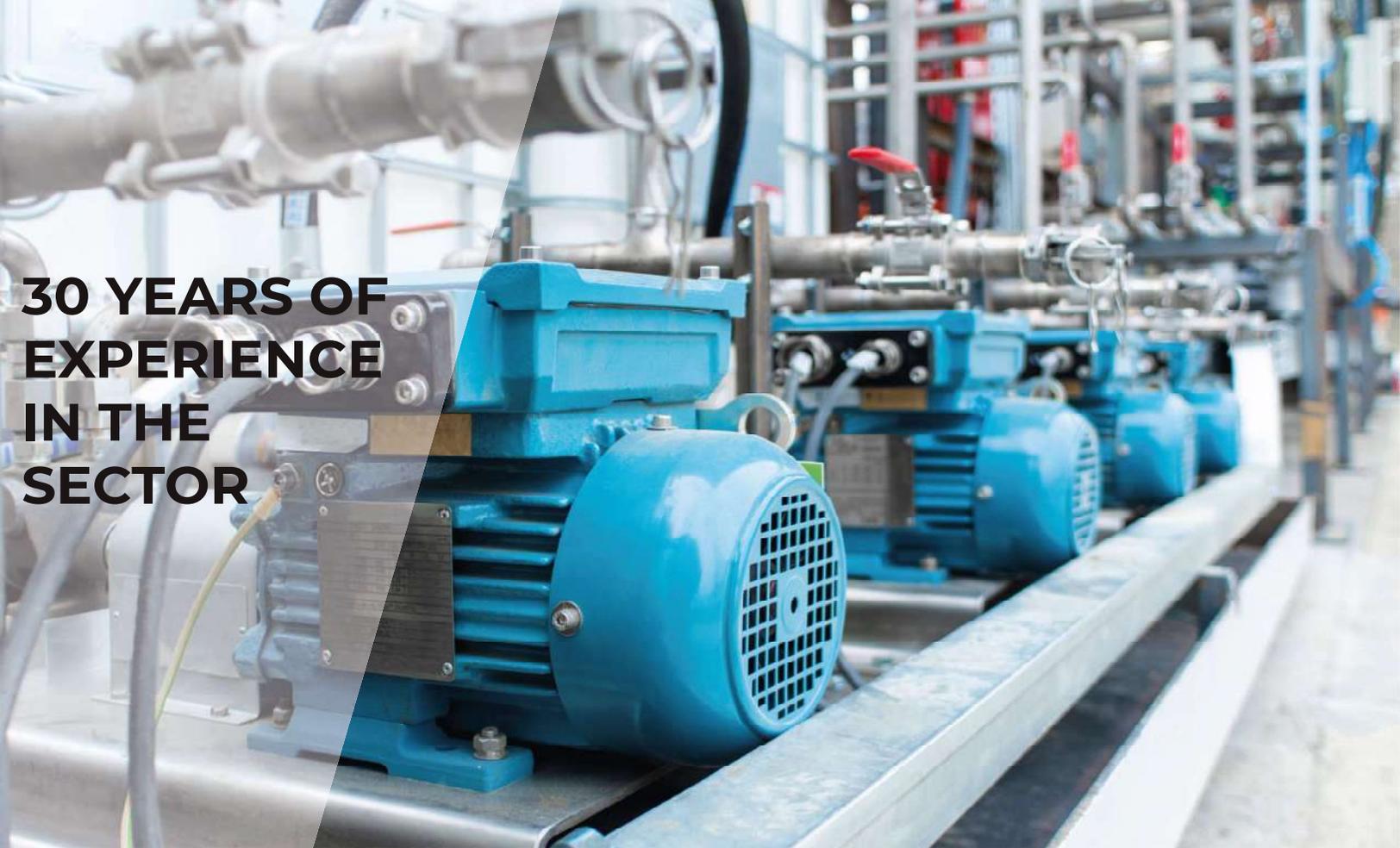


# BUROTEC

## MARKING

- BUROTEC Support you with CE Marking.
- CE Marking: Electrical Appliances and Electronic Devices.
- EMC Directive.
- RoHS I, RoHS II, RoHS III.
- CE Marking Certification.
- Sectors and Material should be applied.
- UCKA Marking Certification.
- UL Marking Certification.
- CSA Marking Certification.
- FM Marking Certification.
- BUROTEC International Presence.





