

PRESSEINFORMATION 11/2020

Plastics Technology/ Electrical Engineering/ Adhesive Technology/ Dosing and Mixing Technology/ Fluid Technology

## SEALING AND ADHESION WITH GRAM ACCURACY

**TARTLER dosing mixing head enables high-precision processing of very small quantities**

*Minimum-quantity dosing and application of small quantities for multi-component plastics are key processes in many industrial assembly lines. These processes are often at the heart of the action, especially in electrical and electronic encapsulation as well as in adhesive and sealing technology. The TARTLER dosing mixing head LV 2/2 with integrated load cell is specially designed for use in these areas. Low-viscosity mixtures can be applied with pinpoint accuracy in tiny shot quantities of 1.0 to 10 grams.*

**Michelstadt, November 2020.** – Although only introduced in the middle of last year, the TARTLER LV 2/2 dosing mixing head is already used in numerous industrial production processes. For example, it forms an important stage in the sealing of electronic components or the gluing of small magnets in the rotors of e-mobility drives. Here and in many other adhesive, sealing and encapsulation applications, it enables high-precision dosing and mixing of low-viscosity, self-flowing components made of silicone, polyurethane and epoxy as well as repeatable and accurate application in shot quantities from 1.0 to 10 grams. It is suitable as standard for processing resins and hardeners with viscosities from 50 to 20,000 mPas in mixing ratios of 100:5 to 100:200. Depending on the requirements and customer wishes, the LV 2/2 can also carry out many other specific mixing ratios. The output can be regulated from 5.0 to 100 ml/min.

### Own measurement technology on board

In contrast to many other small quantity metering systems on the market, the LV 2/2 from TARTLER has its own measuring technology. Specifically, this means that it features an integrated load cell that monitors both the mixing ratio and the shot weight



The LV 2/2 dosing mixing head from TARTLER is an intelligent precision system for the processing of small quantities of multi-component plastics.



View of the four-color touch panel of the TARTLER LV2/2 dosing mixing head.



The dosing mixing head LV 2/2 from TARTLER is suitable for series processing of resins and hardeners with viscosities from 50 to 20,000 mPas in mixing ratios from 100:5 to 100:200.

during the application process. A major simplification is that the load cell automatically self-calibrates by working together with the Siemens control system and appropriate software. This self-control of the load cell – an innovation in the field of small quantity and pinpoint dosing of synthetic resins – allows increased process reliability and speed.

#### **Dynamic mixing possible**

The dosing mixing head LV2/2 from TARTLER is controlled via a four-color touch panel. For operation, it requires a compressed air connection and a voltage of 400 volts for the energy-efficient servo motors of the pumps and mixing head. As with all system solutions from TARTLER, the LV 2/2 can

also be used with the company's driven, rotating disposable plastic mixers. This allows high-quality and homogeneous mixtures to be achieved even with extreme component formulations. TARTLER recommends the mixer type 06/04 D in short and slim design for processing small quantities.

As standard, the LV 2/2 is equipped with stainless steel containers with capacities from 3 to 200 liters. In addition, TARTLER offers a range of additional modules that enable further optimization of small quantity processing, such as a refill unit, heating system, material degassing and the possibility of process logging. On request, TARTLER also supplies its innovative small-quantity dosing and mixing head complete with mobile base.



The standard version of the TARTLER LV 2/2 dosing mixing head is designed for the application of two components. However, it can also be upgraded for dosing, mixing and applying up to four components.

## Up to four components

In the standard version, the LV 2/2 is designed for processing two components, but can also be upgraded for dosing, mixing and application up to four components. In this way, TARTLER offers a high-quality and high-precision intelligent solu-

tion for resin processors who have to apply tiny amounts of liquid plastics, sealants and adhesives in their production lines or in the laboratory, which can be adapted to growing requirements.



TARTLER offers a range of additional modules to match its LV 2/2 dosing mixing head: A refill unit, a heating system, a material degassing system, a process logging system and a mobile base.

*Note for editorial staff: Text and images available at [www.pr-box.de](http://www.pr-box.de)!*



More information about microdosing with Dosing-Mixhead LV 2/2 can be found on our website:

- ▶ [tartler.com/en/microdosing.html](http://tartler.com/en/microdosing.html)
- ▶ [youtu.be/u-4JUza6Aw](https://youtu.be/u-4JUza6Aw)
- ▶ [tartler.com/de/newsreader/a-bulls-eye-with-every-drop.html](http://tartler.com/de/newsreader/a-bulls-eye-with-every-drop.html)

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