



Summer 2017

newsletter



NEW for Powtech 17 Stand 4A-233

Intelligent Manufacturing

With a unique ability to combine machine capability with software and controls expertise to deliver intelligent manufacturing, we will be showcasing how Hosokawa Gen4 blends data gathering and analytics, remote monitoring and intelligent plant control to drive performance improvement across manufacturing plants, large and small.

Utilising Industry 4.0 technologies, Hosokawa Gen4 can help companies achieve incremental and measurable production improvements such as increased plant and machinery availability, predictive maintenance, reduced defects to gain higher throughputs, greater flexibility and reduced operating costs.



Virtual Reality in Design

We will also demonstrate how the incorporation of Virtual Reality technology into our design process is enabling customers to benefit from its use in project planning, equipment prototyping, system building and project realisation.

Nano Society Launch **FNM** Invitation

'As joint sponsors of the launch and partners in the development of the Society, I invite you to attend this free of charge, inaugural event. Speakers will present their latest research in functional nanomaterials, current projects and opportunities in high value manufacturing,' says Iain Crosley, MD, Hosokawa Micron Ltd.

Open to all those interested in the field of nanoscience, the event features a morning of speakers, poster presentations and luncheon and networking opportunity. However ticket availability is limited (<https://www.eventbrite.co.uk/e/society-for-functional-nanomaterials-main-launch-event-tickets-36821321564>).

The Society of Functional Nanomaterials has been formed following the success of the 1st international symposium "Functional Nanomaterials in Industrial Applications: Academy-Industry Meet" at the University of Central Lancashire in March 2016. Academic and industrial organisations were involved in discussions about the challenges in commercialisation of functional nanomaterials and how academics can work with industry to propel real development in this field.

This launch event reflects this vision, with speakers and delegates from industry and academia. Full details: www.hosokawa.co.uk/events

M350 and M600 Mill Spares

Hosokawa Micron has recently acquired the Intellectual Property Rights of International Innovative Technologies Ltd. (IIT) allowing us the rights to provide maintenance services and spare parts for the m-series of mills (M350 and M600).

Owners of m-series equipment should contact either Dave Lyon dlyon@hmluk.hosokawa.com or Keith Sanderson ksanderson@hmluk.hosokawa.com at Hosokawa Micron Ltd to discuss options for continued equipment after care and spare parts support.



INSIDE THIS ISSUE

Model Glovebox to Stimulate Careers in Nuclear Industries 2
Safe Toll Processing for Food Allergens 2

Removing Residue From Bulk Mixers – Enhanced Cleaning 2
P-Mec, 24-26 October 2017, Frankfurt, Germany 3

Protecting Downflow Booth Performance for Safe Operation 3/4
Glove Integrity Tester 4

Model Glovebox to Stimulate Careers in Nuclear Industries

A demonstration/educational glovebox, commissioned by the National Nuclear Laboratory to enhance public understanding and recruitment and training of young people for emerging job vacancies in the nuclear industry, is proving a hit at science events and government departments in Whitehall.

'We were very pleased with both the excellent service we received from Hosokawa and with the glovebox itself. We have already used it at a number of events, including the "Amazed by Science" festival in Cheshire, a demonstration of NNL's work at the head offices of the Government's Business, Energy and Industrial Strategy Department in Whitehall, and our own annual Science and Technology Conference in Manchester. On each occasion it has proved an excellent way to discuss the work we do and to engage people of all ages in conversation and practical experiments,' says Adrian Bull, NNL's Director of External Relations



Adam Harper, Hosokawa Micron says, 'We hope people will 'have a go' at different interactive tests and challenges to share an insight into the practical processing tasks typically carried out within a protective, contamination controlled environment and will see their future in the diversity of engineering opportunities open to them.'

Safe Toll Processing for Food Allergens

When you don't have the capability or required accreditation for segregation and allergen management, Hosokawa can provide the solution.

Our toll processing service offers:

- Safe processing of a number of foods containing allergens
- Accredited facility, trained operatives, validated cleaning regimes
- Segregated processing suites with dedicated PPE/colour coded clothing
- 3rd party swab testing and validated cleaning regimes

Kathryn Hipkins, Technical Centre Manager; 'We always know what products are arriving at our site. The materials processed in our food processing suites are sourced from accredited sites that are free from or control allergens. We regularly retrieve information from our clients regarding allergen policies and assess the accreditation and grade of the raw material supplier.'

Successful milling of products containing allergens, specifically for use in food supplements containing allergens such as milk calcium, lactose and fish gelatin are testament to our fastidious procedures and cross contamination prevention.'



Removing Residue From Bulk Mixers – Enhanced Cleaning

When mixing bulk solids, residues can pose the threat of cross contamination or introducing product impurities. What are the options for mixer cleaning if these threats are to be avoided?

As rinsing mixer and screw with water and cleaning agents brings unwanted moisture into the system which can cause creation of lumps in the product, wet spots behind O-rings or gaskets and generate vast quantities of contaminated water or other cleaning fluids that have to be dealt with, we consider the best dry cleaning approaches to minimise the propagation of bacteria.

