

SHAPA

NEWS



70

**WHY INDUSTRY
4.0 DEMANDS
MORE AGILE FUME
EXTRACTION**



72

**SOLIDS HANDLING
INDUSTRY AWARDS -
WINNER SPOTLIGHT**
SUSTAINABILITY AWARD



84

**UWT SIGNAL LIGHT
IMPROVES PROCESS
SAFETY IN SILO
MONITORING**



Louise Smallwood,
General Secretary, Solids Handling &
Processing Association (SHAPA)

BUILDING MOMENTUM CELEBRATING EXCELLENCE, EMBRACING INNOVATION AND PREPARING FOR THE FUTURE

SHAPA QUARTERLY ROUNDUP – SUMMER 2026

The past few months have been another busy and rewarding period for SHAPA and our members. Since the last edition of this supplement, we have had the privilege of bringing together the UK's bulk solids handling and processing community for one of the highlights of our calendar - the 2026 SHAPA Solids Handling Industry Awards. Alongside this, we've continued to help our members navigate an increasingly complex business environment, while ensuring our industry remains innovative, resilient and ready for the opportunities ahead.

The manufacturing landscape continues to evolve at pace. Rising costs, global competition, skills shortages and economic uncertainty remain familiar challenges, yet our members continue to demonstrate remarkable resilience. More importantly, they continue to innovate. Every meeting, workshop and industry event reinforces just how much expertise exists within our sector and how willing companies are to collaborate for the benefit of the wider industry.

As an association, our role is to provide that platform for collaboration - to connect businesses, share knowledge, represent the interests of our members and celebrate the achievements that often go unseen outside our specialist industry. Over the last quarter, we've seen all of these objectives come together.



Celebrating the Best of British Engineering

April saw over one hundred members and guests gather at the historic STEAM Museum in Swindon for the SHAPA AGM and the 2026 Solids Handling Industry Awards. The evening was far more than simply an awards ceremony; it was a celebration of the innovation, engineering expertise and dedication that continues to define our sector.

The standard of entries this year was exceptional. From pioneering new technologies and sustainable engineering solutions to outstanding apprenticeship projects and innovative safety initiatives, the awards once again demonstrated the depth of talent that exists across our membership.

We were particularly pleased to introduce two new award categories - Engineer of the Year and Project of the Year - which recognise not only technical excellence but also the individuals and teams whose work delivers tangible value to customers and the wider industry. These additions reflect the changing nature of our sector and ensure the awards continue to evolve alongside it.

Every finalist should be immensely proud of their achievements. In an increasingly competitive marketplace, taking the time to innovate, invest and continuously improve deserves recognition. Congratulations once again to all of our winners and finalists, whose success continues to showcase the strength of UK manufacturing.



Innovation Doesn't Stop at New Products

While recognising excellence is important, preparing for the future is equally critical.

One of the strongest messages emerging from recent SHAPA activities is that innovation today is about far more than designing better equipment. Digital technologies, artificial intelligence, automation and data-driven decision making are rapidly becoming essential business tools for manufacturers of every size.

Earlier this year, SHAPA hosted another successful Digital Marketing Workshop, exploring how artificial intelligence is already changing the way manufacturers communicate, generate leads and support customers. What was particularly encouraging was the level of engagement from members. Rather than viewing AI as a distant technology, businesses are actively exploring how it can improve efficiency, enhance customer service and strengthen marketing activities.



That conversation continued at our July General Meeting, where Tim Kirby from Made Smarter UK delivered an insightful presentation highlighting the support available to manufacturers looking to adopt digital technologies.

Made Smarter has already helped hundreds of manufacturers embrace digital transformation through grant funding, specialist advice, leadership training, digital roadmaps and practical support. From robotics and industrial automation through to artificial intelligence, data analytics and connected manufacturing technologies, programmes such as these are helping UK manufacturers invest with confidence.

For many businesses, particularly SMEs, digital transformation can seem daunting. However, the message was clear: digitalisation is no longer something to consider

'one day'. It is happening now, and manufacturers who begin that journey today will be better positioned to compete tomorrow.



Listening to the Industry

One of SHAPA's most valuable initiatives continues to be our quarterly Business Barometer.

Rather than relying solely on economic headlines, the survey gives us a direct insight into how businesses across our membership are feeling and what challenges they are facing.

The latest results painted a familiar but interesting picture. Enquiry levels remain relatively healthy, yet converting those enquiries into confirmed orders continues to take longer than many businesses would like. Confidence varies considerably depending on sector, with some members reporting exceptionally strong first-half performance while others continue to experience delays in capital investment and customers postponing purchasing decisions.

The discussions during our General Meeting reflected the realities facing many manufacturers today. Political uncertainty, cautious investment and continued pressure on budgets mean that customers are scrutinising expenditure more carefully than ever.

However, the conversations also highlighted opportunities.

Several members reported strong activity in sectors including grain handling and pet food, while others discussed successful collaborations with universities through Knowledge Transfer Partnerships. Apprenticeships were recognised as an increasingly valuable route for developing future talent, particularly as experienced engineers begin to retire from both supplier and customer organisations.

One particularly interesting discussion centred around the changing nature of technical sales. As expertise leaves many customer businesses, equipment suppliers are increasingly finding themselves acting as educators as well as manufacturers. Helping customers understand not simply what equipment to buy, but why it delivers greater long-term value through lower operating costs, improved reliability and reduced maintenance, is becoming an essential part of the sales process.

These conversations are precisely why SHAPA exists. By bringing members together, we can identify common challenges, share successful approaches and ensure that knowledge benefits the wider industry.



By continuing to share knowledge, embrace new technologies and celebrate engineering excellence, I have every confidence that our sector will continue to thrive.

Investing in Skills and Knowledge

Supporting professional development remains one of SHAPA's core objectives, and our programme of technical events continues to grow.

Preparations are now well underway for our dedicated ATEX Seminar this autumn – with a date confirmed for the event of 10th November, you will be able to register directly on the SHAPA website – www.shapa.co.uk. We will bring together specialists from across the industry to share practical expertise on explosion protection, combustible dust hazards and process safety.

Looking further ahead, our Introduction to Bulk Handling course has been rescheduled to early 2027 to ensure it delivers maximum value for attendees, while a brand-new Standards Workshop will also join our programme. Delivered by Robin Carver, whose previous CE Marking workshop received outstanding feedback from members, this event will help manufacturers navigate the increasingly complex landscape of engineering standards and compliance.

Alongside our own events, SHAPA continues to work closely with organisations including the Institution of Mechanical Engineers, supporting seminars and technical knowledge sharing that benefits the wider process industries.

These activities reinforce an important principle: learning never stops. Whether you're an experienced engineer, a recent graduate or a business leader, continuous professional development is essential if UK manufacturing is to remain globally competitive.

Strength Through Collaboration

Behind every SHAPA event sits a significant amount of work carried out by volunteers, committee members and our Council.

Our Technical and Marketing Committees continue to provide invaluable guidance on the issues affecting members, while our ongoing engagement with organisations such as EAMA, SHEP and the IMechE ensures that SHAPA remains connected to wider developments across UK engineering and manufacturing.

We also continue to strengthen our own community. It has been encouraging to welcome new member companies over recent months, further expanding the breadth of expertise represented within the association.

Equally encouraging has been the growing engagement with our new website. Members now have greater

opportunities than ever to promote their businesses, share news, demonstrate expertise and connect with potential customers through their individual company profiles. I would encourage every member who has not yet claimed and updated their page to do so. Collectively, we have a fantastic opportunity to create an online resource that showcases the very best of the UK solids handling and processing sector.

Looking Ahead

As we move into the second half of the year, there is every reason to remain optimistic.

The market undoubtedly continues to present challenges. Investment decisions remain cautious, global competition is intense and manufacturers continue to face pressure from rising costs and changing customer expectations.

Yet every SHAPA meeting reminds me why I remain confident about the future of our industry.

- I see businesses investing in new technologies.
- I see companies embracing artificial intelligence rather than fearing it.
- I see apprentices entering our sector and experienced engineers sharing decades of knowledge.
- I see manufacturers collaborating instead of competing in areas where collective progress benefits everyone.

Most importantly, I see an industry that continues to solve complex engineering problems every single day.

That spirit of innovation, collaboration and professionalism has always been one of SHAPA's greatest strengths. It is what enables our members to deliver world-class solutions across food, pharmaceuticals, chemicals, minerals, recycling, energy and countless other industries.

As we look towards our forthcoming ATEX Seminar, committee meetings and Autumn General Meeting, I would like to thank every member who contributes their time, expertise and enthusiasm to the association. SHAPA is only as strong as its membership, and your continued support allows us to champion this remarkable industry.

The challenges ahead are real, but so too are the opportunities. By continuing to share knowledge, embrace new technologies and celebrate engineering excellence, I have every confidence that our sector will continue to thrive.

Together, we are not simply responding to the future of manufacturing - we are helping to shape it.

Explosion Hazards Limited



Experts in explosion safety
for over 50 years

Showcasing our products
and services

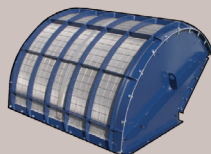
Our specialist industries

- Dairy
- Food & Beverage
- Chemical & Pharmaceutical
- Coal
- Biomass Safety
- Waste
- Cement Industry

www.explosionhazards.co.uk

Explosion Venting

Explosion venting devices limit the over-pressure and mitigate damage to process equipment by controlled venting of the excess pressure with or without flame to a safe area. ATEX explosion venting systems offer an economical, cost-effective means for explosion protection. We have the latest and best in explosion venting technology, over 50 years of practical design knowledge and up to date computer modelling.



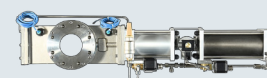
Explosion Suppression

Explosion Suppression Systems are fast fire extinguishing systems that detect the explosion pressure in a protected plant and then mitigates the flame/pressure damage to an acceptable level. For the very best in explosion suppression solutions, view our full range of ATEX solutions.



Explosion Isolation

Most processes involve interconnection with associated vessels. To prevent propagation to other vessels, it is essential to apply appropriate explosion isolation devices to prevent flame, spark and/or pressure from transmitting to the other vessels. For the very best in explosion isolation solutions, view our full range.



Atex CO ACOM Systems

The Atex CO detection system uses advanced carbon monoxide (CO) sensors to detect early stages of powder combustion before a fire or explosion can be ignited.



Email: info@explosionhazards.com



PROMTEK LAUNCHES 3-DAY TECHNICAL MASTERCLASS TO TACKLE BATCHING AND MILLING EFFICIENCY ACROSS FOOD, BEVERAGE AND ANIMAL NUTRITION SECTORS

Process control and automation specialist Promtek has announced its inaugural educational course: the **Batching and Milling Course**, taking place **15–17 September 2026** at Promtek Headquarters in Stoke-on-Trent.