# 30 YEARS OF EXPERIENCE IN THE SECTOR

Burotec is an international company offering flexible services key in hand in the field of quality control, inspection of products and technical audit services, assistance and labor and industrial safety control, Engineering and project management in any country in the world. Burotec advises you on CE marking, obtaining the corresponding international certifications to be marketed in the European market and the implementation of ISO management systems.

Burotec is a Spanish company with 30 years of experience offering European regulatory consultancy services. We help companies comply with regulatory and quality obligations.

## Who are we?

B U R O T E C

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# What does BUROTEC offer?

## B U R O T E C

Thanks to our experience of more than 30 years with different types of procedures to obtain OBLIGATORY certifications applicable to products, our technicians will provide you with personalized attention (product by product). The main actions to be carried out would be:

- BUROTEC Contact point in the USA, CANADA: BUROTEC USA LLC.
- BUROTEC Regulatory and Regulatory Contact Point: UL, FM, CSA and UKCA.
- Study of regulation applicable to the product.
- Application and preparation of the Registration or License File according to applicable regulations.
- Preparation of technical file.
- Processing with official certified body.

If you would like more information, please do not hesitate to contact us at the **customer service phone number +34 91 3768950** or at **inspection@burotec.es**



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# CE Marking electrical appliances and electronics

BUROTEC CE MARKING

CE Marking is obligatory for all products that fall under the health and safety directives established by the European Union. Once CE-certified, products can be sold and distributed freely within the European Union. Electrical appliances fall under the scope of such directives and must therefore bear the CE mark in order to be sold in the EU. Let's have a closer look at applicable EU directives when CE marking electronics.

The Low Voltage Directive 2014/35/EU (LVD) is considered the 'overarching' EU directive for electronics since it is applicable to a wide range of products, including:

- Household appliances.
- Cables.
- Power supply units.
- Laser equipment.
- Electrical components (such as fuses or batteries).

The LVD aims to ensure that electrical equipment within the following voltage limits is safe to use:

- Between 50 and 1000 V for alternating current.
- Between 75 and 1500 V for direct current.

If your electrical equipment falls under the scope of the LVD, you may only affix the CE mark when your product is in accordance with the requirements outlined in the directive. You must also conduct a risk assessment and document this in your technical file.

Keep in mind that electronics are likely to fall under the scope of multiple directives. For example, electrical products which incorporate radio or Bluetooth functions may be subjected to the Radio Equipment Directive 2014/53/EU (RED). Other directives that are relevant to electrical devices or components include:

- Electromagnetic Compatibility (EMC) Directive 2004/108/EC.
- Restriction of Hazardous Substances (RoHS) Directive 2011/65/EC.
- Waste Electrical and Electronic Equipment (WEEE) Directive 2012/19/EU.
- Ecodesign (EU-wide rules for improving environmental performance of products).



# More about the EMC Directive

## BUROTEC CE MARKING

The Construction Products Regulation (CPR) lays down harmonised rules for the marketing of construction products in the EU. The Regulation provides a common technical language to assess the performance of construction products. It ensures that reliable information is available to professionals, public authorities, and consumers, so they can compare the performance of products from different manufacturers in different countries.

## How to get CE Certification for your Construction Product

With the CE-mark you will declare that the construction product is in accordance with all legal requirements of the European market. The Construction Product Regulation 305/2011 is a set of requirements and processes for you as responsible party. When your construction product is in accordance with this set of requirements, the CE-mark can be affixed and the construction product can be legally introduced to the European market.

## Our CE certification service

As responsible entity you have to ensure the construction product and its documentation are clear-cut and waterproof. Where do you start? Every case is different and has its own unique characteristics. Therefore, we offer a swift and tailored CE certification of your construction product. With this certification process, Certification Experts guarantees your construction product and documentation meet all mandatory provisions. All we need is specific information of the construction product and we will arrange the rest.

## Declaration of performance for construction products

When your construction product is in compliance with the Construction Products Regulation, a Declaration of Performance has to be compiled. By drawing up the Declaration of Performance, the manufacturer takes responsibility for the conformity of the construction product and the declared performances. The declaration of performance shall express the performances in relation to the essential characteristics of the construction product, which can be derived from the used harmonised standard.

