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Press Release

March 25, 2013

DMG/Mori Seiki Machines to be Exhibited in Enormous Booth at CIMT 2013

Mori Seiki will participate in **CIMT 2013** which will be held for six days from April 22 (Mon.) to April 27 (Sat.) in Beijing, China.

As we plan on integrating the sales and service activities of Mori Seiki and DMG in China, we will for the first time establish the joint exhibition booth in the country, in which 33 models will be on the show, and all of them will perform machining demonstration with the theme of "Cooperation sustains innovation." Of all exhibition booths, ours is the largest with an area of 1,826 m², and we expect you to eyewitness the perfect solutions achieved by advanced technologies.

In the exhibition, seven DMG 5-axis machining centers that are combined with diverse technologies of the turning functions and pallet changers will be displayed and present how the process integration and automation technologies honed in the European market are able to improve productivity. The next-generation compact machining center, the MILLTAP 700, will give a high-speed machining demonstration, and the DMF 260, a large machining center with the X-axis travel of 2,600 mm suitable for long workpieces, will also be put on the exhibition.

We will display not only lathes and machining centers, but also ultrasonic machines and laser machines, and introduce latest machining examples for various industries including the automobile, aircraft, construction machinery, medical equipment, die and mold, and energy industries to meet a variety of customers' needs.

In China the Tianjin Plant is scheduled to start its operation in September, and the NHC4000, a horizontal machining center which will be manufactured at the plant, will make its debut in the world at **CIMT 2013**.

Besides the machine exhibition area, we will set up some attractive sections inside the booth, where visitors can take a look at many helpful peripheral devices and software and try out our on-line learning system, Education On Demand, to experience an exciting machine operation on PC.

We are looking forward to seeing you at the event.

Date and Time	April 22, 2013 (Mon) to April 27, 2013 (Sat) 9:00~17:00
Location	China International Exhibition Center (New Venue) Hall E2 Booth No.101
Booth Area	1,826 m ²
CIMT 2013 Official Website	http://www.cimtshow.com/enshow.shtml

<NHC4000>

The NHC4000 is a high-speed, high-precision horizontal machining center with a pallet size of 400 x 400 mm. The machine will make its debut in the world at **CIMT 2013**, and will be manufactured at the Tianjin Plant that is scheduled to start its operation in September 2013. The machine handles a wide range of machining from heavy-duty cutting to high-speed cutting using its high-rigidity structure and high-speed feed with a rapid traverse rate of 60 m/min. In the demonstration, the NHC4000 equipped with the direct drive motor will perform high-speed and high-efficiency machining with the B-axis pallet for high-speed indexing and high-speed feed.

<NLX4000AY/750>

The NLX4000 is the largest CNC lathe of all the NLX series lathes, which is equipped with slideways with the widest width in its class and a robust machine structure. The machine employs the BMT® (Built-in Motor Turret) to minimize heat and vibration, improving the cutting capability and accuracy. The rotary tool spindle with a maximum torque of 100 Nm enables heavy-duty milling comparable to machining centers. The machine achieves high rigidity that makes possible high-efficiency machining of large-diameter workpieces with the best proportion of machining volume to installation area in the class.

<DMU 125 monoBLOCK®>

The DMU 125 monoBLOCK is a large 5-axis machining center with a table size of $\phi 1,600$ mm, which is capable of machining workpieces with a weight of up to 2,600 kg. The machine ensures high stability and rigidity by employing large roller guides and a ball screw drive. The swivel rotary table and the high-torque spindle with a torque of up to 430 Nm reduces setup time and handles a broad range of machining including machining of large, difficult-to-cut workpieces.

<DMC 60 H *linear*>

The DMC 60 H *linear* is a high-speed, high-precision horizontal machining center designed for machining automobile engines and power train components. The most distinctive features of this machine are linear drives and 5-axis machining by means of the swivel rotary table. The swivel rotary table, which can handle workpieces of up to $\phi 800 \times 800$ mm and has a maximum negative angle of -20° , allows machining of complex-shaped parts in one chucking. Equipped with linear drives, the DMC 60 H *linear* achieves a rapid traverse rate of 100 m/min and an acceleration of 1 G, significantly reducing setup time and machining lead time, thereby dramatically improving productivity. The machine also ensures positioning accuracy of 4 μm

or less and repeatability of 6 μm or less.

<ULTRASONIC 20 *linear* >

The ULTRASONIC 20 *linear* is a compact machine with a footprint of only 3.5 m² and provides both ultrasonic machining and 5-axis milling on one machine. Employing a 42,000 min⁻¹ high-speed spindle and linear drives with an acceleration of more than 2G on the X, Y and Z axes, the machine offers high-speed and high-efficiency machining. The ULTRASONIC 20 *linear* is suitable for many types of materials from hard materials to advanced materials, and achieves an excellent surface finish of Ra 0.1 μm^{*1} or less.

