

PRESS RELEASE

For immediate circulation

Sigma 32 – A World First at EMO

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Reap the benefits of tremendous power and strength for workpieces up to 32mm in diameter at EMO! This is the slogan that Tornos will use to unveil the Sigma 32, an automatic single-spindle turning machine with mobile headstock at the EMO show in Hanover. This new turning machine is intended for bar turning operations on workpieces up to 32mm in diameter: Sigma 32.

It has inherited the successful kinematics of the DECO Sigma 20 and delivers all the same benefits, however this machine caters for a broad range of larger diameters. The kinematics comprise two entirely independent and identical tool systems. This enables workpieces of the same complexity to be machined simultaneously in standard and 'back' or 'counter' operation. A wide range of interchangeable tool holders and accessories are available for both operating modes. The Sigma 32 fields an impressive total of 22 different tool positions. This does not in any way make set-up more complex since the pre-configurable tool systems all have quick-change capability and the spacious machining area makes this a very comfortable operation to perform.

In terms of programming, the Swiss manufacturer offers complete freedom to its customers: they can choose between classic ISO programming code or TB-DECO for the truly uncompromising!

Sigma 32 was conceived with strength in mind. In particular, the generously proportioned cast iron frame, verified using the finite element method (FEM) creates a perfect, solid base on which spindles can be mounted. These also have substantial dimensions. Sigma 32 was clearly designed with the aim of performing demanding operations, even with the toughest of materials. The machining area and its spray-cooling or system is designed for optimum swarf removal, even when working on large workpieces which generate substantial volumes of swarf.

Sigma 32 will be available for delivery from the end of 2007.

Technical characteristics

Bar travel: 32mm
Max. speed of spindle and counter-spindle (aka 'back spindle'): 8000 rpm
Power of spindle and counter-spindle: 3.7/5.5 kW
Position of tools: 22
Cross section of tools: 16 x 16
Max. rotating tools: 16
Number of linear axes: 6

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