# More about the EMC Directive

## BUROTEC CE MARKING

All electric devices are subject to electromagnetic interference: they influence each other when interconnected or placed closely beside one another.

Think, for example, of the potential static on a phone or television when another appliance is running nearby. The electromagnetic compatibility (EMC) Directive 2014/30/EU exists to control the effects of electromagnetic interference by outlining the techniques and technologies which must be used to reduce such disturbances. All electrical equipment must comply with EMC requirements before being placed on the market. In short, the EMC:

- Limits electromagnetic emissions from equipment.
- Governs immunity of equipment.
- Seeks to ensure that equipment is not disturbed by radio emissions.



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# Material and Sector to be applied MARKING CE

## BUROTEC CE MARKING

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- **Machinery** – This category covers machines or apparatuses that have mechanically linked components or parts. A minimum of one component must move by a combination of actuators, controls, and power circuits, which function in unison for a certain application. This class also applies to an assembly of machines and interchangeable equipment, which modifies a machine's function. In addition, this category includes safety components for machinery and has exceptions that manufacturers and importers must consider.
- **Electromagnetic Compatibility** – These types of products include just about all electrical and electronic appliances, equipment and apparatuses, which may cause electromagnetic disturbance or have its performance affected by such a disturbance.
- **Low Voltage** – Electrical equipment with a voltage rating of between 50 and 1000 AC (alternating current) and between 75 and 1500 volts DC (direct current) must have a CE marking.
- **Medical Device** – The medical device category covers single-use products and non-automate weighing machines. It does not include in-vitro diagnostic or active implantable medical devices.
- **Construction Products** – This category includes products fabricated for the permanent incorporation into any construction works, which includes buildings and infrastructure (civil engineering). CE markings for construction products are not mandatory requirements for goods sold in UK, Sweden, Portugal, and Ireland, but many other member states may require the CE marking.
- **Gas Appliances** – Appliances used for heating, cooking, hot water production, lighting, refrigeration, or washing, which burn gas or other fuels, must also contain CE markings. This requirement does not apply to appliances where the water temperature does not exceed 105°C or appliances designed for industrial applications.
- **Instruments** – This category includes various devices that require the assistance of an operator during weighing, including shop scales, balances, platform machines and weighbridges, and which determine taxes, bonuses, tolls, and tariffs. It also includes devices for law enforcement, health monitoring and medicine preparation in pharmacies.
- **Personal Protective Equipment** – This classification includes appliances or devices designed for personal wear that and provide protection against a safety or health hazard. Products range from cricket pads to safety helmets.
- **Pressure Equipment** – The directive pertaining to pressure equipment and assemblies applies to apparatuses that have an internal pressure greater than 0.5 bar. This category includes vessels, heat exchangers, pressurized storage containers, industrial piping and accessories, and shell and water tube boilers.
- **Recreational Craft** – This includes boats designed for leisure and sports activities, regardless of the propulsion system. It also includes boats with a hull length between 2.5 and 24 meters, and partially completed recreation crafts and components.
- **Simple Pressure Vessels** – This pertains to vessels welded and fabricated from aluminum or metal and designed to contain nitrogen or air under pressure, 30 bars or less. This classification includes reservoirs for compressor units, as well as automotive and rail braking systems.
- **Toys** – Most toys, clearly intended for use in play by children under the age of 14, will fit into this category.



