Press release

Feel the Innovative Spirit of the Future

Dürr China hosts Open House: insights into industrial painting and gluing technology

Shanghai, November 15, 2024 – Dürr China hosted an Open House event from November 12 to 15, 2024, under the theme “Feel the Innovative Spirit of the Future”. Each day showcased different topics, from innovations in painting and final assembly systems for automotive production to advancements in painting, gluing, and environmental technology for various industries. The final day was dedicated to industrial painting and gluing technology.

Participants at the Dürr China Open House learned about Dürr’s latest developments in painting technology for nonautomotive industries and explored outstanding advancements in gluing technology. These innovations contribute to increased efficiency, optimized product quality, and support sustainable development goals.

**Flexible automated painting**

In addition to the automotive industry, Dürr offers both manual and fully automatic painting solutions that can be seamlessly integrated into various other industries. The ready2integrate concept aligns individual products, creating a high-quality solution that includes a controller, dosing technology, and applicator. The ready2integrate solution combines these components to improve ramp-up time, lower project risks, and ease integration. An integrator installs the selected products at the customer's site, resulting in systems tailored to each customer’s individual painting process.

**Precise dosing: Solutions for 2K paint application**

Dürr’s **Eco**Dose 2K and 3K units are electronic dosing systems suitable for both high- and low-pressure applications in manual and automated painting processes. With quick color changes and convenient flushing functions, the system maximizes resource use and enhances application efficiency. Its precise fluid measurement technology ensures consistency and accuracy, even when handling media of varying viscosities. **Eco**Dose 2K Easy supports 1K, 2K or 3K materials, as well as water and solvent based paints, clear coats, top coats, and monolayer paints.

**Colorful efficiency: Special paint supply systems**

The new **Eco**Supply P Core is a modular paint supply system based on pigging technology, designed for industries using small amounts of various paint colors, like construction, woodworking, and automotive suppliers. The system not only effectively recovers unused paint and reduces the use of cleaning solvents but also accelerates the color change process, thereby improving work efficiency. Fully assembled at the factory, the **Eco**Supply P Core system only requires simple commissioning, providing an efficient, environmentally friendly, and user-friendly solution.

**EcoPump VP for medium and high pressure applications**

**Eco**Pump VP, a pneumatically driven vertical piston pump, is designed for medium and high-pressure applications. Its proven design and long-term durability make these pumps ideal for small to mid-sized applications, from painting and applying mastics and adhesives, to furniture, steel structures or walls, car bodies and other objects. The **Eco**Pump VP is suitable for airless or air-assisted application and is available in numerous configurations with various air inlet modules, pressure relief valves, trolleys and adjacent devices.

**No masking: Overspray-free paint application**

**Eco**PaintJet technology enables fully automatic, two–color car painting without overspray — a first in the industry. This product combines Dürr's expertise in paint application, robotics, and software with applications extending beyond automotive to industries like furniture, two-wheelers, cardboard packaging, garage doors, aircraft, and railway carriage decorations.

**Uniqueness in battery gluing**

Dürr offers high-quality dispensing products and provides extensive process expertise. Dürr’s piston shot meters, combined with the company’s high-precision dosing controls system, ensure high quality and continuous monitoring. This represents the most accurate dosing principle for reproducible processes and consistent seam quality. Furthermore, Dürr supports customers throughout the production lifecycle — from selecting the right components to process development, on-site support, and service — making Dürr a reliable partner in gluing. Key application areas include battery gluing, body-in-with bonding, and skyroof gluing.

**Long lifetime: Higher production quality for batteries**

Dürr's dosing technology is essential to producing high-quality batteries. This modular system adapts to various adhesive material viscosities and mix ratios, ensuring precise and uniform material application. From sealing and structural bonding to thermal interfact material TIM (Gapfiller), Dürr's battery dispensing application technology covers every step of the assembly — from individual cells to modules and battery packs. Dürr masters all gluing and sealing processes, prioritizing safety and quality throughout production to enhance battery system stability and longevity.

**Gluing Solutions in Body Shop**

The gluing process is a crucial part of automotive body-in-white manufacturing, as it enhances body rigidity and stability while directly impacting overall vehicle performance and appearance quality. In the Body Shop, Dürr's gluing application system includes modules such as the **Eco**RAM, which supplies viscous glues; the **Eco**HVMP control system of pumps and applicators; the **Eco**Shot Meter, an electric piston dosing unit, accurately doses high­viscosity materials regardless of material supply variations; and the **Eco**Gun applicators for various gluing tasks Together, these systems ensure that the body-in-white adhesive applications meet the high standards required for vehicle quality and performance.

**Gluing Skyroof: modular systems - customized solutions**

This solution addresses customers' specific needs for production efficiency, equipment cost, and product quality, providing turn-key gluing cells, gluing products, dual robotic gluing cells with high-precision glue pattern detection and semi-automatic loading via manipulators. Dürr also offers virtual commissioning services, allowing verification of equipment processes and programming within the software to ensure smooth, efficient production. Furthermore, Dürr introduces a range of highly automated, innovative technologies, such as automatic windshield bonding and assembly line tracking for side window bonding and insertion, significantly enhancing production efficiency.

At the Dürr China Open House 2024, participants explored the potential of industrial painting technology and the immense economic potential of high-precision gluing technology. The event served as a platform for showcasing innovative achievements and offering a glimpse into the future of manufacturing. The Open House welcomed customers, integrators, partners, and media representatives from across China, Southeast Asia, South Korea and Japan.

