

Green Paint Shop from Dürr for Chery in Dalian

Bietigheim-Bissingen, Germany, August 10, 2010 – As general contractor, Dürr is building a new environmentally friendly paint shop for Chery Automobile Co. Ltd., a Chinese automobile manufacturer. At its facility in Dalian, China, in the heart of a very popular tourist area, not only is quality of the utmost importance but ecological aspects are as well. Using the latest technologies, Dürr can meet the high requirements for sustainability in the painting process. The contract, issued by Chery in the second quarter of 2010, has a volume of more than €60 million.

Dürr is responsible for the construction of the entire paint shop, including the application technology. In terms of saving resources and energy, the use of the [EcoDryScrubber](#) is highlighted. This innovative and already proven method for dry separation of overspray reduces energy consumption by up to 60% when compared to conventional spray booths. Air re-circulation is primarily responsible for this, since it eliminates the need for water and detackifier chemicals in the paint booth. A filtration quality of nearly 100 percent is achieved and the saturated binding material – a waste product in conventional processes – can be reused untreated.

The RoDip rotational dip process that is used in the basecoat area also helps to save resources through optimized immersion and retrieval phases and correspondingly low carryover. Furthermore, RoDip guarantees maximum coating quality.

For exterior painting, 32 robots of type [EcoR6](#) with [EcoBell2](#) atomizers are used, while the interior painting is done manually. Water-based paint is

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used for both the primer and the basecoat areas. Underbody protection is done by four Dürr *EcoRS* robots. Also included in the scope of delivery for the application technology are two cleaning installations *Ecopaint Clean*, which are used to remove any dust adhering to the body prior to topcoat painting.

Chery plans to paint premium vehicles in its new plant. Therefore the focus is on quality and environmental aspects. Here as well, the *EcoDryScrubber* makes a significant contribution. With an air re-circulation component of up to 95%, the temperature and humidity in the painting process are easily kept stable. The small amount of conditioned fresh air makes the process practically climate independent – at any location in the world. This is just another example that Dürr, with its components from the Green Paintshop is the ideal partner for Chery's requirements.

Starting December 2011, working in a two shift operation, 200,000 vehicles a year will receive their brilliant outfits – in a production line with high quality equipment and intelligent process control.

Dürr is a mechanical and plant engineering group that holds leading positions in the world market in its areas of operation. It generates about 80% of its sales in business with the automotive industry. It furthermore supplies the aircraft, machinery, chemical, and pharmaceutical industries with innovative production and environmental technology. The Dürr Group operates in the market with two divisions. The Paint and Assembly Systems division supplies production and painting technology, especially for car bodies. Machinery and systems from the Measuring and Process Systems division are used in engine and transmission manufacturing and in final vehicle assembly, among other areas. Dürr has 48 business locations in 21 countries worldwide. The Group achieved sales of € 1, 1 billion with approximately 5,700 employees in 2009.

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Image: Saving energy and space: the [EcoDryScrubber](#) from Dürr

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