

# Press Release

Karlsruhe/Germany, 28.09.2015

## Romaco at CIPM 2015 in Wuhan, China Combined laboratory expertise

At the upcoming CIPM in Wuhan/China, Romaco will demonstrate its extensive expertise in research and development with laboratory solutions from Innojet and Kilian. The Romaco Innojet technologies are optimised for linear scale-up of all process parameters. Romaco Kilian will show an innovative tableting robot with integrated PAT software.

### Romaco Innojet VENTILUS® V 2.5: The lab-scale all-rounder

The VENTILUS® V 2.5 processes particles from 10 µm to 30 mm in diameter, such as powders, granulates, pellets, tablets or capsules, in laboratory applications. It is suited as a granulation and coating system for products for the pharmaceutical, chemical and food industries. The machine is based on the air flow bed technology originally developed and internationally patented by Dr. h.c. Herbert Hüttlin. The enhanced processing efficiency results in batch times which are up to 25% shorter. The uniform flow conditions inside the cylindrical product container enable extremely gentle intermixing of the batch. The process air is controlled by the booster ORBITER, an ingenious container bottom consisting of overlapping circular plates. Together with the ROTOJET, the central bottom spray nozzle, the ORBITER booster forms an innovative functional unit that meets all the requirements for linear scale-ups. The air flow bed technology ensures accurate control of the product movement and equally precise application of the spray liquids. The formulations which are realised in this way achieve the required release profile with between 10 and 15% less coating material.

The Romaco Innojet VENTILUS® V 2.5 on show at CIPM 2015 will be attached to a hot melt device. A special spray nozzle designed for organic wax or hard fat coatings with a melting point up to 90°C is used for hot melt applications. All hot melt coatings speed up the process because there is no evaporation – and since

there is no need to heat the process air, energy efficiency is likewise improved. Hot melt coatings are particularly in demand for taste masks and moisture barriers.

### **Romaco Innojet AIRCOATER® A 15: Reproducible product quality**

The AIRCOATER® technology was specially developed by Romaco Innojet for coating big particles. Batch sizes from 10 to 15 kg are processed on these pilot scale systems. Thanks to the air flow bed technology, mechanical loads on the product are reduced to a minimum and the particles are thoroughly dried by the process air. This allows gentle processing, especially of sensitive, fragile and highly friable products, with up to 75% shorter processing times compared to conventional drum coating techniques. Reproducible processes and simple scale-up are the hallmarks of the AIRCOATER® A 15 technology. The almost linear scalability is attributable to the air flow bed principle, where the product hovers in the process air and is circulated in the product container at a constant speed. Processes can thus be scaled up quickly and easily from pilot system to production plant.

### **Romaco Kilian STYL'ONE Evolution: Detailed PAT with ANALIS software**

The Romaco Kilian STYL'ONE Evolution is a highly versatile, single-stroke tablet press which will be another highlight of this year's exhibit. It is predestined for formulating mono-layer, multilayer or core tablets (tab in tab) in a broad array of R&D applications as well as for producing clinical batches and very small batch sizes. The STYL'ONE is equipped with gravity or paddle force fill shoes and is capable of compressing up to five layers with three different components. The production process on any standard rotary press can be simulated precisely using the intelligent ANALIS software. The user selects the desired machine model for this purpose and defines the tablet thickness and compression force. ANALIS then automatically determines the optimal product compression parameters. Due to the special design, only a tiny quantity of powder is needed for ultra-precise test batches with up to 1200 tablets per hour. Apart from developing new formulations, the tableting robot can also be utilised in a targeted way to make manufacturing processes more efficient or troubleshoot errors. ANALIS is a PAT system integrating highly efficient process analytical technology which facilitates a continuous improvement in product quality. The time and expense which are normally unavoidable for development activities or to optimise

products and processes are restricted to a minimum – a great advantage for users.

**On show at CIPM – China International Pharmaceutical Machinery Exposition – in Wuhan (China) from October 28 to 31, 2015 (Hall A1, Stand A1-05).**

### **The Romaco Group**

Romaco is a leading global supplier of Processing and Packaging equipment, predominantly for the pharmaceutical industry. Divided into three business areas, Processing, Tableting and Packaging, the company develops engineered system solutions for the pharmaceutical market, but also supplies the cosmetics, food and chemical markets. Romaco operates from four European locations with the headquarters in Karlsruhe, Germany. The company serves the multiple industries through a total of eight brands: The packaging product lines Noack, Siebler, Bosspak, Macofar, Promatic and Unipac are manufactured in Karlsruhe, Germany and in Bologna, Italy. The tableting product line Kilian is produced in German Cologne while the Innojet product line in German Steinen is responsible for granulation and coating. Romaco's product portfolio includes primary, secondary and final packaging, aseptic and non-aseptic liquid and powder filling, tablet press technologies, granulation and coating. Over 12,000 Romaco installations are currently in operation in more than 180 countries. The company's worldwide customer base is supplied and supported by over 500 highly skilled and committed employees.

In 2014 the Romaco Group was voted by "Wirtschaftswoche", the prestigious German business weekly as one of Germany's best 50 innovators among small and medium-sized enterprises. In this corporate benchmarking contest, Romaco was named runner-up in the "Process and Packaging Machinery" category. In the "Pharmaceutical Machinery" segment, the Group was awarded first prize.

For more information about the Romaco Group, visit [www.romaco.com](http://www.romaco.com)

**The following pictures are enclosed with the press release:**

1. Romaco Innojet VENTILUS® V 2.5  
Romaco\_Innojet\_Ventilus\_lab.jpg



2. Romaco Innojet AIRCOATER® A 15  
Romaco\_Innojet\_Aircoater\_A-15.jpg



3. Romaco Kilian STYL'ONE Evolution  
Romaco\_Kilian\_STYLONE\_Evolution.jpg



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