

Press Information

International Manufacturing Technology Show 2016

12-17 September, McCormick Place, Chicago, USA

Sandvik Materials Technology, Booth: W-1228

‘The sound of higher productivity’ – as Sandvik introduces Sanmac[®] 3G

Sandvik will be launching Sanmac[®] 3G at IMTS in September, offering a stainless steel material which can significantly increase machining rates. To demonstrate this, the company will be running a ‘Sound Challenge’ on its Booth W-1228 to see if visitors can identify, ‘The sound of higher productivity.’

Year on year Sandvik Research & Development has applied and tested process improvements upgrading the melt of Sanmac material. The result is the introduction of Sanmac 3G, a dedicated stainless steel material available in a range of grades, that not only offer machinability at similar rates to carbon steel, but also exhibit excellent chip breaks and have consistent machinability from heat to heat and lot to lot. Thus greatly reducing operator set up times.

“In the past, when machine shops change from machining carbon steel to stainless they had to slow down the machining speeds and change settings due to frequent vibration, chatter, gumming of tools and poor chip breaks,” explains Sandvik global product manager Viktor Stefansson. “Now, with Sanmac 3G, machining speeds of up to 240 m/min are achievable as a result of the material’s consistency. And you can actually hear the difference! Couple this with the use of Sanmac hollow bar and machine shop productivity gains of up to 20% are achievable.”

As the only materials supplier at IMTS, Sandvik will display samples of components machined from a variety of Sanmac hollow bar material grades, including duplex Sanmac 2205. The material is particularly appropriate for the manufacture of mechanical seals, valve bodies, flow meters, pumps, and associated components for the oil and gas sector.

“Replacing solid bar with hollow bar eliminates the need for trepanning, when producing components with a central bore, which causes material to work harden and is detrimental to subsequent machining operations,” explained Sandvik product manager Dave Shollock. “Using near-net-shape hollow bar available off-the-shelf from our Houston distribution center, customers gain an immediate productivity advantage removing a complete operation along with all the associated costs.

“In one customer case, selecting Sanmac hollow bar meant they were able to triple production machining three components in the time it normally took to produce one from solid bar.”

The company works in close collaboration with sister company Sandvik Coromant, developing stainless bar and hollow bar materials concentrating on enhanced machining capabilities, such as increased speeds, improved component finishes and consistently longer tool life.

“Visitors to our Booth W-1228 during IMTS will be able to experience the sound of productivity in action and see for themselves the advantages available when using our hollow bar for machining components with a central bore,” added Dave Shollock.

Sandvik machining experts will be on hand during the show to help and advise visitors on material selection. Further information on Sanmac bar and hollow bar, along with the complete range of Sandvik material grades and product options, can be found at: www.smt.sandvik.com/en/products/bar-and-hollow-bar/hollow-bar/

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Sandvik Materials Technology

Sandvik Materials Technology is a world-leading developer and manufacturer of products in advanced stainless steels and special alloys for the most demanding environments, as well as products and systems for industrial heating.

Sandvik Coromant

As the world’s biggest tooling manufacturer and supplier, Sandvik Coromant is a part of Sandvik Group with its head office in Sandviken, Sweden. The Gimo factory is the world’s largest carbide insert manufacturing plant. Over 30,000 products cover all aspects of turning, milling and holemaking in the metal cutting industry.

***Image caption:** Sanmac[®] stainless steel hollow bar from Sandvik offers significant increases in machining rates.*

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