



Harsh & Hazardous

H&H

Hubbell Harsh & Hazardous Magazine ADIPEC Edition November 2017

A photograph of an offshore wind farm at sunset. The sun is a bright orange circle on the horizon, casting a warm glow over the sky and the dark sea. Several wind turbines are visible, their silhouettes against the colorful sky. The water in the foreground is dark with gentle ripples.

Beatrice

bringing the Hubbell
brands together

HDL 106

Introducing our very latest LED luminaire

Glandular Fever

Why the Hawke Universal is simply the best



**The future of hazardous
area lighting is back...**



HDL 106

Newly re-certified, re-tested and re-conditioned.

LED SOLUTIONS

..... *For Harsh & Hazardous Locations*



www.chalmit.com



Welcome

Hello, and a very warm welcome to the first ever edition of H&H magazine from all of us here at Hubbell Harsh & Hazardous.

This year has been a particularly busy year for all of our brands. With new products from Hawke, Chalmit and Killark and exciting product updates from GAI-Tronics we really do have a lot to share with you. In this edition, the spotlight is on our new HDL106N LED luminaire. Having acquired the product line from Hadar Lighting in 2016, we're now very proud to re-introduce this luminaire to hazardous area market. Find out what makes the HDL106 the 'future of hazardous area lighting' on page 4.

We're also celebrating the one-ness of our brands in this edition. We're very proud to be able to offer our customers one solution across multiple brands. Projects like Beatrice (p.8) and strategies like Vanguard 2025 (p.7) really show how we're changing from a selection of brands to a bigger, stronger solutions provider. Leveraging the power of Hawke, Chalmit, Killark, GAI-Tronics and Metron we can offer our customers everything in one place – from lighting to communication systems! And we certainly think that's something worth celebrating.

So, without further ado – enjoy ADIPEC 2017 and we hope to see you at stand 8523.

*The Hubbell Harsh & Hazardous Marketing Team
Olivia Serrage, Millie McRoberts & Katie Bradford*



Contents

- 04** **Lighting up your future**
10 facts all about LED.
- 05** **LED with Attitude**
Re-introducing the HDL106.
- 06** **EA Enclosures**
All about the Hawke EA Range.
- 07** **Vanguard 2025**
The way of our future.
- 08** **Beatrice Windfarm**
A complete solution.
- 10** **New! Fibre Ex**
The latest in fibre optic connectors.
- 11** **Universal - What makes this gland so special**
An impressive history.
- 12** **Survival of the Fittest**
The GAI-Tronics Auteldac 5.
- 13** **Killark Lighting**
Meet the LALFP LED.
- 13** **Design HUBB**
Revolutionising your work flow.
- 14** **FireMate and ToughMate**
Safety where and when you need it.



Back, with attitude. HDL 106



The Hadar LED HDL106 is back with a vengeance.

Freshly re-certified, re-conditioned and re-tested, the new and improved HDL106N is set to take the hazardous area lighting market by storm. We talk to Chalmit Lighting product manager, Ken Eddleston, about what makes this luminaire the one to watch.

As easy as 1,2...LED!

Olivia Serrage tells us how Chalmit Lighting is making it easier for their customers to make the switch to LED.

Although the benefits of LED are numerous, the prospect of switching out your traditional luminaires can seem daunting. The cost of replacing existing lighting enclosures combined with the time and money spent on installation can often seem to outweigh the benefits.

"Retrofitting is a quick and easy way to embrace LED technology."

That's why Chalmit have introduced their Protecta III LED Geartray. The geartray makes upgrading a simple, quick and cost effective process. In the words of Karl Slingo, lighting designer for Chalmit; "LED is the future of lighting and we want to make sure our customers can benefit from it."

Designed to replace any existing Protecta III fluorescents, the geartray keeps costs and installation time low. "There's no need for any re-wiring, re-glanding or replacement of the original Protecta Enclosure," says Karl "so we can get our customers up and running with LED in minutes."

