Press Release
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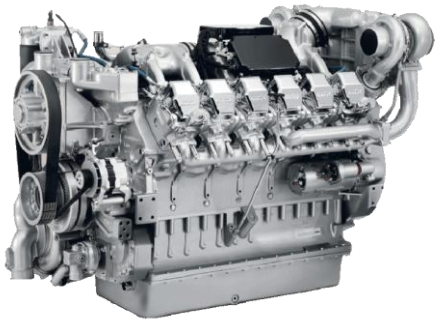
Tupy begins series production of CGI cylinder head for MTU industrial power engine

- **Industrial power engine upgrade with Compacted Graphite Iron cylinder head**
- **Series production underway at the Tupy foundry in Joinville, Brazil**
- **MTU Series 2000 engine available in several cylinder versions**

The MTU Series 2000 CGI fully machined cylinder head



The V-12 version of the MTU Series 2000 engine

[Joinville and Stockholm, 29 January 2014] – MTU Friedrichshafen, a subsidiary of Rolls-Royce Power Systems AG and one of the world's most advanced diesel engine technology and power systems providers, has introduced an upgrade of its class-leading Series 2000 engine with several new technology features, including a Compacted Graphite Iron cylinder head. The CGI cylinder head upgrade, compared to the previous generation head, was specified to enable increased power and to ensure durability in the demanding duty cycles experienced by marine, mining, construction and stationary power generating engines. Following successful product development and pre-production support, series production of the Series 2000 CGI cylinder head has begun at the Tupy foundry in Joinville Brazil, using the SinterCast process control technology. The engine is available worldwide in several cylinder configurations.

"The MTU order represents another important step forward for CGI and for Tupy, and further reinforces the transition toward CGI in state-of-the-art engine applications. The MTU cylinder head becomes our eighteenth CGI product in series production, and establishes an important reference as Tupy's first industrial power component produced in CGI" said Mr. Luiz Tarquínio, President and C.E.O. of Tupy. "As the world's leading supplier of Compacted Graphite Iron, we have now established high volume series production and secured CGI production commitments across the complete spectrum of passenger vehicle cylinder blocks, commercial vehicle cylinder blocks and heads, and industrial power engine components. Tupy will continue to build on its CGI expertise and series production leadership to motivate new CGI applications and to lead the ongoing trend toward CGI."

"The MTU Series 2000 cylinder head provides yet another example of the contribution provided by CGI in achieving performance, durability, refinement and emissions targets" said Dr. Steve Dawson, President & C.E.O. of SinterCast. "At present, industrial power components and products other than automotive cylinder

blocks and heads comprise approximately 10% of our production volume. We are confident that the growth opportunities in the industrial power sector can allow us to maintain this balance as the core automotive block and head sector continues to ramp up."

For more information:

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Headquartered in southern Brazil, **Tupy** has more than 12,500 employees and a production capacity of 848,000 tonnes per year of cast iron components. With manufacturing facilities located in Joinville in the State of Santa Catarina and Mauá in the State of São Paulo, Brazil, and in Saltillo and Ramos Arizpe in the State of Coahuila, Mexico, Tupy is one of the world's leading industries in the manufacturing of cast iron blocks and cylinder heads, and the global CGI leader with 17 CGI components in series production. Tupy has established sales and engineering offices located in Brazil, United States and Europe to support its main customers, including: Ford, Cummins, Caterpillar, Chrysler, Audi, Daimler, John Deere, Navistar and many other premier automotive and diesel engine manufacturers. For more information: www.tupy.com

SinterCast is the world's leading supplier of process control technology for the reliable high volume production of Compacted Graphite Iron (CGI). With at least 75% higher tensile strength, 45% higher stiffness and approximately double the fatigue strength of conventional grey cast iron and aluminium, CGI allows engine designers to improve performance, fuel economy and durability while reducing engine weight, noise and emissions. The SinterCast technology is used for the production of more than 50 CGI components, ranging from 2 kg to 17 tonnes, all using the same proven process control technology. The end-users of SinterCast-CGI components include Allen Diesels, Aston Martin, Audi, Cameron Compression, Caterpillar, Chrysler, DAF Trucks, Ford, Ford-Otosan, General Electric Transportation Systems, General Motors, Hyundai, Jaguar, Jeep, Kia, Lancia, Land Rover, MAN, MTU, Maserati, Navistar, Porsche, PSA Peugeot-Citroën, Renault-Nissan, Scania, Toyota, VM Motori, Volkswagen, Volvo and Waukesha Engine. The SinterCast share is quoted on the Small Cap segment of the NASDAQ OMX stock exchange (Stockholmsbörsen: SINT). For more information: www.sintercast.com

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