

Press Release

December 19, 2007

The DuraTurn CNC Lathe is Equipped with a Built-in Motor Turret for High-Efficiency Milling

We start accepting orders for the DuraTurn 2050MC, DuraTurn 2550MC

Mori Seiki have added a milling function to our DuraTurn Series of CNC lathes by installing a **BMT (Built-in Motor Turret)**. From December 19, 2007 we started accepting orders for our new models, **the DuraTurn 2050MC and the DuraTurn 2550MC.**

The DuraTurn Series was developed with a "Simple yet sturdy" structure which was demanded by many customers. We have achieved the ideal combination of performance and price, and thanks to its **reliability** and **affordability** about 600 units have been ordered since it was released in June 2006 (as of November 2007). From December 3 we installed our MAPPS high-performance operating system to **make it even easier to use.**

With the DuraTurn Series, many customers told us, "We want to do not only turning, but milling as well." In response to these requests, we have added our original BMT technology. BMT offers **machining ability and accuracy which overturns conventional wisdom about milling with lathes,** and has been highly praised in our NL Series of CNC lathes, which boasts orders of 8,000 units.

By installing BMT in the DuraTurn Series, we have preserved the Series' earlier features while adding new value in the form of **superior milling ability.** This allows not only turning, but also a wide range of other types of machining such as tapping and drilling, contributing to **even greater productivity** for our customers.

■ What is BMT?

By placing the motor inside the turret, the drive power is transmitted directly, **offering greater transmission efficiency** than conventional drive systems (belts, gears, etc.), and **vibration in the turret is controlled.** Also, the oil jacket cooling system controls increases in the turret temperature to less than 1/10 that of conventional models.

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Type	CNC lathe
Models	DuraTurn 2050MC DuraTurn 2550MC
Market	Automobile parts machining, etc.
Orders start	December 19, 2007
Production	20 units/month

Major Specifications

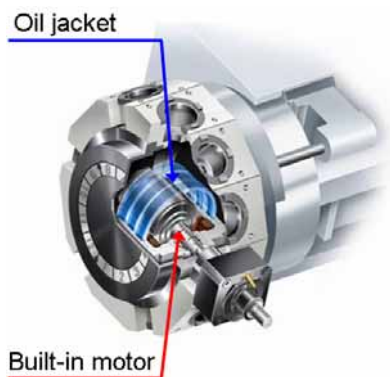
	DuraTurn 2050MC	DuraTurn 2550MC
Max. turning diameter	φ340 mm	
Max. turning length	436 mm	
Axis travel (X/Z)	215/570 mm	
Max. spindle speed	4,000 min ⁻¹	3,000 min ⁻¹
Rotary tool spindle speed	6,000 min ⁻¹	
Rapid traverse rate (X/Z)	24,000/24,000 mm/min	
Number of tool stations	12	
Spindle drive motor	13.5/13.5/11 kW (5 min./30 min./cont.)	26/19.5 kW (30 min./cont.)
Rotary tool spindle drive motor	5.5/5.5/3.7 kW (15%/25%/cont.)	5.5/5.5/3.7 kW (15%/25%/cont.)
Machine size (width x depth x height)	2,200 x 1,793 x 1,832 mm	2,375 x 1,793 x 1,832 mm
Mass of machine	4,100 kg	4,250 kg



DuraTurn 2550MC



Turret with milling function



BMT structure