

Press Release

Karlsruhe/Germany, 2023-10-31

Romaco at CPHI & PMEC India

New E 710 Smart double-sided rotary press from Romaco Kilian

Romaco's latest tablet press for the high speed sector will be on show at CPHI & PMEC India – the Kilian E 710 Smart double-sided rotary press for high volume production is specifically tailored to the requirements of the Asian markets. The VENTILUS® Lab fluid bed processor from Romaco Innojet attached to an Innojet IHD 5 hot melt device will be a further highlight at the upcoming exhibition.

From powder to finished pallet, Romaco covers the entire process chain for manufacturing and packaging pharmaceutical products. The one stop solutions supplier specializes in sustainable machines and equipment aimed at reducing both carbon dioxide emissions and manufacturing costs in the pharmaceutical industry.

Romaco will take advantage of this year's CPHI & PMEC India to show its latest development in the high-productivity tableting sector and demonstrate the enormous energy saving potential of its innovative fluid bed technology.

E 710 Smart double-sided rotary press from Romaco Kilian

The E 710 Smart expands Romaco Kilian's product portfolio with a new double-sided rotary press that was particularly developed for high production volumes with low margins. This economical tablet press for mono- and bi-layer production is based on Kilian's proven four-column design. The single-piece, deep-drawn process area ensures hermetical separation between the compaction and technical areas. A closed V-ring seal underneath the die table additionally prevents tablet dust from entering the "grey" area. With between 51 and 85 press stations and a pitch circle diameter of 712 mm, the Kilian E 710 Smart achieves a maximum output of up to 1,020,000 tablets per hour. Brake magnets permit absolutely homogeneous filling of the dies without any wear on the punch shafts. Moreover,

special Kilian bellows protect the tablets from contamination in the form of black spots. The fill shoe is quick and simple to clean because the gear is external. Owing to the small number of interchangeable parts and the good accessibility to individual components, retooling and cleaning times are significantly reduced. The tablet scraper and chute are mounted together on a swivel arm for easy removal. Product loss is minimized thanks to the floating product scraper with magnets. The sparing use of natural resources is totally consistent with Romaco Kilian's sustainability strategy.

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 because 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 the ROTOJET®, the central bottom spray nozzle, the ORBITER® booster plate forms a unique functional unit enabling much simpler scale-up processes. 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.

IHD 5 hot melt device from Romaco Innojet

The innovative IHD 5 hot melt device from Romaco Innojet was developed for coating and granulating fine solid particles with organic fats or waxes. The fact that no evaporation takes place during the hot melt process, because the hot melt coatings contain no solvents and solidify as soon as they are sprayed, is a decisive advantage. Up to 85 percent shorter processing times are possible as a result and power consumption is significantly lower, especially since there is no need to heat

the process air in order to dry the product. Hot melt coatings are employed in the pharmaceutical, food, and nutraceuticals industries, where they function as a moisture barrier or a taste mask, for example for orally disintegrating granules. The hygienic design of Romaco Innojet's IHD 5 – which is CIP-capable with no dead spaces – enables GMP-compliant cleaning and prevents cross contamination. The unit can be opened without difficulty, and so all product-contacted surfaces inside the hot melt device are clearly visible throughout. In the interests of uniform heat distribution, the patented technology was designed as a heatable monobloc integrating all functional components including the valve block, dosing unit, and product container. The mobile IHD 5 is simply connected to the ROTOJET® spray nozzle of a Romaco Innojet VENTILUS® fluid bed processor via a trace heated tube. Excellent product quality is ensured by the pulsation-free dosing of the melt coatings.

On show at CPHI & PMEC India 2023 from November 28 to 30, 2023 (India Expo Centre, Greater Noida, Delhi NCR, 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 the Truking Group, a globally operating high-tech enterprise based in Changsha (China). Truking's core competency is handling and filling pharmaceutical liquids.

Romaco operates from five European business sites, 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 850 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 Centers 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. E 710 Smart double-sided rotary press from Romaco Kilian
E-710-Smart_Kilian_Romaco.jpg



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



3. IHD 5 hot melt device from Romaco Innojet
IHD-5_Innojet_Romaco.png



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