Designed specifically for plant managers, production heads, shift leaders, and maintenance teams across the food ingredient, beverage, and animal nutrition industries, the intensive three-day masterclass focuses on practical strategies to optimise bulk processing lines, reduce energy waste, and maintain strict quality standards.

World-Class Expertise On-Site

The course will be led by **Ernst Nef**, Director of NEFeed Milling Consulting and a former senior expert at Swiss processing giant Bühler Group and SFT. Bringing over 33 years of hands-on experience in industrial milling, Nef will guide participants through core unit operations, including:

- **Batching & Dosing Accuracy:** Eliminating raw material wastage and improving recipe repeatability.
- **Size Reduction & Particle Dynamics:** Optimising hammer mill and roller mill throughput while managing heat and wear.
- **Mixing Systems & Liquid Addition:** Achieving homogeneous blends and stable liquid dispersion across complex formulations.
- **Process Bottleneck Identification:** Practical troubleshooting methods to boost plant efficiency without capital-intensive hardware replacements.

“Operational efficiency in dry batching and milling doesn’t just happen by adjusting a single dial – it requires a deep, step-by-step understanding of how material behaves from the intake pit to the finished mixer,” said Ernst Nef. “This course bridges



theoretical process design with day-to-day shop-floor realities.”

Hands-On Validation and Industry Networking

Unlike standard academic seminars, the curriculum blends interactive technical instruction with real-world case studies and a practical validation test at the conclusion of the course, ensuring delegates return to their plants, ready to execute immediate process improvements.

“Providing high-quality technical training is a natural extension of our ongoing commitment to the processing sector,” said Charles Williams, MD of Promtek who attended a similar course by Ernst. “By pairing decades of automation expertise with Ernst’s renowned operational wisdom, we’re giving plant leaders the tools they need to cut production costs, improve safety, and protect product integrity.”

Key Event & Registration Details

Details	Information
Dates	15–17 September 2026 (9:00 AM – 5:00 PM BST)
Location	Promtek Headquarters, Stoke-on-Trent (ST8 7QJ), UK
Target Audience	Plant Managers, Production Directors, Shift/Maintenance Leaders
Pricing	Course Only: £610 + VAT (Standard: £1,110 + VAT) Course + Hotel & Meals: £1,110 + VAT (Standard: £1,610 + VAT)

Spaces for the masterclass are strictly limited to ensure direct interaction and tailored instruction. To register interest or reserve a seat, visit promtek.com/courses/batching-and-milling-course-2026.

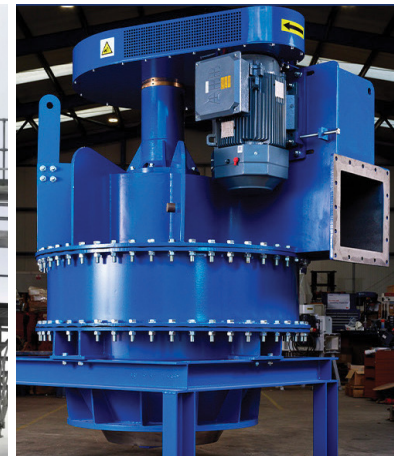
britishrema

Powder Processing know how



Contract
Processing

Equipment
& Systems



Rotary
Engineering

britishrema

✉ knowhow@britishrema.co.uk

🖱 www.britishrema.co.uk

☎ +44 (0) 1246 269 955

🌐 british-rema

📘 britishremaltd

📱 @BritishRema

FIRE AND EXPLOSION PROTECTION FOR POWER PLANTS



Protecting power generation processes from fire and explosion hazards

Power plants are essential to modern industry and infrastructure, with continuous electricity generation relying on complex processes involving fuel handling, grinding, combustion, ash removal and filtration. Across these stages, combustible materials and dust can create potentially serious fire and explosion risks.

Sparks, glowing particles and overheated surfaces can provide an ignition source where combustible dust clouds are present. Without effective protection, an incident can rapidly spread through ducts, chutes, conveyors, mills, filters and silos, potentially causing extensive equipment damage, production downtime and safety risks.

Rapid detection and protection

Explosion protection systems provide a critical layer of safety by detecting

sparks, glowing particles and abnormal pressure rises within milliseconds. Once an ignition source or developing explosion is detected, automatic countermeasures can be activated. These include rapid extinguishing, explosion isolation, venting and suppression to prevent incidents from reaching critical areas of the plant.

Comprehensive ATEX protection

ATEX explosion protection solutions are an important part of a comprehensive fire and explosion safety strategy for power generation facilities. ATEX suppression systems provide a reliable and high-efficiency solution and are already protecting power plants around the world.

ATEX Float Valves provide effective isolation to help prevent dust explosions spreading between different areas of a plant. In the event of an explosion, the valve closes under pressure and sends a closed signal to the plant control system to initiate plant shutdown.

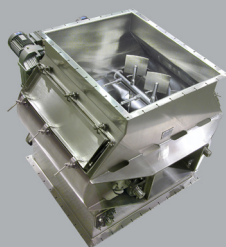
The ATEX Quick-Sliding Valve (Slam-Shut Valve) is a fast-acting solution designed to stop fire or explosions travelling through pipelines. Used alongside a controller and pressure or IR detection device, it forms an active fire and explosion protection system.

Experience you can rely on

With more than 50 years of experience in explosion protection, Explosion Hazards Limited is part of the ATEX multinational group, with offices across Europe, North America, Asia and Australasia.

Together, the group provides a comprehensive source for process fire and explosion protection, delivering integrated survey, design and engineering solutions tailored to individual safety requirements.

For further information email explosionsafety@explosionhazards.com or visit www.explosionhazards.co.uk



Bella XN Mixer

FAST, HIGH CAPACITY, GENTLE MIXING

The Bella fluidized zone twin shaft paddle mixer by Dynamic Air achieves fast, high-capacity, low shear, precision mixing of either dry bulk solids or liquids with solids. Regardless of particle size, shape or density, materials are mixed with a fast, efficient, and gentle action with typical mixing times of 15 to 30 seconds. A weightless zone created by low-speed counter rotating paddles generates very low friction without shear. This makes it ideal for abrasive products and fragile products that cannot tolerate rough handling. Even flakes or spray-dried bodies remain intact.

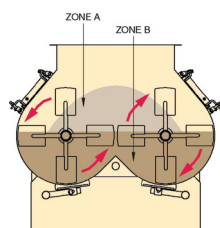


Figure 1

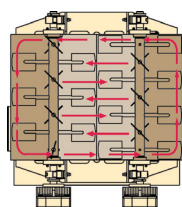


Figure 2

The Bella mixer consists of twin drums which have two counter-rotating agitators with specifically angled paddles. They overlap at the center and completely sweep the entire bottom of both mixer drums and allow it to be started under full load (Figure 1). The material in the mixer moves in a horizontal counterclockwise direction at the perimeter while simultaneously moving both left and right in the center (Figure 2).

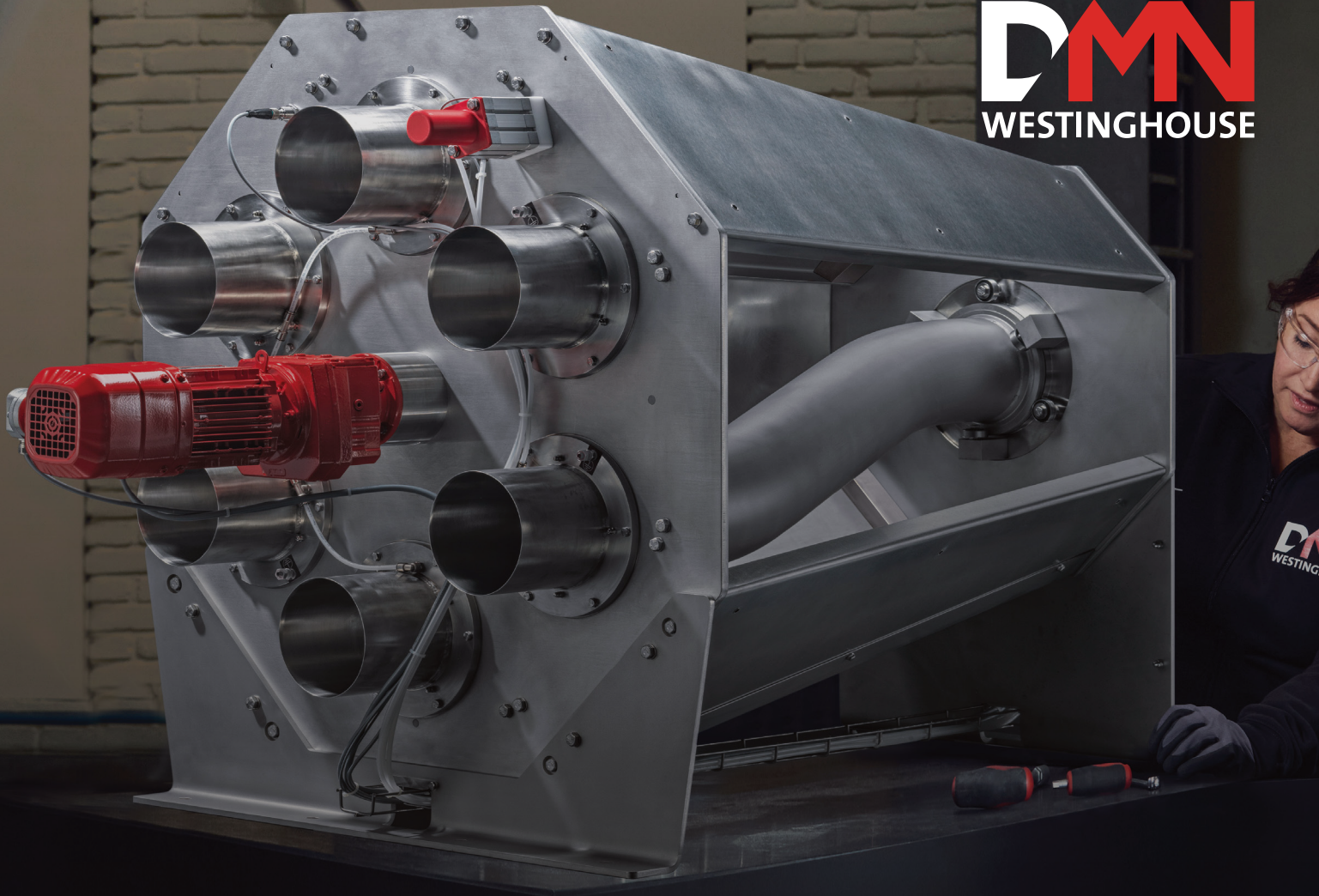
The material in Zone B (Figure 1) is in its normal gravimetric state as it is being moved and disbursed. In Zone A, a weightless zone is created which effectively lifts the ingredients to an almost weightless state allowing them to move freely and randomly, regardless of particle size and density. Thus, the two zones' interaction

becomes highly efficient as every particle moves rapidly to a highly homogeneous mix, the key to the Bella Mixer mixing technology for fast, precise mixing.

