

MHEA MATTERS



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SPRING 2021

A MESSAGE FROM OUR PRESIDENT



WELCOME.... Looking back to this time last year, it would be fair to say that no-one really knew what the remainder of 2020 would hold and challenges we all would face. However, the first quarter of 2021 has shown us all how resilient and innovative we can be. With over half the population vaccinated we begin to see normality returning. As ever, our industry is at the forefront of getting the country back on track, supporting major infrastructure projects, and exciting new products across the whole scope of Materials Handling.

Our companies have risen to the challenges, faced them, and overcome most of these with good results.

Nothing pleased me more than being able to announce the BulkEx 21 Conference back at the beginning of February this year, and it looks set to be one of the best conferences we have ever hosted. Already over half the Exhibition Stands have been taken and the Conference Programme we will be presenting will have the excellent technical content that has always been associated with the MHEA Annual Conference. We also have the Excellence Awards Evening to celebrate those individual achievements within the industry and I do hope you will consider entering one or more of the categories.

I am happy to say, that following more than a year of having virtual MHEA Executive Committee Meetings, we are finally to hold our 1st face-to-face meeting in July.

I look forward to seeing you all very soon and in the meantime, take care.

Roy Ball

**THE MUST-ATTEND EVENT
FOR ANYONE
INVOLVED IN THE BULK
MATERIALS HANDLING
INDUSTRY**



**12th & 13th October
2021**

**at
Chesford Grange
in
Warwickshire.**

**Subjects covered will appeal to
professionals and organisations from
across the bulk materials handling
industry.**

**Along with *not to be missed*
Seminars , Gala Dinner and Awards
Evening **BULKEX 2021** offers
unparalleled networking
opportunities, bringing together
senior executives and colleagues
from across the industry.**

**For more information then please see
www.mhea.co.uk/bulkex21 or
contact :**

Tel: 01257 412635

Email: secretary@mhea.co.uk

MEMBER NEWS

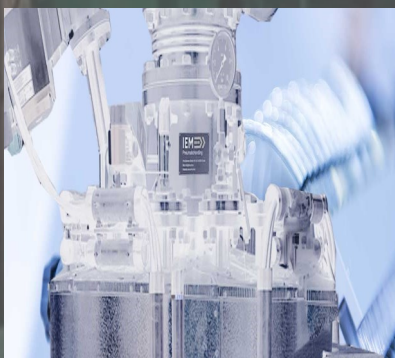


IEM PneumaticHandling is an affiliated company of IEM Conveying Systems GmbH based in Germany. It has considerable experience in design, engineering, construction, as well as maintenance and service of bulk material handling systems.

For decades, IEM PH has been managing worldwide projects on conveying, dosing, and silo plants. Its customers include waste, special waste and sewage sludge incineration plants, the chemical and glass industry, quarrying and earthworks, building materials and last but not least, the animal feed industry.

This puts the IEM Group in the advantageous position of being able to offer pneumatics from a single source without interfaces, in addition to its core business of general cargo and bulk material handling technology. For example, we have recently been awarded a major project for a German mono-sludge treatment plant.

IEM PneumaticHandling are supplying a 100 m³ steel sheet silo for dried sewage sludge in an explosion-proof design. In addition, a pneumatic dense phase conveying system via a pressure conveying



vessel from the sewage sludge silo to the fluidized bed furnace. As well as a lime hydrate storage silo with mechanical dosing into a lime milk storage tank, a dosing and pneumatic thin-flow conveying of lime hydrate and activated coke into the reactor, and the fabric filter discharge with recirculation into the reactor.

For more information, please contact:

Tel.: +49 2421 / 99898-0

Fax: +49 2421 / 99898-29

Mail: info@iem-ph.eu

Web: www.iem.eu



NEW MEMBER



Conveyor Components
Specialists

ATG Conveyor Components, a division of global sourcing specialists ATG, supplies high quality conveyor components to the crushing & screening, agricultural, waste recycling, mining and material processing industries.

