

zero waste

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Sustainability/ Climate Protection/ Management/ Plastics Technology/ Adhesive Technology/ Dosing and Mixing Technology

RECOGNIZING THE ADDED VALUE OF SUSTAINABLE PROCESSES

TARTLER GROUP is on course for transformation into a sustainable company

TARTLER GROUP is making great strides in its transformation into a sustainable company. To this end, the medium-sized machine manufacturer has implemented numerous measures at various levels. These range from the energetic modernization of buildings and the optimization of operational processes to auditing according to DIN EN 16247 and the development of innovative system solutions for synthetic resin processing. In an interview, CEO Udo Tartler reports on the company's achievements and further sustainability goals.

Mr. Tartler, since the start of operations at the new main facility in Michelstadt, you've been implementing a steadily expanding sustainability program in the group companies. Isn't that an enormous additional workload for management and employees?

Tartler: We see it more as a commitment to the region and a mission with which we assume our responsibility for future generations. Our environmental protection measures also boost our operational efficiency. Since we have defined the principle of sustainability as a mandate for our product development, we also generate savings potential, process optimization and innovation opportunities.

How can we imagine that in concrete terms?

Tartler: In the practical implementation of our measures for resource conservation, climate protection or CO₂ reduction, we directing the view inside – at our own processes in production, logistics and adminis-

tration – but equally outwards, that is, at the market and customers. We not only ask ourselves what we can contribute within our own company, but also offer the users and processors of synthetic resins technical innovations for the implementation of zero-waste processes with which they can reduce their ecological footprint.

Can you first give some examples of the measures aimed at the internal processes?

Tartler: At TARTLER company which manufactures our dosing and mixing systems, and at all other companies in the group, we practice extensive waste separation. As a result, we have reduced our residual waste to a



Valuable raw materials: the metallic waste from the machining processes of the TARTLER subsidiary ZT Odenwald is consistently transferred into recycling cycles.



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Udo Tartler, CEO

minimum. Metallic waste from the machining work of our subsidiary ZT Odenwald is fed into recycling circuits and the electrical engineers at ETP Walther consistently focus on the processing and retrofitting of components and systems and their re-marketing. In all companies, we are driving digitization forward and reducing the consumption of paper, toner and ink. More than 500 photovoltaic modules on our buildings support our energy supply, and since all subsidiaries are located directly at the main plant and we obtain many components from regional suppliers, we reduce the ecological footprint of our logistics considerably. All these measures make their contribution to sustainable, environmentally sound management. This is also confirmed by the energy audit according to DIN EN 16247-1, which we have completed in the last few weeks and which now serves as a further guidepost.

The audit report shows that building heating, vehicle fleet, lighting and computers are still the biggest energy consumers in the company. Will you start there?

Tartler: That's already happening. A large part of our vehicle pool already consists of electric and hybrid vehicles. In addition, we are increasingly using augmented and mixed reality tools in service and carry out a lot of work via online meetings and remote diagnosis. This saves enormous costs and reduces our CO2 emissions. We have also started the conversion of the lighting to LED technology. The heating system is currently being put to the test in all of the group's operations. All buildings have been designed in such a way that air conditioning is largely unnecessary. In addition, we are currently examining the introduction of key performance indicators that we could use to control our energy consumption more precisely.

Let's take a look at the outside world. What options for reducing the ecological footprint do you offer the users of your synthetic resin dosing and mixing systems?

Tartler: The principle of sustainability has been incorporated into our development work for several years. This has meanwhile led to technical innovations that make the use of environmentally harmful cleaning substances superfluous, minimize the amount of waste from our customers and enable the realization of

low-waste, material-optimized and energy-efficient process cycles in all areas of synthetic resin processing.

What technical solutions are you thinking of?

Tartler: For example, our dynamic disposable mixers, which make it unnecessary to subject the mixing heads of the dosing and mixing systems to energy-intensive rinsing processes with ecologically questionable detergents. Or our degassing stations, which, for example, reduce rework when using liquid synthetic resins in wind blade production, lower costs, increase quality and minimize repair work. With our TAVA systems, fluid and pasty media can be filled into drums without introducing air pockets into the material. Even residual quantities from production can be deaerated, dehumidified and then reused! This enables the synthetic resin user to implement waste-free, resource-saving filling processes. The last residues of resin from inliners can be squeezed out with our mobile squeezing device and returned to processing. We offer users of vacuum infusion, wet pressing, resin transfer molding and pultrusion the system solution T-EVAC for the process-integrated evacuation of resins and hardeners. Before



E-Mobility: The TARTLER GROUP's electric and hybrid vehicles are now „refueled“ via seven wallboxes.

the material from the delivered containers reaches the dosing and mixing system, air and moisture will be removed in the T-EVAC and brought to the ideal processing temperature. The dosing system is thus always fed with optimally processed material.



TARTLER GROUP's TAVA 200 F (left picture): an investment that pays off! Fluid and pasty media can be filled into drums without introducing air pockets into the material. Even residual quantities from production can be processed and then reused! Picture 3 shows T-EVAC, for the process-integrated evacuation of resins and hardeners.

This reduces rejects and residual waste, while improving process reliability and product quality.

Which sustainability measures are currently still on your agenda?



Reduces waste of material in plastics technology: the last residues of resin from inliners can be emptied with our mobile squeezing device and returned to processing.

Tartler: According to our current energy audit, we will focus even more on CO2 reduction and analyze our processes with regard to further savings in energy and material consumption. The measures of residual waste separation, reuse and recycling are being further refined. The processing of all sustainability measures will also flow into the ongoing digitization of the group, for example with the upcoming introduction of a new ERP system. In addition, we continue to focus on the development of innovative and durable quality products for customers who have recognized the added value of sustainable production processes and want to implement resource-saving zero-waste concepts with our system solutions in order to generate further competitive advantages for themselves.



Note for editors: text and pictures are available at www.pr-box.de



More information about TARTLER GROUP you can find here:

► <https://www.tartler-group.com/en/>

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