Press release

Combining AGVs and software for greater paint shop efficiency  
   
EcoProFleet ensures a digitally optimized material flow

**Bietigheim-Bissingen, 25 January 2023 –** From compact cars to pick-up trucks, the EcoProFleet driverless transport system developed by Dürr specifically for paint shops transports bodies with great flexibility. The Automated Guided Vehicle (AGV) comes into its own in combination with the new DXQ software products from Dürr’s Digital Factory. Together, hardware and software enable variable production layouts, optimally controlled material flow and maximum efficiency and scalability in the industrial painting process.

AGVs are key to a smooth transition between work decks and temporary factory storage, covering most of the painting process spectrum. **Eco**ProFleet is designed for this variety. The AGV can pick up any model, from compact cars to SUVs and pick-up trucks to unique shapes like truck cabs, place them down in work decks, or keep them ready during the painting process.

In the paint shops of the future, where modular work boxes replace the old lines with their rigid cycle times, AGVs are on the move up to 24 hours at a time, in the case of the **Eco**ProFleet. It is the only driverless transport system on the market now that can operate around the clock since it does not need to charge its energy stores overnight like other models. Instead, **Eco**ProFleet connects briefly to charging points along its routes. These charging points are where the AGV would be stationary anyway, for example, when transferring a body to a work deck. The short interval is enough to charge the capacitors so that the AGV has enough energy after placing down the body to return immediately to the production area and start the next job.

**Flexible route changes**

**DXQ**logistics.control is Dürr’s tailored software solution for the driverless transport system’s control logic. It controls the material flow digitally according to work deck utilization, equipment and availability.

The software can decide autonomously about the next job step and work deck based on the body type and defined process steps. To optimize logistics, it can also take in destinations outside the route chart, such as outward transfer stations or temporary storage locations. This means it can always respond flexibly, for example, if a malfunction occurs at a work deck or rework to a body surface necessitates changing the original route.

Ultimately, the combination of the **Eco**ProFleet driverless transport system and the **DXQ**logistics.control software solution results in the optimal utilization of all work decks. Workers no longer need to wait for the next body since the software plans all the tasks ahead and even factors in transport time. Unproductive downtimes and cycle time losses thus become obsolete, replaced by production efficiency. Since Dürr’s hardware and DXQ software are perfectly coordinated and individually combinable thanks to their modular design, they will play an instrumental role in making the paint shops of the future much more flexible and scalable than was previously possible.

Ein Bild, das drinnen, blau enthält.

Automatisch generierte Beschreibung  
Picture 1: The combination of **Eco**ProFleet and **DXQ**logistics.control ensures optimal utilization of all work decks

The Dürr Group is one of the world's leading mechanical and plant engineering firms with extensive expertise in automation and digitalization/Industry 4.0. Its products, systems and services enable highly efficient and resource-saving manufacturing processes in different industries. The Dürr Group supplies sectors like the automotive industry, mechanical engineering, chemical, pharmaceutical, medical technology and woodworking industries. It generated sales of €3.54 billion in 2021. The company has almost 18,400 employees and 120 business locations in 33 countries. The Dürr Group operates in the market with the brands Dürr, Schenck and HOMAG and with five divisions:

* **Paint and Final Assembly Systems**: paint shops as well as final assembly, testing and filling technology for the automotive industry, assembly and test systems for medical devices
* **Application Technology**: robot technologies for the automated application of paint, sealants and adhesives
* **Clean Technology Systems**: air pollution control, noise abatement systems and coating systems for battery electrodes
* **Measuring and Process Systems**: balancing equipment and diagnostic technology
* **Woodworking Machinery and Systems**: machinery and equipment for the woodworking industry

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