

Press Release

August 4, 2015

DMG MORI Focuses More On System Solutions for Chinese Market – Tianjin Plant Employs Robot Automation System

DMG MORI CO., LTD (hereinafter called DMG MORI) has introduced the robot automation system for a horizontal machining center NHC 6300 as its own production equipment at the Tianjin Plant, and it will be open to public at the Tianjin Open House to be held during August 4 (Tue) to August 7 (Fri).

In recent years, the labor and logistics costs have been soaring in China. To meet the growing demand of high-productivity, worthy of investment products in the country, DMG MORI provides the customers with advanced system solutions that consist not only of a machine body but a combination of a machine and an automation system. The robot automation system for NHC 6300 introduced at the Tianjin Plant can achieve 24-hour operation and manpower saving, leading to high profitability and investment effects.

At the Tianjin plant, we continue to improve our production efficiency rate through automation. In addition to the robot automation system for NHC 6300, the LPP (Linear Pallet Pool) system for NHX 10000 and a large, cutting-edge 5-axis machine DMC 340U with the pallet changer can be also observed at the open house as part of our production equipment.

DMG MORI offers the total solution that includes from provision of best machines suited for customers' workpieces to verification of the installation effect and after sales service.

<Horizontal Machining Center NHC 6300>

The NHC 6300 is a horizontal machining center dedicated to a No. 50 taper spindle, which has been developed to achieve high-rigidity and high-speed machining, targeted for the expanding Chinese market. The model made its world premiere at CIMT2015 held in April and is mainly employed by customers in the automotive industry. We started the machine production at the Tianjin Plant, making every effort for reduction in delivery time and logistics costs and for risk distribution of exchange fluctuations.

The NHC 6300 was designed with a concept of "capable of powerful heavy-duty cutting on a machine," featuring a robust and high-rigidity bed. The rigid construction minimizes vibrations generated during machining, which enables stable heavy-duty cutting. The No. 50 taper spindle suited to heavy-duty cutting was optimized by a structural analysis. The enlarged spindle bearing I.D. allows for high rigidity, and reduced spindle O.D. leads to improved access to workpieces and fixtures.

What's more, an oil jacket spirally arranged around the spindle motor stator and bearing effectively controls temperature increase, ensuring high-precision machining. The model boasts the sophisticated new cover design and good access to the machining area and setup station. For easy maintenance, the hydraulic and other units are placed at an easy-to-access area all together.

■ Main specifications

Item		NHC 6300
Axis travel (X/Y/Z-axis)	(mm)	1,050/900/1,030
Pallet size	(mm)	630 × 630
Max. pallet loading capacity	(kg)	1,500
Max. workpiece size	(mm)	φ 1,050 × 1,300
Max. spindle speed	(min ⁻¹)	8,000 [8,000 (high torque spec.)] [15,000 (high-speed spec.)]
Rapid traverse rate (X/Y/Z-axis)	(m/min)	60/60/60
Spindle drive motor (8,000 min ⁻¹)	(kW)	30/25 (30 min./continuous)
Tool storage capacity	(tool)	Wheel type: 60 Chain type: [100][120], Rack type: [180][240][330]
Machine height (from floor)	(mm)	3,228
Footprint (width × depth)	(mm)	3,930 × 5,827

[] Option



NHC 6300