The Bella mixer is available in stainless steel for food applications. Custom sizes, finishes and materials of construction are available upon request.

[Read more here](#)

Dynamic Air Ltd.
Milton Keynes, United Kingdom
+44-1908-622344
E-mail: sales@dynamicair.co.uk
www.dynamicair.com



WE ADD RELIABILITY TO **DRY BULK HANDLING** INDUSTRIES

DMN-WESTINGHOUSE is an independent international company that excels in designing and manufacturing highend rotary valves and diverter valves for various industries that process dry bulk materials in their production. We add reliability and cleanability to your conveying processes, from aquaculture to plastics, dairy, pharmaceuticals, and many more.

From sales offices and production locations worldwide, we offer our customers tailored solutions and solid support. Since our establishment in 1950, we have pushed the boundaries of technical engineering and the design of our valves to find future-proof solutions that help our customers surpass themselves and their competitors. Today and in the future.



DUST EXTRACTION PROVIDES MORE THAN JUST COMPLIANCE

Commissioning a dust extractor to control operational dust is essential for meeting legal obligations and maintaining HSE compliance. Traditionally viewed as a workplace safety measure and a COSHH tick-box requirement, dust extraction has evolved to provide many more benefits to the manufacturing environment. With the availability of smart, new technology, these systems can now become valuable business assets that support not just compliance but enhance operational performance.

Dust Control Environmental (DCE) Ltd., with smart performance and sustainability at the core of its design, provides dust extraction systems that enable streamlined, energy efficient, safe and environmentally conscious operations.

Compliance

DCE offers the UK's largest range of dust collectors, delivering high-performing extractors tailored to specific processes to controlling airborne dust at source, they reduce harmful exposure and support legal compliance and workplace protection.

Compliance also relies on accurate records, regular testing and a clear evidence-based maintenance regime. The DCE OneHub portal provides secure 24/7 access to LEV (dust extraction) compliance information. Clients will stay on track with statutory regulatory testing with automatic reminders.

Better workforce protection

Efficient dust and fume extraction provides a higher rate of protection for the workforce. Removing dust and fumes at source avoids contaminants becoming airborne, reducing the chance of them being inhaled. A cleaner, safer workplace reduces long-term health risks associated with repeated exposure.

Cleaner workplaces play a part in preventing trips, slips and falls by eliminating dust settling on floors. The right dust collector will lower sick absences in the workforce.

Sustainability

Strong sustainability goals are increasingly important in manufacturing. With this at the forefront of the design process, Dust Control Environmental's extraction systems are built for long service life and reduced environmental impact. This is achieved by adopting elements such as durable filter body materials, incorporating waste separation systems and better waste disposal and reuse options. Filter bags are designed to reduce the frequency of replacements and easy and quick to replace. By supporting cleaner processes and better housekeeping, dust extraction

systems play a major part in a more responsible use of resources.

Energy Saving

As businesses work to reduce energy use and decarbonise, DCE offers dust collector options that help lower environmental impact. Efficient fans, IE4 motors, converters and demand-led operation reduce unnecessary energy use. By responding to production needs, cascading fan systems such as DCE's Envirojet W series can deliver tangible energy savings without loss of performance or compliance.

Improved Product Quality

Dust and fume control provides cleaner production areas. It can improve the quality of the finished product by reducing cross and dust settlement, improving quality of finishing and maintaining consistent standards across manufacturing processes.

Pre-emptive Maintenance

Real-time performance monitoring of dust extraction equipment from DCE can be achieved via the DCE remote link. Providing quick diagnostics enables pre-emptive maintenance planning. Dealing with any issues early rectifies small issues before they become costly failures, minimising un-planned operational shutdown.

Lower Operating Costs

Dust extraction should be viewed as a long-term investment, not just a compliance cost. By improving system performance, reducing maintenance demands and helping prevent unplanned downtime, an efficient system can contribute to lower operating costs over its lifecycle.

All in One Place

To ensure the continual compliant, safe and efficient operation of dust and fume extraction systems – consistency is key. DCE prides itself on being a true "One-Stop-Shop" for dust control requirements. From scheme design and installation to maintenance, spares and testing, DCE helps clients maintain high-performing, compliant and energy-efficient dust extraction systems.

Find out How Smart Dust Extraction Can Improve Your Operations

The full range of Dust Control Environmental's products and services can be found at www.dustcontrolenvironmental.com or call 01924 335500 to discuss your requirements.





One System Every Sector Zero Compromise

Our modular pipework system is engineered to handle bulk materials of every kind: **powders, pellets, granules, biomass, and more.** Designed for absolute reliability, it delivers smooth flow, rapid installation, and long-term performance in even the toughest environments. Whatever your process demands, our system adapts, protects, and performs without compromise.



For more informations
www.jacob-group.com/uk/

JACOB

POST-BLENDED COMPOUNDS ENSURE UNIFORMITY



The Farmington, Connecticut headquarters of Polymer Resources operates seven compounding lines, producing specialised grades of polycarbonate, ABS, PC/ABS, PPO, PBT, ASA, PEI and nylon-based resins for medical devices, electronics, automotive parts, building materials and consumer goods.



To ensure absolute consistency of colour and physical properties, the company often blends an entire production run following extrusion and pelletising.

"We're very quality-focused, and the colour and other properties need to be spot on," says Cole Accardi, lead process engineer, adding, *"If we have a 36,000 kg run, the colour could drift slightly from the beginning to the end of the run."* Post-blending ensures absolute consistency of colour and properties throughout the order.

A ribbon blender previously handled the post-blending, but nooks and crannies made cleaning difficult and time consuming, and risked cross contamination. It also introduced heat and shear, which could generate dust and cause white compounds to yellow.

To prevent these problems, the company installed a 4 cubic meter capacity Rotary Batch Mixer from Munson Machinery.

It has no agitators and thus no internal shafts or bearings. Instead, its horizontal vessel rotates on external trunnion rings located at each end. According to Accardi, the Munson unit offers the most gentle mixing action available, and produces no

heat generation, ensuring the preservation of material properties.

At the conclusion of a production run, pelletised compounds are discharged into Gaylords, each of which is tested for uniformity of colour, melt flow, and impact resistance.

If any variation is detected, the containers are forklifted to the post-blending area,

where a box dumper unloads the entire contents of each Gaylord into a portable stainless steel hopper of equivalent capacity.

A forklift operator then raises the hopper to a stand above the mixer's stationary inlet.

While the mixer rotates, the operator opens the hopper's knife gate, allowing full discharge into the mixing vessel, where proprietary mixing flights create a gentle four-way tumble-turn-cut-fold mixing action, achieving total batch uniformity in two to three minutes.

The mixer handles up to 2722 kg per batch, equivalent to four Gaylords.

The mixing flights also serve to elevate the compound toward a pneumatically-actuated plug gate valve which, when opened, discharges material at a steady flow rate into Gaylords placed in succession on a scale below, with no material remaining in the mixer at the conclusion of a run.

Once the blended compounds are quality tested, the boxes are sealed for shipment.

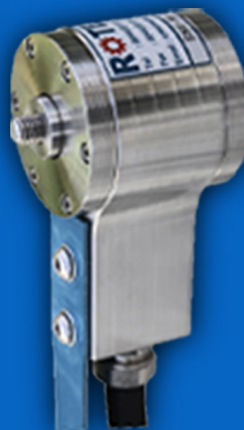
According to Accardi, the ribbon blender has a dead zone where material remains,

whereas the Munson evacuates the entire batch and is devoid of crevices that can trap pellets, thereby reducing material losses, lowering the risk of contamination, and shortening blend times.

Since the mixer's installation, the time required to post-blend a typical production run decreased from three hours to two, including 30 minutes of cleaning time. In one case, Polymer Resources post-blended three different colors of pellets totaling 15,876 kilograms in about 12 hours.

Accardi says, *"Right off the bat we were getting perfect blends in two minutes, and we no longer have any issues with contamination."*

Munson Machinery Company
+1 315-797-0090
sales@munsonmachinery.com
www.munsonmachinery.com



+44(0)151 356 2322

www.rotechsystems.co.uk
sales@rotechsystems.co.uk



ROTECH SYSTEMS

Rotech End of Shaft or belt driven units are used for monitoring:

- Stop/slip
- Underspeed/overspeed
- Interlocking/sequencing
- Distance/direction
- Rotation control
- Belt weighers



CLEAN, CONTROLLED, AND DUST-FREE BULK BAG EMPTYING



The BulkBuster™ Bulk Bag Unloader by Dynamic Air is a high-performance system engineered for safe, efficient, and dust-free discharge of large bulk bags across a wide range of bulk solid materials. The design reflects extensive experience with materials that exhibit diverse and often challenging flow characteristics. Because each bulk solid material gravity feeds differently, Dynamic Air BulkBuster unloaders are configured to match the specific handling requirements of each material, ensuring stable flow and consistent process performance.

The BulkBuster accommodates variations in bag capacity, geometry, inlet and outlet dimensions, and lifting-loop configurations. Standard models cover common industrial requirements, while custom configurations can be developed when application parameters fall outside typical ranges. All units are performance-validated prior to shipment to confirm proper operation under defined process conditions.

Integrated dust collection captures fugitive dust directly at the source, maintaining a sealed unloading environment. The system continuously cleans its cartridge filters and returns collected material to the process hopper for complete product recovery. A sealed access chamber equipped with internal gloves and a sight glass enables safe, no-contact bag untying while maintaining full dust containment.

For materials with poor flow characteristics—such as starches, silica, resins, and hygroscopic powders—air-operated bag jostlers provide mechanical agitation to promote consistent discharge with minimal operator intervention. An optional bag-closing mechanism supports applications requiring partial or staged unloading while minimizing spillage and maintaining containment.

Heavy-duty structural construction ensures stability when handling large, high-mass bulk bags and supports continuous industrial operation. The system's straightforward lifting, positioning, and discharge procedures enhance operator efficiency and integrate easily into automated or semi-automated material-handling processes. These characteristics make the BulkBuster a reliable solution for facilities seeking to expand, modernize, or improve bulk solid transfer performance.