On top of installation and cost benefits, the geartray also boasts all the benefits of cutting edge LED design. This includes superior energy savings and an incredible 120,000 maintenance free hours of lighting.

Interested in switching out your existing Protecta III fluorescent?
Contact Ken Eddleston via keddleston@hubbell.com or visit www.chalmit.com

Lighting Up Your Future.

10 things you never knew about LED lighting.

- 1 LED is not a new invention. In fact, it was discovered in 1962 by Nick Holonyak whilst he was working for General Electric.
- 2 Since 2011, LEDs operating at powers of 1W have reached a cost and level of performance that makes them a good replacement for fluorescents.
- 3 By 2020, close to 50% of all new and replacement lights will be LED!
- 4 Unlike fluorescent lamps, over 95% of LED is recyclable, making it extremely environmentally friendly.
- 5 LEDs are also completely mercury free. In fact, they contain none of the Hazardous Substances listed in the Hazardous Substances Directive including: lead (Pb), cadmium (Cd), hexavalent chromium (Cr6+), polybrominated biphenyls (PBB) and polybrominated diphenyl ether (PBDE). This makes LED both safe to use and recyclable!
- 6 LEDs don't emit any of the harmful Ultra Violet light that fluorescents do. This means they can't contribute to any of the health issues associated with UV (like headaches) and they won't attract as many insects.
- 7 LED lamps can have over 100,000 hours of useful life – equal to over 4,000 days if on for 24 hours each day.
- 8 LEDs provide directional light exactly where you need it. Fluorescents provide multi-directional light which means some light is lost in unnecessary places.
- 9 LEDs work perfectly with control systems as their effective life is not reduced by turning them on and off.
- 10 Switching to LED will save the US government about \$265 billion over the next 20 years.

Q&A

with Ken Eddleston

Lighting Product Manager



Harsh & Hazardous



Download your free copy of our new LED Catalogue at www.chalmit.com

Q When the HDL106 was introduced by Hadar in 2009 it was hailed as the 'future of Hazardous area lighting.' Why was that?

A The HDL106 was an absolute game-changer for the hazardous area market. The thing that probably stood out most at its launch was its weight and power. The HDL106 utilised the latest in LED technology to generate as much illumination as a SON, MBI or other typical floodlight with a 40% reduction in weight and significant power savings. Our new HDL106N goes one step further by utilising a more efficient chip set allowing up to 50% power savings compared against conventional HID. These features make it easier and cheaper to install and operate than any other floodlight available on the market.

Q Wow! What other features did the HDL106 bring to the market?

A Because the HDL106 uses LED it could last over 10 years even if it was on for 24 hours every day! Plus, the floodlight was available in more than one beam pattern and multiple luminaires could be inter-linked to give the exact output and beam pattern that customers desired.

Q Now for the elephant in the room: the HSE Safety alert, posted on January 10th. Can you tell us a bit more about that?

A Of course. Shortly after Hubbell acquired Hadar lighting in January 2017 HSE released a bulletin regarding some of Hadar's product line – including the HDL106. Our full response to the bulletin can be viewed at www.chalmit.com but I'll summarise it here. During a routine assessment audit conducted by CSA-Sira on A-Belco Ltd's [owner of Hadar lighting] manufacturing operation in Northumberland, problems were found with respect to the A-Belco production and process control. In particular, some of the test samples failed Ingress Protection, IP tests, following the impact test post thermal conditioning. This resulted in the suspension of the use of the A-Belco QAN [Quality Assurance Notification] and QAR [Quality Audit Reports].

Q What have the Hubbell team done to address the bulletin?

A All Hubbell products go through rigorous in-house and third party testing to ensure that every single one meets market and site expectations. We have been working closely with CSA since January to make sure that the new HDL106 is ready for launch now. Using a new diffuser that ensures that it satisfies the impact requirements and IP ratings for its complete product ambient range, it has been completely re-tested, re-certified and re-conditioned to make sure that it satisfies Hubbell, CSA's and our customer's standards.