All components have been designed to operate in the most challenging of environments, in most cases running for 24 hours a day, where efficiency and long service life are critical.

All product is competitively priced and is supported by exemplary aftersales service and technical expertise. We supply complete conveying systems, trough rollers, disc return rollers, impact rollers, transoms, field conveyors, conveyor drums, power transmission and unit handling components.

ATG can work with you on selecting, designing and supplying the right part for your conveyor system - a process that combines suitability, effectiveness, strength and endurance.

For more information:

<https://atg-global.com/index.php/products/conveyor-products>

email: mail@atg-global.com

Tel: + 44 (0) 330 041 7076



Technical Conference • Awards Dinner • Exhibition

12 – 13 October 2021 Chesford Grange - Warwickshire



MEMBER NEWS

TESTING UNDER REAL CONDITIONS

The **ATEX Group** have a unique test field. On an area of over 5000 m², their explosion protection equipment is tested under real conditions.



Pressure-resistant containers are available in various sizes for this purpose.

The largest container has a volume of 140m³ and is designed for a pressure of PN10, this was originally developed for their Hot Water Explosion suppression system which now has full ATEX approval.

The large area also offers the possibility to emulate complete production processes and is also used by plant engineers for testing purposes.

For further information contact Declan Barry
declan@explosionhazards.com

Tel: +44 (0)1925 755 153

Website: www.explosionhazards.co.uk



4B Milli-Speed 4 - 20 mA Analog Output Speed Sensor – ATEX version now available

4B has just launched an ATEX version of its popular Milli-Speed, a loop powered 4 - 20 mA analogue output speed switch for PLC, DCS or stand-alone controllers. The Milli-Speed switch is designed to detect belt slip, belt underspeed, stop motion, low speed or zero speed on bucket elevators, conveyors, airlocks, mixers, fans, grinders and many other rotating machines.



An inductive sensing device located in the nose of the Milli-Speed enclosure will detect a ferrous metal target. This target can be an existing bolt head or device attached to a shaft, such as 4B's Whirligig[®] sensor mount. During installation, the Milli-Speed is set to the machine's normal running speed by simple magnetic calibration. The 4 - 20 mA output signal is automatically scaled for zero to full speed with over speed detection.

The Milli-Speed is fully encapsulated in a polycarbonate body that is corrosion and abrasion resistant, dust-tight and waterproof (IP67). Its approvals for explosive atmospheres include: ATEX, IECEx and CCCEx; Zones 20, 21 & 22 for dust and Zones 0, 1 & 2 for gas.

Additionally, 4B's SpeedMaster[™] can be used with the Milli-Speed to test the functionality after the initial installation and during routine maintenance procedures. The SpeedMaster[™] is the only device that accurately tests the calibration of a speed switch, and allows testing of the alarm and shutdown features of the sensor while installed on the machine shaft.



For more information: Tel: +44 (0) 113 246 1800 www.go4b.com

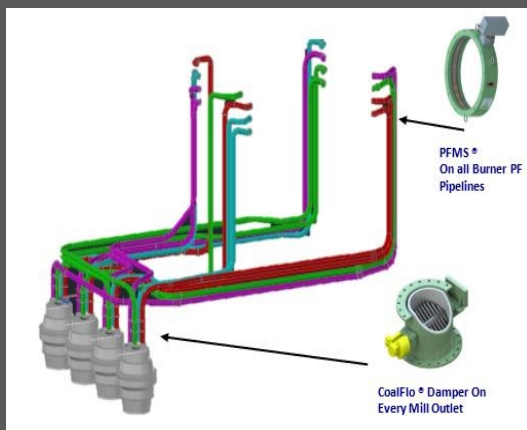
<https://go4b.co.uk/products/electronic-monitoring-equipment/speed-switches/milli-speed-switch/300>

MEMBER NEWS

World first for Greenbank Group as it fulfils Indian contract

Derbyshire-based engineering firm The Greenbank Group has fulfilled a major contract in India, delivering world-beating technology designed to make coal-fired power stations cleaner and greener.

