



SEPARATION

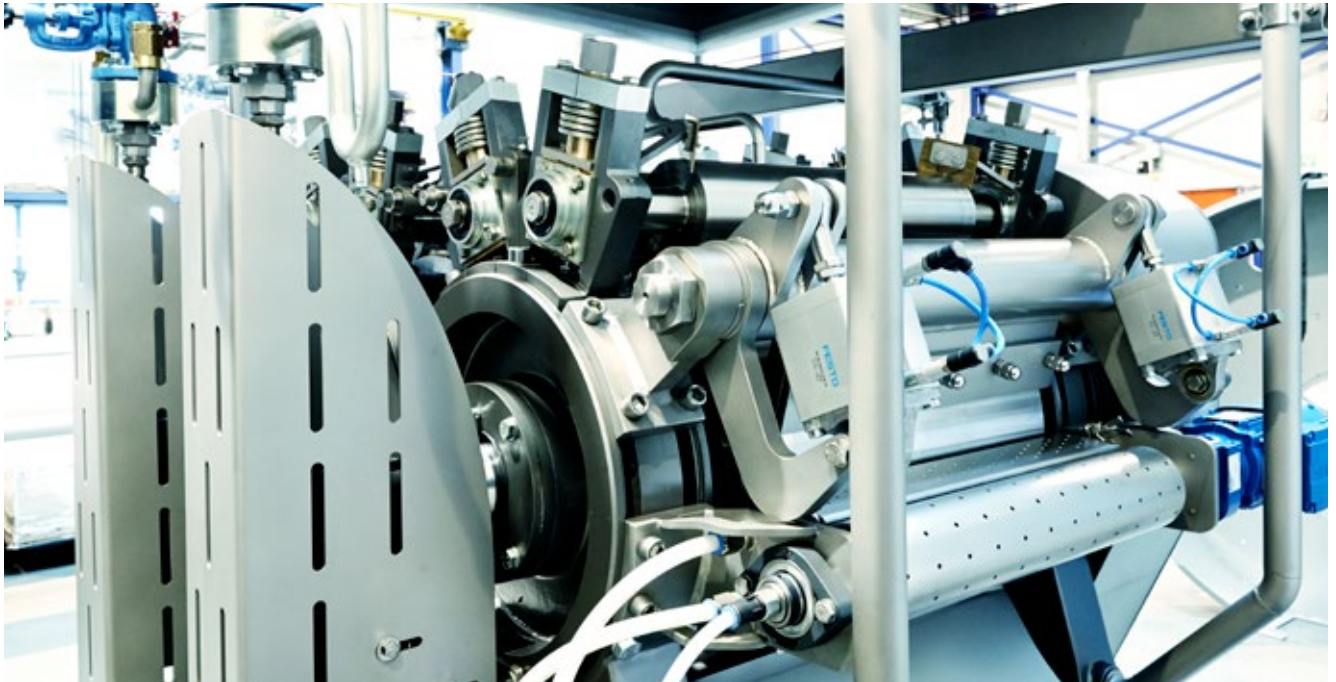
ENSURING THE MOST APPROPRIATE TECHNOLOGY

PILOT PLANT AND LABORATORY TESTS

ANDRITZ

ENGINEERED SUCCESS

Defining the optimum process design



ANDRITZ Gouda pilot drum dryer

When you are looking for a reliable solution to ensure successful implementation of your industrial process, ANDRITZ strongly suggests you do not make a hasty decision. Since the processing characteristics of most products are not entirely predictable, we advise pilot plant testing to define the optimum process design before selecting the most efficient machine model and size for your application. For more than 100 years of continuous operation, ANDRITZ has tested and developed solutions for a huge variety of applications and requirements. The results and experience gathered are put to work to meet your specific needs.

MANY REASONS FOR TESTING

ANDRITZ has several pilot plant units to test new materials, generate process data, select design options, and provide representative product samples. The pilot plant units are also used to investigate the feasibility of a desired process or to elaborate and optimize an innovative solution or new developments before implementation. This service is an important part of ANDRITZ' R&D program. We offer pilot testing to supply our customers with the most suitable and cost-effective solution to their problem, as such contributing to significant cost savings in the future production process. Our unique calculation model for scaling up to industrial size ensures successful production in full-size processing.



Pilot plant process area

Multiple testing opportunities

The pilot plant is a test center for simulating production processes with a view to testing or optimization of a process before implementation. Pilot testing is a small or medium-scale trial, verifying the feasibility of a process or desired system under real-time operating conditions. It verifies the major functionality of the process before scale-up to industrial size production.

ANDRITZ FACILITIES OR ON-SITE TEST WORK

ANDRITZ has two fully equipped test facilities for drum dryers, one in Florence, KY, USA and one in Waddinxveen, Netherlands. In addition, other labs are available as well within ANDRITZ so we can be even more flexible in test operations. The labs receive test samples of the customers' products and analyze them to determine residual moisture, purity, bulk density, pH, viscosity, particle size distribution, and so on. Tests at our premises usually take a couple of days. If you think you need more time to arrive at valuable test results, or if you would prefer to run pilot tests on site, rental equipment might be what you are looking for. That is why we also offer rental pilot units for testing at your own location, with an ANDRITZ technician to install the test unit and assist during start-up. For sludge drying tests, we even have a fully equipped, mobile containerized sludge drying system available.

TESTING TAILORED TO YOUR NEEDS

We understand that not every project requires the same level of pilot testing. A feasibility test is performed to quickly confirm the feasibility of a process with ANDRITZ technology. A very small amount of product (1 kg) is enough to determine the drying or cooling behavior of the product and to produce a first small sample. The next step is full-scale pilot plant tests, which require at least 100 kg of product to determine a guaranteed capacity and detailed process parameters. Whatever option you choose, our added value is our expertise and in-depth knowledge to guide you towards a well-founded decision and the most appropriate choice of technology for your specific business requirement. We would be happy to discuss the benefits and possibilities with you.



The pilot plant in operation



Product film thickness measurement

TESTING IN A FOOD-GRADE ENVIRONMENT

At Bodec in Helmond (Netherlands), a fully equipped vacuum drum dryer is available for testing heat-sensitive food products. If you are also interested in small-scale production runs to produce several tens or hundreds of kilos and cannot do so in your own facilities, Bodec is the place to go. ANDRITZ rental machines can easily be installed to meet the specific needs of your product. The Bodec food-grade pilot plant features several other drying technologies as well. The local operators are trained to handle a multitude of products and machines, making it that much easier for you to obtain the results you need.



WHAT'S YOUR SEPARATION CHALLENGE?

ANDRITZ Separation is the world's leading separation specialist with the broadest technology portfolio and more than 2,000 specialists in 40 countries. For more than 150 years, we have been a driving force in the evolution of separation solutions and services for industries ranging from environment to food, chemicals, and mining & minerals. As the OEM for many of the world's leading brands, we have the solutions and services to transform your business to meet tomorrow's changing demands – wherever you are and whatever your separation challenge. **Ask your separation specialist!**

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