

Press Release

Wernau, July 2009

MORI SEIKI with New Highlights at the EMO 2009

***Compact and Flexible Machine Tools for Complete Machining
in Hall 4***

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Mori Seiki will also participate this year in the EMO 2009, the world exhibition for machine tools, in Milan from 5th – 10th October 2009. On around 1 200 sqm exhibiting space the Japanese manufacturer will present a selection of highlights of compact and flexible machine tools from its product portfolio.

Additionally, the new control generation MAPPS IV will be presented. The new control has an impressive 19" TFT screen, PC keyboard and Core Duo Processor. Even better operability is achieved through programmable soft keys and enhanced screen functions. Depending on the model, the
20 MAPPS IV control also will be delivered with an additional integrated CAM module from ESPRIT.

11 technical highlights will be presented at Mori Seiki's EMO booth. Here is a short introduction of two of the innovative products that will be on display:

NT 1000

***New Compact High-precision, High-efficiency Integrated Mill Turn
Centre Joins NT Series Line-up***

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The NT1000 is ideal for complete machining of complex mill turn workpieces with a maximum bar feed diameter of 52mm.

Workpieces with a maximal turning diameter of 370mm and 400mm length can be machined. Just like the larger machines from the successful NT series, the essential original technologies from MORI SEIKI are also integrated in this machine concept. The B axis with zero backlash and Direct Drive Motor (DDM[®]) and the Octagonal-Ram-Construction (ORC[™]) ensure extreme rigidity in the Y axis. Through constructive measures, Mori Seiki has been successful in keeping the Spindle 1 thermally stable at the
40 centre. Both Spindle 1 and the tool spindle use a high-accuracy cooling system to keep thermal displacement to a minimum.

With these features the NT1000 stands for high precision machining of small and complex workpieces. Through the integration of a “work support”, which has the additional function of a workpiece ejector as standard, instead of a sub-spindle, complete machining from bar stock to finished flange parts can be carried out as standard.

The NT1000 is available in three variations: the NT1000/W (with work support), the NT1000/WZ (with work support + turret 2) and the
50 NT1000/WZM (with work support and turret 2 (with milling function)).

This machine is equipped with the new MAPPS IV controls generation from MORI SEIKI as standard.

NMV 3000DCG

The New Compact 5-Axis Mill Turn Machine

The new NMV 3000 DCG from MORI SEIKI is an impressive compact
60 machine with a large travel (X-/Y-Z-axes 500/350/510mm). An exceptional feature on this machine is the C-axis for integrated lathe operations, which along with the standard 150min⁻¹, is also available with 2.000min⁻¹ rotations as an option. The Octagonal-Ram-Construction (ORC[™]) ensures the highest precision and speed at the Z-axis. The MORI SEIKI DCG[®] Technology (Driven at the Centre of Gravity) allows for

better vibration control and improved acceleration. Additionally, the NMV3000 DCG comes with a Direct Drive Motor (DDM[®]) in the B and C-axis for better dynamics and precision. In order to meet various machining requirements, the NMV3000 DCG comes in various spindle systems up to 40.000min⁻¹.

With this machine MORI SEIKI also offers automation solutions from one source with space saving pallet storage system for various pallet sizes.

This machine is equipped with the new MAPPS IV controls generation from MORI SEIKI as standard. Especially interesting is the programming of complex surfaces that comes as standard in the integrated CAM module from Esprit.

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NT 1000/W exterior view with new MAPPS IV control

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NT 1000 machining



NMV 3000DCG exterior view with new MAPPS IV control

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