Q Chalmit has over a century's experience in hazardous area lighting, has this shaped the way the HDL106 has developed at all?

A Absolutely. All Chalmit products have a reputation for their quality, safety and reliability. Our aim with the HDL106N has been to bring back the 'future of hazardous area' lighting that the market expects but with the guarantee of safety that all Hubbell products have. The HDL106N does just that.

Q Is there anything else we should know about the new luminaire?

A The key change is its new diffuser but the HDL106N is packed with a variety of other features making it ideal for Zone 1 applications. It's vibration resistant, highly energy efficient and boasts an instant on, crisp white light output. These features, combined with everything that made it a game changer in 2009 make it a really, really exciting launch for us!

Q When will the HDL106N be available?

A Now! Just get in touch via keddleston@hubbell.com to find out more!

The Easy Access Enclosure Range

Following on from the launch of our most innovative Electrical Enclosure Range yet, we've decided to catch up with Hawke's resident Enclosure Specialist, Steve Parkin, to find out what makes the EA range special.



HAWKE
International

EASY ACCESS
EASY INSTALLATION



Q: How did the idea for the EA box come about?

We're always asking ourselves how we can improve our products to make them better for our customer. In this case, we really had productivity in mind. We wanted to make an Enclosure that was the fastest and easiest to install so that our customers could complete their projects as quickly and efficiently as possible.

Q: What makes the EA range special?

The EA's radical sloped face design allows for unparalleled installation and inspection speeds. With up to 55% greater aperture than any competitor equivalent, the EA provides more hand access than any competitor Enclosure of a similar footprint. The more hand access, the easier and faster the installation process can be!

Q: Does the EA range have any other special features?

It has several key features, all of which can be found here but there are 2 key ones for me. The first is that the EA can be easily switched out or retrofitted for any of your current Enclosures because all 9 EA sizes follow industry sizes. The second is its increased corrosion resistance. Its sloped face not only allows for easier installation but causes corrosion causing contaminants to naturally spill off. This increases the lifespan of the Enclosure, making it a more cost-effective solution for our customers.

Q: What hazardous area certifications coverage does the range have?

The EA range is globally certified for use in Exe (Increased Safety) or Exia/Exib (Intrinsically Safe) applications to IECEx, ATEX, INMETRO and EAC TC RU.

Q: Tell me more about the EA's QR code feature.

To make installation even easier, we've included a QR code on all boxes in our EA range. Modifiers or installers can scan this code to receive access to a range of helpful resources about EA installation. The QR label is fixed to two studs which allow it to be easily replaced with a tag label without having to drill the enclosure door. Label adaptor plates are also available should more than one label be needed to fit the enclosure door.

Q: How can I customise the EA?

The EA can be customised in various ways including painting, laser engraving and more.

Q: What if I need another part?

Various enclosure fixings are available as spare parts.



Find out more about the EA range including a selection of technical information at www.ehawke.com or contact Steve Parkin direct at sparkin@ehawke.com or call 0161 830 6617

Vanguard 2025 Our Future



Introducing Vanguard 2025, a set of 9 key objectives designed to shape the way our business grows and faces the future.

For over a century, Hubbell Harsh & Hazardous have been proud to serve our customers with market-leading, reliable and quality-driven products. But we want to make the Harsh & Hazardous group bigger, better and more productive than ever before.

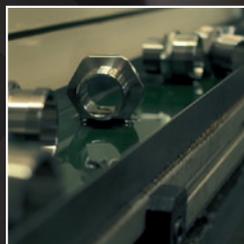
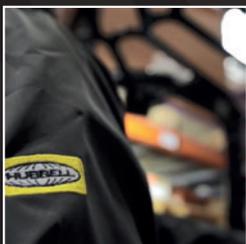
That's why we've created **Vanguard 2025** – a set of objectives that will propel our business forward. These objectives are principally founded on a single tenet – delighting our customer. Focusing on technological innovations, market data and new product development we will make Harsh & Hazardous stronger than ever.