The company has a global reputation for its work with power plants and Greenbank's Terotech division has now delivered its third auto-controlled pulverised fuel balancing system to a new facility in Ghatampur.



The closed-loop control system represents a world first for fuel balancing. Under different loads, coal-fired electricity generating units face an imbalance of the air-to-fuel mixture at the burners located on the boiler. The auto control units address this imbalance of fuel at each and every load, continually monitoring the system and making fine adjustments when needed to optimise fuel flow to the burner.

Greenbank Managing Director Charles Conroy said: "While we are supporting many companies to switch to alternative fuels, in many parts of the world coal will remain a key source of power for many years to come.

"Our technology has been developed to help modern coal-fired power station such as Ghatampur to operate more efficiently whilst reducing harmful emissions."

Ghatampur thermal power plant is a new, 1,980MW super-critical coal-fired power station comprising three 660MW coal-fired generating units and located in the Kanpur district of Uttar Pradesh.

The auto-control units deploy Greenbank's own, in-house technology, including the PFMS coal flow monitoring devices, CoalFlo PF balancing dampers and a central control system incorporating a DDU damper drive unit which communicates with the equipment and the plant's DCS (Distributed Control System) to optimise fuel flow and combustion.



NEW AFFILIATE PARTNER

The Cement Industry Suppliers' Forum (CISF) was set up by the former British Cement Association (now MPA Cement) to bring together those with an interest in the supply of equipment, materials, energy, technology and services to the cement industry. It provides a forum for dialogue between the cement producers and their suppliers, and a focus for information about the cement industry. The CISF is run by The Concrete Society, with the approval and support of MPA Cement.

For more information,
please contact: Edwin
Trout

Tel: +44 (0)1276 607 169
or 174

Email:

cisf@concrete.org.uk
www.cisf.concrete.org.uk

The benefits include maximum generation using minimum fuel, lower NOx greenhouse emissions, a reduction in unburned carbon-in-ash, combustion flame stability alleviating third-party fuel support and reducing CO. It also helps to keep maintenance costs to a minimum by reduced slagging and fouling.

Greenbank's technology also provides the plant with a better response to combustion issues created by flexible loading and helps produce a quicker response time to ramp up or down the load-line.



Mr Conroy added: "Fulfilling this latest order to India helps to enhance our global reputation for delivering engineering excellence in the power generation industry as it faces a period of unprecedented change that's seeing even greater emphasis on efficiency and environmental protection."

www.greenbankgroup.com

MEMBER NEWS

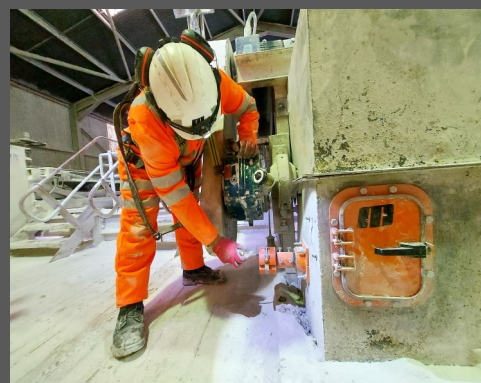


REMOTE MONITORING FOR BELT CLEANERS IS HERE

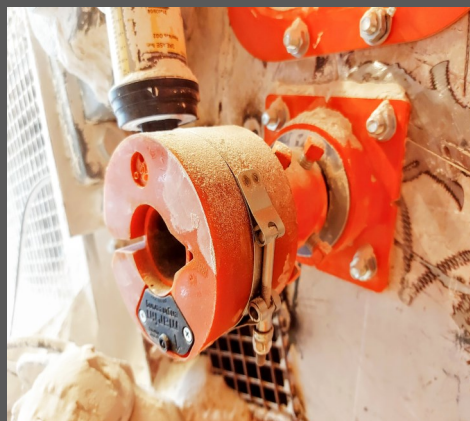
Martin Engineering® has launched its pioneering N2® remote monitoring system for conveyor belt cleaners in the UK following extensive customer trials including at one of the country's major lime producers.