Read Our Enhanced Cleaning Resource Sheet <https://hml.to/x9cb6>

Protecting Downflow Booth Performance for Safe Operation

P-mec

24-26 October 2017
Frankfurt,
Germany

Stand No. 40K40

We invite you to visit our stand at P-MEC, one of the events co-located at CPhI Worldwide: The world's leading pharmaceutical platform.



Keeping workers safe from dusts and fumes that can damage their health is a legal requirement under Health and Safety at Work, COSHH regulations. Downflow booths are increasingly being used to protect workers when handling dusty materials or undertaking activities that generate airborne particles across pharma, chemical, food, healthcare and other industries.

Matt Wilby, Maintenance and Commissioning Engineer at Hosokawa Micron Ltd reminds, 'Popular for their high protection levels and the user

friendly working environment they offer, downflow booths can only fully protect those working in them if they are regularly monitored, inspected and maintained to preserve their installation performance levels and comply with safety regulations'.

Monitor

Routine monitoring demonstrates the unit is performing to established, safe, commissioned standards. It provides invaluable historical data and enables prompt remedial action if required and forms an inclusive part of a scheduled programme designed to spot and handle deviations that may place operators at risk.



Daily visual checks such as checking for panel damage and failed lighting can be done by the operator, who probably knows the unit better than anyone.

Further routine checks should be carried out by trained and competent technicians and include:

- **Checking manometer readings are in the correct range**
- **Static pressure readings**
- **Checking there is no visible leakage**
- **Filter system check**

Keeping records is crucial in demonstrating that the system performs as it was designed. Failures detected or deviations identified should be logged, reported and acted upon.

'We train customers' maintenance teams according to the performance levels, activities undertaken within the booth and to accommodate those specialist maintenance operations outside their in-house capability and scope'.

Inspection

'Run to fail' is not an option. Inspections or tests should be carried out by trained engineers at specified intervals, determined at commissioning stage, and detailed within your service manual for each unit. Matt explains, 'Qualified external engineers may be required to carry out these test, many of which require local isolation and specialist equipment including the wearing of PPE as Operator Exposure Levels may be compromised.'



At the exhibition we are showcasing our world leading high containment equipment including the latest developments in glovebox and downflow booth design, processing technology and integrated engineering capability. For customers seeking either an off the shelf or bespoke solution to a pharmaceutical processing problem our engineering experts will be on hand to discuss a practical response to your requirements.

To ensure you receive an invitation to P-MEC 2017, please send your details to info@hmluk.hosokawa.com marked P-MEC INVITATION.

- Smoke tests verify containment and that airflow in the booth is flowing in the right direction and is not compromised by the placement of equipment also that smoke remains within the safe work line and none flows into the outside area which would indicate a risk to those in adjacent work zones and potential product contamination.
- Where cleanroom or controlled area classification verification is required in accordance with BS EN ISO 14644-1:1999 airborne particle count testing is required.
- DOP testing of HEPA filters forms a part of the regulatory requirements and should be carried out by experts to ensure reliability. This test determines if your filters are performing to the standards acceptable for your operations and assurances for all parts of the filter including the seals and the housing. The statutory testing interval is 14 months with the test carried out in accordance with BS EN ISO 14644-3:2005 or PD 6609:2007 by test engineers capable of identifying and resolving leakage problems.

Service and Maintenance

A planned maintenance programme prevents equipment failure and production interruption whilst keeping your downflow booth safe to use. Scheduled visits will include a full range of checks and tests to industry standards as well as full IQ/OQ recertification of your system. Compliance documentation provision is also an advisable option.

Service intervals take into account HSE guidelines, how your downflow booth is used, how much product passes through it and help determine the framework for a preventative and predictive maintenance schedule to meet your H&S obligations. Any remedial work would be carried out at this point – including filter replacement.

Spares, Replacement Parts and Upgrades

'We can help you manage your stock of spare parts to ensure minimal downtime and optimum performance of your downflow booth. We also offer a range of upgrades to lighting, containment screens, cooling packages etc. that can extend the operational life of your booth as your requirements change.'

Matt concludes, 'Whist alarms and reports highlighting abnormal operations will be provided by your booth management system, the responsibility for compliance with regular Health and Safety audits remains with the company operating the booth. If something is not working as it should, do not wait for a scheduled service call or H&S audit. Contact your maintenance service provider immediately. Never let the problem escalate.'



Glove Integrity Tester

Damaged isolator gloves or gauntlets may put operators at risk when handling potentially harmful materials.

Check them simply and effectively using the Hosokawa Glove Tester

- Detects holes <100µm, not visible by the naked eye
- Clear and simple glove integrity verification
- Fully automated measurement
- Wireless, lightweight, hand held device
- Automated glove filling
- No additional air supply needed
- Complete with battery, battery charging stand and case

With preconfigured parameters tailored to your glove type and detection requirements the Hosokawa Micron Glove Tester is quick and simple to use either before each procedure or as part of scheduled integrity tests.

For further information on anything within this newsletter please visit
Email: info@hmluk.hosokawa.com or telephone +44 (0) 1928 755100



HOSOKAWA MICRON LTD

Rivington Road, Whitehouse Industrial Estate, Runcorn, Cheshire, England. WA7 3DS.

