

# Ex Products

for the manufacture of machines and plants

 **COOPER** Crouse-Hinds



## Your reliable partner for explosion protection

You have the assignments and the know-how for the manufacture of machines and plants. Day after day you develop forward-looking solutions for your customers – task-related, innovative, reliable. In order to be able to put this core competence to efficient use, you need competent partners to cover the safety-relevant sectors – for example, explosion protection.

Cooper Crouse-Hinds GmbH has immense resources of experience, skills and know-how in the field of explosion protection. As part of the Cooper Industries Group, we are the largest manufacturer of explosion-protected electrical apparatus in the world. Luminaires of the traditional CEAG brand were already setting standards in safety technology over 100 years ago.

We are committed to technological progress and develop and produce a range of products that fulfils all the requirements currently placed on a modern technology for the production of explosion-protected electrical installations. Our business activities include illumination, safeguarding, signalling, controlling and the distribution of electrical energy in hazardous environments.

Products with the traditional CEAG trademark are state-of-the-art products and stand for safety, reliability and innovation in a demanding and constantly changing business sector. Particularly stringent quality controls ensure the high standard of luminaires and electrical apparatus. An investment that pays off; after all, our products have to be fully functional at all times, even under the most adverse conditions.

Because we are constantly in touch with the operators of our products, we are able to react directly to the changing requirements of a demanding business sector. Thus, we are constantly optimizing our product range and adding new developments to suit every application. It is safe to say that we also have the suitable explosion protection solution for your application. Why not look for yourselves!



# CEAG



## Worldwide safety



Ex



Be on the winning side with us as your partner in safety-related matters, for our products fulfil the requirements of the latest directives and standards-worldwide! In addition to systems and components according to ATEX, we also provide solutions with approvals for use in those parts of the world where the IEC and NEC standards prevail, e.g. our Spec-One product range.

What is more, we also have many other international approvals, e.g. for the eastern European countries, China or North America. This means that, even when exporting your high-quality plants and machines, you need not worry about the approval of the electrical apparatus. Just speak to us. We have a suitable solution for each standards area.

And for each area of operation, since for decades our customers throughout the world have been relying on our products, e.g.:

- Chemical industry
- Petro-chemical industry
- Pharmaceutical industry
- Offshore
- Food and luxury food industry
- Fire and rescue services
- Transport of hazardous goods
- Waste disposal and sewerage

It goes without saying that we do not only supply you with reliable explosion-protected luminaires and electrical apparatus for worldwide use for a wide variety of applications, but we also provide an on-site service, as we have a widespread network of branches and service companies all over the world.



# Our products for your application

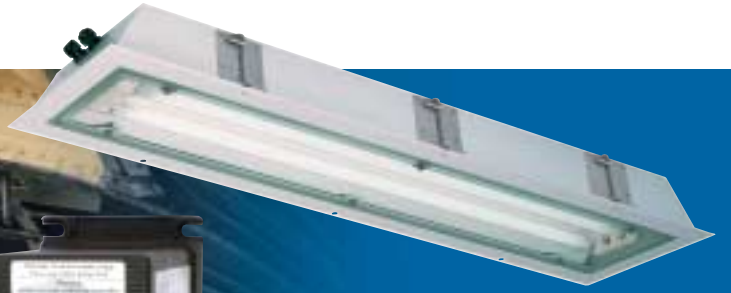


## Dosing and weighing

Every milligram counts when manufacturing pharmaceutical products, as the exact composition of the product decides over the health of a lot of people. Therefore, the exact measurement of quantities is of particular importance in this field.

Opening and closing valves, measuring filling levels and quantities – a lot of work for your measurement and control devices. To ensure that all actuators and sensors function safely and reliably, even in hazardous areas, we can supply you with apparatus to suit your exact needs: from stainless steel industrial terminals to modules for the safe limitation of electrical energy in Ex-i circuits.





### Surface coating

Primers and varnishes are applied and dried in paint shops and spray booths – this production phase requires a lot of care and attention to detail. Here good lighting is particularly important for a high quality finish. However, reliable explosion protection is absolutely essential for the operational safety in these areas. Our explosion-protected luminaires provide optimum lighting combined maximum safety.

### Conveying and milling

Combustible dusts can cause disastrous explosions. Mills, mixers and conveyor systems in explosive dust atmospheres have to be designed accordingly – and they all need electrical energy: reliable, safe and explosion-protected.

Thanks to our switches, intermediate motor terminal boxes and our plugs and sockets for use in explosive dust atmospheres, we can provide you with a safe power supply for your drives. We also, of course, have dust-Ex-approvals for our luminaires.





## Reprocessing and disposal

Our industrial society would be unthinkable without the disposal and reprocessing of waste materials and sewerage. Here the decomposition products of organic components can create an explosive atmosphere. For this reason, only explosion-protected luminaires and apparatus should be used in this area.



## Mixing and stirring

The mixers used in the chemical industry do really heavy work. Their constant stirring action mixes various ingredients to a homogeneous substance: a production stage that requires particular care. Thanks to our explosion-protected switches, intermediate motor terminal boxes and plugs and sockets, we can not only provide you with a safe power supply for drives, but also ensure your safety during maintenance work, because, if you pull out the plug, the mixer is definitely shut off!



## Our experience and know-how for your safety



## Research and development

Our sophisticated products are state-of-the-art products. In order to be able to maintain this high standard and to put the latest findings into practice, we constantly work on innovative concepts for an efficient explosion protection in the future.

Here the dialogue with our customers is of particular importance to us. Because we are constantly in touch with the users of our products, we are able to react directly to the changing requirements of a demanding business sector. Thus, we are constantly optimizing our product range and adding new developments to suit every application.

It is safe to say that we also have a suitable solution for your application. Why not see for yourself!

## Uncompromising quality

Before making our products available to you, we have satisfied ourselves that, they fulfil even the most stringent requirements, because, in the event of an emergency, you have to be able to rely on them. Here, the test for water- and dust-tightness (IP degree of protection) is only one of the many tests our products are subjected to. Unlike many low-cost suppliers, we do not leave our quality assurance to chance, nor do we leave it to our customers.

## Support

We take the wishes expressed by our customers very seriously. Our Customer service is our most important maxim. That is why our expert field sales engineers, offer you practical solutions on-site. In our Customer Care Centre, we only employ specially trained technicians, who advise you competently and individually. With us each customer has an employee who considers himself personally responsible for that customer and can help him with the realization of special, individual solutions. It goes without saying, that in such cases, we also employ special teams of experts, but you only have one contact person who will look after you and your business as a personal matter.

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In the interest of further technical developments, we reserve the right to make design changes.

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