[Read more here](#)

Dynamic Air Ltd.
Milton Keynes, United Kingdom
+ 44 1908 622344
E-mail: sales@dynamicair.co.uk
www.dynamicair.com

BOONE MIXER HELPS SUREFIL REDUCE POWDER MIXING TIME BY 75%

A British-designed and manufactured Horizontal Delta Blade Mixer (HDBM) from Boone Mixers has helped contract cosmetics manufacturer Surefil significantly improve the production of its powder products. The mixer disperses pigment into a very light powder within an ATEX Zone 22 environment, achieving a **75% reduction in mixing time compared with pre-project estimates.**

Based in St Helens, Surefil is a successful and growing contract manufacturer whose versatility and can-do approach has seen it work with major retailers and leading brand owners across the UK. Its R&D laboratories develop new cosmetic products from the ground up, with each formulation individually tailored to the customer's requirements.

Surefil's product range includes lipsticks, powder compacts, eyeshadows and nail varnish, with ATEX Zone 1 environments required for the manufacture of nail varnish and eau de toilette.

For the new powder production project, Senior Factory Manager Matt Waring wanted the reassurance of well-engineered, fully ATEX-approved

mixing equipment. Having read customer testimonials on the Boone Mixers website, he contacted the company to discuss the project.

"We were keen to buy British, and we really liked the open-door policy at Boone, so we were able to visit early in the process and see how they work"

"Boone gave us great support throughout the project, and whenever we have had a question since then, they have been there to help. They were very price competitive too."

The HDBM Model 1250 supplied to Surefil has a working capacity of 1,100 litres and has been modified to operate safely within ATEX Zone 22 parameters. Its 'short and tall' mixing shell, combined with the unique delta shape of its high-speed, high-attribution mixing elements, enables a small percentage of pre-milled pigment to be rapidly dispersed throughout the absorbent bulk material.

The HDBM is also designed for straightforward cleaning, requiring just a single, short clean-down at the end of each working day.



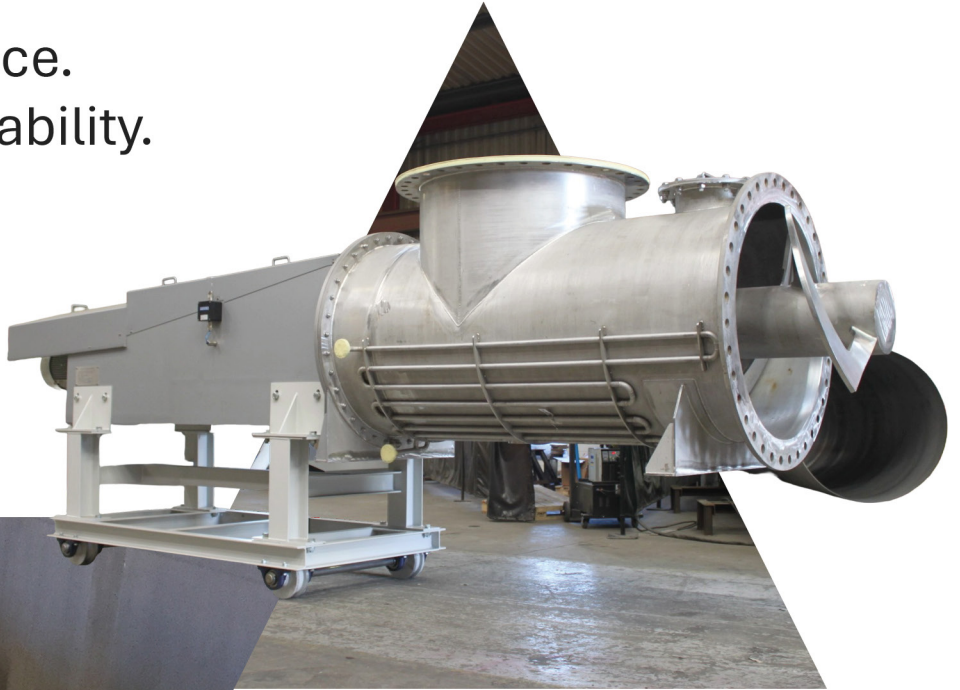
The results have exceeded Surefil's original expectations. Compared with the pre-project estimates, the Boone HDBM has reduced mixing times by three-quarters, enabling Surefil to operate **up to four times faster than originally anticipated.**

John R Boone Ltd
Tel: +44 (0)1260 272894
Fax: +44 (0) 1260 281128
Email: sales@jrboone.com
www.jrboone.com

SPIROTECH SCREW CONVEYORS

Built for Performance.
Engineered for Durability.

- ▶ New Systems
- ▶ Replacement Parts
- ▶ ATEX Rated
- ▶ High Temp & Pressure



- Custom designs for every industry: chemical, food & beverage, pharmaceuticals, water etc.
- Engineered to handle **abrasive, corrosive and heavy materials**
- Rapid delivery with full in-house support
- Minimises downtime with **easy-to-install replacement parts**



Spirotech
SRD GROUP LTD

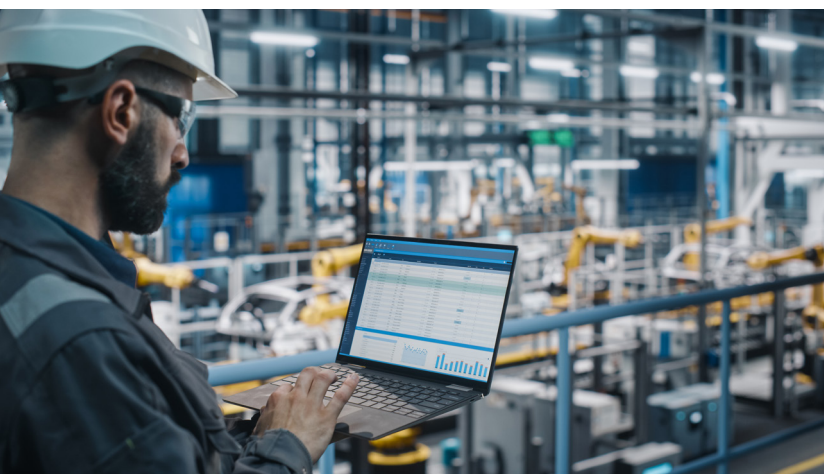
Contact us today:
+44 (0)1487 832 053
sales@spirotechgroup.co.uk
spirotechgroup.co.uk



By Arran Morgan,
Product and Engineering Director at
Donaldson BOFA

WHY INDUSTRY 4.0 DEMANDS MORE AGILE FUME EXTRACTION

Industry 4.0 is driving greater efficiency across operations, allowing manufacturers to respond more swiftly and precisely to customer demands. However, the increased flexibility created by Industry 4.0 approaches introduces new challenges, as factory floors become dynamic rather than static.



For many years, the standard approach to manufacturing fume extraction was to use a centralised/fixed or vent-to-air exhaust system. As manufacturers must now adapt to the agile demands of Industry 4.0, portable fume extraction is playing an increasingly important role. Portable filtration supports a 'make anything anywhere' production culture. It is quick and easy for production teams to set up with minimal disruption, and it can be scaled progressively to meet demand.

When production lines are frequently swapped or updated, deployment speed represents a competitive advantage, as productivity can be optimised without any infrastructure modification delays. Alongside the recognition

that portable extraction offers operational agility and efficiency, this shift is also being driven by a growing focus on workplace atmosphere management and cost savings.

Engineering and health and safety managers must now assess the options between portable and fixed extraction. This includes ensuring they understand the potential risk any given process presents in the workplace. Beyond the immediate removal of visible dust or fumes, sub-micron particulates and volatile organic compounds (VOCs) must also be controlled. Managers should also assess the installation and life cycle costs of fixed and portable systems, while projecting the future mix of work relative to agility, capability, and capacity.

Flexibility

Portable systems are far more manoeuvrable than their fixed counterparts, providing flexibility that accommodates changes to the factory floor. Their ability to be quickly repositioned to support evolving layouts, without the need for major infrastructure changes, is a significant advantage in an Industry 4.0 environment.

The quick and flexible deployment of portable fume extraction systems means that installation and maintenance costs tend to be lower. In contrast, a vent-to-air system requires a greater initial investment due to the need for a larger-scale, centralised infrastructure. This involves



complex ducting and pipework, which not only adds to the initial cost but also makes future changes to the factory floor layout more expensive and time-consuming.

Energy efficiency

Traditional vent-to-air systems expel both air and fumes outside, which can increase energy consumption as heated or cooled air must be continuously removed from the workplace. However, portable systems recirculate filtered air back into the workplace, which helps to retain heated air within the building and reduces the need for it to be replaced with cold outside air. Consequently, energy consumption for space heating can be lower for portable fume extraction systems.

Blended approach

While portable systems offer significant flexibility, it is important to remember that a fixed or centralised vent-to-air system might be better suited to certain applications. This includes large-scale industrial processes where centralised systems are designed to handle the emissions from multiple stations or processes, which can be more efficient for large installations. They are also central to the prevention of line contamination, as a centralised vent-to-air system removes harmful airborne contaminants, reducing the risk of particles settling on production equipment, which could potentially damage product quality. Also, for high-volume and stationary process situations that are not expected to change, a fixed system can provide a robust and permanent solution to ensure consistent fume removal where there is no need for frequent repositioning.

However, it is not necessarily a 'one size fits all' option, as portable and fixed fume extraction solutions can be combined effectively to optimise production. Portable systems can be used to augment an existing vent-to-air (VTA) system, addressing specific processes or workstations that may not be a good fit for the main centralised exhaust. For



example, a portable unit might be deployed to handle a new or temporary production station.

This dual functionality is particularly useful in agile manufacturing environments where a business might use a fixed VTA system as a base but also needs the flexibility of portable units. This allows businesses to adapt to changing production layouts and processes without incurring any significant costs and downtime associated with modifying a fixed, centralised infrastructure. This multi layered approach creates a more flexible and comprehensive fume extraction strategy in the factory environment strategy.

Increasingly, portable fume extraction solutions are proving to deliver enhanced support against the demands of Industry 4.0, through greater flexibility in an agile manufacturing setting. Smart factory sensors can be integrated into these systems to provide real-time data on filter life and air quality, helping to make maintenance predictive rather than reactive. However, they can also be deployed to effectively support more traditional fixed fume extraction systems. This will enable manufacturers to optimise investments already made in factory processes, infrastructure and equipment, while taking advantage of new smart factory approaches that help enhance production, minimise downtime and eliminate inefficiencies.

**This information is provided for general guidance only and should not be considered legal, regulatory, or technical advice.*



About the author:

Arran Morgan is Product and Engineering Director at [Donaldson BOFA](#), where he leads product development and lifecycle management across the company's fume extraction portfolio. With seven years' experience in the fume extraction industry, Arran brings a strong technical background shaped by previous roles in product management and as a lead physicist in the nuclear sector. He holds both a BSc and MSc from the University of Surrey.



