ZELLER+GMELIN

Press Release

Saving energy in Powerwash systems

New low temperature spray cleaner from Zeller+Gmelin

Zeller+Gmelin has developed a new product for the surface cleaning of plastic parts: The Divinol Spray Cleaner KC 1362 achieves the required result already at room temperature and thus considerably reduces the energy consumption in so-called Powerwash systems. The focus is on energy efficiency and environmental compatibility.

Before plastic parts such as bumpers go into the paint shop, the workpieces must be cleaned and pre-treated. The cleanliness of the part surface is decisive for an optimum result in the coating process. Powerwash systems have been tried and tested for years for this pre-treatment. In these, plastic parts are treated with an aqueous cleaning solution at temperatures of usually 45 to 70 °C by means of spray application. The high temperatures are necessary to dissolve stubborn dirt, but also to keep the baths low-foaming, thus preventing over-foaming and unnecessary maintenance. Modern painting systems usually run 24 hours 7 days a week in continuous operation. The process temperature must therefore also remain permanently high during pre-treatment. This causes enormous energy costs!

Top results at low temperatures
With the new spray cleaner from Zeller+Gmelin you can save a lot of energy. By using Divinol Spray Cleaner 1362 KC, temperatures from 25° C in the Powerwash system are sufficient to achieve optimal results. The necessary heating up and the continuous maintenance of high process temperatures is no longer necessary. The pre-treatment and thus the entire painting process become more economical. "With our Divinol Spray Cleaner 1362 KC, we have developed a process stable cleaner that achieves the required surface cleanliness at reduced bath temperatures", claims Georg Burkhardt, Project Engineer R&D PCH at Zeller+Gmelin. "The new Divinol Spray Cleaner achieves top painting results. The product has already been able to prove this several times in use."

Saving energy and protecting the climate
Customers at Zeller+Gmelin do not have to make any concessions when it comes to the environmental friendliness of the new Divinol Spray Cleaner. Jonas Wasserka, area manager PCH at Zeller+Gmelin emphasises: "With our aqueous cleaners for Powerwash systems, we are able to achieve high-purity surfaces on all common plastic surfaces. We offer alkaline and acidic products for a variety of applications - some of which are free of labelling.

The Divinol Spray Cleaner 1362 KC has a high biostability and does not require biocides. It can be used without disturbing foam formation. Due to the low process temperature, less water evaporates during operation of the Powerwash system, which also results in savings in fresh water consumption.
For Jonas Wasserka, energy saving is the convincing argument for the Divinol Spray Cleaner 1362 KC from Zeller+Gmelin: "Those who use less energy help to save resources and thus automatically protect the climate", he emphasises, underlining the high savings potential in the area of energy costs.

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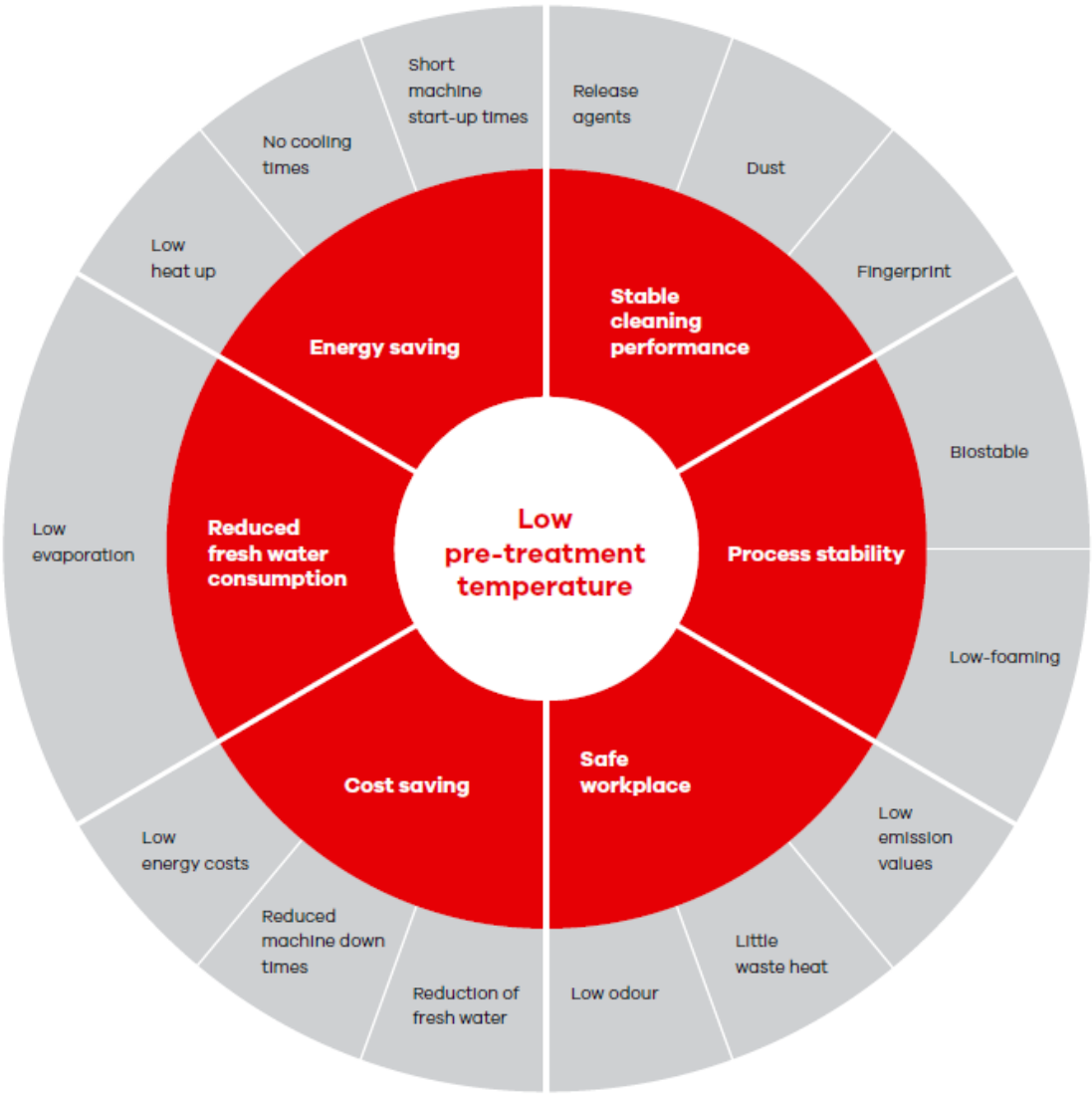
The topic of sustainability and climate protection is very important to the long-established company from Eislingen. In January 2020, Zeller + Gmelin qualified as a "climate neutral location". All products - including the new Divinol Spray Cleaner 1362 KC - are produced, stored and delivered in a climate-neutral manner.

