Neuhaus Neotec has developed a new coffee grinder for medium to high grinding capacities, which premiered on the host in October. NEOGRIND is a fully enclosed roller mill, which can be used for the entire range of coffee grinding.

With the established WMS roll grinders, Neuhaus Neotec is already very successful in the field of coffee grinding. The NEOGRIND is now presented as a further and new development. Its modular design for 2 or 3 grinds allows grinding capacities of up to 2,500 kg per hour. Thanks to its reproducible, specific particle size distribution, the grinder can be used flexibly - from filter coffee to capsule.

The NEOGRIND scores not only with performance, but also with tangible design advantages. It offers a completely accessible grinding chamber with an internal continuous smooth surface made of stainless steel. Besides, there are no losable parts in the interior. A new guide plate technology and a technically gas-tight grinding chamber minimise potential coffee adhesions and thus quality variations.

The setting precision for the servo-controlled grinding gap adjustment is a few thousandths of a millimetre; and the grinding gap is automatically corrected. The grinding gap and the roller speed are continuously adjustable and thus allow the large grinding spectrum.

The motors of the individually driven rollers are all self-ventilated. The IE-3 motors used for this purpose have a very high energy efficiency. Thanks to the modular design, the rollers can be changed very quickly. The servo-driving quick-acting disengagement of the rollers at the start as well as the standard preparation for roller tempering are further technical features.

The NEOGRIND is controlled via an intuitive touch screen and can be integrated into any control system. In the production, the NEOGRIND can be used extremely flexible due to the recipe-based grinding degree variation. The control via individual recipes allows a quick change of the grinding degree per batch. Thanks to the newly developed lining and the lightweight, dimensionally accurate frame construction made of aluminium, the grinder produces little noise or vibrations during operation. Door monitoring and overrun protection make the operation of the NEOGRIND particularly safe.
The new grinder NEOGRIND, which was presented at the Host in Milan, caught the eye of the roasters. To top off the very informative day seminar, the participants visited a medium-sized roasting plant to see the practical implementation of the Neuhaus Neotec roasting technology. It was particularly important to the experts of Neuhaus Neotec to answer individual questions of the guests, e.g. for optimal roasting parameters for certain specialty coffees, or to discuss grinder settings.

Fully booked roasting seminar

Coffee roasters from seven countries took advantage of the RG roasting seminar to learn about the benefits and opportunities of hot-air roasting for specialty coffees.

What do the possibilities of industry 4.0 mean for the future of coffee roasting? This is the question Gregor Kleefeldt, Sales Manager of Neuhaus Neotec, dealt with in the lecture he held on the occasion of the Coffee Congress 2016 of the German Coffee Association.

The coffee production plants of the future will be fully networked according to the experts. Using the example of a fictitious “Smart Coffee Factory”, Gregor Kleefeldt demonstrated the networked and digitized world of coffee from the plantation to the consumer. Learning, intelligent systems will help to produce in a more efficient, energy-friendly and flexible way at ever greater quality consistency. In order to implement the industry 4.0 philosophy in the roasting plant, first isolated solutions will grow together in production. According to Kleefeldt, for roasters the way to industry 4.0 will be via migration in small steps.

You will find more about Industry 4.0 in the coffee industry in the next edition of TechTalk...
The Gimoka Group is one of the major coffee producers in Italy. Apart from espresso, the range also includes pods and capsules. Company president Ivan Padelli explains in an interview the need for a roasting plant for the current expansion.

"Gruppo Gimoka needed a particularly high performance – 5,000 kilograms of roasted coffee per hour – with a roasting process that permits the quality to be constant," says Gimoka’s President, Ivan Padelli.

"Likewise, for me, and for the Group, it was important to make sure another thing: the roasting plant was to be environmentally friendly," Padelli adds. With this in mind, Padelli reached out to a company he had used many times in the past for similar projects – German plant machinery manufacturer Neuhaus Neotec.

