



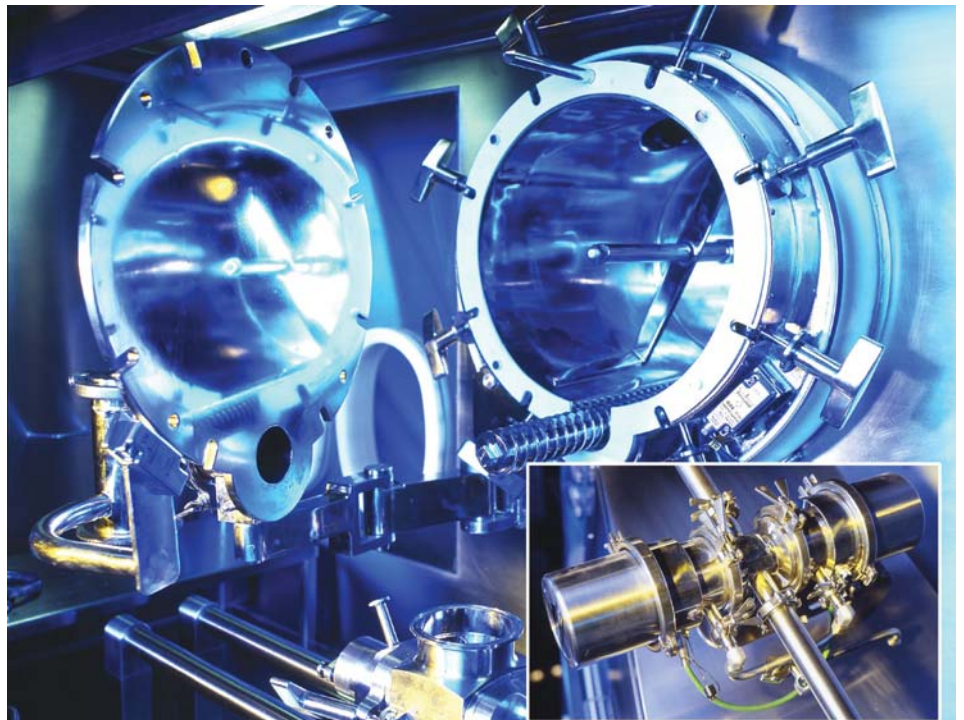
# Modular Design of Hosokawa Microns Intellimill Improves Flexibility

Leaders in powder and particle technology, Hosokawa Micron Ltd, can now offer a uniquely flexible approach to size reduction with their INTELLIMILL, Intelligent Milling System. IntelliMill is now modular and each or all of the several modules can be selected according to a users process and budget.

The IntelliMill is an intelligent milling system that measures particle size distribution and automatically adjusts its milling parameters to improve batch consistency and batch comparability along with optimum mill performance. Savings on energy costs, waste minimisation and maximising throughputs translate directly into improved product quality and increased profit levels.

The integrated system uses the Insitec dry powder on-line particle size analysis technology from Malvern Process Systems, a division of Malvern Instruments, coupled with Hosokawa Microns classifier and air jet mill mills with advanced process control.

System flexibility through a range of mill and Insitec variations makes the IntelliMill suitable for both bulk and multi product batch operations on dry powders.



Production Managers responsible for a multi product milling operation will find the IntelliMill offers accurate recipe control, batch consistency/comparability and smooth batch to batch transition with minimum operator intervention. Out of specification product is minimised and this reduces overall costs.

**The main modules are as follows;**

**INSITEC** - Continuous particle size measurement.

**OPTIMISATION PACKAGE** - Fault diagnosis and preventative plant maintenance scheduling is part of the optimisation process and can be linked to the learning capability of the IntelliMill system.

**ADVISOR** - Where real time advice on optimised operating parameters can be supplied directly to the operator for him to action.

**PREDICTOR** - Provides real time advice on running previously run materials to new particle size specifications and then optimises performance.

**CRUISE CONTROL** - Multi input - multi output controller enables automatic control and operation of the milling system. A dial in product specification facility means that the mill will automatically change set points to achieve product specification and process optimisation without manual intervention.

The IntelliMill system is designed for stand alone operation or with a wide range of PLC comms options available for integration with company ERP systems. CIP/SIP and intrinsically safe variants are available to suit individual customer requirements. Secure access to the system is available at many different authority levels for both information retrieval and plant operation with a full historical recording.

Hosokawa Micron Ltd offer IntelliMill systems with full specification, design, training and maintenance packages to ensure complete customer satisfaction and is backed by the world-wide resources of the Hosokawa Micron Group.