



HOSOKAWA MICRON LTD.

LIFECYCLE SERVICES



*Maintenance Packages • Spare Parts • Training Packages • Containment Testing
Optimisation & Upgrades • Analytical Services • Contract Manufacturing & Support Services
Innovation Centre • Extended Warranties*

From pharmaceuticals to cosmetics and detergents; food to nuclear, aerospace and agrochemicals, Hosokawa Micron has more than 100 years of industry-leading knowledge and experience in powder and particle processing innovation, equipment design and manufacture. We are proud to say that our customer base is worldwide.

By using the latest production technologies we can ensure the highest level of performance and safety for every piece of containment equipment we produce, whether that's a downflow booth, glovebox, fume cupboard, isolator, mill, mixer, grinder, dryer or classifier.

However, we believe it is not just a case of installing the equipment and leaving our customers to it. As a responsible manufacturer, we have a duty of care to provide an excellent-quality service that will span the lifecycle of the equipment and beyond, helping to protect each investment and giving peace of mind that the equipment performs optimally, thus reducing production downtime.

Hosokawa Micron's customers enjoy the many advantages of immediate, real-time access to a global network of technical support, including engineering expertise, wherever in the world the equipment is located.

To complement our equipment services, we also offer a range of specialist services, from bespoke training packages and contract manufacturing, to research and development and laboratory analysis.

MAINTENANCE PACKAGES

Hosokawa Micron's Planned Maintenance packages ensure equipment performs optimally, thus preventing production downtime.

Plant shutdowns are ideal times for customers to maintain their equipment. Our dedicated team of highly experienced engineers will happily accommodate your company's production schedules, for the ultimate in convenience.

While at your facility, Hosokawa Micron engineers will ensure your plant and operators are protected in accordance with the latest industry standards, including HSG258 and ISO 14644. Afterwards, a comprehensive report will be issued, which will also contain information about technology updates that will enhance the performance of the equipment, thus optimising production processes to reduce energy bills, improve yield, ensure consistency and drive business growth to increase profitability.

Features and Benefits include:

- ✓ Dedicated **technical support** via e-mail and phone
- ✓ **Fast** on-site response times
- ✓ **Discounts** on our genuine spare parts
- ✓ **Filter Integrity Testing (FILT)**
- ✓ **Classification of air cleanliness** by particle concentration (ISO 14644)
- ✓ **Extended Warranties** available for equipment

Preventative and Predictive Maintenance ensures you are in control, but in the unlikely event you may need us for Corrective Maintenance of your equipment, we will be there to provide accurate fault-finding and fixing for a rapid return to maximum performance.



SPARE PARTS

Our Lifecycle Team will support you by fulfilling all of your spare parts requirements.

- We carry stock of the consumable spare parts used in our equipment to help minimise downtime
- Our Spare Parts packages are carefully tailor-made to best suit your needs
- For longevity and your peace of mind, we provide a full range of genuine, reliable spare parts for all of our Hosokawa-branded equipment
- Each part undergoes a Quality Assurance Inspection



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TRAINING PACKAGES

Developing the practical skills and knowledge of your in-house operator and maintenance teams is vital to ensure consistent performance of your plant and equipment, now and for the future.

Hosokawa Micron can provide tailor-made training at your manufacturing plant, built around your team's specific needs and your equipment. We can also offer refresher and update courses when required.

CONTAINMENT TESTING

Carried out on-site by Hosokawa Micron, in accordance with ISPE Guidelines, leak testing and Operator Exposure Level (OEL) testing enable you to benefit from our specialist containment expertise and an in-depth understanding of your containment requirements at all stages of construction.

Testing is initially carried out at Hosokawa Micron prior to equipment installation during Factory Acceptance Tests (FAT), while Site Acceptance Tests (SAT) are made in-situ following installation of your equipment.

Performed by our expert air monitoring-trained and IOSH-certified industrial chemists, OEL testing will ensure your containment equipment meets legal requirements for safe operation, not only before and after installation, but also whenever operational changes are made.

For additional reassurance, sample analysis is undertaken by an independent laboratory.



OPTIMISATION & UPGRADES

Eco-awareness and new technology are evolving the manufacturing industry. Forward-thinking manufacturers are modernising their plants and equipment to future-proof their businesses and remain competitive.