Take a closer look at what we're doing at ADIPEC on Stand 8523 or by visiting www.harshandhazardous.com/exhibitions.

“Vanguard 2025 is principally founded on the aim of delighting our customer”

Warren Jenkins, Vice President – Hubbell Harsh & Hazardous

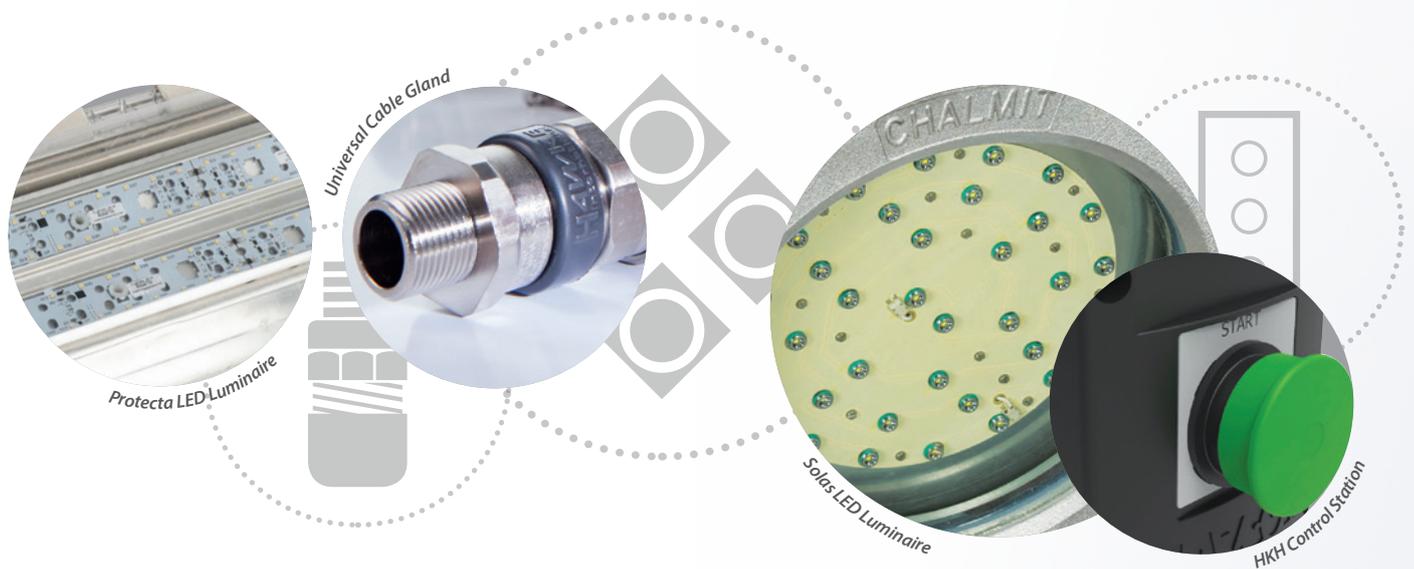
- **Cherished Value Proposition**
- **Highly Successful People**
- **Optimised Manufacturing**
- **Technology Innovator**
- **Complete Solutions Provider**
- **Diversified End User Base**
- **New Product Leadership**
- **Transactional Excellence**
- **Purely Efficient Supply Chain**



**VANGUARD
2025**
Our Future

Beatrice, a one Hubbell solution

Hubbell Harsh & Hazardous are proud to have full supply of Control Stations, Cable Glands and Lighting Solutions on the £2.6bn Beatrice Offshore Wind Farm Project in Scotland, UK. Katie Bradford tells us more.



Who is Beatrice...or more to the point, What is Beatrice?

