Press release

The newest atomizer generation from Dürr reduces paint and solvent consumption and VOC emissions  
  
EcoBell4 increases system availability and capacities

Bietigheim-Bissingen, 23 February 2022 – The newest atomizer generation from Dürr can make a real contribution to improving overall equipment effectiveness (OEE) in the paint shop. The EcoBell4 performs color changes faster than any other high-speed rotary atomizer, reduces paint and solvent consumption as well as VOC emissions, and features RFID technology for predictive maintenance. For the first time, Dürr is offering two variations in the same atomizer generation: the basic version for standard applications and the pro version for special processes like 4x1C or 3x2C.

The pro version of the **Eco**Bell4 featuring the new 4-main-needle technology is the benchmark for efficiency and resource consumption: The patented system needs just four seconds per color change for high-runner paints. The significantly shorter color changes positively impact paint and solvent losses, which are lower than any other atomizer on the market. Less waste not only cuts operating costs but is also better for the environment with fewer VOCs generated.

**Universal use for all painting tasks**

The **Eco**Bell4 Pro can be used for interior and exterior painting in addition to all paint materials. The portfolio includes atomizers for both water-based and solvent-based paints in. The **Eco**Bell4 Pro can serve both existing and new painting needs, from 4x1C painting for the base coat to 3x2C solutions for clear coat and all combinations in between.

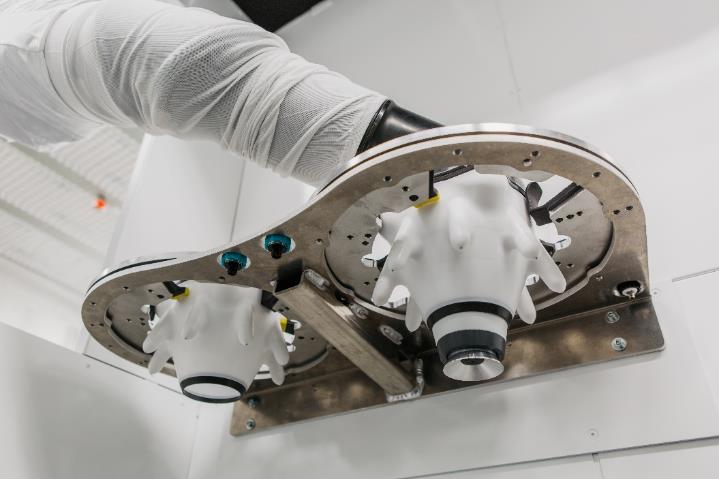
**The perfect combination:** **EcoBell4 and EcoProBooth**

The flexibility and universality of the **Eco**Bell4 Pro are best demonstrated in combination with the new **Eco**ProBooth. With its smart painting booth design, the **Eco**ProBooth combines all painting tasks in just one box, including the new, innovative **Eco**Bell4 Pro Ux atomizer. The same bell disk/shaping air ring and external charge system handle all interior, exterior, and metallic painting (bell-bell process). The atomizer equally applies narrow spray jets inside the body and wide spray jets on the outer skin with Dürr’s usual high efficiency. Another innovation is the patented exchangeable external charge systems, which individually combine within the Pro series. Dirty electrode rings are simply discarded and replaced with clean ones in one of the four service cubicles of the **Eco**ProBooth – without stopping the system for cleaning to take place.

**Fault prevention with RFID technology**

Whether in the bell disk, the shaping air ring, the turbine or the atomizer: Dürr adds RFID technology to improve processes directly in the paint booth and maintenance. RFID (radio frequency identification) is a wireless data exchange between a transponder and a writing or reading device. Since Dürr’s transponders can read and write operating data, components can store data directly and track wear.This technology provides operators with reliable information about the current condition, enabling them to make optimum use of the service life of components and plan maintenance times in advance. However, it is not just the parts needed for the maintenance work displayed. Visualization of required work steps occurs at a maintenance station with an RFID connection in assembly videos using defined sequences. Typical sources of error, such as the incorrect assignment of bell disks or air shaping rings after a break for cleaning, can also be eliminated thanks to RFID. The system detects the incompatible component when it reads out the data and warns the operator via a pop-up window even before the painting process starts. This feedback increases system availability and positively affects the first-run rate.

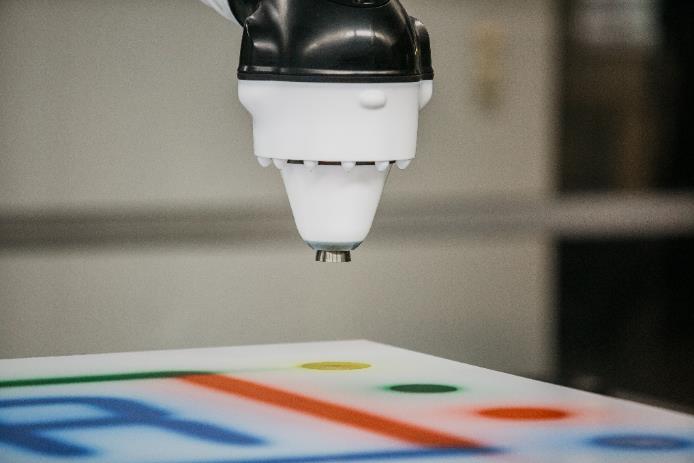
All **Eco**Bell4 atomizers are equipped with RFID technology. In addition, Dürr has enhanced the external charge system to make it even more efficient. Other new features include a robust rotation speed acquisition system designed for easier maintenance, a vibration sensor integrated into the robot that detects imbalances in the bell disk and turbine before they cause damage, and a protective stocking with a patented attachment concept. It reduces soiling so that at least four hours of painting are possible without cleaning the atomizer in between.



Picture 1: Patented world innovation: **Eco**Bell4 Pro with exchangeable electrode ring.



Picture 2: Dürr’s latest atomizer generation can make a real contribution to improving the OEE of a paint shop.



Picture 3: Presented at the Dürr Open House 2021: the **Eco**Bell4 can perform color changes in just four seconds.

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 € 3.32 billion in 2020. The company has around 17,500 employees and 120 business locations in 33 countries. Since February 2021, the majority-owned automation specialist Teamtechnik has also been part of the Group. 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

Contact

Dürr Systems AG

Philipp Dunkel

Marketing

Tel.: +49 7142 78-5675

E-Mail: [philipp.dunkel@durr.com](mailto:philipp.dunkel@durr.com)

[www.durr.com](http://www.durr.com)