

**Tailor-Made for Harsh and Hazardous Environments**  
From customer need to a technical solution

 **COOPER** Crouse-Hinds



 **ESP**  
Enhancing  
Safety +  
Productivity

# Our know-how

## We are a worldwide leading supplier in explosion protection

We do not only provide the know-how of a company with a long tradition, but also the support of a global service provider.

Thanks to our global presence, we are able to help you quickly and reliably anywhere in the world. With commercial service and technical expertise, with prompt deliveries and, last but not least, with our local infrastructure: we are always there where our customers need us.

Our comprehensive product line:

- Explosion-protected light fittings
- Explosion-protected terminal boxes, control devices and switchgear
- Explosion-protected protected distribution boards
- Explosion-protected plugs and sockets
- Explosion-protected cable entries
- Electrical equipment for heavy duty environments
- Intrinsically safe signal conditioning, industrial networks and over-voltage protection
- Visualization of production processes

It goes without saying that all our products are manufactured according to the latest quality standard DIN EN ISO 9001:2008.

We engineer and manufacture explosion-protected solutions for industrial production processes tailored to your particular requirements. We put your specifications into effect systematically and in accordance with the current legal directives and technical standards.

## Technical approvals become increasingly complicated. We manage that.

In addition to the European ATEX directives on explosion protection, our products comply with international test requirements such as IECEx, Nepsi (China), UL or cUL (America), CSA (Canada), and Cepel (Brasil), as well as with the requirements of Eastern European testing authorities Gost, PCC and many others.

As an international supplier we also offer specially engineered solutions with all necessary test certificates.



# Solutions from one source

## Smart engineering – Quality made in Germany



You have your specific requirements for which we provide the appropriate solution:

- Low-voltage distributions
- Motor controls
- Lighting control systems
- Controls for heat tracing systems
- Monitoring solutions
- Types of protection: Ex-e, Ex-d, Ex-p

Depending on size, specified technology or ambient condition (e.g. aggressive media, heavy duty or even clean room requirements), each project requires engineering expertise and profound experience in explosion protection.

Potential hazards at the site of operation, corrosion due to salt water, environmental influences such as temperature or climate, mechanical load and application requirements such as use in the food industry are only some of the many subjects to be discussed as part of our engineering services.

We submit a fit-for-purpose solution proposal for the respective field of application. Here we also take technical challenges into account, for example:

- Alternative types of protection to minimize costs, e.g. Ex-nR or Ex-p
- Extreme ambient temperatures from -55°C to +55°C
- Redundant process monitoring to ensure operational safety

We can, of course, integrate customer-specific materials, such as frequency converters or electronic sub-assemblies, into the solution.

## Cooper Industries – One-stop shopping



Being part of the Cooper Industries network, we are also able to include components from other Cooper organizations that operate all over the world – competently and in a timely fashion.

Take advantage of our comprehensive approach to serve you with a complete solution.

# From customer requirements

## Set us a challenging task

We focus on the thorough analysis of commercial and technical customer requirements as a basis for a successful project.

Proposals of technical solutions are worked out together with you in personal meetings, conference calls and email conversations.

This puts us in a position to provide you with tailor-made solutions. With us you will not find wrongly dimensioned assemblies made up of crudely arranged standard products.

Cooper Crouse-Hinds - Innovation you can trust from the leader in harsh & hazardous environments.



Customer requirements

Proposals of technical solutions

Design / specification

## We create a fit-for-purpose solution

From specified terminal boxes via control devices to highly complex electrical power distribution solutions: customer requirements are analyzed thoroughly, realized efficiently and documented comprehensively.

Each component and system is subjected to ongoing tests and certification procedures. Our solutions are made available for delivery after they have been cleared by our in-house quality assurance representative.

