

MAGNA

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Sub: Modernization of Core Shop

Magna is happy to announce the completion of the first phase of its core shop modernization. In this phase modular manufacturing cells have been set up in the core shop which now include : Two Cold Box Core shooters with a capacity of 10 liters and 15 liters and a production capacity of 60 shoots per hour each. For complex and critical cores a shell core shooter with a maximum size of 500X400mm and a production rate of 20 shoots per hour is available. In addition, a new automatic conveyor has been commissioned to improve productivity and to reduce rejection due to improper handling. Along with the conveyor system, a semi automated core painting system and a LPG based inline core drying oven has been commissioned.



With this level of automation it is possible for cores to be ready for placing in molds within 2 hours of the core shoot and major elimination of handling and transit damage is expected.



With the automation of core shop, core production



capability has doubled to keep up with the increased mold productivity. Further Oil sand cores has been completely eliminated, this reduces the processes to only to Cold Box cores (75%), Shell cores (10%) and CO₂ cores (15%). This reduction in number of processes will enable Magna to supply quality products at lower rejection rates to its customers.

In Phase II of core shop modernization, a new continuous mixer and automated sand loading facility will be in place. This is expected to be completed by December 2004.