Press Release

July 16, 2009

The birth of MAPPS IV,
the new high-performance operating system

Mori Seiki Co., Ltd. has developed the forth-generation of MAPPS, the high-performance operating system **MAPPS IV**.

MAPPS is Mori Seiki's original high-performance operating system that allows customers to use a common operating method, regardless of model. It has been supporting machining processes of customers worldwide with its easy-to-use interface and automatic conversational programming function.

In recent years, workpieces in the manufacturing industry have been becoming more diversified and complicated, and so demand for productivity improvement and highly-advanced machining methods has been growing in the machine tool industry. In order to respond to the demand, our MAPPS IV, which purses ease of use, is equipped with 1. improved hardware and interface, 2. ESPRIT CAM software as standard specifications (for some machine models), 3. enhanced machining and operating support functions. The main features are as follows:

1. Improved user-intuitive hardware and interface

MAPPS IV has a display with excellent visibility, an easy-to-use keyboard and improved hardware to offer better operability.

- Screen size: 10.4-inch display or **large 19-inch display**.
- **Vertical Soft-keys** can be used as option buttons or shortcut keys to quickly display the information users like to view.
- **PC type keyboard** is available as standard. Just like using personal computers, users can enter data easily.
- Improved hardware offers faster application response times.
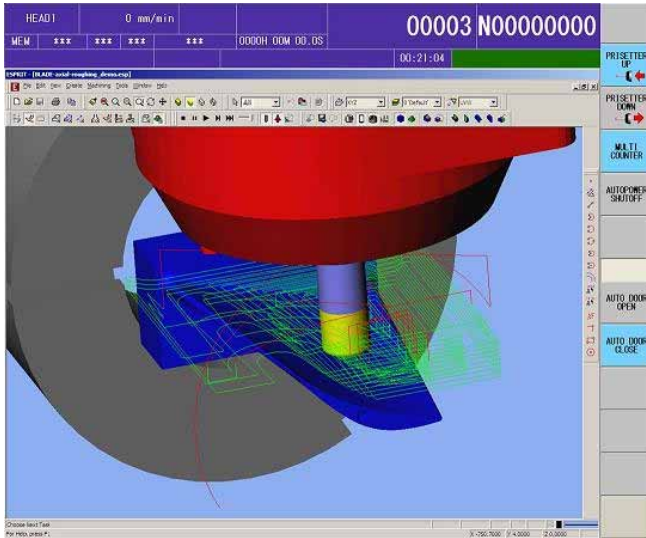

MAPPS IV with a 19-inch display

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2. ESPRIT CAM software as standard feature

The **ESPRIT CAM software** developed by DP Technology Corp. is installed as standard on certain machine models. This allows programming of complex-shaped workpieces with high added value.
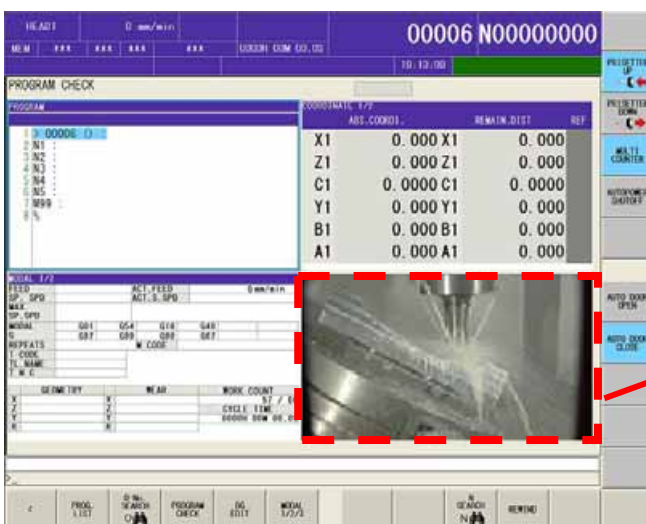
<Advantages of integration of ESPRIT on MAPPS IV>
- Two-year warranty support after machine purchase
- Post processors are available for each individual machine*
  (* A post processor is software which converts tool path data created using CAM into NC programs and then output them.)

ESPRIT CAM Software

3. Enhanced functionality to provide comprehensive support for machining and operation

MAPPS IV has various new functions designed to make setup and operation quicker and easier, achieving shorter programming, setup and machine down times. The main functions are as follows:

- **Internal/external cameras (option):** By installing cameras inside and outside the machine, the operator can monitor the machining status and check chip accumulation. Cameras can be installed at customers' desired locations (e.g. machining area, tool magazine, etc.).
- **File display and Memo function:** Tool data, drawing data and setup procedures, etc. can be viewed on the MAPPS screen.
- **Manual display function:** As electronic manuals are stored in MAPPS, operators can view the manuals on the screen.
- **Screen list function:** This function enables operators to jump to their desired or frequently-used screens registered in the list.
- **Troubleshooting function:** When an alarm occurs, MAPPS identifies the cause of the problem and provides an appropriate solution.

Internal/external camera

Note: ESPRIT and 19-inch screen are available only for certain machine models.