

## Press Release

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June 18, 2008

### We will start receiving orders for the Direct-Drive-Motor-equipped Rotary Table “DDRT-260”

Mori Seiki has enabled to install the high-speed, high-precision rotary table with the DDM (Direct Drive Motor) in all vertical machine centers to achieve high-efficiency machining using 4 axes, and process integration through indexing with high-speed, high-precision.

The DDRT (Direct Drive Rotary Table) is equipped with the DDM instead of worm gears. The DDM offers high-speed feed by transmitting the drive power directly without using gears, so it achieves zero backlash. As a result, surface quality for curved machining has dramatically improved. Also, its transmission efficiency has improved immensely so the power consumption of the motor will contribute to reducing energy. Since there are fewer drive parts to wear out in the rotating part, such as gears, no maintenance is required.

The DDRT-260 has a table diameter of 260 mm, and uses a  $\phi 200$  mm sized large-diameter cross roller bearing and high-resolution encoder. Its maximum table rotational speed is 150 min<sup>-1</sup> and positioning accuracy is 4 seconds (actual results based on ISO230-2) which enables high-speed, high-precision indexing.

The DDRT will continue to expand into a full line-up of the series, with various types of table diameters of 200 mm, 300 mm, and 400 mm.

The DDRT-260 will be installed into the DuraVertical 5100, which will be shown at the Early Summer Productivity Show 2008 held at the Iga Campus. As for reference, various types with table diameters of 200 mm, 300 mm, and 400 mm will also be shown. Please come to the show and see the superb drive performance and high-efficiency machining with the DDRT.

※DDM is a trademark or registered trademark of Mori Seiki Co., Ltd. in Japan, USA and other countries.

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Type	Rotary Table
Model	DDRT-260
Market	General parts machining, etc
Orders start	June 19, 2008
Production	30 units/month

### ■Major Specifications

	DDRT-260
Table diameter	260 mm
Dimensions (height x width x depth)	315×431×322 mm
Center height	160 mm
Nose hole diameter	75 mm
Maximum table rotational speed	150 min <sup>-1</sup>
Clamp System	Pneumatic
Clamp torque (0.5 MPa)	1000 N·m
Positioning accuracy	5 seconds
Horizontal load	350kg
Vertical load	150 kg
Mass of machine	155 kg



Figure 1. Exterior (DDRT-260)