



Tenneco Showcases Latest Mixing Solutions For Diesel Aftertreatment At 2015 IAA

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***Mixer designs offer customized solutions for customers,
while supporting critical emissions regulations***

Frankfurt, Germany, September 16, 2015 – Responding to the needs of global engine manufacturers for aftertreatment solutions that help to meet stringent emissions regulations, including EU6c, as well as the need for increased fuel efficiency, which also provides for lower CO₂ emissions, Tenneco today showcased its latest mixing technologies for light duty diesel engines at the 2015 Frankfurt Motor Show. The company's mixers are flexible enough to accommodate the reduced packaging requirements of advanced catalyst systems, including SCR-coated diesel particulate filter (SDPF) applications, while enabling flow uniformity of 95 percent or higher.

"Today's diesel engines are calibrated to achieve increasingly stringent fuel economy targets and as a result, generally more engine-out NO_x is being generated. One solution combines the SCR and DPF on a single substrate to reduce volume and light-off timing of the catalyst. This combination reduces the overall size of the aftertreatment, which presents new challenges when converting urea (AUS32) to ammonia," said Tim Jackson, executive vice president and chief technology officer, Tenneco. "Tenneco's industry leadership in diesel aftertreatment allows us to develop more efficient and effective solutions – mixers that are adaptable to any catalyst design, are packaging flexible and can accommodate any injector –while providing rapid and complete conversion of urea to ammonia gas, thereby avoiding deposits, and greater than 95 percent utilization of the catalyst."

Urea mixers are the key functional element that enables the processing of liquid urea into gaseous ammonia and allow it to be effectively distributed across the NO_x abatement catalyst. Tenneco's family of mixing solutions ensures flexibility and consistent urea conversion, while decreasing the risk of urea deposits in the system.

Tenneco's *new double swirl* mixer efficiently processes the injected urea into ammonia, even in extremely compact mixing zones, such as SDPF applications. The flow is forced into a mixing passage where the urea spray is injected and evaporated on the hot surfaces, minimizing undesired droplet slip to the SCR catalyst. The exhaust gas / ammonia mixture then exits the mixer passage, forming two macroscopic swirls that homogeneously distribute over the surface of the SCR or SDPF substrate.

Tenneco's mixers are currently in series development with global vehicle manufacturers in Europe, North America, China and Japan.

Tenneco is displaying these and other clean air technologies at its exhibit during the 2015 Frankfurt Motor Show, September 15-27, Hall 5.1, Stand A20.

Tenneco is an \$8.4 billion global manufacturing company with headquarters in Lake Forest, Illinois and approximately 29,000 employees worldwide. Tenneco is one of the world's largest designers, manufacturers and marketers of clean air and ride performance products and systems for automotive and commercial vehicle original equipment markets and the aftermarket. Tenneco's principal brand names are Monroe®, Walker®, XNOx™ and Clevite®Elastomer.

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