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Plastics Engineering / Material Flow / Fluid Technology / Metering and Mixing Technology / Quality Assurance

MATERIAL CONDITIONING AND PROCESS OPTIMIZATION

Vacuum Station TAVA F by TARTLER Improves Transferring and Decanting of Resins

The innovative vacuum station TAVA F by Tartler is the ideal solution for applications where high- and low-viscosity resin components need to be decanted and transferred into barrels. For material manufacturers, it enables the delivery of optimally filled containers, while supporting processors in implementing processes that enhance quality, reduce costs, and promote sustainability. Equipped with customized peripherals, each TAVA F can be seamlessly integrated into existing production environments.

Michelstadt, October 2023. – It is part of the diverse equipment portfolio of the German company Tartler and is now being used by numerous resin processors in implementing resource-efficient Zero Waste concepts: The TAVA F vacuum station, allowing for cost-effective and waste-free decanting and transfer of fluid and pasty resin components. Both material manufacturers and users of modern dosing and mixing systems have recognized that this degassing station enables them to significantly reduce their cost outlay, minimize waste volumes, and sustainably improve their processes. While the TAVA F enables a material manufacturer to provide its customers with degassed and moisture-free resin components in optimally filled containers, processors benefit from the resulting process reliability in dosing and mixing, as well as the recovery and reprocessing of unmixed residual quantities from ongoing production. To provide potential customers with an initial impression of the possible savings through the use of a TAVA F, Tartler offers a calculator on its website. By entering five quantity values from their production – such as the number of barrel changes per month or the volume of residual quantities – users can instantly find out how much money they save and how quickly their TAVA F will amortize.

The Tartler TAVA F vacuum station enables cost-effective and waste-free transfer of fluid and pasty resin components. The image displays a basic version equipped with a radar sensor for determining the fill level in the barrel.

No Contaminated Air in the Process

In many places, resin processors use the TAVA F as a unit upstream of production to ensure that only optimally conditioned material is supplied to their dosing, mixing, and application processes. In this way, they minimize the risk of process interruptions and preemptively avoid an excessive increase in all costs incurred by material losses for flushing and cleaning cycles. As demonstrated in practice, this solution leads to a decrease in the costs involved in procurement and assembly of spare parts. Moreover, all unmixed material remnants generated during barrel changes or in the context of test runs for fine-tuning the mixing ratios can be collected and, after reprocessing in the TAVA F, reintroduced into production. Particularly innovative resin processors combine the TAVA F with a pump station – such as a NODOPOX from Tartler – for the necessary decanting, thereby reducing their costs for the purchase of new materials and waste disposal.

Degassed and moisture-free resin components in optimally filled containers: This benefits both the material manufacturers and the processors.

Optimal System Integration

To ensure both the needs-based design of the TAVA F and the optimal integration of the degassing station into the customer's production environment, Tartler offers a variety of modifications, modules, and peripheral systems. Apart from the tool-free and low-cleaning effort involved in switching to other container sizes, the TAVA F can be equipped with barrel lifters, winches, roller conveyors, mobile base frames, or other handling devices upon request. For precise determination of the filling quantities, the station can be equipped with a radar sensor to determine the fill level in the barrel or load cells to determine the weight of the material to be filled and to automatically shut off when the desired fill weight is reached. For the surface finish of the material introduced, Tartler offers barrel-integrated smooth spreaders, which eliminate problems with trapped air during subsequent removal, or follower plates for filling materials with extremely high viscosity (>1,000,000 mPas) and/or extreme thixotropy. What's more, Tartler's peripheral portfolio includes printers for labeling the finished containers with all essential information (filling weight, batch number, date, etc.), and network modules for logging and storing data in the company's network. It is worth noting that the company, in its capacity as a custom machinery manufacturer, can realize many more process- or environment-specific adaptations.

The TAVA F can be optimally adapted to the customer's production and specific use case with numerous modules and peripheral systems. The image shows a version with a smooth scraper and load cells.

Higher Availability

Lastly, it's worth reminding that material manufacturers also benefit from the use of the TAFA F. On the one hand, thanks to the degassing station, they can guarantee their customers process-secure containers without (moist) air inclusions. On the other hand, the storage stability of the material freed from disruptive air and humidity increases, enabling the manufacturer to pre-produce and thereby improve their delivery capability.

Upon request, Tartler provides the TAVA F as a complete solution with handling and conveyor systems. The image shows a variant with a barrel follower plate, scale, label printer, and roller conveyor for barrel handling.

Note for editors: Text and images are available at www.pr-box.de!

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