



Dr Ralf Marquard
Automotive Consultant, Germany

Ralf Marquard has been actively involved in engine engineering since 1986, when he joined the German engine engineering company FEV, while completing his Doctor of Engineering degree at the acclaimed RWTH (Technical University) Aachen. Upon graduating with his Doctorate, he joined Meta Engine and Energy Company in Germany to establish an engine design team and a prototype workshop for the development of automotive gasoline engines. In 1997, Dr Marquard moved to the Austrian engine engineering firm AVL, as Head of Design for Passenger Car Powertrain Systems. It is during this time that Dr Marquard first collaborated with SinterCast, developing the 3.3 litre V8 diesel engine for Audi – the first CGI series production engine in the world. The CGI V8 cylinder block was designed with effectively the same weight as the previous generation grey iron V6 cylinder block. During his tenure at AVL, he was responsible for several CGI engine development programmes for passenger vehicle applications. Dr Marquard also co-chaired three CGI Workshops jointly organised by AVL and SinterCast.

In 2004, Dr Marquard assumed a role as Senior Vice President of Research and Development at MAN Diesel, responsible for the development of large, medium-speed diesel engines for marine and stationary power applications. In 2009, he transferred within the MAN Group to MAN Truck and Bus, where he was Head of Research for Truck Engines. From MAN, he moved to Deutz to accept the position of Senior Vice President of Research and Development. While at Deutz, Dr Marquard was responsible for the development of the 7.8 litre off-road engine that specified a CGI cylinder head, becoming the first CGI component for SinterCast at Deutz.

In 2015, Dr Marquard returned to FEV to assume the position of Executive Vice President and COO of the FEV Group, where he restructured the company for international growth and established new business fields to proactively position the company to serve the market needs for vehicle electrification and autonomous driving. Most recently, Dr Marquard has started an independent engine consultancy business to apply his experience and contact network to the development and introduction of new technologies, focussing on powertrain efficiency and emissions compliance. He also consults on powertrain trends and closely follows vehicle electrification and the development of new low-carbon fuels for internal combustion engines. During 2017, Dr Marquard supported SinterCast at customer meetings in Europe and Asia, and has been a proponent of SinterCast and CGI throughout his career.