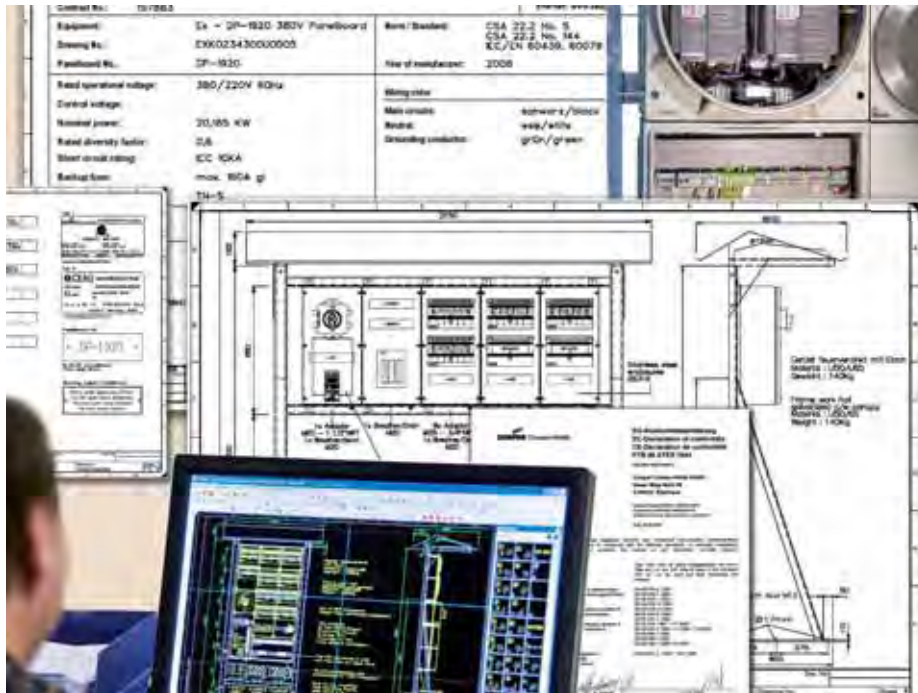
For us the final inspections of projects are well established routines: after all, you or your official inspection representative should be confident that all your requirements are met. This ensures the safe and reliable functioning of the delivered technical systems and that it stays in operation for many years.

In this way we successfully avoid expensive and time-consuming re-working or the risk of failure of the complete installation.

This results in satisfaction on your side and avoids unnecessary costs - for everybody.



# to tailor-made solutions



## With highest precision

For example, you require an explosion-protected electrical distribution board with a wide range of control functions for an important project in the Middle East.

Simply tell us where you would like to operate the installation, how much space you have allowed for the distribution board and give us the circuit diagrams or a functional description.

In close collaboration with you and in accordance with the respective climatic requirements, we will put together the enclosure components, select the interior equipment for the application and clarify the requirements relating to standards and approvals for the specific location.

Cooper Crouse-Hinds – Customer centricity, technical expertise, power of innovation, quality without short-cuts, flexibility and speed.

**Manu-  
facturing**

**Customer  
inspection /  
acceptance**

**Documen-  
tation**

## Complete and packaged

Step by step, in close collaboration with you, we provide:

- Evaluation of customer requirements
- Proposals of technical solutions
- Final engineering design specification
- Manufacturing of your solution
- Customer inspection and final acceptance test
- Comprehensive technical and commercial documentation in multi-languages

Optionally, we also offer a spare parts package for the complete service life cycle of your installation.

You can concentrate fully on your project, while we take care of the details.

For the complete duration of your project we will dedicate a highly-skilled project manager who coordinates all necessary activities.

Thus, you will always have the same contact person, who is familiar with the status of your order and can provide essential information at all times.

