

Press Release

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Romaco at CPHI & PMEC India 2024 Processing and more

Romaco will be taking advantage of this year's CPHI & PMEC India to show its complete processing portfolio for granulating, tableting and coating pharmaceutical solids. The pharmaceutical machinery manufacturer also provides numerous primary, secondary and final packaging solutions for a wide variety of products.

Romaco's processing technologies will be at the center of the one stop solutions supplier's exhibit at this year's CPHI & PMEC India. Fluid bed processors from Romaco Innojet, tablet presses from Romaco Kilian and drum coaters from Romaco Tecpharm are suited for a very broad range of products and impress with the highest levels of quality, efficiency and sustainability. Targeted measures to save energy and raw materials shorten processing times, cut the costs for manufacturing and improve the machines' carbon footprint. Also, temperature-sensitive products, which are typically high-volume, can be processed and compressed absolutely safely thanks to special technological features.

Users and prospects also have a chance to develop and test their products on Romaco's laboratory equipment at Romaco India's new Customer Experience Centre in Hyderabad. Here, they can benefit from expert advice and support for scale-up trials, process optimization and competent troubleshooting. The Romaco India Sales & Service Centre additionally offers a comprehensive range of machine training options covering processing and packaging for local manufacturers of pharmaceuticals and nutraceuticals.

CPHI & PMEC India is an ideal platform to share experiences with industry insiders and demonstrate selected technologies along the pharmaceutical process chain.

KTP 720X double-sided rotary press from Romaco Kilian

Romaco Kilian's KTP 720X double-sided rotary press is now also available with a segment turret for up to 30% more performance. The configuration with five segments and up to 115 punch stations enables a maximum output of up to 1,380,000 tablets per hour. What's more, the segment turret also significantly reduces retooling and cleaning times. The individual segments have product-specific punch holes and are easy to remove for cleaning; the time-consuming removal of the dies is no longer necessary. Thanks to the hermetic separation between the compaction and service areas, no tablet dust gets into the machine area during production, so that far less effort is required for cleaning. The number of product-contacted parts has been systematically reduced at the same time. Patented punch bellows protect the tablets reliably from contamination with lubricants. The high-speed press can be used to manufacture both mono-layer and bi-layer tablets, whereby the temperature in the compaction area is kept at a constant level below 30°C. This is achieved, for example, through low-friction pressure rollers, pins and bearings as well as efficient cooling of the V-ring seals and drives. The technology is consequently ideal for processing temperature sensitive medications such as Metformin or Ibuprofen. All in all, the double-sided rotary press convinces with its excellent TCO (total cost of ownership) and OEE (overall equipment effectiveness).

TPR 25 Pilot mobile tablet coater from Romaco Tecpharm

The TPR 25 Pilot mobile tablet coater is an extremely compact pilot-scale unit for simple plug & play commissioning. For this purpose, all inlet and exhaust airflow systems required for the coating process have been integrated into the machine. As a modern all-in-one solution, its applications cover everything from development activities and scale-ups to the production of very small batches. The pilot coater is designed for batches weighing between 1 and 25 kg, making it suitable for an extremely wide batch size range from 5 to 100 percent. The coating pan's enormous flexibility is made possible by fully automated processes requiring no manual adjustments. The TPR 25 Pilot is equipped with a patented spray arm, which is controlled by a sonar system that automatically adjusts the distance between the spray gun and the tablet bed. Thanks to the spray arm's intelligence, the coater does not have to be stopped and opened to correct the spray distance while the process is running. In addition to this, the extendable spray arm has movable nozzles to ensure the ideal spray angle in any situation. The process air

flowing through the tablet bed follows a precisely controlled path, which can be automatically adapted to the filling level in the drum with the aid of an exhaust flap that opens steplessly. This results in remarkably accurate application of the coating suspension and ultra-efficient drying of the tablet bed. From a sustainability viewpoint, Romaco Tecpharm's TPR 25 Pilot consequently impresses with significantly shorter processing times coupled with lower energy and spray liquid consumption.