The time-saving N2® Position Indicator (PI) system tracks belt cleaner performance and predicts when servicing is required, notifying users via an easy-to-use mobile app or desktop dashboard. N2® eliminates needless

inspection visits, reduces exposure moving conveyors and increases uptime.



to



Martin Engineering, a leading supplier of belt cleaners, air cannons and dust control components, is now working with several materials handling companies who are keen to achieve cleaner, safer, more efficient production without having to monitor performance manually.

Aaron Bartram, Martin's UK General Manager said: "Martin Engineering is proud of its long track record for outstanding innovations that

keep materials processing plants running safely, efficiently and for longer. With our new N2® system the technology does the legwork, providing maintenance managers with real-time data on their belt cleaner blades and giving them the heads-up when servicing is needed. In the meantime, they can be confident that material spillage and build-up is being controlled so they can keep running the plant to maximise productivity."

The launch of N2® comes as Martin bolsters its installation and maintenance coverage across the East Midlands after forging a partnership with Wright Engineering, one of the UK's leading industrial engineering services firms. The arrangement means that customers have greater access to a variety of world-class products from Martin Engineering, complemented by Wright's engineering expertise and customer service. The partnership follows a similar agreement formed last year with Response Engineering Solutions who operate in the South West of England and South Wales.

For further details and to arrange a trial at your plant visit www.martin-eng.co.uk or Email :info@martin-eng.co.uk Tel: 0115 946 4746



Courses are being delivered online throughout the year by the Wolfson Centre for Bulk Solids Handling Technology.

Please click the link below for all courses
(Discount for MHEA Members)

[www.gre.ac.uk/engsci/
research/groups/
wolfsoncentre/coupro/sc](http://www.gre.ac.uk/engsci/research/groups/wolfsoncentre/coupro/sc)

Email:
c.j.chapman@gre.ac.uk

Tel: +44 20 833 8646
www.bulksolids.com

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MEMBER NEWS

Despite COVID and the many other challenges 2020 posed, Martin Sprocket & Gear U.K. Ltd have officially gone live with their new facility in Lemington Spa.



Quality Power Transmission and Material
Handling Solutions

Tel: +44 (0) 1926 962161
www.martinsprocket.com

MHEA EXCELLENCE AWARDS 2021

An evening awards ceremony celebrating the best in materials handling will take place on the evening of
Tuesday 12th October 2021 at the BulkEx 21 Conference

The categories are:

- Apprentice of the Year
- Innovation Award
- Supplier of the Year
- Engineer of the Year
- Project of the Year
- Harold Wright Lifetime Achievement Award

If you would like to submit a nomination in any of the above categories, please contact : secretary@mhea.co.uk

Open to Members and Non-Members

INTERESTED IN EXHIBITING?

Take advantage of this unique platform to showcase your expertise and services to key contacts across the bulk materials handling industry.



Book a 3m X 2m stand and enjoy the
Following exhibitor benefits :

- Publicity in all BULKEX 2021 marketing materials
- Inclusion in the full colour exhibitor brochure
- Media coverage and online marketing
- Inclusion in industry wide e-newsletters
- A proactive social media campaign
- Advertising in exhibition brochure
- Stand cost includes 1 Fully Inclusive Delegate Package



**SAVE the DATE 12th & 13th
OCTOBER 2021 — BULKEX 21**

Member Spotlight - PROSPARE LTD

ProSpare is part of the ConSpare Holdings Group of companies which today employs 37 people. Their founder, Jim Bullock, established Batching Plant Ltd back in the 1960's and that business grew to become the largest supplier of concrete batch plants to the UK concrete industry. As the industry grew, ConSpare Ltd was established in 1978 to provide mixing equipment, batch plant components and spare parts. Over the last 45 years, ConSpare has evolved into the market leading provider of specialist equipment and technical support in their field.