Properties:

+ Very good cleaning behaviour of plastics
+ Reduction of the bath temperature to room temperature
+ Low foam formation
+ High biostability
+ Low evaporation losses and thus reduction of fresh water consumption
+ Reduction of machine start-up times. The lead time for heating is eliminated.
+ Service and cleaning activities can be carried out more quickly, as there is no need to wait for cooling times.



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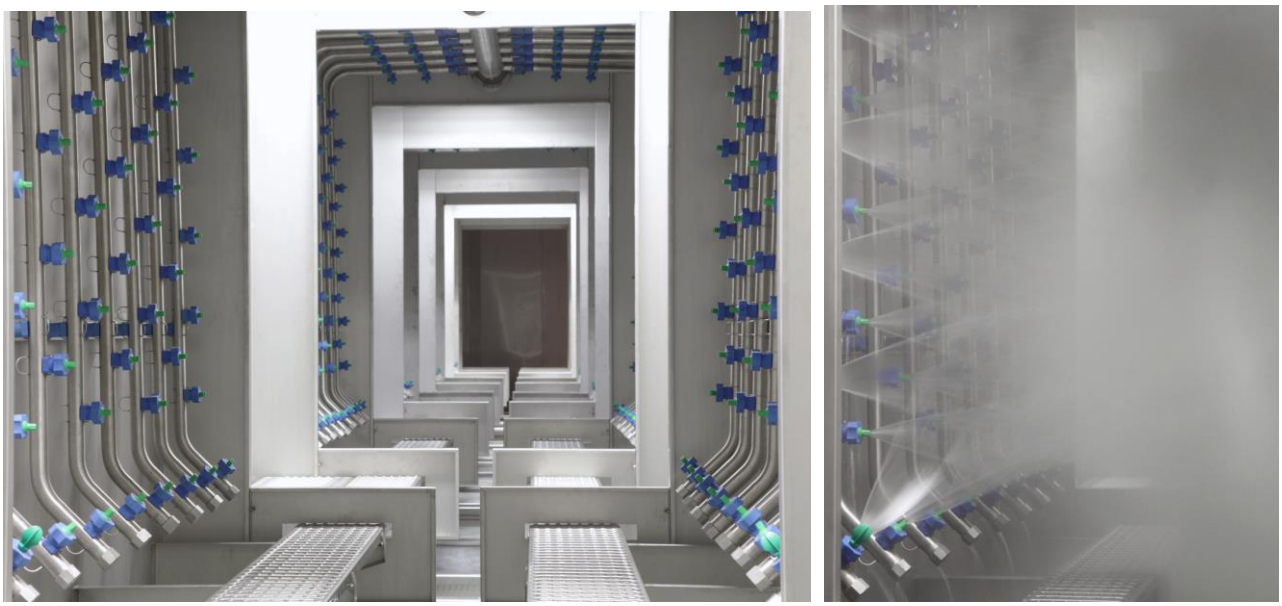

Figure 1-2 5: PowerWash system inside
BU: The Divinol Spray Cleaner 1362 KC significantly reduces the energy consumption of PowerWash systems. Heating the bath temperature to 60° degrees is no longer necessary. It achieves the required cleaning performance in the PowerWash system already at room temperature. (Picture source: b+m surface systems GmbH)

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