<Display Models> **: World Premiere (world debut), *: China Premiere (China debut)

5-axis machining center	DMU 50 (produced in Shanghai)	**
	DMU 65 monoBLOCK®	
	DMU 125 monoBLOCK®	*
	DMU 80 FD evo <i>linear</i>	
	DMC 125 FD duoBLOCK®	
	DMC 60 H <i>linear</i>	*
	DMF 260	
	DIXI 210	*
Vertical machining center	MILLTAP 700 with automation	
	NVX5080 II /40 with automation	
	DMU 50 <i>ecoline</i>	
	DMC 1035 V <i>ecoline</i>	
Horizontal machining center	NHC4000	**
	NHX4000 with Siemens	*
	NHX5500	
	NHX8000	*
CNC lathe	CTX gamma 3000 TC	*
	SPRINT 50	*
	GMC 20	
	NLX4000AY/750	*
	NLX2500SY/700 with automation	
	CTX 310 <i>ecoline</i> V3	
	CTX 510 <i>ecoline</i> V4	
Multi-axis machine	NTX1000/SZM HSC	
	CTX beta 1250 TC 4A	
	NZX1500/800SY2 with bar loader	
Ultrasonic machine	ULTRASONIC 20 <i>linear</i>	
Laser machine	LASERTEC 20 PrecisionTool	*
Vertical grinding machine	Vertical Mate® 55	*
Tool presetter	DMG/MORI SEIKI Equator	
	VIO 210 MV II IT	
	UNO 115 <i>ecoline</i>	
	VIO <i>linear</i> toolshrink	



Fig.1 DMG / MORI SEIKI booth

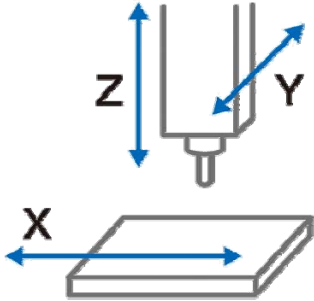


Photo 1. MILLTAP 700

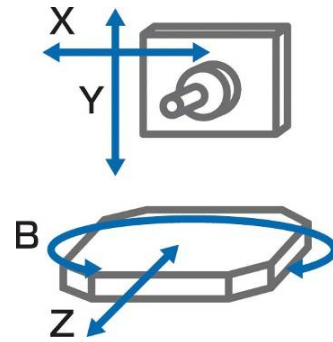


Photo 2. NHC4000

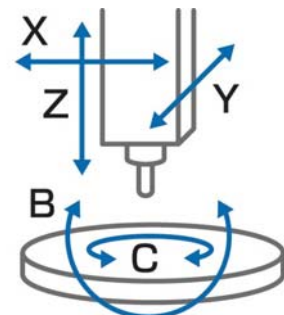


Photo 3. DMU 50

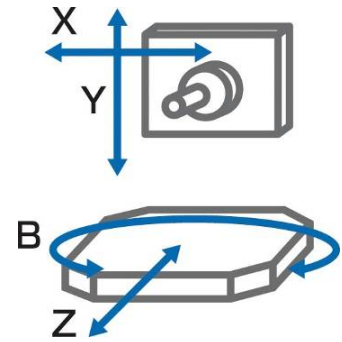


Photo 4. NHX8000

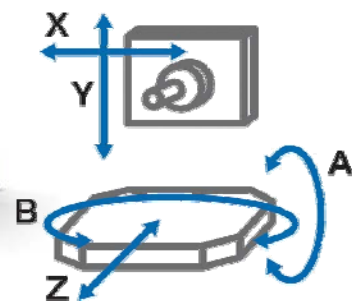


Photo 5. DMC 60 H linear

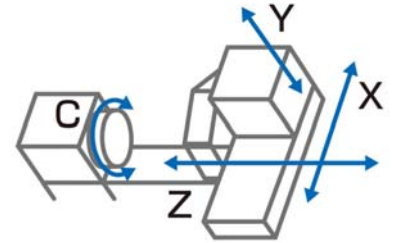


Photo 6. NLX4000AY/750



Photo 7. Heavy-duty cutting with a high-torque rotary tool spindle

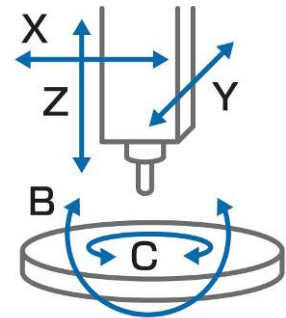


Photo 8. ULTRASONIC 20 *linear*

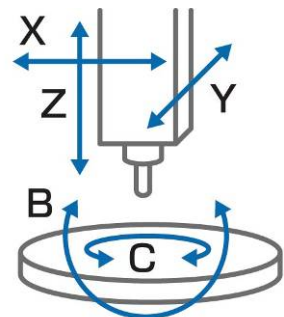


Photo 9. DMU 80 FD eVo *linear*

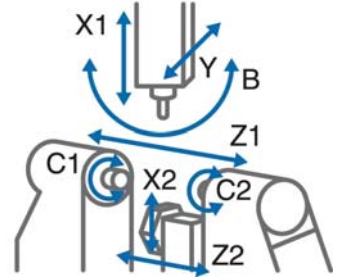


Photo 10. NTX1000 HSC/SZM



Photo 11. Machining of artificial bones
(NTX1000 HSC/SZM)