Beatrice is a consortium of 84 Wind Turbines located 13.5 km from the Caithness coastline in the Outer Moray Firth. The project is a joint venture partnership between SSE Renewables, Copenhagen Infrastructure Partners and SDIC Power and is expected to generate enough electricity to power 450,000 homes. Totalling £2.6bn, Beatrice is one of the largest private investments Scotland has ever seen.

What is Hubbell supplying?

Hubbell's reputation for quality, reliability and longevity has been recognised with the purchase of multiple products from our ever-increasing brand portfolio. Chalmit lighting has been selected to supply several of their luminaires including the HDL106 and Solas LED floodlights and over 1,000 of their best-selling

product, the Protecta LED. Boasting a highly energy efficient design and 80,000 maintenance-free hours of lighting, the Protecta LED is perfect for use in such inaccessible areas where upkeep is challenging.

"Providing one solution from across our wide brand portfolio."

Hawke International will be providing their HKH Control Stations. Hazcon products sold by Hawke are all third-party tested to ensure they meet the highest quality standards including: ATEX, IECEx, IP66 and NEMA 4X. And last but by no means least... Beatrice will be adorned with Hawke International's market leading 501/453 Universal Cable Gland. With hundreds of thousands of this Gland sold every month, the Universal boasts a variety of features including its patented Reversible Armour Clamp that made it the obvious choice for Beatrice.



HDL106 LED Luminaire

"A complete solution trusted by one of the world's largest wind farms."

"Dedicated to constant innovation"

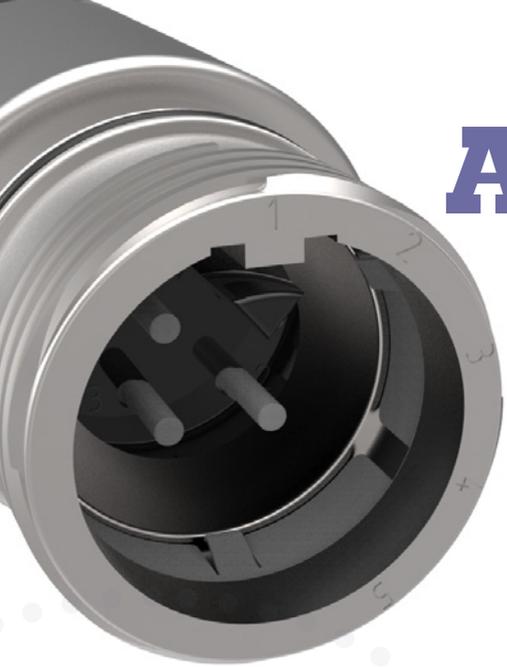
Hubbell Harsh & Hazardous UK's Head of Commercial, Andy Brown commented, "We're very proud to have been selected for this esteemed project with supply across the Hubbell Harsh & Hazardous brands. Chalmit for the lighting and Hawke for the Cable Glands and Control Stations. It's a testament to the hard work of our teams across the Hubbell brands. Hubbell can really provide one solution for our customers from across our wide brand portfolio; Beatrice is a prime example of this. We're delighted to be a part of a project that will benefit so many people."



Project Update:

Offshore construction began in April this year and over three quarters of the foundation piles have now been installed. Restoration works have begun at the Thomas Telford buildings in Wick Harbour which will become the farms operational base. The site is due to be fully operational by 2019, and with the project constantly hitting milestones, Beatrice is still on track.

To discover more about the product ranges utilised in Beatrice visit www.hubbellharshandhazardous.com/exhibitions or email abrown@hubbell.com



A match made in heaven

Hawke International have teamed up with Acal BFi to create their new fibre-optic connector. Gareth Turner reports on what makes the Fibre Ex a game changer.

Hawke International consider it their responsibility to provide connection and termination solutions that allow their customers to use the latest technology safely. That's why they have partnered with one of the world's most prominent Fibre Termination services, Acal BFi, to design a connector that allows their customers to experience the benefits of fibre optic technology.

