

P R E S S R E L E A S E

Hennecke at the JEC-Composites show in Paris from 29 to 31 March 2011, booth K31.

Innovative process engineering – Hennecke at the JEC Composites exhibition in Paris

After an extremely successful appearance at last year's JEC Composites, the experts at Hennecke GmbH are curious about the upcoming edition of Europe's leading composites fair. There is plenty of reason for this excitement as the machine manufacturer from the Rhineland will be presenting not just one, but even two equally significant innovations in process engineering from the area of spray technology, or integrated systems.

Even in the "crisis year" of 2010 the JEC Composites show witnessed record numbers of visitors, reflecting the constantly rising demand for composites. For its part, Hennecke GmbH has been documenting the growing interest with constant research and development and the modular expansion of its product portfolio. Thus the engineers always succeed in identifying new fields of application for producing and using composites.

At this year's JEC, visitors to Hennecke's booth will be able to get an exclusive insight into a new engineering approach that responds to the growing requirements regarding efficiency and environment in the automotive sector – the manufacture of fibre-reinforced structural components in a high-pressure RTM process (HP-RTM). In contrast to the classical RTM process this new technology enables the reactive mix to be quickly injected into the cavity. This means that curing times are extremely short and thus guarantees optimized cycle times for the whole process, allowing even high numbers to be produced in an appropriate way.

Furthermore, the polyurethane specialists will present another trend-setting innovation that enables the use of fillers in reactive PU mixtures. In classical methods, fillers are processed in high-pressure metering systems in the so-called batch method where the filler is added to a medium component before the components are mixed. However, this means that elementary machine parts have to be configured in such a way that they are resistant to high wear and tear. To process abrasive fillers such as barium sulphate e.g., different metering pumps and mixheads have to be used. Moreover, it is sometimes difficult to overcome the hurdle posed by the size and sensitivity of the filler particles. Thanks to a groundbreaking innovation that arose

from close cooperation with Bayer Material Science, fillers can now be fed in a stream of gas and injected into the mixing chamber during the mixing phase: the Solid Injection by Airstream (SIA) technology. This opens up completely new fields of application to the processor and means that fillers, which up to now were not even thinkable, can be used in PU high-pressure mixing – from expanded graphite to hollow glass spheres.



Range of properties as requested: Any fillers can be used
Photo: Hennecke GmbH

Apart from presenting new technologies, Hennecke also wants to convince customers with advanced sample parts from the automotive and sanitary sectors that are implemented with its famous PUR-CSM spray technology (Polyurethane

Composite Spray Moulding). These include bathtubs and

shower trays that provide the user with optimized thermal insulation, improved acoustic characteristics and the complete elimination of solvents. On top of that, light and yet extremely robust sandwich composite parts with honeycomb structures will be on display at Hennecke's booth.

For further information

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