SOLIDS HANDLING INDUSTRY AWARDS 2026

WINNER SPOTLIGHT SUSTAINABILITY AWARD

HOVERDALE

Hoverdale UK is a British engineering specialist with over 50 years' experience in solids handling and bulk materials. Despite 36% year-on-year growth and expansion into 45+ countries, the company has significantly reduced its carbon intensity.

Between 2023 and 2024, carbon intensity fell 21% while revenue rose more than 35%, demonstrating cleaner, more efficient growth. Although total emissions increased modestly due to higher production and global distribution, emissions per £1m revenue declined.

Improvements were driven by energy-efficient equipment upgrades, lean manufacturing, waste reduction, smarter logistics, supplier engagement, and digital process control.

Sustainability is embedded in Hoverdale's long-term strategy, with commitments to ongoing carbon-intensity reduction and responsible export growth. Its durable, wear-resistant products also help customers cut waste and downtime. Hoverdale demonstrates that UK engineering can expand globally while measurably lowering environmental impact.



WINNER SPOTLIGHT: INNOVATION IN TRAINING & DEVELOPMENT AWARD

RUSSELL FINEX

As an independent, employee-owned manufacturer, Russell Finex has grown its workforce by 125% since 2022.

That success has been driven by its people for over 90 years, which is why the business invests heavily in training, development, and wellbeing.

From partnering with schools and colleges to offering work experience and apprenticeships, as well as embracing digital learning, Russell Finex empowers its team for the future of manufacturing as other businesses in the sector become increasingly automated.

It remains proud to be a British-made company where highly skilled employees continue to lead innovation and uphold the quality that leads to decades of success.



WINNER SPOTLIGHT: INNOVATION IN TECHNOLOGY AWARD

WOODCOCK

Woodcock & Wilson Ltd, a UK-based industrial fan manufacturer with over fifty years of engineering excellence, has partnered with the University of Huddersfield to develop a pioneering artificial intelligence platform transforming how technical manufacturers manage knowledge, train employees, and support customers.

Combining knowledge graphs, generative AI, natural language processing, and human-guided reinforcement learning, the system converts decades of complex engineering expertise into a secure, real-time intelligence engine.

Unlike conventional chatbots, it delivers retrieval-based responses grounded in verified company data - ensuring accuracy in technically critical environments. Now supporting active operations across the UK, UAE, Malaysia, and Australia, the platform provides a unified global source of engineering truth, strengthening partner capability while delivering consistent, high-quality support worldwide.

This innovation demonstrates how a specialist manufacturer can responsibly embed advanced AI at the core of its operations - setting a new benchmark for intelligent manufacturing in the air movement sector.



WINNER SPOTLIGHT: NEWCOMER OF THE YEAR AWARD

TOM JONES, GENESIS

With previous experience in manufacturing and mechanical engineering design, Tom joined Genesis in 2024 as a Project Manager. When Genesis' MD relocated overseas, Tom took the role of Operations Manager and in a short time has managed to complete many projects in design and build, he's implemented ISO9001 and also integrated the use of Citation within the business to assist in development of all staff with regards to training, HR and support.

Genesis we will be moving into a new building this year which is set to double its existing size to enable growth. Tom has been the instigator of this and is currently handling all of that on top of his existing workload.



WINNER SPOTLIGHT: EXPORT AWARD

RUSSELL FINEX

With 195 countries worldwide, Russell Finex delivers advanced sieving and filtration solutions to over 72% of them, empowering industries globally. Their success is driven by a strong export strategy and significant investment in international growth.

With subsidiaries in the USA, Belgium, India, China, Brazil, and Spain soon to follow, Russell Finex have strengthened their global footprint to meet rising demand. Recent expansions include new facilities in Belgium and Brazil, alongside a 25% increase in UK facilities, ensuring they continue to deliver high-quality solutions to over 140 countries.

From overcoming complex export challenges to tailoring solutions for diverse industries, Russell Finex has built strong foundations for sustainable growth. Their commitment to innovation, customer collaboration, and localized support continues to position Russell Finex as the global leader in separation solutions.



WINNER SPOTLIGHT: **APPRENTICE OF THE YEAR AWARD**

SZYMON OLSZEWSKI, BAKER PERKINS

Szymon is an exceptional apprentice who consistently demonstrates superior technical knowledge, creativity, and adaptability within a specialised engineering environment.

He has effectively worked with multiple controls with technically distinct machines-including a recently introduced US model.

Szymon successfully aligned his performance standards through the development of calibration procedures and the transfer of operational parameters between systems. His ability to interpret and seamlessly integrate multiple controls and machines while maintaining precise operational accuracy, highlights his technical expertise and strong analytical capabilities.

Szymon exemplifies initiative, precision, and innovative problem-solving. He has significantly contributed to the optimisation of equipment used for work holding of complex components, leading to enhanced efficiency and standardisation across the workshop.



WINNER SPOTLIGHT: **PROJECT OF THE YEAR AWARD**

HOVERDALE

Hoverdale UK Ltd's National Improvement Programme for Biffa transformed Biffa's waste-handling operations nationwide, improving safety, reliability, efficiency, and



WINNER SPOTLIGHT: **INNOVATION IN SAFETY AWARD**

BOSS PRODUCTS

Boss Products UK'S VIGIFLAM VI rethinks conventional explosion venting by enabling certified pressure relief in indoor dust processing environments without the need for external ducting.

By integrating high-efficiency vent panels with a stainless steel flame quenching mesh assembly, it safely retains flames, burning particles, and high temperature gases within the device housing.

This approach addresses a long-standing industry challenge: how to provide compliant explosion protection in facilities where vent-to-atmosphere systems are structurally impractical, spatially restrictive, or cost prohibitive.

The result is a compact, engineered solution that expands where explosion protection can be realistically implemented. By removing traditional installation barriers and simplifying compliance, the VIGIFLAM VI represents a practical step change in explosion safety accessibility across the solids handling and processing sector.

cost performance. Using laser scanning, 3D modelling, engineering analysis, and asset standardisation, Hoverdale implemented a national emergency and preventive maintenance structure, reducing downtime and extending conveyor life.

The project delivered a 30% reduction in maintenance costs, significant OEE improvements, and safer, more reliable operations. Advanced materials, redesign of transfer points, and standardised procedures improved durability and environmental performance. Hoverdale also established predictive maintenance, centralised reporting, and 24/7 emergency response, earning the company Biffa's first Approved Preferred Supplier status.

This programme demonstrates Hoverdale's technical innovation, national impact, measurable results, safety leadership, and long-term sustainable engineering framework, setting a benchmark for excellence in the waste and recycling sector.



WINNER SPOTLIGHT: ENGINEER OF THE YEAR AWARD

KORAY KAYALI - POLIMAK

Koray has played a defining role in strengthening the UK solids handling sector, combining a solid mechanical engineering background with active industry engagement.

Having built his career as a Project Engineer before stepping into leadership, he brings practical design insight, commissioning experience and regulatory understanding to every project - ensuring solutions are commercially successful, technically sound and safety-driven.

In 2025, he led three major projects across food ingredient distribution, advanced plastics manufacturing and industrial processing, including the deployment of a fully ATEX-compliant Mobile Big Bag Discharge & Truck Loading System with one of the UK & Europe's largest sugar distribution operations.

UK revenue increased 2.5 times compared to 2024 and fourfold compared to 2023, reflecting structured market development and cross-sector growth.

Koray contributes as a technical speaker at CIS and is active within MHEA, SHAPA and ABTO, helping to strengthen dialogue across the UK solids handling community.



WINNER SPOTLIGHT: COMPANY OF THE YEAR AWARD

FIKE UK

Celebrating 40 Years of Excellence: Leading the Way in Dust Safety - this year marks a milestone as Fike celebrated 40 years of operations in the UK.

Since its inception, it has grown from a supplier into a cornerstone of British industry, dedicated to protecting workplaces and enhancing operational efficiency.

Fike's journey over the last four decades has been defined by its commitment - providing technology and serving as an educational partner for clients.

Innovation and Education: While it prides itself on supplying the latest products, Fike knows that hardware is only half the battle. True safety comes from understanding.

Fike's mission has always been to:

- **Supply:** State-of-the-art explosion protection to dust control, and material handling systems tailored to specific industrial needs.
- **Educate:** Hosting workshops and providing resources to help businesses understand the 'why' behind safety protocols
- **Guide:** Offering consultancy to ensure customers navigate complex dust hazard regulations (such as COSHH and DSEAR) with confidence

SPONSORED BY:



NEW ATEX DUST AND FUME EXTRACTION RANGE FROM FILTERMIST



(l-r):
AD EX dust
and fume
extraction
units that
comply with
the ATEX
Directives

Filtermist Limited has launched the new AD EX range from sister company Absolent, providing fully ATEX-rated dust and fume extraction for manufacturing environments where combustible dust presents safety and compliance challenges.

The range comprises three models – AD051EX, AD101EX and AD151EX – certified for installation in ATEX Dust Zone 22 and suitable for dust explosion classes ST1, ST2 and ST3. Airflow capacities range from 1,200 to 13,500 m³/h, covering applications from smaller process environments through to large industrial installations.

At the heart of the AD EX range is Absolent's Vertical Airflow Technology, which directs contaminated airflow downwards through vertical filter elements. Combined with a downflow pulse-jet cleaning system, this provides high pre-separation, directs dust to the collection hopper and minimises

filter accumulation. The result is stable performance, longer filter service life and reduced maintenance.

Three explosion protection options are available, including explosion relief panels for external installations, flame diverters that redirect energy away from personnel and equipment, and flameless vents for indoor or space-restricted environments.

The range also features Absolent's CleanChange™ filter replacement mechanism, allowing cartridges to be accessed and removed from the clean side without tools or entry into the contaminated section. A quick-release access door with a safety switch further reduces operator exposure during maintenance and helps minimise downtime.

Energy consumption is reduced through on-demand pulse-jet cleaning, optimised airflow and optional inverter-controlled fans. Units are constructed from Galvanneal pre-coated steel, offering twice the

corrosion resistance of conventional hot-dip galvanising.

The AD EX range is suitable for industries including food and beverage, pharmaceutical and chemical manufacturing, plastics, composites and textiles, metal fabrication, building products, minerals, packaging and converting.

Filtermist can provide further information on how the AD EX range can help protect workers from dust exposure and support compliance with COSHH and DSEAR requirements.

Contact Filtermist to find out how the new AD EX range can ensure your people are protected from exposure to dust and your business complies with regulatory requirements including COSHH and DSEAR.

Call 01952 290500 or email sales@filtermist.com.