# UKCA Marking

BUROTEC UKCA MARKING

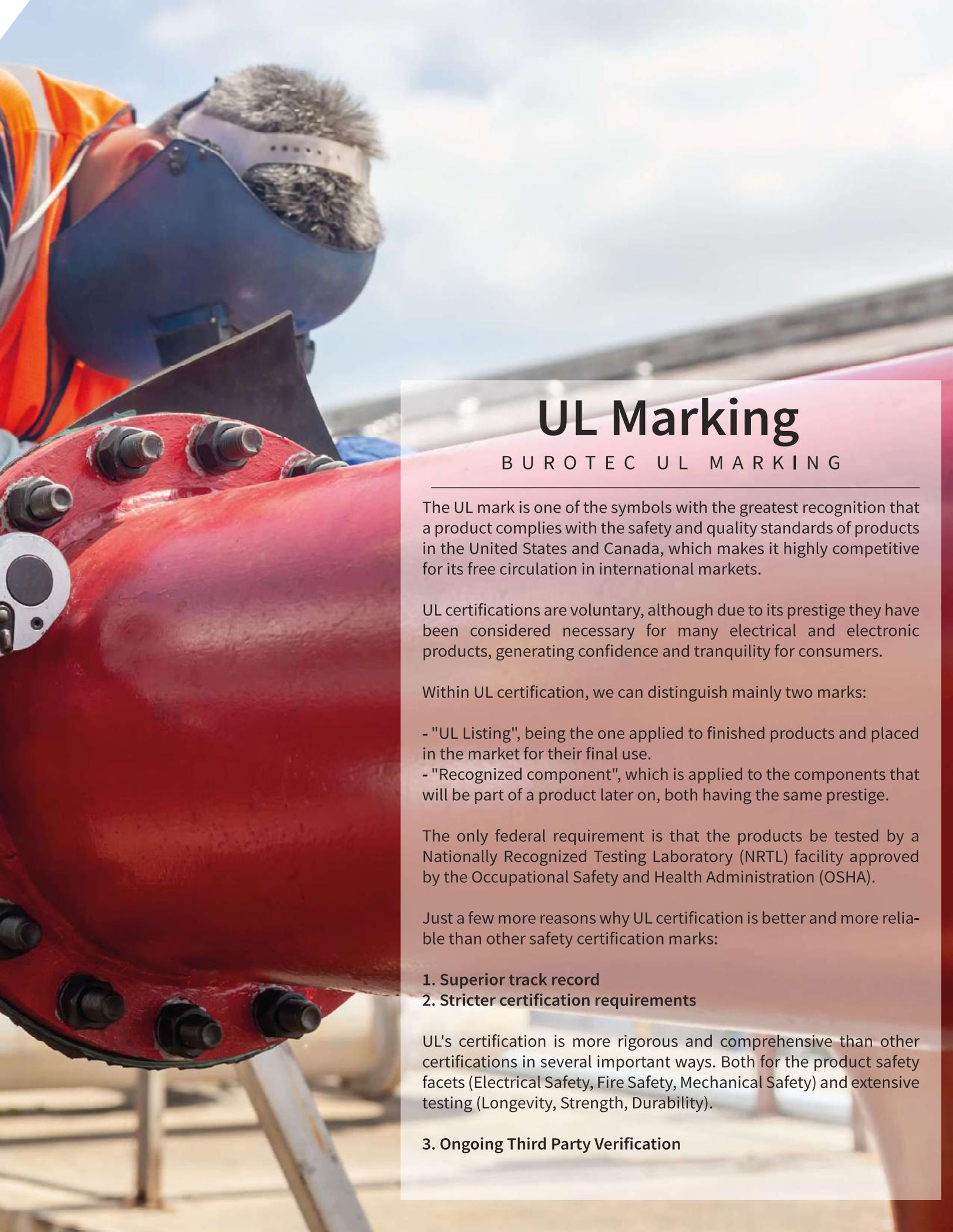
The UKCA (United Kingdom Assessed Conformity) marking will be the new United Kingdom product marking to be used for certain products placed on the United Kingdom market.

## What products are affected by the UKCA marking?

Most of the products currently governed by the Regulations and Directives for CE marking will fall within the scope of the UKCA marking: Machinery, construction products, electrical and electronic equipment, PPE, pressure equipment, toys...

## Selling products in Great Britain

The UKCA mark can be used from January 1, 2021. However, to give companies time to adapt to the new requirements, you can continue to use the CE mark until 1 January 2022 in most cases. However, in some cases, you will have to apply the new UKCA mark to products sold in Britain immediately from 1 January 2021. The recommendation is to be ready to use the UKCA mark as soon as possible before this date.



# UL Marking

BUROTEC UL MARKING

The UL mark is one of the symbols with the greatest recognition that a product complies with the safety and quality standards of products in the United States and Canada, which makes it highly competitive for its free circulation in international markets.

UL certifications are voluntary, although due to its prestige they have been considered necessary for many electrical and electronic products, generating confidence and tranquility for consumers.

Within UL certification, we can distinguish mainly two marks:

- "UL Listing", being the one applied to finished products and placed in the market for their final use.
- "Recognized component", which is applied to the components that will be part of a product later on, both having the same prestige.