VENTILUS® Lab fluid bed processor from Romaco Innojet

Designed for laboratory-scale applications, the VENTILUS® Lab fluid bed processor from Romaco Innojet is used for granulating, drying and coating particles of any size from 10 µm to 2 mm. This multipurpose lab unit is intended for batch sizes from 0.7 to 7.0 liters. With its innovative process air distribution system inside the cylindrical product container, the VENTILUS® Lab shortens batch processing times by up to 25 percent, as the required power can be used far more efficiently. The process air is introduced through the circular ORBITER® booster, ensuring homogeneous flow conditions and extremely gentle intermixing of the batch. In combination with a central bottom spray nozzle, the ORBITER® booster plate forms a unique functional unit enabling much simpler scale-up processes. When it comes to nozzle technology, users can choose between the tried-and-tested ROTOJET® spray nozzle and the new FLEXIJET®, which was specifically developed for granulation processes and is not only very easy to handle but also quick to clean. The patented fluid bed components invented by Dr. h. c. Herbert Hüttlin lie behind the remarkably accurate application of the spray liquid with a precisely defined droplet size. With controlled release formulations, for instance, the modified release profiles are achieved using 10 to 15 percent less material. This targeted reduction in spray liquid usage also means less power consumption, so that the VENTILUS® Lab results in substantially fewer carbon dioxide emissions from fluid bed processes. Furthermore, the rotating SEPAJET® filter system minimizes general product loss by returning particles retained by the filter to the process rather than discharging them.

On show from November 26 to 28, 2024 at CPHI & PMEC India (Delhi NCR, Greater Noida, India Expo Centre, Hall 10, Stand C03).

For more information on Romaco, visit our website and social media channels: www.romaco.com – [Showroom](#) – [LinkedIn](#) – [YouTube](#)

Romaco Group

Romaco is a leading international supplier of processing and packaging equipment specializing in engineering technologies for pharmaceutical products. The Group provides individual machines, lines and turnkey solutions for manufacturing, filling and packing powders, granulates, pellets, tablets, capsules, syringes, liquids and medical devices. The company also serves the food and chemical industries. Through its various technologies, Romaco is committed to sustainable production and to systematically reducing CO₂ emissions.

The Romaco Group has its headquarters in Karlsruhe (Germany) and is part of Truking Technology, a globally operating high-tech enterprise based in Changsha (China). Truking's core competency is handling and filling pharmaceutical liquids.

Romaco operates from six production sites worldwide, with a broad portfolio comprised of seven established product brands. Noack and Siebler (Karlsruhe, Germany) supply blister, heat-sealing and rigid tube filling machines. Macofar (Bologna, Italy) markets technologies for filling sterile and non-sterile powders and liquids. Promatic (also Bologna, Italy) specializes in cartoners, track & trace systems and case packers. Kilian (Cologne, Germany) is a leading manufacturer of tablet presses. Innojet (Steinen, Germany) is in the business of granulating and coating fine solid particles. Tecpharm (Barcelona, Spain) offers tablet coating technologies.

More than 930 highly skilled and committed Romaco employees are dedicated to the development of future product technologies and to the continuous implementation of internal improvement processes. The Romaco Group's multi-brand system solutions are sold worldwide through nine Sales & Service Centres and a dense network of local agent organizations. Over 12,000 installations delivered by Romaco are currently in use in more than 180 different countries.

The following pictures are enclosed with the press release:

1. KTP 720X double-sided rotary press from Romaco Kilian
KTP-720X_Kilian_Romaco.jpg



2. TPR 25 Pilot tablet coater from Romaco Tecpharm
TPR-25-Pilot_Tecpharm_Romaco.jpg



3. VENTILUS® Lab fluid bed processor from Romaco Innojet
VENTILUS-Lab_Innojet_Romaco.jpg



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