



Press Release
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**Tupy becomes first foundry to adopt
SinterCast Cast Tracker technology**

- Complete traceability for sand cores, moulds and castings; from core assembly to shipping
- First Cast Tracker system installed for high volume series production at Tupy Mexico
- Applicable to all Compacted Graphite Iron, grey iron and ductile iron production

[Joinville and Stockholm, 24 June 2019] – Following a successful eight-month validation trail, Tupy Saltillo has become the first foundry in the world to adopt the complete SinterCast Cast Tracker™ technology. The technology is based on the unique labelling of every core package, together with optical camera recognition of the core package in storage and during moulding. The technology then uses RFID identification of every flask at moulding, casting and shakeout to provide complete traceability throughout the foundry process. The SinterCast Cast Tracker technology evolves castings from commodity parts produced in batches to individual components that include complete and unique traceability of the production history. The technology ensures that every core package is within specification prior to casting, and generates a single database to allow engineers and managers to improve process efficiency and to troubleshoot the foundry process, identifying and eliminating the root cause of casting defects.

“The SinterCast Cast Tracker technology is an important step in our commitment to establish Tupy as the cast iron foundry leader for process control, innovation and Industry 4.0 traceability. Together with the SinterCast Ladle Tracker® technology that we pioneered in 2016, Cast Tracker ensures that every ladle and every core package remain within our process limits, while the comprehensive database improves our internal measurement of process efficiency KPIs, troubleshooting and traceability” said Mr. Fernando de Rizzo, President and C.E.O. of Tupy. “With the Cast Tracker technology, our customers will know the exact minute the core package was produced, the storage time, the liquid metal history, the shakeout time and all of the quality control inspection results for every casting. Cast Tracker brings improved quality and efficiency for Tupy and improved confidence for our customers”.

“With Cast Tracker, every casting becomes a unique individual, carrying its complete process history, from inception (coremaking) to birth (casting) and ultimately to shipping. We have improved traceability – including determination of the cast sequence within a ladle – while eliminating manual data collection, paper records and time consuming data entry” said Dr. Steve Dawson, President & CEO of SinterCast. “Together with our core CGI process control technology and our Ladle Tracker technology, Cast Tracker provides an exciting extension to the SinterCast suite of technologies. Cast Tracker increases our opportunity to supply the grey iron, ductile iron and non-ferrous foundry industries, increasing our scope of supply and providing the potential for additional running revenue from ongoing series production.”

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Headquartered in southern Brazil, **Tupy** has manufacturing facilities located in Joinville in the State of Santa Catarina and Maua in the State of Sao Paulo, Brazil, and in Saltillo and Ramos Arizpe in the State of Coahuila, Mexico, Tupy has established sales and engineering offices located in Brazil, United States, Germany, Mexico and Japan to support its main customers, premier automotive and diesel engine manufacturers. For more information: www.tupy.com.br

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 size, weight, noise and emissions. The SinterCast technology is used for the production of petrol and diesel engine cylinder blocks and exhaust components for passenger vehicles, medium-duty and heavy-duty cylinder blocks and heads for commercial vehicles, and industrial power engine components for agriculture, marine, rail, off-road and stationary engine applications. SinterCast supports the series production of components ranging from 2.7 kg to 9 tonnes, all using the same proven process control technology. As a specialist supplier of precision measurement and process control solutions to the metals industry, SinterCast also supplies a suite of tracking technologies, including the SinterCast Ladle Tracker[®], Cast Tracker[™] and Operator Tracker[™], to improve process control, productivity and traceability in a variety of applications. With 54 installations in 14 countries, SinterCast is a publicly traded company, quoted on the Small Cap segment of the Nasdaq Stockholm stock exchange (SINT). For more information: www.sintercast.com

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