

IN-HOUSE TEST CENTRES FOR PRECISION BULK HANDLING, PROCESSING & PLANT SAFETY

This 2018 EuroBulkSystems Test Plant Supplement is the ninth in the popular annual series. It provides useful data, not available elsewhere from a single source, on testing facilities and specialist laboratories serving various areas of technology for handling, processing and measuring bulk powders and granulates. During the next 12 months it can be accessed online at eurobulksystems.com. Readers of AsiaBulkSystems, the new sister publication to EuroBulkSystems' which will be launched in early April 2018, will also be able to consult this latest Test Plant Supplement at asiabulksystems.com from early spring through to December 2018.

Apart from providing invaluable research & development facilities for plant and equipment manufacturers developing new prototype machines, in-house test centres are nowadays regarded as an important marketing tool. Initially they help to kindle a working relationship with a potential new customer and at a later stage can be instrumental in determining whether a new contract, for just one piece of equipment or for an entire integrated materials handling system, is won or lost.



been carefully planned so as to be capable of handling a wide range of dry bulk materials and to utilise the services of more than 300 equipment configurations to provide every opportunity to maximise process capacity and optimise throughput and productivity.

The powder test centre is a 2,400 sq. feet facility dedicated to test dry bulk materials processing systems. Using customer-supplied bulk materials, R&D engineers select two or three equipment configurations, depending on the results expected by the customer, and analyse the characterisation of powders after the trials for optimising the system.

The entire PALAMATIC PROCESS solutions are available for testing and can be configured to provide a custom-engineered industrial process fitting the customers' industrial constraints. With 300 configurations (compliant with ATEX regulations), the company is able to handle powders commonly used by food and feed, chemical, pharmaceutical, nuclear and building industries.

The PALAMATIC PROCESS in-house laboratory contains:

- Pneumatic conveying systems such as dense phase vacuum and pressure dilute conveying technologies
- Tubular conveyors to gently move delicate materials
- Dust-free bulk bag dischargers and loaders fitted with bag weighing systems, densification tables, adjustable framework to fit all sizes of bags
- Volumetric or weight feeding to perform with different powder
- Manual or automatic bag dump station with dust collection system, bag compactor and vacuum bag lifter
- Size reduction and sifting to handle non-flowing materials
- Batch mixing trials
- Accessories for bulk solids flow such as vibrating bin aerators, air cannons and electric vibrators
- Supervision and automation to control automatically weigh batching systems.

The laboratory facility measures the particle size, density, angle of repose or flow angle of the bulk materials. At the end of the test, a detailed report is given to the customer outlining testing settings, protocol and results.

Terms of use: The test plant is available to existing customers and potential new customers in all areas of the bulk solids industry. A fee is charged to perform the tests and can vary according to the required

process and is partly refundable if the test leads to a machine sale. The test results are strictly confidential. The facilities are available to companies throughout the world. The powder test centre is the only one within the FIDEIP Group.

Location: Brécé, Brittany, France.

Contact: Jean-Luc Louis
(jean-luc.louis@palamatic.fr; tel: +(33) 2 99 86 06 22)

www.palamaticprocess.com