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**bdtronic takes a further step in the direction of emobility /
Specialist for the impregnation of H/EV motors now also offers
powder coating process for hairpin stators**

bdtronic, a globally active mechanical engineering company based in Weikersheim, Germany, extends its process know-how. Bdtronic has not been idle in times of COVID-19 and successfully developed the process knowledge in powder technology with a development partner.

The new Technology complements the impregnation of H/EV motors in the powder coating process for hairpin stators. This means that impregnation and powder coating can be offered from a single source to ensure process reliability and quality.

“We want to accumulate our experience in the production process of stators in order to bring more process knowledge to the customer”, says Patrick Vandenhijn, CEO of bdtronic. “Our machines ensure both highest quality requirements and high production volumes.”

bdtronic has unique process expertise and experience in the impregnation of electric motors for the automotive industry. The company offers different machine concepts for the trickle impregnation of H/EV motors and has installed the fastest high-volume machines to OEMs and Tier1 automotive suppliers worldwide with a cycle time of 45 sec per motor. While the machines can process different kind of stators and impregnation resins, there is an increasing demand for powder coating of hairpin stators.

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The powder coating of the stator welded pins with epoxy requires a modern manufacturing process to ensure a safe and reliable product. To insulate the welding tips on the stator, the part is preheated and moved into a powder bath. Thanks to the heat of the stator, the epoxy melts on the surfaces and forms a protective layer. With this process, the customers get a uniform covering of the pins and an efficient solution for surface imperfections. The powder coating process will be integrated in the impregnation machine layout for an energy efficient and cost saving process.

bdtronic GmbH

With more than 4,000 installed machines, bdtronic is one of the world's leading machine manufacturers for Dispensing, Impregnation, Hot Riveting and Plasma Technology. bdtronic provides entire system solutions for assembly and production automation to all renown manufacturers in the automotive, electric and electronics industry, medical technology and renewable energy.

Video:

bdtronic – Your partner in e-mobility

<https://www.youtube.com/watch?v=Nfv9giBYVdY&t=8s>

Watch a video of the world's largest and fastest impregnation plant

<https://youtu.be/nsbzJW30eUQ>

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