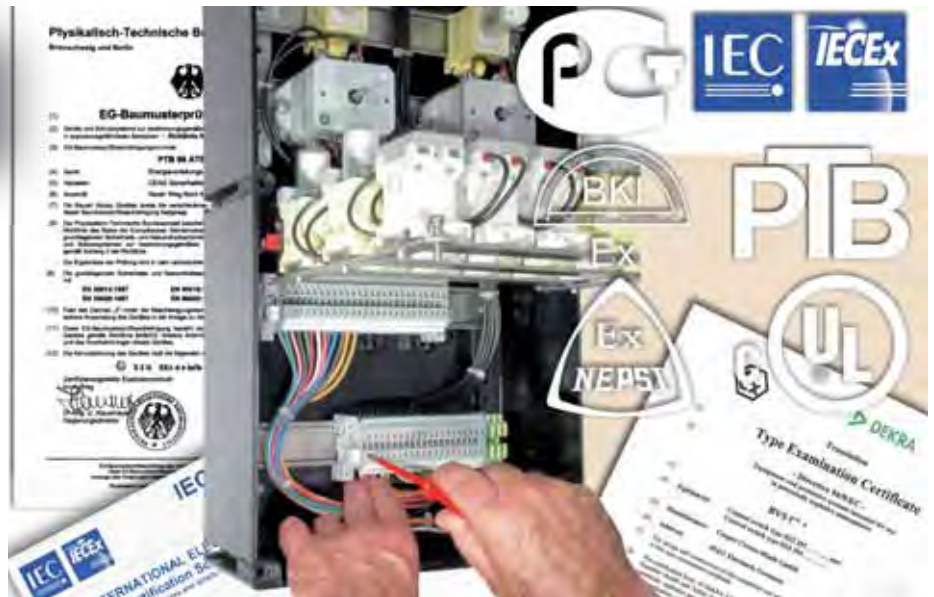
# Safety at all times

## Certification – The basis for safety

In addition to conformity with technical standards, the issue of approvals by so-called “notified bodies” (ATEX Directive 94/9/EC) is part of our day-to-day business. Individual components, sub-assemblies and complete installations are tested and certified by independent authorities. That certificate is the basis for the issue of the “Declaration of Conformity”, which assures you, the customer, that all the important requirements for explosion protection have been fulfilled.

You can only be certain of the safety of the installation if you have such official declaration.

With us you have a strong and competent partner for all matters of explosion protection operating all over the world.



## Quality without short-cuts

Comprehensive quality assurance systems – certified, of course, to the latest directives ISO 9001-2008 – are the basis for our day-to-day behaviours.

Before our products are made available to you, we make sure that they fulfill even the most stringent requirements, because you must be able to rely on them in the event of an emergency.

Our technical solutions protect both property and life. Our customer view us as a trusted partner for safety. Quality has top priority for our highly qualified employees and governs their actions.

The 100% inspection of the thread dimensions of our flameproof enclosures is only one of the process steps for quality assurance to provide you with highest safety standards.

This pays off because our products have to remain fully functional at all times, even under the most adverse ambient conditions.

For this reason, for decades now, our products and solutions are in use in locations where utmost reliability is key.



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## Our expertise at a glance

- Safety due to decades of experience in the engineering of explosion-protected solutions
- Attractive price/performance and “fit-for-purpose”
- Compliance with the latest standards and regulations
- Carrying out of required tests for certification in accordance with the ATEX directive
- Special solutions for extreme requirements related to ambient temperatures and climate, mechanical load and fault-free operation
- Full documentation of the project with all required drawings, specifications, approvals, declarations of conformity, etc.
- End-to-end project management from the customer order, engineering, production planning, production, inspection and acceptance (by the customer or an external inspection office) through to dispatch

Examples of applications:

- **Offshore installations**
- **Refineries**
- **Gas compression plants**
- **Chemical industry**
- **Pharmaceutical industry**
- **Mills, food and transportation industries**
- **Shipyards**
- **Wood processing**

## Safety without boundaries

A strong network of modern production plants all over the world, competent local contacts and partner companies certified by us with knowledge of regional requirements are standing by, ready to help and advise you with your projects in harsh and hazardous environments.

Here, the various divisions of Cooper Industries provide you with the reliability and competence of a large enterprise whose success story goes back more than 175 years.

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