MAKING FAST CLEAN ROTARY VALVES EVEN BETTER (AND BIGGER)

Gericke RotaVal has again updated its range of Fast Clean rotary valves, combining enhanced hygienic design with innovative features that increase productivity, reduce downtime, and ensure safe, reliable operation. Certified to USDA Dairy, EHEDG, and ATEX standards, the updated range is engineered for demanding industries where cleanliness and process integrity are critical. With the latest range update extractable versions up to 400 mm are available as standard.

Designed for hygienic performance and maximum uptime

The Fast Clean HDMF and BSMF rotary valves are specifically developed for applications requiring frequent cleaning and inspection. Their hygienic construction, polished surfaces, and minimised dead zones reduce product retention while supporting consistent material flow.

Available with both single and double end plate openings, the valves provide easy access for thorough cleaning, enabling faster turnaround times and significantly reducing production interruptions. Their robust design ensures suitability across a broad range of industries, from food and dairy to pharmaceutical and chemical processing.

RotaLign – Fast, safe and tool-free maintenance

A key innovation is the patented RotaLign rotor alignment system, now integrated across the entire Fast Clean range. This self-locating rotor technology simplifies reassembly while eliminating the need for manual adjustments or clearance checks.

Operators benefit from:

- Tool-free access to the rotor
- Simplified cleaning procedures
- Faster maintenance cycles with minimal downtime

The design also facilitates easy bearing replacement with little or no adjustment required, improving both safety and operational efficiency.



Scratches and damages to internal parts? Not with these valves

To further safeguard product integrity, the valves incorporate a tapered bore and matching rotor design with integrated guide rails. This ensures smooth, controlled rotor removal and reinsertion without risk of scratching or damage.

By eliminating potential contamination sources during maintenance, the design supports consistent product quality, operational safety and long-term equipment reliability.

Spark Extinguishing System

VIGI-SPARK

The VIGI-SPARK Spark Detection and Extinguishing System is designed to detect sparks and embers that may become ignition sources for fires or explosions if allowed to travel through ducts, conveyors, or pneumatic transport systems toward downstream equipment or storage areas.

Minimize Fire and Explosion Risks

- ◆ Automatic water extinguishing
- ◆ Automated process shutdown
- ◆ Activation of external safety devices



SDN Spark Detector



SDD Spark Detector



Booster system



Extinguishing Device





By Kathryn Hipkins,
Technical Operations Director at
Hosokawa Micron Limited

CLOSED SYSTEMS, SEGREGATION AND THE DISCIPLINE BEHIND CONSISTENT CHEMICAL PROCESSING

If you ask any process engineer working with fine chemicals about the materials that keep them up at night, the answer will typically involve some of the obvious hazards, but it will also include some difficult powders. In this article, **Kathryn Hipkins, Technical Operations Director at Hosokawa Micron Limited**, explores the powders that look stable on a specification sheet and then misbehave the moment conditions shift.

Take a catalyst, for example. This might draw in atmospheric moisture during a transfer step, or a fire retardant might see its particle size distribution drift because the milling environment

ran a few degrees warmer than the previous batch. An additive, meanwhile, that performed beautifully at pilot scale can refuse to hold its specification once volumes increase. These are the materials that turn a routine run into a problem nobody can immediately explain.

That unpredictability makes moisture-sensitive and hazardous powder handling one of the most persistent operational challenges in chemical and fine chemical processing, and it explains why the decision to outsource part of that processing deserves a more technical conversation than it usually gets. This article also examines what

that conversation should cover – such as the realities of closed-system and fill-weigh design, the segregation discipline that holds up under audit, the documentation practices that underpin batch-to-batch reliability, and the integrated processing capability that keeps a specification stable as volumes scale up.

The Problem With Moisture and Hazard

Humidity works against powder processing in ways that are easy to underestimate. Many chemical powders are moisture-reactive, which means that even brief exposure during processing or transfer can compromise product quality in ways that



are difficult to reverse. The damage rarely announces itself. A material absorbs a small amount of atmospheric moisture, its flow behaviour changes, and the consequences surface later as inconsistent downstream performance or a batch that fails final testing for reasons nobody can immediately explain.

Hazard adds a second layer of complexity, and it pulls the design problem in a different direction. In food and pharmaceutical environments, the dominant concern is protecting the product from the operator and the surrounding environment. Chemical processing inverts that priority. Many of the materials are hazardous, so the emphasis shifts towards protecting the operator from the product. The processing system must do two things at once. It must shield the powder from atmospheric contact, and it must shield the people handling it from exposure.

These requirements are what makes closed-system design central to the discussion. It's also where a lot of outsourced processing arrangements either succeed or fall short.

Closed Systems and Fill-Weigh Design, Examined Honestly

A closed system – one that's properly implemented – prevents the product from coming into contact with the atmosphere at any point in the processing chain. Fill-weigh systems extend that principle into the transfer and packaging stages, where material is most exposed and most vulnerable. Together they address both halves of the problem. The powder stays isolated from the external environment, and the operator stays isolated from the powder.



It's really a straightforward principle, but it's the execution that's considerably harder. What separates a reliable closed-system arrangement from a fragile one is the discipline applied at the points most people overlook. In my experience, that almost always means the transfer steps. The moment a coupling is connected or broken, and the handover as material moves from one piece of equipment to the next, is where a closed system is tested. For example, a system can be nominally closed and still expose a moisture-sensitive powder to enough atmospheric contact during a poorly designed transfer – and this will undermine the entire batch. So, when engineers assess an outsourced processing partner, the question worth asking is how those systems handle the awkward in-between stages, and less so on whether or not the facility has closed systems, although that's still important of course.

I have seen the difference this makes. On projects involving moisture-reactive specialty powder, the entire viability of the work can come down to how

“The paperwork is important too, no doubt, but in-process testing at regular intervals throughout a campaign is what identifies specification drift early.”

a single transfer between milling and packaging is managed. Sometimes the equipment specification is beside the point. Ultimately, the result depends on procedure, on operator habit, and on a facility culture that does not treat any step as routine.

Segregation That Holds Up Under Audit

Physical segregation may sound simple, but it's one part of outsourced chemical processing that turns out to be quite revealing.

As a bit of context, a well-managed contract processing facility will have chemical processing rooms that are completely segregated from food and pharmaceutical areas. Equipment designated for chemical work stays within those rooms and is not shared across environments. But the more meaningful indicator of quality is what happens to operator behaviour across the whole site.

And so, a key principal worth understanding is that when operators move between processing environments, the only reliable way to maintain standards is to apply consistent procedures everywhere – regardless of which area demands them. Validation and documentation steps are strictly required for all production areas to mitigate the gap.

Applying the same rigorous habits across every processing area as a matter of routine, whether or not the standard demands it.

This approach is the one that holds up under audit. Why? Because operators who maintain the same disciplined habits everywhere do not have a lower gear to slip into. In turn, consistency becomes structural rather than something that depends on remembering which room you are standing in. For an engineer evaluating a processing partner, that cross-environment consistency is one of the clearest signals available, because it tells you what the facility does when nobody is specifically requiring it.

Documentation as the Backbone of Reliability

Robust technical documentation is what turns processing into something verifiable. That's because clients need full visibility of what was done, how it was done, and ultimately what the results were. And, of course, the documentation has to be consistent and transparent.

A complete documentation package for chemical contract processing generally covers various stages. For example, pre-planning documentation defines the intended process and the safety requirements before any work begins. This sets out parameters, control measures, as well as the expected outcomes. What's more, batch manufacturing records capture what happened during processing itself, providing traceability and accountability for every stage. Final reports and certificates of analysis complete the documentation package by verifying the end product against its critical quality attributes – particle size distribution being chief among them.





Maintaining consistency through scale-up depends on having integrated capability rather than a collection of separate processes.

What really matters here is testing discipline. The paperwork is important too, no doubt, but in-process testing at regular intervals throughout a campaign is what identifies specification drift early. Identifying it early means it won't turn into a failed batch.

Particle size distribution sits at the centre of that monitoring, alongside whatever other physical properties the material and its application demand. The data generated is the evidence that the material was processed to the required standard, and it is what allows a client to trust a batch they did not produce themselves.

The Scale-Up Question

All of this comes together at the point most likely to expose weakness, which is the move from trial volumes to commercial production.

A powder that meets specification in a small pilot run has proven very little about how it will behave at scale, because particle size distribution can shift once volumes increase, and moisture sensitivity that was manageable in a controlled trial becomes considerably harder to govern across larger batches and longer runs. The materials in fine chemical processing are typically produced in smaller volumes and to tighter specifications than bulk commodities precisely because they are destined for high-value applications where consistency cannot be compromised. To put it bluntly, a 'close enough' result is a failed result.

Maintaining consistency through scale-up depends on having integrated capability rather than a collection of separate processes. Milling, classification, blending



and drying need to function as a coordinated system, because the interactions between those stages are where drift creeps in. When they are managed together, batch-to-batch reliability becomes achievable across the full range from pilot trial to multi-tonne production. When they are fragmented, every handover between stages becomes another opportunity for the specification to slip.

So, the most useful question an engineer can ask about outsourced processing is really about whether the milling, the classification, the documentation and the segregation discipline all hold together as one process, under audit, at scale, and on the difficult materials rather than the easy ones.

That is the standard worth applying. The bottom line is that moisture-sensitive and hazardous powders do not forgive shortcuts, and neither should the conversation about who processes them.



About the author

Kathryn Hipkins is Technical Operations Director at Hosokawa Micron Limited, where she sits on the company's board and oversees the technical and operational functions of the business. With a career rooted in applied chemistry and process engineering, Kathryn brings deep expertise in powder processing, containment, and cGMP-compliant manufacturing.

WHEN ONE BATCH BEATS THREE: A MIXER IN CUMBRIA



For almost two decades, ISF has supported a leading manufacturer and supplier of ruminant feed and blends, based in Cumbria and serving farmers across the UK. The latest project addressed a challenge familiar to many mills: excessive handling and dust.

The Problem: double handling and dust

The customer's existing process relied on a bucket loader to add raw ingredients to the mixer, creating a rough blend for animal feed formulations. The blend was then deposited onto the floor of the blending shed, where the loader collected it again and carried it on to storage bays or the weigh hopper for the next stage of the process. Every extra stage meant more time, more movement, and more hazardous airborne dust in the workplace, a combination that will be familiar to mills right across the sector.

Engineering the fix

The customer had sourced a new 13-tonne mixer from market-leading supplier Keenan. ISF's brief was to install it and upgrade the surrounding process equipment, cutting handling time and bringing airborne dust under control.

We surveyed the site, then our design team produced detailed 3D images

of the planned upgrades. The scope covered a new discharge and conveying system, modification to the holding bin, and a new dust unit to capture airborne dust and return it to the process.

