

Press Release 1 / March 2007

European Innovation for the US Market

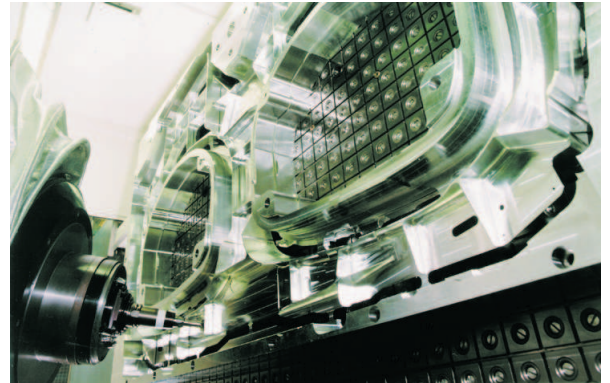
Machine Tool Manufacturer meets the Aircraft Industry

Mönchengladbach, Germany

Around the world, Aircraft manufacturers and their suppliers set extremely high manufacturing standards for their sub-contractors. The North American market plays a key part in this global business process. Dörries Scharmann Technologie GmbH, a German Machine Tool Builder takes the initiative to educate the aircraft structural machining community in future oriented technology. New and developing technologies are explored during informational seminars at various locations convenient to the customer.

Dörries Scharmann Technologie's have collaborated with strategic partners: Siemens Energy & Automation, a CNC controls system provider and Ingersoll Cutting Tools, the tooling experts. Together they deliver an informative ½ day presentation on significantly improving productivity. These detailed seminars examine case studies to reveal machining productivity improvements achieved by understanding the close relationship between machine, control systems and cutting tools. Feedback from attending participants has confirmed the success of this educational presentation concept after the kick-off events in St. Louis, Missouri and Wichita, Kansas. The next event will take place during WESTEC at the L.A. Convention Center located Los Angeles CA from March 26 till 29, 2007.

The program focuses on 5-axis high-performance machining of aluminum alloys for structural aircraft applications. Mr. Alfred Lilla, who spent 20+ years at EADS Systems perfecting manufacturing processes, is now working at the DST Headquarters in Mönchengladbach, Germany. His unique perspective as a former manufacturer comes through as he explains the benefits of the Sprint Z3 technology utilizing the patented DST parallel kinematic head design. The production proven performance of this revolutionary machine design is not possible without superior axis drive and CNC control provided by Siemens.



Machining of structural Aircraft parts for the Eurofighter
with the parallelkinematic Sprint Z3 machining head
Dimensions: 1,900 x 1,161 x 120 mm

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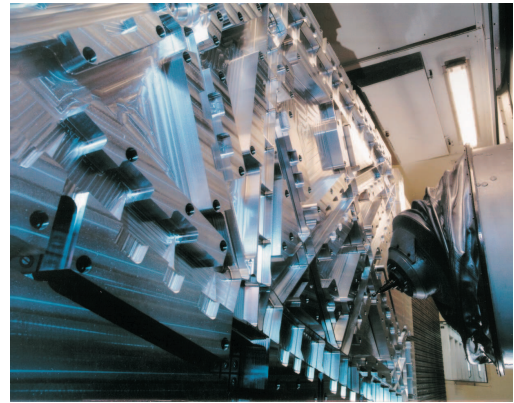
Mr. Tim Shafer, the Director of Siemens U.S.A. for the Aerospace Business leads attendees through an informative look at the 3 control Dimensions of Hi-Performance cutting, speed, accuracy and surface finish. Theoretical discussion is reinforced by practical case studies explaining how the machine and control system interact. Applying these advance machine and control capabilities requires tooling specifically designed for the task. Mr. Don Yordy, Engineering Center Manager from Ingersoll explains how his company developed tooling specifically designed for advanced aerospace applications. His case studies are not only informative but explain cutter design considerations, chip loads, speed and power requirements.

Together these three powerful speakers explain how the systems are integrated on the ECOSPEED Machining Center to achieve world record chip removal rates of 8 liters per minute using 30,000 rpm and 80 kW power in high-resistance aluminum plate or billet.

Pictures:

1: The heart of the machining centers of the ECOSPEED Series from DST, for 5 or 6 axis machining is represented by the innovative parallel-kinematic machining head Sprint Z3, ensures high dynamics, realizes accelerations up to 1 g and chip removal power of 8 liters per minute.

2: Machining of structural Aircraft Parts for the Airbus A 380. Dimension: 3,500 x 2,200 x 100 mm.



Machining structural Aircraft part for the Airbus A380
Parts Dimension: 3,500 x 2,200 x 100 mm

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