

Press Release

August 5, 2009

Start Accepting Orders for DDRT Full Lineup !

Mori Seiki Co., Ltd. introduces an additional lineup of **high-speed, high-precision, rotary table DDRT (Direct Drive Rotary Table)** including DDRT-200 with 200 mm table diameter, DDRT-300 with 300 mm table diameter, and DDRT-400 with 400 mm table diameter. Collectively with the DDRT-260 (260 mm table diameter), which began accepting orders in June 2008, Mori Seiki provides a full lineup with four total models.

The DDRT is equipped with the DDM (Direct Drive Motor)^{*1} 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. The transmission efficiency has improved immensely so the power consumption of the motor reduces to 30%^{*2} of the conventional gear drive system, greatly contributing to **energy saving**. Since there are fewer drive and rotating parts that can wear out, such as gears, it requires **less maintenance**.

Additionally, the cable used to get damaged by cutting chips because the cable connecting the machine and the rotary table was located inside of machine. As an improvement to our vertical machining center interface, we achieved an **in-machine cable-less connection**.

From the extensive lineup, customers can choose DDRTs with high reliability based on their workpiece size needs.

Mori Seiki will continue to enhance and introduce a wide range of products in order to meet each and every customer's production requirements.

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

*2 Test cycle for DDRT-260: 90° rotation, 3 seconds dwell

Type	Rotary Table
Model	DDRT-200、DDRT-260、DDRT-300、DDRT-400
Order Start	August 5, 2009
Production	20 units/month

■ Main Specification

		DDRT-200	DDRT-260	DDRT-300	DDRT-400
Table diameter	mm	200	260	300	400
Size (height x width x depth)	mm	280 x 405 x 343	315 x 441 x 331	335 x 441 x 401	455 x 578 x 476
Through hole diameter	mm	50	50	50	110
Rotational speed of the table	min ⁻¹	250	150	120	80
Clamp system		Air	Air	Air	Air
Positioning accuracy	sec.	5	5	5	5
Unit mass	kg	120	155	200	460



Fig 1. Machining Example (Water Pump)