



WORLD WIDE WEAVE

GKD and ElringKlinger:

Partnership for efficient LP-EGR

At the end of September 2014, the Euro 6 exhaust emission standard comes into effect, also for cars. This means, in particular, that the thresholds for soot and nitrogen oxide emissions will be drastically reduced for all new vehicle types. Low pressure exhaust gas recirculation (LP-EGR) will have a key role to play in complying with these limit values. Innovative Volumetric Mesh made by GKD – GEBR. KUFFERATH AG is already making an important contribution in LP-EGR filters for current large series. Now, a new development partnership between GKD, a world-leading manufacturer of technical meshes, and ElringKlinger AG, supplier to the automotive industry and world market leader in the field of cylinder head gaskets, has created the foundations for an optimal combination of the relevant components.

In low pressure exhaust gas recirculation, exhaust gas is extracted downstream of the particulate filter and fed through the EGR cooler. The exhaust gas is then recirculated to the engine upstream of the turbocharger. Optimal flow control to minimise pressure loss in the gas stream is essential to ensure that the turbocharger can develop its full performance capabilities and that both fuel efficiency and CO₂ efficiency are improved. In addition to regulating pressure loss, the filter media used also play a crucial role in the protection of the components. They screen out potentially damaging particles in the range of 50 to 300 µm and larger – for example soot or tiny fragments of the upstream particulate filter. To cater for the exact installation scenario of the particular LP-EGR filter, GKD produces its Volumetric Mesh in a range



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of structural shapes. In the case of reversibly installed modules, made-to-measure high-performance gaskets are an absolute must for successful integration of the filters into the EGR system. For this reason, GKD and the gasket specialists ElringKlinger from Dettingen (Erms) in Baden-Württemberg made a first joint appearance at the 12th International CTI Conference in Mainz to emphasise the increased possibilities their partnership now opens up. Both companies have a pronounced culture of innovation and are thus optimally equipped to deal with the future challenges of the automotive industry.

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As a privately owned technical weaver, GKD - Gebr. Kufferath AG is the world market leader in metal, synthetic and spiral mesh solutions. Four independent business divisions bundle their expertise under one roof: Industrial Mesh (woven metal mesh and filter solutions), Process Belts (belts made of mesh and spirals), Architectural meshes (façades, safety and interior design made of metal fabrics) and Mediamesh® (Transparent media façades). With its headquarter in Germany and five other facilities in the US, South Africa, China, India and Chile – as well as its branches in France, Spain, Dubai and worldwide representatives, GKD is close to markets anywhere in the world.

For more information:
GKD – GEBR. KUFFERATH AG
Metallweberstraße 46
D-52353 Düren
Tel.: +49 (0) 2421 / 803-0
Fax: +49 (0) 2421 / 803-233
E-Mail: industrialmesh@gkd.de
www.gkd.de

Please send a reprint to:
impetus.PR
Ursula Herrling-Tusch
Charlottenburger Allee 27-29
D-52068 Aachen
Tel.: +49 (0) 241 / 189 25-10
Fax: +49 (0) 241 / 189 25-29
E-Mail: herrling-tusch@impetus-pr.de