"Previous to the plant buying, Gruppo Gimoka had set up different Neuhaus degassing silos and a plant for the transportation of the green coffee and the relevant cleaning," he says. "For many years I have had the luck to nurture good relationships with other roasting companies on the international set, roasting companies who let me know about Neuhaus before Gruppo Gimoka had to value a plant choice of this type." With environmental responsibility such a key consideration in the design brief, Padelli says that Neuhaus Neotec stood out from the alternatives. "This awareness and circumstances could not be within the design specifications. The choice fell on the system because Neuhaus Neotec guarantees air emissions below the benchmarks required by the most strict national regulations, such as in the US and Japan."


Current technology

Batch roaster RFB-S particularly flexible thanks to profile roasting

The RFB-S roaster which excels in great flexibility with regard to the choice of roasting parameters has originally been designed for the quality control. Its separate roasting and cooling part, adjustable air quantity and control via profile and copy roasting make the laboratory and research roaster a unique roasting tool for smaller and larger samples.

The control via user-defined recipes and profiles as well as the high reproducibility guarantee accurate results, which are only possible with hot-air roasting. The use of a frequency converter allows longer roasting times for small coffee batch sizes between 200 and 500 g, such as samples.

Karam Foods, Dubai UAE

The coffe roasting plant of the Arabian food company Karam Foods LLC based in Dubai was founded in 2013. In addition to an RG 100 roasting plant, a grinder, conveying systems and degassing silos of Neuhaus Neotec, the company, which is part of the Al-Ghurair Group, has a warehouse of 200 tons of coffee. Up to 16 tons of roasted coffee per day can be produced in the modern roasting plant. A major focus is the production of single portion products.

The coffees are sold as roasted ground coffee, Turkish coffee, whole bean, espresso and especially as coffee pods. In addition to its own brand "Karam", the roaster in Dubai also produces private label coffees for different customers. The Karam coffees are available in the countries of the Middle East, Africa and Asia. www.karamfoods.ae
For 40 years in the service of innovative technology

On November 17, 2015 Gustav Lührs was honoured at an internal company party at Neuhaus Neotec in Ganderkesee for his 40-year career at the company.

Since 1985, Gustav Lührs has kept the company on course as Managing Director of Neuhaus Neotec in Ganderkesee and Reinbek. Since the merger of the companies, he has made Neuhaus Neotec a nationally and internationally leading manufacturer of coffee roasting plants and complete processing lines. With an export ratio of 80% Neuhaus Neotec supplies many of the largest coffee companies worldwide.

After the takeover by the Kahl Group in 1990, Gustav Lührs remained at the top of the machine and plant construction company. By the integration of Heinen Drying in 2010, Neuhaus Neotec laid the foundation for a second foothold, the “Particle Technology”. In February 2011, Gustav Lührs could celebrate the last expansion of the site with the opening of the new pilot plant in Ganderkesee.

His proximity to the customers of the coffee industry worldwide and the rapid implementation of projects have accompanied his success at the head of Neuhaus Neotec. The customers appreciate the trusting cooperation with him and rely on his excellent knowledge of the coffee roasting process. As a little thank-you present, he received from his employees a share in a coffee plantation in Kenya.

Trade fair pre- and review

Trade fair in the USA

The next SCAA Expo will be held in Atlanta in April 2016. Neuhaus Neotec virtually “play at home”, because our branch USA is located there. At the booth, you will find the experts of Neuhaus Neotec for consultation and dialogue. In addition to small roasters, the roll grinder WMS 43-E will probably attract the attention of the visitors, as it is presented for the first time in the US. The compact and robust construction and easy maintenance make the WMS coffee grinder particularly attractive for medium-sized roasters. The WMS 43-E is particularly appropriate for grinding of coffee for pods and capsules.

Visit Neuhaus Neotec on the SCAA Expo at our booth P06!