Hosokawa Micron can provide expert assistance by upgrading your equipment in order to lower plant running costs, improve performance and ensure your machinery is as eco-friendly as possible. Our upgrading products and services include:

- 5D flexible or rigid containment screens
- Energy/noise-reducing extractor fans
- Energy-efficient LED lighting
- Temperature control packages
- PIR sensors (standby mode)
- Glove integrity test kits
- Equipment relocation and revalidation

ANALYTICAL SERVICES

For companies without their own specialist equipment or facilities, Hosokawa Micron's convenient in-house laboratory allows customers to benefit from our wide-ranging analytics expertise, knowledge of particulate materials and best practice for optimum processing.

Our superbly equipped private laboratory provides a full range of analytical techniques for powder research, testing quality control and measuring data for research and development purposes. The suite of equipment we have developed is constantly being improved and upgraded and has become the worldwide industry standard for scientific and powder processing, delivering highly accurate, consistent results and offering peace of mind to laboratories worldwide.

In addition, our pilot plant equipment allows customers to experiment with their manufacturing processes on a small scale first, utilising simulation, scale-up studies and research.



CONTRACT MANUFACTURING & SUPPORT SERVICES

Hosokawa Micron offers a range of bespoke Contract Manufacturing options for processing powders and particles on behalf of our customers – whether the requirement is for a one-off project or as part of a regular contract – producing ultra-small batches to multi-tonne lots and everything in between.

Raw materials from a diverse range of manufacturing industries – including food, chemicals, minerals, plastics and metals – can be professionally processed in a contained environment at our dedicated production facility, which has 20+ individual processing suites.

Choose the service that is perfect for your requirements, whether that is size reduction; packing into FIBCs, sacks, drums or boxes; granulation; mixing; powder coating or agglomeration and compaction.

Advantages include:

- ✓ **No need to invest** in specialist equipment and storage facilities
- ✓ We can **process your materials** for R&D purposes
- ✓ **Economic fast-tracking** of niche products
- ✓ Comprehensive **in-house support** for analysis and testing
- ✓ **Seamless scale-up** to increase your production capacity
- ✓ Our set-up means **we can tailor solutions to your specific needs**
- ✓ Full **batch production documentation** and **validation certificates**
- ✓ **Product quality guarantees**
- ✓ **Secure packaging**
- ✓ **Warehouse storage** and **delivery** directly to you

In addition to our in-house Contract Manufacturing service, Hosokawa Micron can provide expert support from our team of process engineers, who can assist with developing and optimising your production processes on-site.

INNOVATION CENTRE

Our state-of-the-art Innovation Centre is in demand throughout the manufacturing sectors, offering unique opportunities to manufacturers who wish to test equipment, processes and process systems in a controlled environment.

Located at the heart of Hosokawa Micron's operation, our expert engineering team will work discreetly in partnership with your own team – from concept to feasibility studies and trials – to achieve excellent results in capacities including sieving, mixing, size reduction and air classification.

- Flexible facility to suit your research and development requirements
- Utilise 40+ Hosokawa Micron systems and powder processing machines
- Create the optimum system design in collaboration with our experts
- Determine your equipment specifications for pilot or full-scale plant
- OEM instrumentation allows for analysis of powder behaviour, size distribution and characteristics
- Bring your end product to market quicker and more economically

For further information about our lifecycle services, to arrange a maintenance visit or training and to order spare parts, please contact our friendly Lifecycle Team

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At the Forefront of Powder Processing Technologies

- Agglomeration & Compaction
 - Air Classification
 - Analytics
 - Containment
 - Contract Manufacturing
 - Drying
 - Filling & Weighing
 - Laboratory & Pilot Plant
 - Metals
 - Mixing & Blending
 - Nanotechnology
 - Research & Development
 - Size Reduction

Industries we support include:

Pharmaceuticals | Food | Chemicals | Nuclear | Minerals | Aerospace | Defence | Space
Battery Materials | Plastics & Recycling | Additive Manufacturing | Ceramics | Soaps & Detergents
Agrochemicals | Powder Coatings | Toner Engineering | Rubber | Cosmetics



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