

PRESS RELEASE

Innovative paint shop for Byton

Durr introduces space-saving oven technology for Byton FMC

Offers innovative paint shop for its Nanjing facility

Chennai, September 20th, 2018 – Automobile paint specialist Durr has developed a fundamentally new concept in vehicle drying with EcoInCure for its client, Byton FMC to construct a complete new paint shop in Nanjing. EcoInCure – an innovative car body curing from the inside will be designed for 150,000 vehicles per year i.e. equivalent to 30 units per hour. The primary features of the paint shop will be the reduction in footprint by 20% and the use of pioneering technologies.

In this new concept, automotive bodies are heated from the inside out by two jet nozzles through the opening for the windshield and two nozzles directed into the engine compartment opening. This enables unprecedented uniformity of heating. Compared with conventional ovens, there is also a significant improvement in top-coat quality and process performance - because heating from the inside out reduces the risk of pinholing. In addition, minimized flow velocities along the freshly painted surfaces ensure a completely undisrupted top coat appearance.

Durr's scope of delivery for the new paint shop for Byton FMC includes the RoDip® rotational dip process for pretreatment and electrocoating – already equipped for 60 units per hour – as well as all the robotic and application technology for the sealing and painting processes. The electrocoating stage uses the energy-saving and fail-safe system **EcoDC MACS**. This technology uses its modular anode control to create a voltage profile in the tank that moves with the body. The robots

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in the spray booths are equipped with the latest **EcoBell 3** atomizer generation. The semi-automatic **EcoDryX** dry separation system, which separates the overspray in the paint booths for primer and top coat, requires absolutely no water or chemicals. This simple and robust technology works on the basis of cardboard filters.

In addition, Dürr is designing a downstream exhaust air purification system made up of the highly efficient **Ecopure®** KPR VOC adsorptive concentration system with combined thermal exhaust air purification using the **Ecopure®** RTO.

The scope of delivery of the order placed at the beginning of 2018 includes material feeding for PVC and paint, shop ventilation, fire protection for the process systems, and a reverse-osmosis plant to reduce the water hardness. The exhaust air from the ovens is purified via the **Ecopure®** TAR recuperative thermal process, which also provides all the heat for heating the oven in an energy-efficient way.

Despite the extensive equipment, the design of the plant will be very compact and space saving – also thanks to **EcoInCure**. This is because the oven transports bodies transversely, halving its length compared to conventional systems. In addition, a central high-bay warehouse saves the space required for multiple intermediate buffers and enables intelligent material flow control. All in all, this **Eco+Layout** from Dürr reduces the paint shop's footprint by 20 percent.

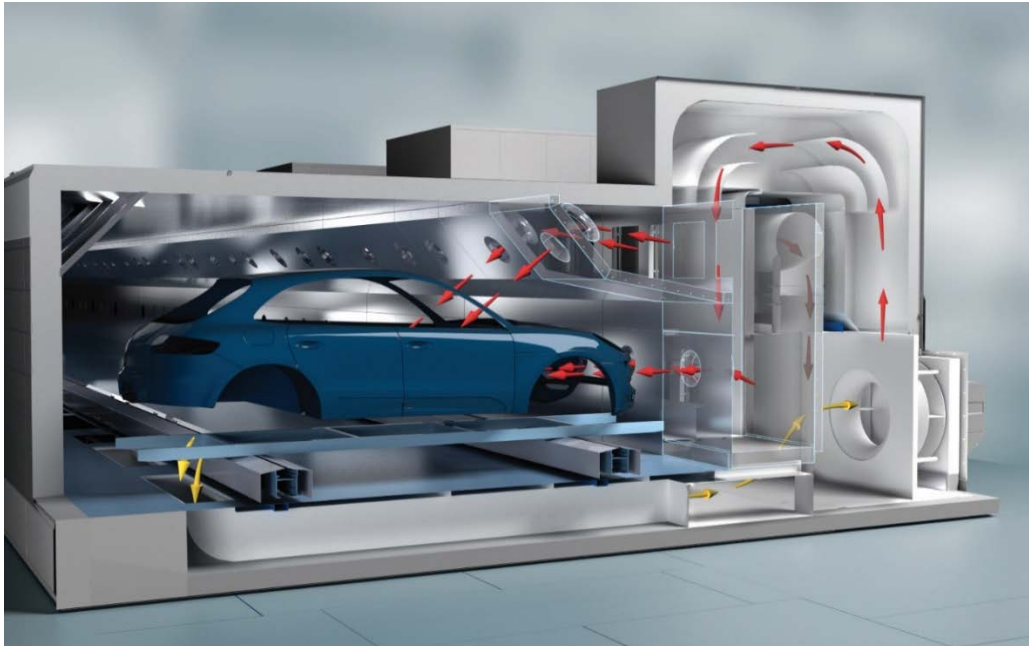
About Dürr India: *The Dürr Group has had a direct representation in India since 1997, and Schenck RoTec has since 1986. The Dürr Group currently employs around 590 staff there, offering the entire portfolio including sales and service: Dürr India, based in Chennai, offers painting, application, final assembly and energy efficiency technology products as well as exhaust-air purification systems. Since April 2015, Dürr India has also been offering on-the-job as well as classroom training in paint and application systems to customers at its new training center. Schenck RoTec India, in Noida, is responsible for balancing technology as well as for testing and filling technology. The HOMAG Group has a presence in Bangalore, where it operates a production site (HOMAG Machinery Bangalore) and sales and service company HOMAG India.*