The only federal requirement is that the products be tested by a Nationally Recognized Testing Laboratory (NRTL) facility approved by the Occupational Safety and Health Administration (OSHA).

Just a few more reasons why UL certification is better and more reliable than other safety certification marks:

- 1. Superior track record**
- 2. Stricter certification requirements**

UL's certification is more rigorous and comprehensive than other certifications in several important ways. Both for the product safety facets (Electrical Safety, Fire Safety, Mechanical Safety) and extensive testing (Longevity, Strength, Durability).

- 3. Ongoing Third Party Verification**



# CSA Marking

BUROTEC CSA MARKING

Products marketed on Canadian territory must comply with Canadian Product Safety Standards. Canadian legislation requires conformity assessment of all products sold in Canada by providing relevant documentation to ensure that the products in question have been assessed according to the requirements imposed by the Canadian law on safety and energy efficiency.

It is in this sense, that to meet market requirements, CSA's international certification marks indicate that a product, process or service has been tested to a Canadian or U.S. standard and meets the requirements of an applicable CSA standard or other recognized document used as a basis for certification.

CSA certification is voluntary and ensures that the product bearing it complies with all safety standards that apply in Canadian territory. In this way, it is possible to contact bodies in charge of regulating organizations and laboratories in Canadian territory that elaborate standards in addition to carrying out tests that guarantee, in an independent way, the conformity of products and other services to the service of the Canadian citizen.



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A close-up photograph of a worker in a dark blue uniform operating industrial machinery. The worker's hands are visible, holding a yellow tool or component. The machinery is complex, with various metal parts, bolts, and a blue cylindrical component. The background is blurred, showing an industrial setting. A white diagonal line cuts across the image from the top right to the bottom left.

# FM Marking

BUROTEC FM MARKING

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The FM marking certifies certain products and services (for use in commercial and industrial facilities) with a special focus on:

- Objective testing in the prevention of loss of product and service properties.
- Certify that prevention standards are rigorously met.

Obtaining the FM mark is a globally accepted indicator of confidence and market settlement. The process is based on an extensive bibliographic study and laboratory study with widely known procedures.

After the manufacturer's proposal, a process of revision, test and first audit is initiated to elaborate the respective report that produces the desired certificate. Periodically, additional audits are required to maintain the approval of the FM marking. Regardless of the complexity of the product or testing program, our BURROTEC technicians will work hand in hand with you to assure the efficiency and market positioning of your product.



# International Presence

BUROTEC MARKING

Burotec is an International company that offers flexible turnkey services in quality control, product inspection and technical audit services, assistance and control of labor and industrial safety, engineering, and project management in any country of the world.

Currently Burotec is located with a constant presence in Europe, America, Asia, and Africa.



Madrid - España



Houston - USA



Bogotá - Colombia



Shanghai - China



Shuwaikh - Kuwait



Luanda - Angola



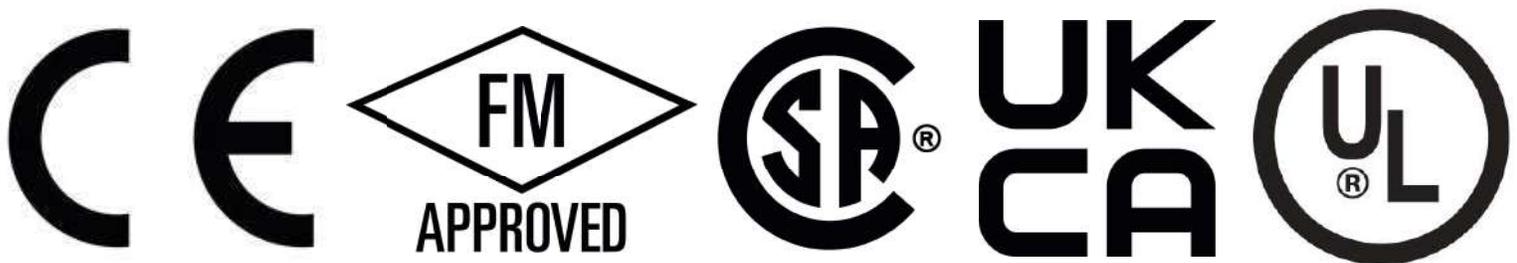
Lisboa - Portugal



La Haya - Holanda

# Burotec

CE - FM - CSA - UKCA - UL MARKING



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