

Press Release

May 7, 2013

Mori Seiki to Hold Innovation Days 2013

Mori Seiki will host Innovation Days 2013 at its Iga Campus from May 23 (Thu.) to 25 (Sat.). The Iga Campus, located in Iga City, Mie prefecture, is Mori Seiki's main plant and manufactures medium to large machines and key components such as spindles, ball screws and casting parts. Currently the Iga Campus manufactures the NT/NTX integrated mill turn centers which used to be produced at the company's Chiba Campus, expanding its production range.

At the three-day event, 66 machines including two world premieres will be exhibited and many cutting demonstrations will be presented with a focus on maximizing productivity.

From the 5-axis/multi-axis machine range, 16 models will be on display, nine of which are 5-axis machining centers from GILDEMEISTER. With these machines, we will propose effective process integration and high-efficiency 5-axis/multi-axis machining solutions that capitalize on advanced machining technologies. Other highlights of the event include the displays of lathes, machining centers, ultrasonic and laser machines and the latest machining examples from the automotive, aircraft, construction machinery, medical equipment, die & mold and energy sectors.

In the industry-focused section, the space will be organized into three categories by industry: automotive, aircraft and die & mold, to provide industry-specific display and demonstrations. We will also set up an exhibition section specialized for No. 30 taper machining centers with the aim of meeting ever-increasing demand for No. 30 taper machines and offering a wide range of applications for greater efficiency.

Besides the machine display, industry-specific seminars and factory tours will be offered every day. Attendees of the daily factory tours will visit the Bed/Column Precise Processing Plant, a state-of-the-art facility where temperature variations are strictly controlled to within $\pm 0.5^{\circ}\text{C}$ throughout the year, and the No. 2 Assembly Plant for manufacturing integrated mill turn centers, along with the No. 1 Assembly Plant and the Machining Plant.

A great many visitors are expected to attend Innovation Day 2013. Free shuttle busses from JR Nagoya Station and JR Shin-Osaka Station to the Iga Campus will be available during the event.

We look forward to meeting you at the exhibition.

Date	May 23 (Thu.) - 25 (Sat.), 2013 10:00 - 17:00
Place	Mori Seiki Co. Ltd. Iga Campus 201 Midai, Iga City, Mie 519-1414, Japan TEL: +81-(0)595-45-4151 <Access by car> Exit at Midai IC on Route 25 (Meihan National Route) It takes about an hour from Nagoya, and about two hours from Osaka.

The following are the highlights of the machines to be exhibited at Innovation Days 2013.

<MILLTAP 700>

The next-generation compact machining center MILLTAP 700 will be exhibited in the No.30 machining center section. With 20 MILLTAP machines on display, Mori Seiki will showcase not only the machine itself, but also superb four-axis machining utilizing the DDRT-200X rotary table and robotic automation solutions for parts machining. Featuring a 25 kW high-output spindle, the MILLTAP 700 achieves 60% higher machining capability, delivering the best milling performance in both 4-axis machining and line production.

<MAX3000>

The MAX3000 is a No. 30 taper machining center ideal for small automotive parts. Mori Seiki will unveil the MAX3000 at Iga Innovation Days. The distinctive features of this machine are outstanding space saving and high-speed machining. The machine has reduced floor space by 22% compared to the existing model, allowing easy expansion of production lines by connecting two or more machines. With a rapid traverse rate of 62 m/min and pallet change time of 2.0 sec., the MAX3000 reduces setup times and cycle times, thereby dramatically increasing productivity.

<DMU 65 FD monoBLOCK[®]>

The DMU 65 FD monoBLOCK[®] is a multi-tasking machine that combines 5-axis milling and turning. The machine is equipped with the spindle with a maximum spindle speed of 18,000 min⁻¹ and the turning table with a rotational speed of 1,200 min⁻¹ as standard. It offers tilted turning that utilizes the 5-axis function, and can complete the whole machining process in one setup and on one machine while maintaining excellent stability achieved by its robust construction and large bearings and ball screws.

<LASERTEC 65 Shape>

The LASERTEC 65 Shape is an ideal solution for die and mold making. It can handle the entire machining process from cutting to laser surface finishing by combining 5-axis milling with the laser machining technology. Laser surface texturing on complex dies and molds can also be performed in one setup. Laser surface texturing enables users to create a wide range of patterns with greater accuracy and in shorter time than conventional etching. It also allows recreation of the same patterns. Unlike etching, laser surface texturing is an environmentally friendly machining method as it uses no chemicals.

<NLX4000AY/750>

The NLX4000 is the largest model in the NLX series of CNC lathes. The widest slideways in its class and the robust construction ensure stable turning. The machine employs the Built-in Motor Turret (BMT) to minimize heat and vibration, improving machining capability and accuracy. The rotary tool spindle with a maximum torque of 100 Nm allows the CNC lathe to offer heavy-duty milling equivalent to that of a machining center. Additionally, the machine boasts the highest ratio of machining volume to installation area in its class while achieving high rigidity that is necessary for high-efficiency machining of large-diameter workpieces.