The new Fibre Ex connector from Hawke and Acal combines the strength of Hawke's market-leading connection range with the latest in Ex Fibre-Optic specifications. Designed to meet the latest, BSEN 60079-28:2015 standard: for the protection of equipment using fibre optics in explosive atmospheres, the Fibre Ex offers an easy-to-install solution that will keep fibre optic networks running in the harshest environments.

Hawke Connections Product Manager, Matt Ogden commented, "The Fibre Ex connector is the result of years of designs and testing. We've worked closely with Acal BFi throughout the process, using their extensive knowledge of fibre and combining our vast experience in connection to create a product that we're all delighted with. The connector is really a game-changer for us and it's a product that a great deal of our customers will benefit from."

As part of this partnership, Acal BFi are offering a custom cable jumper termination service for the Fibre Ex connector. This is so that customers can install this revolutionary connector without the need for costly termination engineers.



For more information on the Fibre Ex connector contact Matt Ogden via mogden@ehawke.com



Connecting you through innovation

The Original and still the best

We discover what makes the Universal Hawke's best ever gland.

It's been a long time since William Hawke proudly carved his name into the first ever Hawke Cable Gland in July 1957 but Hawke's reputation for producing superior Cable Glands has remained the same.

In 2009 Petrochem Carless Ltd got in touch with Hawke to tell us about a G/63, a Cable Gland that had been installed in 1959 and was still passing inspections. This Gland was, of course, immediately replaced with modern Hawke fittings but it's inspection from the Hawke team revealed that it still possessed all of its original strength.



Hawke cable glands in action in the North Sea



“The Universal Gland is a testament to the strength of all of our cable glands.”

The G/63 is a prime example of the strength of every single Hawke Gland. However, it's not the G/63 that everyone associates the Hawke brand with, it's the Hawke Universal Gland. Released 25 years ago, the Hawke Universal is the evolution of that first ever 1957 Gland – and it's been a market leader since it was released. Hawke sell hundreds of thousands of the Universal every month. It's been specified by BP, Shell, Texaco and more.

So, what makes it special? According to Hawke's Head of Technical, Andy Tindall, there are four components that make the Gland one of a kind: **its unique rear sealing system, reversible armour clamp, its patented diaphragm sealing system and inspectable deluge seal.**

These features combined make a Gland with incredible ingress protection that's easy to install, inspect and maintain. Perhaps most importantly, the Universal does not damage cables which exhibit 'Cold Flow' characteristics.

“Bill Hawke started our journey to the Universal in 1957” commented Andy Tindall “and we're proud to produce a Gland that serves his incredible legacy. We're constantly re-developing the Universal to make it even better for our customers and the fact that it's still regarded as a market leader after 25 years is a testimony to the engineering excellence that goes into this Gland.”

Find out more at www.ehawke.com/cableglands or email mogden@ehawke.com



Founder of the original Hawke cable gland, William Hawke

HAWKE
International



Survival of the Fittest

Katie Bradford takes a closer look at the evolution of GAI-Tronics telephony in our greatest collaboration with Hawke International

GAI-Tronics are proud to introduce the evolved steel cord Auteldac 5, now rated as IP66. Traditionally, steel cords were only capable of achieving an ingress protection of IP54 due to their open spiral structure; however since collaborating with our sister brand, Hawke International, we can now provide mechanical strength and ingress protection together in one product. The upgrade also includes a noise-cancelling handset to provide clarity in communications in the most arduous of industrial environments.



 GAI-TRONICS Auteldac 5

For more information email Sam Withington on: swithington@gai-tronics.co.uk

GAI-Tronics from start to finish

At GAI-Tronics, we have the capability to design, engineer and manufacture bespoke products to suit any application. We had a chat with the team leading our custom design service and here's what they said...