We extended the holding bin to suit the larger mixer and fully enclosed it to suppress dust. We also designed and installed an intermediate outlet slide with discharge bellows. It lets the customer remove product before it reaches the bin, which is essential for dry mix formulations. These now transfer directly to a separate storage bay. The bellows lower product slowly to the ground, cutting dust escape significantly compared with dropping it from height.

Our engineers manufactured all the new equipment at our York workshop, then delivered and installed it during a planned shutdown, bringing the upgraded system to life safely and with minimal disruption to production.

The new discharge and conveying system now transfers mixed product from the mixer to the conveyor and into the bin, ready for the wet mix process. The 13-tonne mixer processes the equivalent of one bulk vehicle in a single batch, speeding up production by weighing and mixing

one complete batch rather than several smaller ones.

The results

The upgrade automated the customer's process, increased efficiency and production by 40%, and created a safer working environment by cutting airborne dust by 90%. Double-handling has been eliminated.

The extra capacity has also freed up dedicated time in the working day for dry blends. Previously squeezed in around a busy wet mix schedule, they can now be planned and run far more efficiently through the bellows, giving the customer far more control over their production week.

It's a good illustration of what material movement innovation looks like in practice: not one dramatic fix, but a series of connected changes to discharge, conveying, bin design and dust control that add up to a genuinely different way of working for the people on site.

The customer is extremely happy with the completed project, and ISF is already working with them on the next one.

Contact ISF to discuss your next upgrade project
isfyork.com

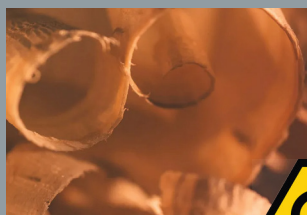


DUST AND FUME EXTRACTION SYSTEMS



Suction arms, walls, benches
Mobile units
Painting booths
Centrifugal, axial fans
Oil separators
Activated carbon filters
Cartridge filters
Bag filters
Pocket filters
Air handling units
Vacuum cleaners

Fume	Smoke
Dust	Powder
Oil mist	Wood
Paint	Acid
Composites	Atex pollutant
Vapors / VOC	



STUDY AND DESIGN

Production	Installation
Ductwork	Electrical job
Maintenance	LEV testing
Spare parts	

+44 (0)1706 377344
www.dustolex-coral.co.uk
info@dustolex.co.uk



UWT SIGNAL LIGHT IMPROVES PROCESS SAFETY IN SILO MONITORING

Rotonivo® rotary paddle switches combined with the NivoLED® status light improve visibility, process safety and response times in the wood processing industry



Large quantities of wood shavings and wood chips are generated during wood processing. At a major European manufacturer of wood-based materials, these residues are used in an on-site biomass power plant to generate heat and electricity. Before combustion, the materials are temporarily stored in several silos.

Level monitoring is managed centrally via a control system, with around 300 measurement points integrated into the plant visualisation system. Point level detection within the silos is provided by UWT Rotonivo® RN 6003 and RN 6004 rotary paddle level switches.

Challenge: Fast Status Recognition

Due to the proximity of the biomass power plant and resulting radiant heat, elevated temperatures are present within the silo installations. At the same time, operating conditions need to be recognised quickly so service activities can be carried out efficiently and plant downtime avoided.

Although a central process visualisation system was already available, an additional local status indication was required directly at each silo. This would allow switching states to be identified immediately on site without first accessing the central control system.

Robust Level Monitoring

Rotonivo® rotary paddle switches have been used for point level monitoring at the facility for many years. Designed for demanding bulk solids applications, the sensors are suitable for full, demand and empty level detection in storage and process vessels.

The Rotonivo® RN 6003 is designed for process temperatures up to +250 °C and pressures up to 10 bar, while

the RN 6004 can handle process temperatures of up to +600 °C.

Both devices feature robust housings for hazardous areas and are SIL2 certified. Large terminal compartments simplify wiring and facilitate retrofitting additional components such as the NivoLED® signal light.

Solution: NivoLED® Signal Lights

To improve visibility directly at the silos, a pilot installation was carried out by adding the [NivoLED® NL 9000 signal light](#) to an existing Rotonivo® installation.

The LED device visualises the current switching status directly at the measuring point. Its **360° visibility and high-intensity dual-colour red and green LED indication** allow switching states to be recognised reliably from greater distances and under poor visibility conditions.

During testing, defined limit levels could be identified more quickly, while maintenance and service activities were carried out more efficiently. This helped shorten response times and reduce potential downtime.

Following the successful trial, the solution was expanded to additional measuring points, with **18 additional NivoLED® signal lights installed throughout the facility.**

Customer Benefits

The local status visualisation provides several benefits:

- Improved visibility directly at the silos
- Faster recognition of switching states
- Simplified maintenance and service activities
- Reduced response times to process deviations
- Enhanced process safety



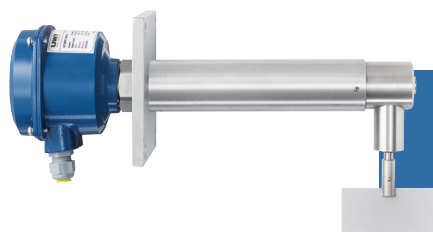
Thanks to its 360° visibility and high luminous intensity, switching states remain clearly visible even from greater distances

Designed for Hazardous Areas

The NivoLED® was developed for demanding industrial environments and features a highly visible 360° LED display for visualising sensor and equipment status.

With ATEX and IECEx approvals, its robust design makes it particularly suitable for hazardous and dust-intensive environments commonly found in wood processing facilities. The signal light can be integrated directly on sensors, control cabinets or process equipment and is well suited to retrofitting existing installations.

This application demonstrates how a relatively small upgrade to existing measurement points can deliver significant benefits, improving transparency, safety and response times across complex industrial facilities.



Robust RN 6 rotary paddle switch for demanding bulk solids applications with SIL2 certification and suitability for hazardous areas

UWT GmbH
Westendstr.5
87488 Betzigau, Germany
www.uwtgroup.com
info@uwtgroup.com

NEXT LEVEL CLEANING FOR PRODUCTION FACILITIES - PROSPARE & WALTER

Cleaning systems play a vital role in maintaining safe, efficient and compliant production environments. However, selecting the right equipment can also provide significant opportunities to reduce operating costs, improve productivity and minimise water and chemical consumption without compromising cleaning performance.

ProSpare are sole UK distributor for WALTER Cleaning Systems, who bring more than 50 years of German engineering expertise to manufacturers across a wide range of industries. WALTER pressure cleaning systems have earned a reputation for exceptional performance, reliability and long service life, helping businesses optimise cleaning processes.

WALTER systems are built using a modular design approach, allowing each installation to be individually specified to meet the requirements of each client. This tailored approach ensures customers achieve the highest cleaning standards while making the most efficient use of water and cleaning chemicals.

Beyond supplying industry-leading equipment, ProSpare is committed to helping customers maximise the value of their investment. Through its dedicated Capital Division, ProSpare offers

comprehensive aftersales support via a manufacturer-approved service scheme, ensuring equipment continues to perform reliably for years to come.

ProSpare's philosophy is simple: provide best-in-class equipment and components that solve real production challenges. By partnering with specialist materials handling and industrial equipment manufacturers from around the world, the company delivers proven technologies to the UK market, backed by extensive technical expertise and responsive customer support.

Whether the requirement is a manual or fully automated pressure cleaning system, ProSpare can help manufacturers identify the most effective solution for their operation.

For more information about WALTER Cleaning Systems and ProSpare's complete range of solutions, visit prospare.co.uk, email sales@prospare.co.uk or call 01773 814008.

Equipment from the WALTER cleaning systems range will be on display at the PPMA Show® 2026, alongside problem solving products from BFM® fitting and Hydronix moisture measurement equipment – Join ProSpare on stand E72.



OPEN PLANT CLEANING

Centralised systems and mobile units. Offering foaming, disinfectant and pressure cleaning from a single system.



CONTAINER CLEANING

Centralised systems and innovative, process-safe and auto mated cleaning equipment designed for an array of fixed and moveable containers.



INBUREX CONSULTING FOR FIRE AND EXPLOSION COMPLIANCE SERVICES IN THE UK AND IRELAND

INTERNATIONAL BUREAU FOR EXPLOSION CONTROL & PROCESS SAFETY

Inburex UK, a subsidiary of the Inburex Consulting group, would like to introduce ourselves as a company with extensive experience in the industry, servicing its safety compliance needs. Inburex with nearly 30 years of experience in fields of fire, explosion and process safety are part of the Inburex Consulting multinational group of companies.

Based on a team of 30 plus experts with international technical know-how, general and special safety problems are worked and brought to a customer-specific solution.

The holistic approach to these aspects of plant safety, occupational safety and environmental protection is ensured through interdisciplinary cooperation, between all areas including our world leading combustion research and testing facilities.

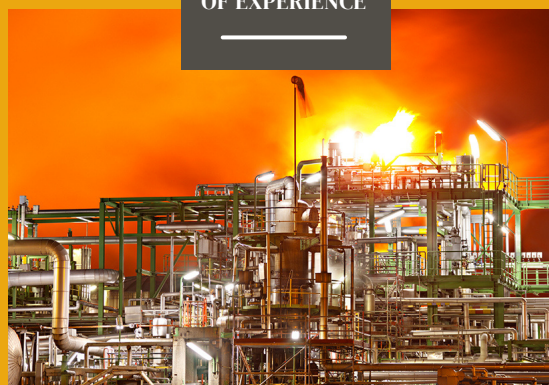
E-mail: info@inburex.co.uk

www.inburex.co.uk

Tel: +44 (0)1925 755 153



OVER 30 YEARS OF EXPERIENCE



EXPLOSION PROTECTION

Fire and explosion can occur in many industrial and commercial Premises. Inburex produce explosion reports and develops protection concepts taking into account the hazardous material used, its equipment and the special characteristics of the respective industries, in which the process exists.

FUEL - OXYGEN - IGNITION



By Gido van Tienhoven (MSc),
Technical Director & Co-Founder,
Armadox

WHEN EARTHING ISN'T ENOUGH:

STATIC ELECTRICITY IN SILO AND CONTAINER FILLING



Most teams that handle combustible powders have the basics covered. The plant is bonded and earthed, the operators wear dissipative footwear, the metalwork all reads continuity back to a verified earth point. On paper, the static problem is solved. And then a silo ignites during a routine fill, and everyone stands around the incident report asking how, because everything was earthed.

I have seen versions of this conversation more than once. The honest answer is usually that the charge nobody managed was never on the

metalwork in the first place. It was inside the powder.

This is the part of electrostatic safety that gets skipped, and it is exactly the part that matters most in solids handling. EN 1127-1 lists static electricity as one of the thirteen recognised ignition sources, and in powder handling it is one of the harder ones to see coming. Earthing and bonding deal with charge sitting on conductors. They do almost nothing about the charge a powder carries with it as it pours into a vessel, and that charge can produce a discharge that earthing was never able to touch.

