Press release

Dürr introduces a new high-viscosity material pump for the automotive industry

**EcoPump VP 500: A more suitable and more durable supply pump for LASD and glass microsphere PVC**

Bietigheim-Bissingen, April 25, 2024 – Dürr launched its EcoPump VP 500, a high-pressure, high-flow PVC pump superior for supplying Liquid Applied Sound Deadening (LASD) and glass microsphere-filled PVC in the automotive industry. This product utilizes highly wear-resistant materials and a unique design to meet the requirements of high-pressure spraying. The EcoPump VP 500 is gaining traction in the automotive adhesive market to supply LASD due to its extended lifespan compared to similar products in the industry.

Demand for lightweight electric vehicles continues to increase steadily as they save electricity and increase their driving range. Major car manufacturers are gradually prioritizing using low-density sealants and LASD to reduce weight. Incorporating hollow glass microspheres into LASD materials and PVC sealants reduces the density of PVC adhesives by more than 30% without affecting their physical properties, thereby reducing overall vehicle weight.

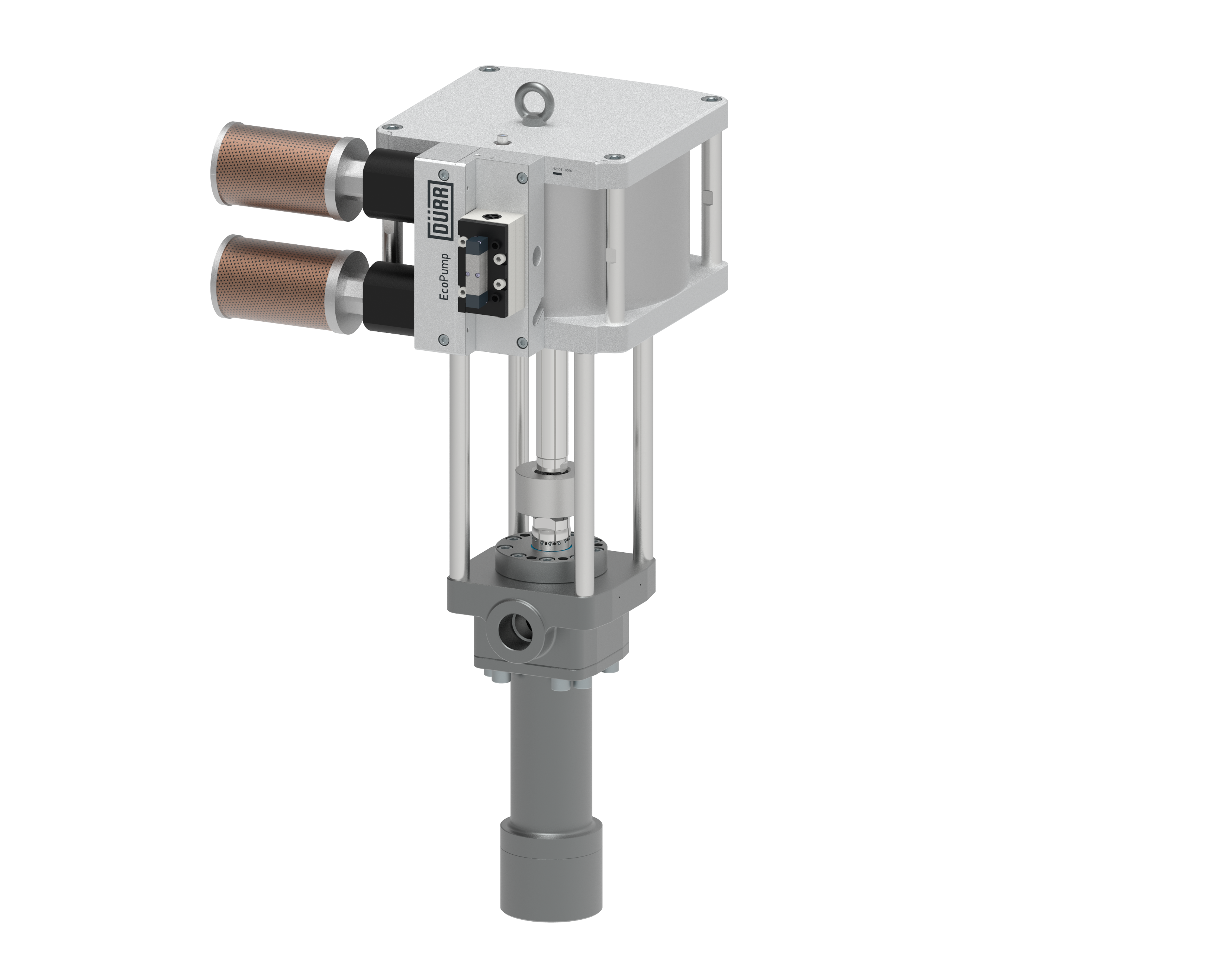
However, these high-viscosity materials pose significant challenges for both automotive industry users and the pump itself. Glass microspheres greatly increase material abrasiveness compared to conventional adhesives. Traditional PVC supply pumps can show signs of wear on the fluid seals within a week and often require replacement after three months. This not only takes time and effort but also increases costs and disrupts production, significantly reducing efficiency. Dürr's high-pressure and high-flow PVC **Eco**Pump VP 500 handles the material more effectively. The pump’s parts that come into contact with the liquid are coated with a special mirror-like ceramic coating, making it more resistant to wear than conventional coatings due to its very hard and smooth surface. Consequently, the **Eco**Pump VP500 can withstand greater loads and impacts when used in combination with LASD, effectively increasing the supply pump’s lifespan.

A unique design for high-pressure adhesive applications

In addition to the special polished ceramic coating, the **Eco**Pump VP 500 also features a sealing package that doesn’t require an initial force application. This unique design eliminates the need to regularly tighten the sealing gasket, effectively optimizing adhesive leakage and significantly reducing the risk of adhesive solidification through contact with air. Additionally, the pump’s large cross-section and low flow rate enable high-pressure, low-speed adhesive flow within in the pump body, minimizing shear forces on the device.

The **Eco**Pump VP 500 earned an Asian car manufacturer’s trust after one year of production in their 60-jobs-per-hour paint shop. Several customers who have used the **Eco**Pump VP 500 confirmed that the pump requires no seal ring replacement during one year of operation and boasts a significantly longer service life than the industry average.

**Pictures**

Figure 1: The **Eco**Pump VP 500 has a longer service life and is better suited for LASD and glass microsphere-filled PVC.

**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 over 20,500 employees and 142 business locations in 32 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

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