

Dürr Builds Another Environmentally Friendly Paint Shop for SVW in China

Bietigheim-Bissingen Germany, July 14, 2011 – As general contractor, Dürr is building a modern paint shop in Yizheng for SVW Shanghai, the joint venture between the Volkswagen Group and the Chinese SAIC Group (Shanghai Automotive Industry Corporation). Thanks to innovative technologies, Yizheng will host one of the most environmentally friendly plants in China.

As with the current project being realized by Dürr in Nanjing, SVW also relies on the *EcoDryScrubber* in Yizheng. By using air recirculation, the innovative dry separation method reduces energy consumption by up to 60% in comparison to conventional spray booths. Furthermore, since fresh water and coagulant chemicals are not needed, the sustainability of the painting process is significantly increased. With the two lines in Yizheng, Dürr's trendsetting *EcoDryScrubber* technology will already be in use in 40 applications on four different continents.

The rotating dip-coating system *RoDip*, with which over 25 million vehicle bodies have already been painted worldwide, comes into play in the pretreatment and cathodic dip-coating. Through this, the rotation of the entire car body in the tank optimizes the immersion, flooding and draining process.

Before applying the base coat and clear coat, the exterior of the bodies are cleaned with sword brushes by two *EcoRS 60* type robots. Thereafter, the line is separated due to capacity reasons and runs from the pretreatment in two tracks. 24 *EcoRP L133* type painting robots in each of the two lines automatically take care of the interior and exterior painting. Even the opening of hoods and doors for interior painting, as well as the measuring

**Dürr Systems GmbH
Marketing
Carl-Benz-Straße 34
74321 Bietigheim-Bissingen**

Phone: +49 7142 78-2614
Fax: +49 7142 78-1600

PFS@durr.com
www.durr.com

of film thickness in the topcoat, is fully automated with robots from Dürr. The *EcoLCC* linear color changer used in the basecoat minimizes paint loss considerably when changing colors.

The UBS lines are each equipped with four Dürr robot stations which include a total of 28 *EcoRS* robots and the application technology for automatic seam sealing, underbody protection and rocker panel coating. One such robot also completes the installation of roof reinforcement dampings in a gluing station. In addition, an automatic cavity flood system for the preservation of body cavities is included in the scope of delivery. In order to meet capacity, this equipment is constructed in two tracks.

The new paint shop – designed for a primerless process and the use of water-based paint – has a capacity of 62 units per hour. This paint shop, issued by SVW in the first quarter of 2010 and dedicated to sustainability will go into operation in the summer of 2012. Then vehicles from both Volkswagen and Skoda will be painted there.

Dürr is a mechanical and plant engineering group that holds leading positions in the world market in its areas of operation. It generates a good 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 technologies. The Dürr Group operates in the market with three 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. The third division, Clean Technology Systems, is focused on processes to improve energy efficiency and on exhaust air purification. Dürr has 48 business locations in

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21 countries worldwide. The Group achieved sales of € 1.26 billion with approximately 5,900 employees in 2010.

Photo: Improves quality and cuts costs: the rotating dip-coating process
RoDip from Dürr.

Company contact:

Dürr Systems GmbH

Günter Buzer

Marketing Paint and Final Assembly Systems

Phone: +49 7142 78-2614

Email: guenter.buzer@durr.com

Dürr Systems GmbH
Marketing
Carl-Benz-Straße 34
74321 Bietigheim-Bissingen

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