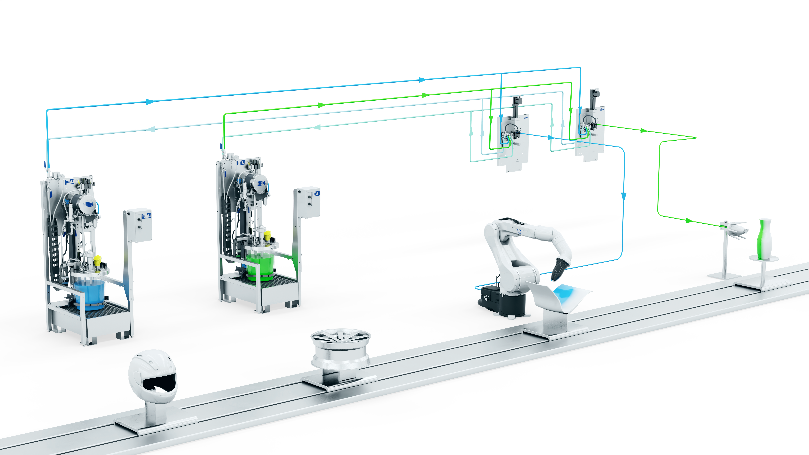
Since Dürr’s first oven installation for Volkswagen in Shanghai in 1983, the company has collaborated with the Chinese automotive industry for over forty years. Initially focused on painting technology, this partnership has expanded to include final assembly, sealing, and cleaning solutions. Today, Dürr products are now also used in other industrial sectors reflecting a legacy of innovation and dedication to quality with every technological advancement.

Looking ahead, Dürr is committed to collaborating with partners to tackle new challenges and capitalize on emerging opportunities.

Are you a specialist company that understands market needs and implements local painting projects for customers? Let’s connect — we are eager to welcome new partners who share our passion for cutting edge painting technology.

Feel the Innovative Spirit of the Future!

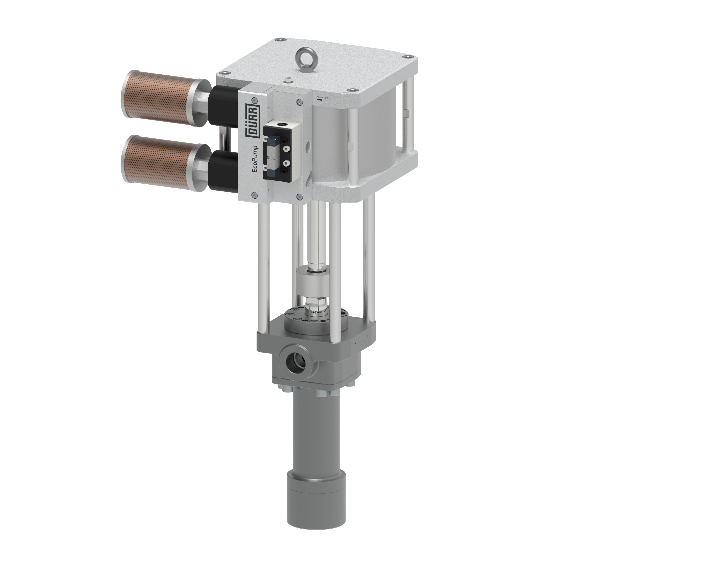
**Pictures**

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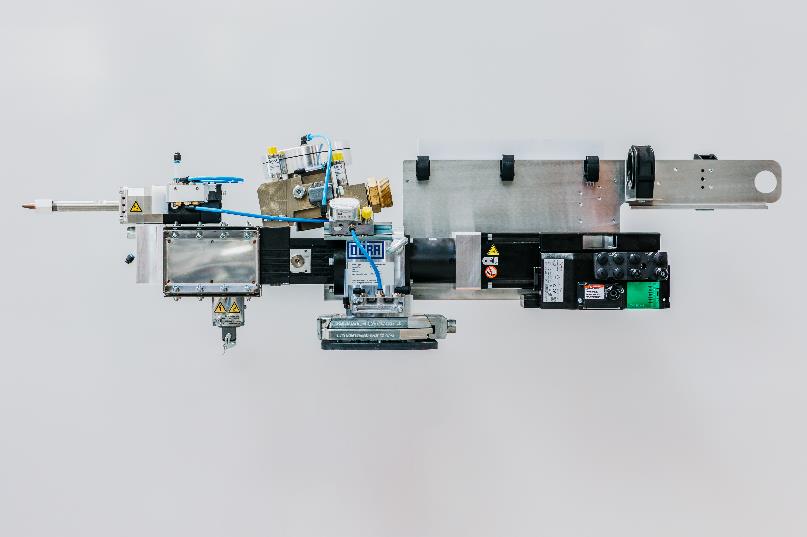
**Picture 1**: The ready2integrate concept aims to seamlessly align individual products to swiftly assemble a high-quality solution comprising a controller, dosing technology, and applicator.



**Picture 2:** The EcoSupply P Core is a modular paint supply system based on pigging technology.



**Picture 3**: The **Eco**Pump VP 500 has a longer service life and is better suited for LASD and glass microsphere-filled PVC.



**Picture 4:** The EcoMeter SP a continuous dosing system (shown here with the EcoGun PVA04 applicator) is designed for the seamless application of highly viscous media without interrupting material flow.

**About Dürr**

The Dürr Group is one of the world's leading mechanical and plant engineering firms with particular expertise in the technology fields of automation, digitalization, and energy efficiency. Its products, systems, and services enable highly efficient and sustainable manufacturing processes – mainly in the automotive industry and for producers of furniture and timber houses, but also in sectors such as the chemical and pharmaceutical industries, medical devices, electrical engineering, and battery production. In 2023, the company generated sales of €4.6 billion. The Dürr Group has around 20,000 employees and 141 business locations in 33 countries, and it operates in the market with five divisions:

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

Contact

Dürr Systems AG

Carina Lachnit

Marketing

Phone: +49 7142 78-4899

E-mail: carina.lachnit@durr.com

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