Richard Rumsby, Engineering Manager:

"When we receive a requirement for a product variation or new product development, we first carry out a feasibility study, to determine whether the project is achievable. Once this is complete, our engineering specialists gather in the collaboration area to brainstorm ideas and concepts, collating expertise and experience from across the business. As the design is finalised and a prototype sample is manufactured, our rigorous in-house testing begins. We are able to test our products using our impact, and climatic conditioning and our EMC chamber. We also conduct pilot production trials to guarantee that quality remains the same when produced in large quantities. On completion of all these tests, we then send the product for external testing."

Christian Midgley, Business Improvement:

"Prior to upscaling manufacturing, we host a production and preparation event to train our operators and ensure that the correct tools and equipment are available to produce a quality product. At GAI-Tronics, we have adopted a continuous improvement policy allowing constant feedback for product enhancement and future development. Our lean manufacturing practices ensure that waste is minimal and quality exceeds the expectations of the client."

Shab Ghani, Shop floor supervisor:

"When a kit of parts is issued from our stores department, it is my job to ensure that the Bill of Materials and Visual Aids supplied match the relevant job. With certified products, quality cannot be compromised so accuracy is a necessity. In 2002 we introduced our one piece flow process as a result of our first ever Kaizen event. This process guarantees standardised production to manufacture the highest quality goods. Every operator is responsible for quality control at each stage in the production process and all products are stamped for traceability."

A parting remark from our Vice President of European Operations, Mark Bradford:

"Our commitment to continuous improvement, coupled with on-going investment from Hubbell enables us to strive to delight our customer. Our lean process is instilled throughout all aspects of the business to support our quest for perfection."



 GAI-TRONICS

Meet the LALFP



Killark lighting are proud to introduce their NSF approved LALFP Linear LED luminaire.

Designed with food processing installations in mind, the LALFP is an exciting addition to Killark's product offering.

With over a century's experience supplying luminaires to some of the world's most arduous environments Killark are no stranger to harsh and hazardous environments. Their new LALFP utilises this experience to serve food processing installations where moisture, corrosion and vibration may be present. Utilising the latest in LED technology boasts an impressive 100,000+ hours LED lifespan and instant on functionality – even after power interruption. However, perhaps its most prominent feature is its NSF accreditation.

"We really designed the LALFP with the food processing industry in mind" commented Sean Rogers, Killark Lighting Product Manager, "and we're delighted to have NSF approval for the use of our new luminaire in "food handling" areas. Boasting a long maintenance free life, excellent photometry and superior ingress protection; the LALFP is the perfect solution for food processing areas or in locations made hazardous by the presence of flammable vapours, gases or combustible dusts."

For more information about the Killark LALFP visit www.killark.com or email srogers@hep.hubbell.com

KILLARK

DesignHUBB

Bespoke Design Applications

Simplify your engineering needs and make ordering from Hubbell Harsh & Hazardous even easier with our fast and accurate web apps for connectors, enclosures, lighting and control stations.

- Completely Free
- Error free 2D drawings and 3D models ready in minutes
- For Connectors, Enclosures, Lighting and Control Stations
- Export drawings in pdf or .dwg and .stp CAD formats
- Receive a full bill of materials with your drawings
- Get pre-calculated power ratings
- Get your DesignHUBB code for easy ordering

Head to www.ehawke.com/designHUBB to start saving time now or email sparkin@ehawke.com for more information.



Safety, when you need it most

Introducing FireMate and ToughMate.



So, what exactly is the FireMate and ToughMate range from Hawke?

When you're faced with an evacuation or rescue situation, you need a system that can take the heat and pressure. That's why we've developed a new range of fireproof and industrial tested Cable Glands, Connectors and Enclosures that will maintain their structural integrity – even in the most severe conditions.

“Safety in the toughest conditions, the FireMate and ToughMate range can take the heat and pressure.”

