

Fast and Compact Suspension With System

The efficient suspension of small parts is a particular challenge for coaters of small part series with large volumes. The challenge is to manage the conflicting demands of speed, high throughput and optimum utilization of the efficiency with the minimum possible waste. One system promises to achieve this.

Thomas Querfurth

The efficient suspension of small parts is a sticking point that is often underestimated when coating small part series with large volumes. Coaters are happy to fall back on tried-and-tested hanging techniques, such as simple hanging hooks. The advantages seem tempting: simple technology, quick availability, practiced processes and low procurement costs. Many coaters shy away from investing in optimized suspension technology because of the effort involved in manufacturing and/or development and the supposedly higher costs.

Challenge and solution

The disadvantages of this classic method of suspension include a high level of manual effort with long set-up times, a risk of insufficient grounding that should not be underestimated, with the side effect of potentially increased powder consumption

and a higher reject rate. In addition, there is often no specific consideration of the suspension density and thus the optimized energy consumption per coated component.

With its latest product development, the HQWD system, HangOn presents an answer for this area of tension. Compared to a conventional suspension system, the HQWD system promises similar handling, with less time required, high grounding safety and optimized parts density, and only insignificantly higher procurement costs.

Development history

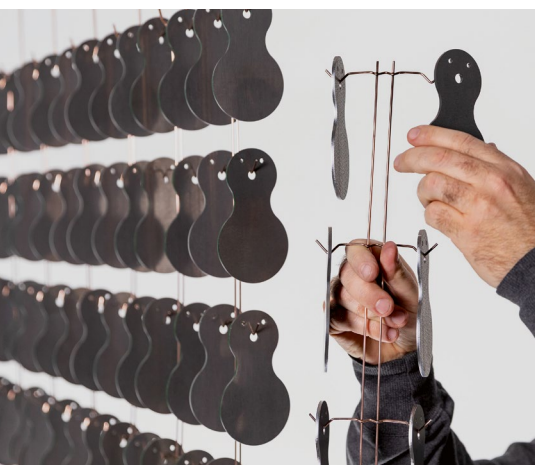
After coming up with the idea for this system, the question was how this smart hanging system, which is supposed to bring so much efficiency to the coating of small parts, could also be manufactured efficiently and thus cost-effectively. With

the experience gained from the development of earlier so-called quick systems, HangOn developed the complete production machines itself. The end result is now production lines that bend, weld and package this system fully automatically. This means that the costs per suspension point are minimally higher than the hook solution.

Tests and comparisons of the system under real conditions followed, which fulfilled all expectations. The system is fast, safe and flexible to use. Optimal hanging densities can be easily realized. It thus meets all the requirements for energy-efficient and CO₂-optimised production.

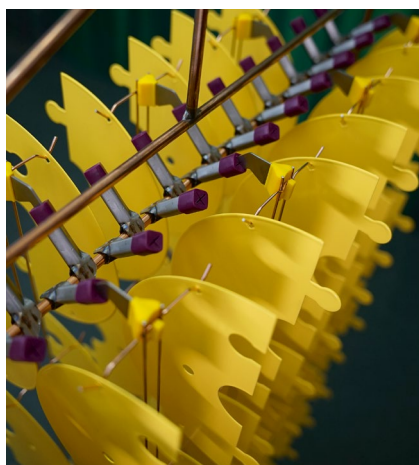
The system was quickly expanded to include additional components that allow it to be combined with existing suspension systems. In addition to stand-alone use, the HQWD system can be combined with frame racks, shaft hangers or T-traverses.

Conclusion
The new system makes it very easy to use the coating line efficiently with small parts. With the help of HQWD, every coating company can optimize its suspension in an energy-efficient, simple and safe way. This is also relevant regarding to minimizing CO₂ emissions. //



© HangOn GmbH

The part density can be reduced with the new system as individual...



© HangOn GmbH

...or optimize in combination with frame hangers.

Author

Thomas Querfurth
Sales Manager Germany
HangOn GmbH Deutschland
Wimsheim (Germany)
tq@hangon.de
www.hangon.de