ProSpare
Make it better.



Many of the processes involved in the production of concrete revolve around handling bulk raw materials and powders, and these same processes are commonplace across many different industries. Therefore, James Bullock (pictured) and David Bullock decided to launch a new business to serve these industries. James is currently Vice-President of the MHEA and has over 36 years experience in the materials handling industry.

ProSpare was formed in 2007 to offer the ConSpare range of products and expertise to sectors such as quarrying, mineral processing, cement, glass, chemical and also food production. Although operating in diverse sectors, both companies share a common goal based around the Group's *Make it better* philosophy, adding value for their clients by helping to identify process bottlenecks and improve production processes rather than simply selling components.

ProSpare has now grown to have two distinct departments:

Their Bulk Materials Handling Department specialises in improving conveyor performance through the supply of innovative belt cleaning, tracking and spillage control equipment, working with some of the biggest hard rock quarries, cement works, marine wharfs and recycling businesses in the country. The Department also provides wear linings for bins, chutes and hoppers.

The Powder Handling Department solves processing problems in both industrial and hygienic sectors, with a strong presence in the food industry. It specialises in the safe, hygienic transfer of powders from one part of the process to another.

The business is now moving into the 3rd generation of the Bullock family, with Tom Bullock working in the role of Continuous Improvement Engineer. Tom has spent his first 5 years in the business working along side Dave Patterson and John Tuckley in the Bulk Materials Department.

Member Spotlight - PROSPARE LTD cont.

COVID certainly presented many challenges, particularly during the first national lockdown where they operated with a skeleton staff for a short time before bouncing back strongly. The business has proven to be remarkably resilient, demonstrating the benefits of serving a broad cross section of different industries. Whilst some industrial sectors were in hibernation, others such as food production were flat-out and required intensive support. Although facing challenges in shipping goods, **ProSpare** reacted quickly to ensure the supply chain continued uninterrupted.

The period also allowed them to take a step-back, take time to reflect, and improve their own business, a rare opportunity in this modern world, using the time well to implement a series of large-scale improvements to the back-office systems and internal procedures. These new processes have already proven themselves as they are able to cope efficiently with a surge in new business.

Interaction with customers has also evolved dramatically throughout COVID and has accelerated their plans to move further into the digital world.



ProSpare have always held a substantial stockholding of spare parts and equipment at their Pinxton site. Anticipating that **Brexit** would cause disruption, they invested heavily by increasing stock levels of their core products, more than doubling stock of some ranges. This foresight has paid off by avoiding the worst effects of Brexit related import issues and maintaining a high level of stock availability and service. In fact, it has proven so successful ProSpare have decided to continue expanding stock levels and are now planning to relocate to new, purpose-built much larger premises with far more warehouse space.

Brexit certainly provided additional hurdles in terms of paperwork and shipping, but as a stocking distributor they pride themselves on overcoming those issues quickly and providing a seamless experience for customers.

Their mantra is ***"Make it better"*** and they have a genuine drive to improve the performance of equipment for all customers. ***"We understand the process problems our customers face and have a strong history of using that knowledge to identify new and innovative products which solve problems and challenge the way things are done"***.

For more information, please contact:

Tel: 01773 814 008 Email: sales@prospare.co.uk Website: www.prospare.co.uk

“together we can help support others”

The MHEA

ENGINEERS for CHARITY WEEK

28th AUGUST — 4th SEPTEMBER 2021

Please join with us supporting our communities where others
will benefit from our successes.