Created with some of the UK's leading rail experts, our range has been developed over several years to provide a system that will deliver exceptional strength on underground and overground rail networks. Whilst the fireproof FireMate range boasts a construction that can withstand the most severe fire conditions, the industrially tested ToughMate system will maintain its structure in the harshest industrial environments. Whether utilised together or separately, the FireMate and ToughMate ranges will provide a complete solution that'll ensure the utmost safety in rail, commercial and industrial applications.

FireMate

All of our FireMate products have undergone rigorous in-house and third party testing to ensure that they can survive the harshest fire conditions. Throughout the creation, development and testing process for the range, we've been committed to ensuring that our Connectors, Cable Glands and Enclosures will keep your escape route safety equipment, emergency lighting circuits, fire alarms and more running - even in the most severe fire conditions. Safety has been our absolute priority throughout the creation of this range and each of our FireMate products are packed with features for maximum quality and reliability.

“Safety has been our absolute priority throughout the creation of the FireMate range.”

ToughMate

With over 60 years' experience in the industry, we know that industrial environments demand superior strength. That's why every one of the products in our ToughMate range has been developed to offer unparalleled strength.



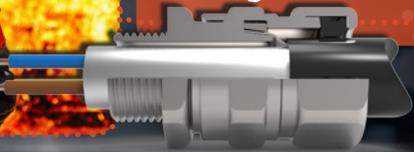
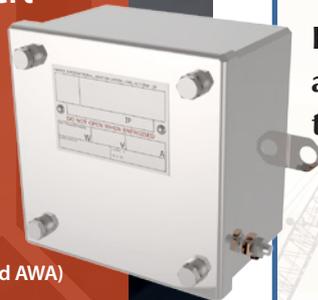
Contact our FireMate and ToughMate specialist, Matt Ogden, for more information at mogden@ehawke.com or download our free catalogue direct at www.ehawke.com



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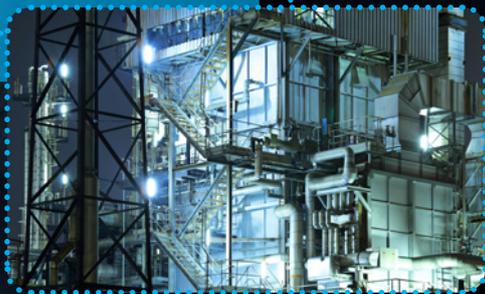
FIREMATE™

- Connector features a unique fireproof intumescent seal and high temperature socket insert
- Enclosure combines the strength of our EJB range with fireproof technology
- Fireproof solutions for a range of cables (including SWA and AWA)



TOUGHMATE™

- Connector features innovative fuse pin and peg design
- Enclosure combines the strength of our EJB range for optimum strength and reliability
- Versatile solutions for a range of cable types



“Industrial environments demand superior strength”



Announcing the new ATEX and IECEx marking standards

Hawke International is delighted to announce that we are now compliant with the most recent ATEX and IECEx standards.



IEC Ex

These new standards concern the markings requirements and our Cable Glands. In order to remain compliant, all Exe and Exd markings have been replaced with Exdb and Exeb to update the EPL requirements. We're proud to say that these new markings have already been put into production at Hawke and, moving forward, all new glands will meet these marking standards.

Please make note of this change if you have recently ordered with us or are placing an order with us.

If you have any queries about the new standard then please get in touch with our Technical Specialist at Hawke, Andy Tindall.

Tel: + 44 161 830 6626

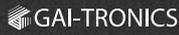
Email: atindall@ehawke.com

www.ehawke.com

HAWKE
International

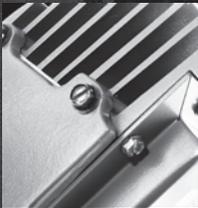
HAWKE International GLAND SPANNERS

A full range of quality gland spanners are now available from Hawke. Individually sized to our full range of cable glands.



Reliable Electrical Solutions

from Hubbell's market leading Hazardous Area brands



Visit us at ADIPEC, Abu Dhabi

Stand 8523

13-16 November 2017



www.harshandhazardous.com/exhibitions



Harsh & Hazardous