The four electrostatic discharges in powder handling



Discharge type	Where it occurs	Ignites combustible dust?	Key point
Spark	Between two conductors at different potential	Yes	Defeated by earthing and bonding equipment, product and people
Brush	Off insulating surfaces	No *	Cannot ignite dry dust, provided no flammable gas or vapour is present
Cone	In the powder heap while filling a silo	Yes	Occurs within the product, at the bulking point, where earthing cannot reach
Propagating brush	Insulating layer on an earthed conductive backing	Yes	Most energetic, typically above 1 joule

Fig1 - four discharges

Powder resistivity classes (IEC 60079-32-1)



Class	Resistivity (ρ)	Charge behaviour
Low	$\rho \leq 1 \text{ M}\Omega\cdot\text{m}$	Relaxes quickly. Rare in practice; even metal powders oxidise (exception: carbon black)
Medium	$1 \text{ M}\Omega\cdot\text{m} < \rho \leq 10 \text{ G}\Omega\cdot\text{m}$	Relaxes slowly and accumulates
High	$\rho > 10 \text{ G}\Omega\cdot\text{m}$	Accumulates readily; highest charge-retention risk

Fig2 - resistivity classes

Why powders don't behave like the rest of the plant

When we classify hazardous areas for gases, conductivity is mostly somebody else's problem. With powders it is the whole game, and the figure that decides everything is resistivity.

IEC 60079-32-1, the guidance standard for electrostatic hazards, splits bulk materials into three bands. Low resistivity powders sit at or below $1 \text{ M}\Omega\cdot\text{m}$. Medium runs from there up to $10 \text{ G}\Omega\cdot\text{m}$. High resistivity is anything above that. The catch is that genuinely low resistivity powders are rare in practice. People assume a metal powder is conductive and therefore safe, but an oxide film forms on the surface fairly quickly and the bulk stops behaving like a conductor. Carbon black is one of the few materials that stays low. For most of what moves through a process plant, you are working in the medium or high band, which is where charge relaxes slowly and accumulates.

The second number that matters is the minimum ignition energy, and here is a trap worth naming. You cannot assess a powder on its average particle size. The fines decide the hazard. The standard is explicit that the ignition assessment should be based on the finest fraction that may be present, which in practice means sieving a sample through a 63 micron screen

and testing that. Ignitability climbs as particle size falls, and the fines are also the fraction that goes airborne and forms the cloud. Assess the bulk and you will flatter yourself. Assess the fines and you get the truth.

There is a useful rule of thumb buried in the guidance. If the minimum ignition energy is above 1 joule and there are no flammable gases or vapours in the mix, special measures against static are usually not needed. The exception, and it is an important one, is where propagating brush discharges are possible. For the great majority of organic powders, dusts that ignite below 1 joule, you are firmly in the territory where this article applies.

Four discharges, and only some of them ignite dust

Not every spark you can feel on a door handle is capable of lighting a dust cloud.

The guidance separates

the discharge types by how much energy they can deliver, and the differences are the whole reason cone discharges deserve their own conversation.

Spark discharges are the familiar ones, a jump between two conductors at different potentials. These absolutely can ignite dust, and they are also the easiest to design out. Compare the stored energy against the powder's minimum ignition energy, then earth everything that can hold a charge: equipment, product handling lines, and people. This is the discharge that conventional earthing and bonding actually defeats, which is probably why so many sites believe the job ends there.

Brush discharges come off insulating surfaces and look alarming, but the current understanding in the standard is that brush discharges cannot ignite combustible dust, provided there are no flammable gases or vapours present. That proviso matters. A solvent-wet powder changes the picture entirely. On their own, dry dusts shrug off brush discharges.

Cone discharges are the ones to worry about. When you fill a silo with a charged medium or high resistivity powder, the charge does not distribute itself politely. It concentrates in the heap building up at the bottom, the cone, and discharges flash across

the surface of that cone as more material lands on it. These can and do ignite powders. The critical point for plant designers is that the discharge happens within the product, at the bulking point, in a place that no earthing strap reaches. You have to stop the charge arriving, or stop the cloud being ignitable when it does.

Propagating brush discharges are the most energetic of the lot, routinely above 1 joule, and they occur where a highly insulating layer sits against a conductive backing, the classic example being an insulating liner inside an earthed metal vessel. If you are running high resistivity powders against insulating films, this is a second mechanism that earthing will not save you from.

Designing the fill so the charge never wins

Once you accept that the dangerous charge is in the powder, the control strategy shifts from “bond everything” to “manage the material and the process.” The standard offers a practical menu, and most plants can pick several items from it.

The first lever is the material itself. Raising the conductivity of the bulk, sometimes through additives or coatings, lets charge relax faster than it accumulates. Humidification can do the same job: around 70% relative humidity at 23 °C is the figure quoted, although it loses effectiveness with high-speed conveying and warm product, and it can ruin the flow properties of some powders, so it is not a free win.

The second lever is the handling. A lot of charge generation is self-inflicted by the way material is moved. Reducing the proportion of fines, since wear and abrasion manufacture their own hazard, limiting dispersion by favouring dense phase conveying over dilute phase, dropping the conveying speed and throughput, and preferring gravity transfer to pneumatic transport where the process allows it: each of these takes energy out of the system before it can become a problem. Where pneumatic transport is unavoidable, the hoses should be conductive or antistatic with a leakage resistance below 100 MΩ.

The third lever is the vessel assessment itself, and this is where the guidance gets quantitative. For filling silos and containers, the standard provides

decision paths keyed to the powder’s resistivity band, and they hang on measurable field strengths. The electrical field in the dust cloud should stay below 500 kV/m. At the silo wall, the radial field limit is 3 MV/m. Geometry helps you here: smaller vessels are inherently safer, and the assessment treats a volume under 100 cubic metres, or a diameter under 3 metres, as a lower risk case. If your vessel is larger than that and running high resistivity product, the cone and the cloud both need to be assessed properly rather than assumed away.

None of this is exotic. It is mostly about knowing which band your powder sits in, measuring the fines honestly, and choosing a filling method that does not generate more charge than the material can shed.

From the risk assessment to the equipment in the room

The electrostatic assessment is not a standalone exercise. It feeds the area classification, the dust zones 20, 21 and 22 set out in IEC 60079-10-2, and the area classification in turn dictates the equipment that is allowed to be in that space. A silo where a cone discharge cannot be excluded is a silo where the instrumentation, the level sensors, the cameras and the portable devices that operators carry all have to be rated for the zone they sit in, with dust environments typically calling for protection by enclosure, type “t”, under IEC 60079-31.

That last point tends to be where the paperwork meets reality. It is one thing to classify a zone on a drawing. It is another to make sure that every device that crosses into it, including the phone in someone’s pocket and the camera used for an inspection, is certified for the job. The discharge assessment and the equipment selection are two ends of the same chain, and a gap at either end is a gap in the whole thing.

The reason cone discharges deserve attention is not that they are common. It is that they are the failure mode that survives a plant doing everything else right. Earthing, bonding and dissipative footwear are necessary and they are not the finish line. In solids handling, the charge that gets you is the one riding in on the product, and the only way to manage it is to understand the powder before it ever reaches the vessel.



About the author:

[Gido van Tienhoven](#) (MSc.) is Technical Director & Co-Founder at [Armadex](#), with over two decades of expertise in explosion protection. His work covers hazardous-area engineering, product development, and the certification side of Armadex’s ATEX/IECEx product lines. If you have a hazardous-area technical question, Gido is always open to a conversation.

Dust & fume extraction

just got smarter

Now with ATEX options



High filtration performance in a small footprint

The modular AD range from Absolent is specifically designed for metal fabrication applications including welding, plasma cutting, laser cutting, grinding, finishing and polishing.



Part of Absolent
Air Care Group

Visit
filtermist.co.uk
to find out
more:



BULK MATERIALS HANDLING: CONSULTANCY SERVICES AND TRAINING

PROVIDING COST-EFFECTIVE SOLUTIONS TO INDUSTRIAL PROBLEMS

MONTHLY FOCUS

PNEUMATIC CONVEYING OF BULK MATERIALS

- Consultancy Services for design/modification of systems, assessment of vendor bids, troubleshooting – poor throughput, wear, blockages/scaling, product degradation
- Open Short Courses:
 - 17 – 18 November: Pneumatic Conveying of Bulk Materials
Venue: The Park, Nether Langwith, Notts
 - 1 – 2 December: Pneumatic Conveying System Design (Adv course)
Venue: Chatham, Kent
 - 23 – 24 February 2027: Troubleshooting and Commissioning Pneumatic Conveying Systems; Kent



 **UNIVERSITY OF
GREENWICH**

The Wolfson Centre
for Bulk Solids Handling Technology

**THE WOLFSON CENTRE FOR BULK SOLIDS
HANDLING TECHNOLOGY**

www.bulksolids.com | +44 20 8331 8646
Wolfson-enquiries@gre.ac.uk



A regular series where our host Dave Howell discusses with industry experts the latest technologies and future insights throughout the manufacturing process industries



Beamex: The Future of Safe, Secure Industrial Operations

Discover how Beamex is helping shape the future of industrial operations with innovative solutions that improve safety, security, mobility and operational efficiency.

[Play Episode](#) ▶



Smart Industry Rising: Automation, AI and the Next Growth Wave

Industrial automation is entering a new phase. What was once focused primarily on improving efficiency is now playing a critical role in helping manufacturers and process industries build resilience...

[Play Episode](#) ▶



Energy Savings as a Growth Engine: How SMEs Can Turn Renewable Power into Productivity

In this episode, host Dave Howell is joined by Kelly Lovesy, Sales Director at DCC Energy, to explore how rising energy costs are reshaping the landscape for UK manufacturers – and what can be done about it.

[Play Episode](#) ▶



Driving Change: How Hyper-Efficient Motors Are Reshaping Industries

A quarter of the world's electricity is converted into motion by industrial electric motors, yet a significant share of that energy is quietly wasted. With half of the world's motors over a decade old and a "if it isn't broken, don't fix it" mindset still common across industry, the cost of inaction is mounting.

[Play Episode](#) ▶



50 Years of Precision with Beamex

For five decades, Beamex has operated in a world where the smallest measurement error can ripple into serious consequences. From its beginnings as a small Finnish calibration company to a global leader trusted by more than 15,000 customers across 140 countries, Beamex's story is not just one of growth, but of discipline, judgement and earned trust.

[Play Episode](#) ▶



Measured Truth: Why Calibration Powers Industrial Innovation

Beamex is your trusted partner for calibration excellence, providing accurate measurements, reliable data, and traceability for a safer and less uncertain world.

[Play Episode](#) ▶