**Link up for a day with the MHEA
on the
“Coast to Coast Charity Walk”
or
organise your own company
event**

**The events will be shared on our MHEA website with
ongoing press releases to the media as well as being
uploaded to our social media platforms highlighting
the various activities that are taking place during the
course of the week.**

Please contact secretary@mhea.co.uk for more details

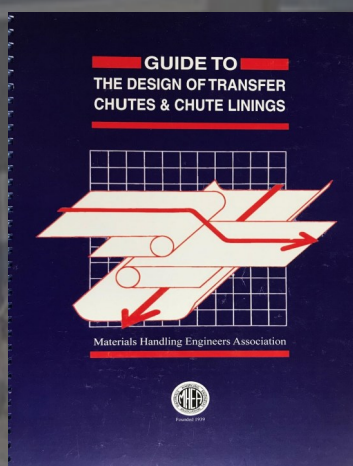
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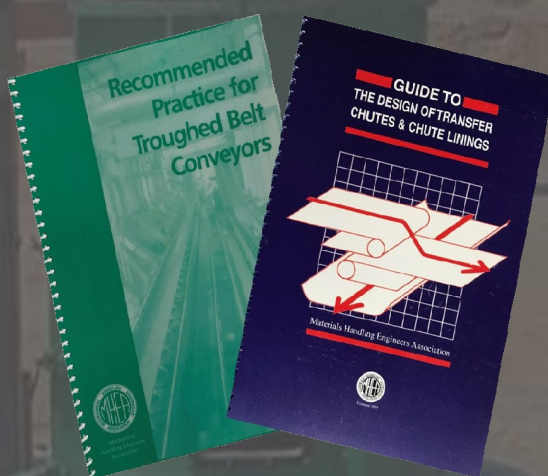


GUIDE TO THE DESIGN TRANSFER CHUTES AND CHUTE LININGS

The Materials Handling Engineers' Association manual 'Recommended Practice for Troughed Belt Conveyors' has been established for many years as an internationally recognised reference work covering the art of handling loose bulk materials on belt conveyor systems. This companion study examines in greater detail the requirement for chutes and their linings as a means of transfer for loose bulk between the individual belt conveyor flights within a system of belt conveyors.

The cliché that 'there is no substitute for experience' is very applicable to these manuals and is hoped that these 2 publications will provide some of the background information against which the designer will enhance his understanding of the subject by critical examination of existing installations.

£55.00 UK PURCHASES
£77.00 NON-UK PURCHASES



COMPLETE TWO BUNDLE PACKAGE

It would be fair to say that each of these publications are equally valued as guides for the industry and with this in mind you can purchase both guides as a bundle for a greatly reduced cost.

**FOR MORE INFORMATION
EITHER VISIT OUR WEBSITE AT
www.mhea.co.uk/publications/**

or contact us at

secretary@mhea.co.uk

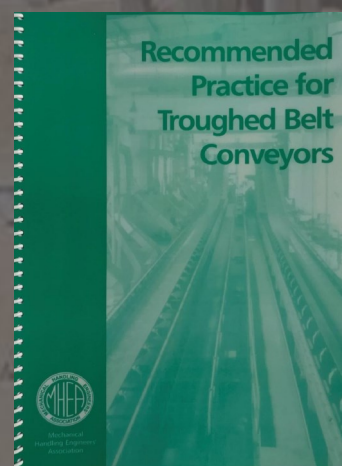
or telephone

Landline: 01257 412635

Mobile: 07771 581285

£100.00 UK PURCHASES

£130.00 NON-UK PURCHASES



RECOMMENDED PRACTICE FOR TROUGHED BELT CONVEYORS

Editions spanning over half a century have established 'Recommended Practice for Troughed Belt Conveyors' as the definitive reference work, internationally for all involved in the mechanical handling of loose bulk materials: designers, manufacturers, consultants, contractors, plant operators, maintenance engineers and students alike.

This edition benefits from the pooled knowledge and experience of the Technical Committee of the MHEA and was completely re-written by 2 eminent mechanical handling engineers, both at the peak of their professional experience and made it more of a text book, properly deriving and explaining their arguments while retaining those familiar qualities that make it so sought after as a work of reference.

£68.00 UK PURCHASES

£90.00 NON-UK PURCHASES