The Dürr Group is one of the world's leading mechanical and plant engineering firms with extensive expertise in automation and digitization/Industry 4.0. Products, systems and services offered by the Group enable highly efficient manufacturing processes in different industries. Dürr supplies sectors like the automotive industry, mechanical engineering, chemical, pharmaceutical and woodworking industries. The company has 92 business locations in 31 countries. The Group generated sales of € 3.71 billion in 2017. Dürr has around 15,000 employees and operates in the market with five divisions:

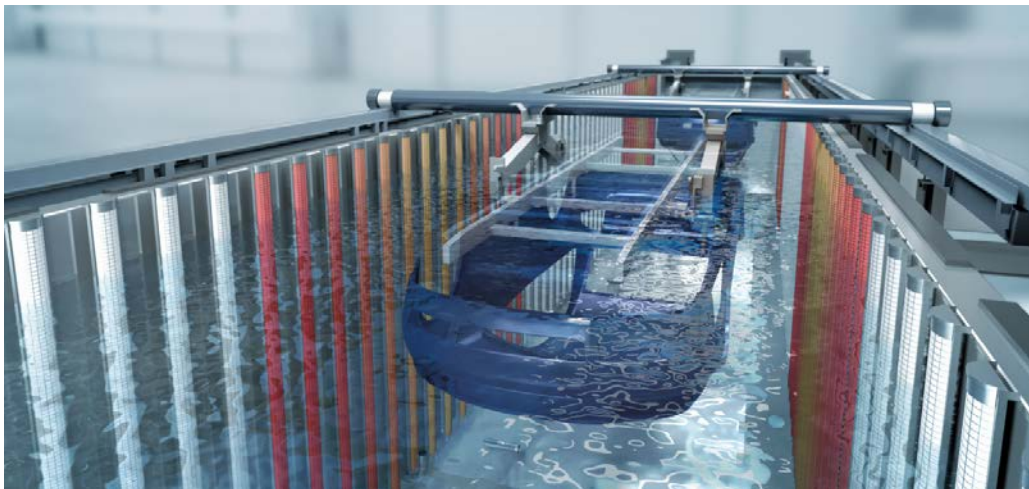
- **Paint and Final Assembly Systems:** *paint shops and final assembly systems for the automotive industry*
- **Application Technology:** *robot technologies for the automated application of paint, sealants and adhesives*
- **Clean Technology Systems:** *exhaust-air purification systems and energy efficiency technology*
- **Measuring and Process Systems:** *balancing equipment as well as assembly, testing and filling technology*
- **Woodworking Machinery and Systems:** *machinery and equipment for the woodworking industry*

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Improved paint quality thanks to **EcoInCure** by heating the body from the inside.



The fail-safe **EcoDC MACS** electrocoating solution is based on a voltage profile in the tank that moves with the body.

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