

Dresden, 19 September 2016

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## **VON ARDENNE PRESENTS THE NEXT LEVEL IN ARCHITECTURAL GLASS COATING AT THE GLASSTEC 2016 AND INTRODUCES THE PARTNERSHIP WITH VIGLACERA FROM VIETNAM**

From 20 to 23 September, VON ARDENNE will exhibit at the Glasstec 2016 in Düsseldorf, the major trade show for the glass industry, and will present the next level in architectural glass coating at booth E41 in hall 12. With its innovative product and software developments, the Dresden based high-tech company offers perfect solutions for the biggest challenges of the industry. These challenges are the necessity to increase productivity and to reduce the cost of ownership of production equipment and the demand for technology improvements.

### **Increasing productivity and reducing costs with VON ARDENNE Equipment**

VON ARDENNE is continuously increasing the productivity of its coating equipment. The company has developed a new vacuum concept that enables cycle times of less than 28 seconds for a standard Jumbo format glass coating system.

Usually, highly productive coating systems require a large factory floor space. This is a decisive factor for investment costs, both for factories that have to be built and for existing ones. VON ARDENNE has met this challenge by various developments.

Thanks to these developments, VON ARDENNE can offer several options that reduce the necessary factory space. Among them are the new design of the process area, which is the most compact in the industry, as well as intelligent solutions for minimizing the number of entry and exit lock chambers, even at very short cycle times.

Beyond that, the number of pumping stations can be reduced by using directly pumped magnetrons. This enables a significant reduction of the length of the coater. Alternatively, the machine can be equipped with more magnetrons at the same length, which increases its flexibility and productivity.

Furthermore, newly developed magnetrons enable a substantially longer target life time and longer campaign times due to their higher target material utilization. If production campaigns are longer, less time is needed for maintenance and the production yield is higher. This significantly increases the overall productivity.

### **Technological highlights for best layer properties**

By optimizing the magnetic fields and the process gas supply, VON ARDENNE also offers convincing technological solutions for the increasing demands of the industry. These improvements have benefited from the company's many years of experience in the development of equipment platforms with an excellent process stability.

Today, glass coating systems made by VON ARDENNE meet homogeneity requirements of  $\pm 0.8$  percent. Champion results during the commissioning of magnetrons have even shown layer thickness variations of less than  $\pm 0.5$  percent. The layer homogeneity can be adjusted during the production process with a new magnet bar adjustment system.

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## **Pioneering project in Vietnam – cooperation between VON ARDENNE and Viglacera**

On 20 September, VON ARDENNE will introduce the technology partnership with VIGLACERA. The Vietnamese construction corporation has bought a GC254H glass coating system from VON ARDENNE in October 2015, which was already operational in July 2016. This coater is used to deposit most advanced Low-E and Solar Control layers on glass, which will be used to produce energy-efficient glazing for buildings. This investment was part of the measures Vietnam is taking to reach its ambitions energy saving and climate protection goals. The machine is the first of its kind in Vietnam and southeast Asia making VIGLACERA a pioneer in the region.

The joint event of VON ARDENNE and VIGLACERA will take place at Glasstec on Tuesday, 20 September 2016 at 5:00 p.m. in hall 12 at booth E41.

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## **ABOUT VON ARDENNE GMBH**

VON ARDENNE develops and manufactures equipment for industrial coatings on materials such as glass, wafers, metal strip and polymer films. These coatings give the surfaces new functional properties and can be between one nanometer and a few micrometers thin, depending on the application. The coated materials are the basis for products such as architectural glass, solar modules or touch screens.

VON ARDENNE is a leading provider of architectural glass coating equipment and coating systems for thin-film photovoltaics. The family-owned company with subsidiaries in China, Japan, Malaysia, Taiwan and the USA relies on customer proximity in order to offer ideal on-site service. VON ARDENNE equipment is in operation in more than 50 countries around the world.

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## **VON ARDENNE AT GLASSTEC 2016**

### **BOOTH**

Hall 12 / E41

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