

IAA 2015: Technical innovations in and around the engine

This year's IAA Cars was held in Frankfurt/Main from September 17 to 27 under the motto "Mobility connects." On its new stand F26 in hall 8, auto-industry supplier KSPG AG was showcasing a wide variety of products for reducing fuel consumption and emissions under its Kolbenschmidt and Pierburg brands. Included among the exhibits was an electric compressor for spontaneously boosting charge pressure on engines with an exhaust-gas turbocharger.

On the around 500 square meter stand, the Hardparts division (Kolbenschmidt brand) displayed its newest developments in steel pistons for car engines and its modern lightweight pistons. Among the other innovations was a preassembled, ready-to-fit thrust bearing specifically designed for hybrid drive trains and high-efficiency engines. Further focal points included low-weight structural parts in aluminum and high-duty engine blocks some of which with the newest coatings. Riken Corporation, a market leader in piston ring technology, was also present on the stand. In April this year, Riken and KS Kolbenschmidt agreed to cooperate on a global scale in the development and marketing of piston assemblies.



Intelligent heat and energy management that integrates several coolant cycles plays a decisive role in today's motor vehicle engines. The Mechatronics division (Pierburg brand) displayed a new kind of seat switching valve suitable for split cooling. Likewise included among the highlights was a new-generation divert-air valve and electrically controlled bypass flaps for exhaust-gas recirculation systems as well as the CWA 950-48V coolant pump. In 48 volt systems, this pump delivers 950 watt output, thanks to the higher supply voltage. Variable, fully variable and electric oil, vacuum and coolant pumps were also on show. These adapt flexibly to the respective engine load conditions, thus reducing fuel consumption and emissions.

The Frankfurt Motor Show goes back over a century when in 1897 eight motor vehicles were displayed to the public at the Hotel Bristol in Berlin. The event evolved into a periodically recurring exhibition. Due to vast public interest, starting from 1991 the show was split into passenger vehicles and commercial vehicles, with IAA Cars staged in Frankfurt in odd-numbered years (as this) and IAA Commercial Vehicles in Hannover in even-numbered years.

New to the KSPG production range



Audi TT

Parts supplied by KSPG

- Engine bearing
- Recirculating air valve
- Electric switchover valve
- Piston



Lamborghini Huracán

Parts supplied by KSPG

- Secondary air system
- Water circulating pump



BMW Mini

Parts supplied by KSPG

- Compact electric switchover valve
- EGR valve



Skoda Fabia

Parts supplied by KSPG

- Engine bearing