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Fluid technology/ Lubricant technology/ Adhesive technology/ Filling and transfer technology/ Plastics technology

SAFE MEDIA CONVEYANCE WITHOUT DISTURBING AIR

TARTLER degassing system improves the handling of highly viscous materials

Air pockets and chambers often hinder the reliable conveying of highly viscous media. Especially in areas where lidded drums and hobbocks are a determining factor in the filling and transfer processes, they hinder trouble-free further processing in dosing, mixing, and application systems. The TAVA F vacuum station from TARTLER has proven itself a proven solution in many applications. From the initial filling of the drums to the actual application, it enables optimal process control for pastes, silicones, adhesives, greases, and many single-component materials.

Michelstadt, September 2025. – High-viscosity lubricants, assembly pastes, adhesives, and silicones are technical media that are usually filled into clamp-lid drums or hobbocks for use in industrial processes and delivered to the user as ready-to-use units. A common obstacle arises that causes serious headaches for both material manufacturers and processors: Even during the initial filling of the drums, air bubbles and pockets form unnoticed in the viscous masses, hindering proper further processing during subsequent dosing, mixing, or application. The list of undesirable consequences ranges from annoying process interruptions and high additional costs for cleaning and retooling the systems to significant quality defects in the final product. To prevent these from occurring in the first place, more and more material manufacturers and users are now relying on TARTLER degassing stations. The TAVA F system, in particular, is currently setting standards in this area.

Prevents air leaks when filling and transferring highly viscous materials: The TAVA F low-pressure degassing station from TARTLER (left). Shown here in conjunction with the company's Nodopox VS 1K resin dosing system (right).

Degassed and dehumidified

The TAVA F low-pressure vacuum system enables material manufacturers – or packaging service providers – to provide their customers with bubble-free containers filled with degassed and dehumidified media. For

processors, the use of such an evacuation station leads to optimal process control and a significant reduction in waste. The technical superiority of the TAVA F from TARTLER is demonstrated, among other things, by the fact that it also captures the disruptive air chambers created by the folds in the film bags (liners) inserted into the drums.

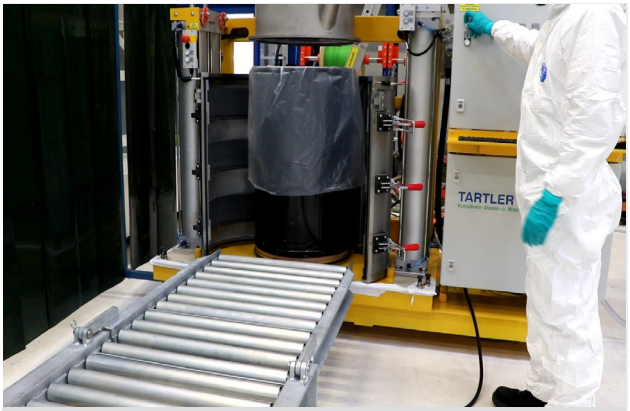
Thanks to its high degassing quality, the TAVA F is also suitable for applications with increased fluid management requirements. One example of this is the microdosing of high-viscosity greases for the lubrication of small rolling bearings. Here, even the introduction of tiny air bubbles, barely visible to the eye, can have fatal consequences and lead to bearing damage. This means that in many areas of fluid, process, and process engineering where highly viscous, pasty media must be processed without air or bubbles, the use of the TAVA F vacuum station from TARTLER can make a significant contribution to quality assurance.

Technically superior: The TAVA F from TARTLER also detects those disruptive air chambers that arise due to the folds in the film bags (inliners) inserted into the barrels.

Simple process integration

Furthermore, such a degassing station supports the implementation of resource-efficient zero-waste processes. Its use not only reduces material waste, but also the consumption of cleaning chemicals, since process interruptions caused by disruptive air are now rare. Furthermore, all material residues generated when changing drums or during test runs during formulation can be collected and, after processing in the TAVA F, returned to production.

To simplify the integration of the TAVA F into the filling/transferring and drum changing processes of various industries, TARTLER offers the option of modifying the system or upgrading it with additional modules and peripheral systems. In addition to the fact that adaptation to different containers – for example, 200-liter drums or 20-liter hobbocks – can be carried out without the need for tools and with minimal cleaning effort, the degassing station can also be equipped with cable winches, drum lifters, roller conveyors, trolleys, or special handling systems upon request. Furthermore, a radar sensor for determining the fill level can be installed in the drum, as well as load cells that measure the weight of the material being filled and automatically switch off when the fill weight is reached. The drum-integrated smoothing device, which optimizes the surface finish of the filled material and prevents problems with trapped air during subsequent removal, has also proven very advantageous in many process engineering applications. Special follower plates for filling materials with very high viscosity (>1,000,000 mPas) and/or extreme thixotropy, printers for labeling containers, and network modules for data logging are also available. As a special-purpose machine manufacturer, TARLER is also able to adapt its systems to particularly demanding or unusual process environments.



For example, roller conveyor: To simplify the integration of the TAVA F into various filling/refilling and drum changing processes, TARTLER offers the possibility of modifying the system or adapting it with additional modules and peripheral systems.

„For the processor, the use of such an evacuation station leads to optimal process control and a significant reduction in waste."

Udo Tartler, CEO

Components and modules of the TAVA F from TARTLER

- Vacuum drum in stainless steel or steel (free color selection)
- Clamping and securing device
- Base with drum centering plate
- Vacuum pump (23-63 m^3/h; final pressure 0.1 mbar)
- Control unit with touchscreen (Siemens PLC KTP700 with touchscreen)
- Level monitoring
- Sight glass
- Hoses in various lengths
- Compressed air connection for 6-8 bar
- Power connection for 400 volts
- Steel frame with base and transport by industrial truck

Savings potential quickly calculated

The use of the TAVA F degassing station from TARTLER offers significant savings potential in the processing of highly viscous media. To give users an initial impression of the potential cost savings, the company has released a calculator on its website. Simply enter five quantities from your production—for example, the number of drum changes per month or the volume of residuals—and you can see how much money you're saving and how quickly the TAVA F will pay for itself.

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

For more information about the TARTLER GROUP please visit our website:

www.tartler-group.com

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