<NVX5000 II series>

Mori Seiki will showcase three NVX5000 II models with different table sizes to present the machines' capability of handling a variety of workpieces. The vertical machining center employs slideways on all axes and a large inner diameter bearing in the spindle to ensure high rigidity. During the event, the NVX5100 II/40 featuring the ZEROCHIP[®] will demonstrate the excellent performance of the ZEROCHIP[®], a device that sucks and collects a large amount of harmful dust generated during machining of graphite and CFRP from the tool tip. It dramatically reduces time spent cleaning inside the machine, contributing to cost saving.

<Display Machines> * indicates new models

5-axis machine	DMU 50	DMU 80 eVo <i>inear</i>
	DMU 70	DMU 125 P duoBLOCK®
	DMU 65FD monoBLOCK®	HSC 20 <i>linear</i>
	DMU 85 monoBLOCK®	HSC 55 <i>linear</i>
	DMC 60 H <i>inear</i>	DMF 500 <i>linear</i>
Vertical machining center	MILLTAP 700	MILLTAP 700 (with DDRT rotary table)
	MILLTAP 700 (with robot)	DMC 635 V <i>ecoline</i>
	NVX5060 II /40	NVX5080 II /40
	NVX5100 II /50	NVX5100 II /40 (with ZEROCHIP)
	MAX3000	*
Horizontal machining center	NHX4000	NHX5000
	NHX5500	NHX6300
	NHX10000 with 6CPP	
CNC lathe	CTX 310 <i>ecoline</i> V1	CTX 310 <i>ecoline</i> V3
	NLX1500SY/500	NLX2000SY/500
	NLX2000Y/500	NLX2500SY/700 (with loader)
	NLX2500SY/700	NLX2500Y/1250
	NLX4000AY/750	NL3000Y/2000
	SPRINT 42 10 <i>linear</i>	NVL1350MC
Multi-axis machine	NTX1000/SZM	NTX2000/1500SZ
	NZX-S1500/500	NZX2000STY3
	NZX-S2500	* NZX2500Y/600
	NZX4000CY/2000	
Laser machine	LASERTEC 65 Shape	
Ultrasonic machine	ULTRASONIC 55 <i>linear</i>	
Vertical grinding machine	Vertical Mate® 85	

<Access to Iga Campus>



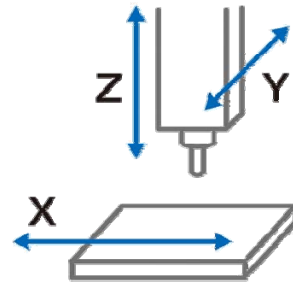


Photo 1. MILLTAP 700



Photo 2. Machining of steel
(MILLTAP 700)

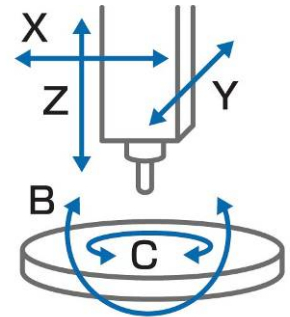


Photo 3. DMU 50

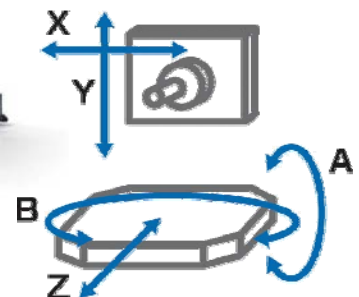


Photo 4. DMC 60 H linear

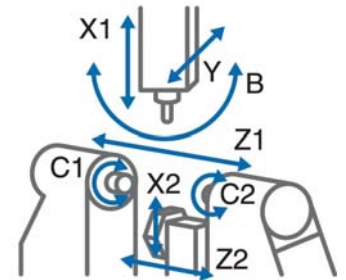


Photo 5. NTX1000/SZM

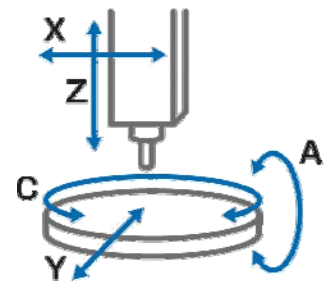


Photo 6. HSC 55 linear



Photo 7. LASERTEC 65 Shape



Photo 8. NLX4000AY/750

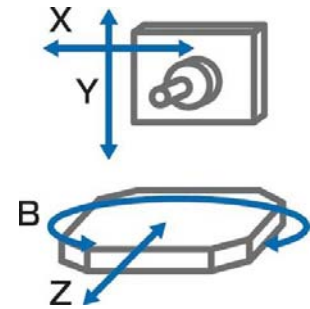


Photo 9. NHX5500

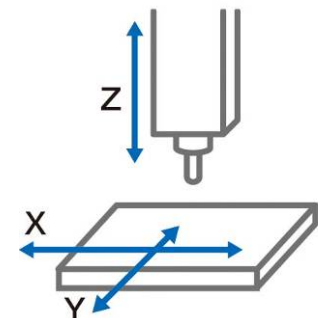


Photo 10. NVX5080 II/40

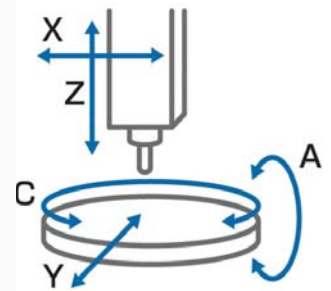


Photo 11. HSC 20 *linear*



Photo 12. Machining of bone plate
(HSC 20 *linear*)