

M850V SERIES CNC CONTROL

HIGH QUALITY MACHINE PERFORMANCE WITH SMOOTHER SURFACE FINISHES AND BETTER CYCLE TIMES



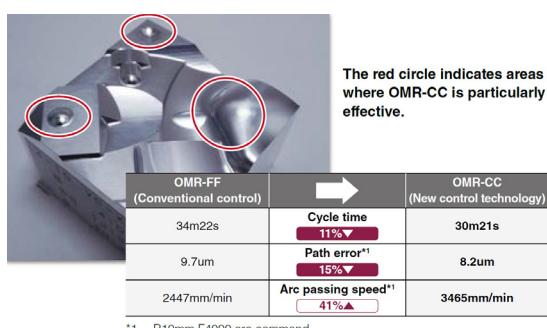
- G54.4 Workpiece Installation Error Compensation
- G43.4 Tool Center Point Control
- G68.2 Inclined Surface Machining Command
- 3-Dimensional Tool Radius Compensation
- Standard 4MB of memory
- Fine Program Segment Processing Capacity



KEY FEATURES

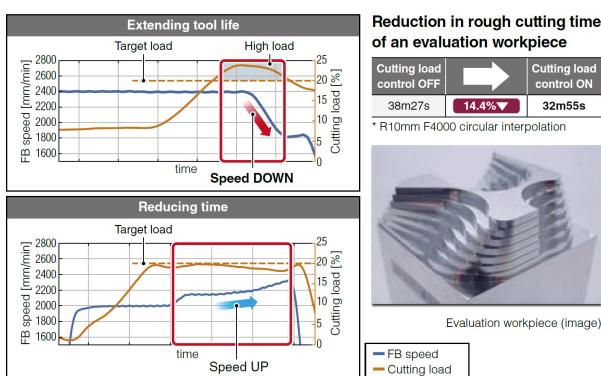
OMR-CC (Optimum Machine Response – Contour Control)

Cycle time is reduced without compromising accuracy by outputting movement commands considering position error resulting from servo response delay.



Spline Interpolation 2

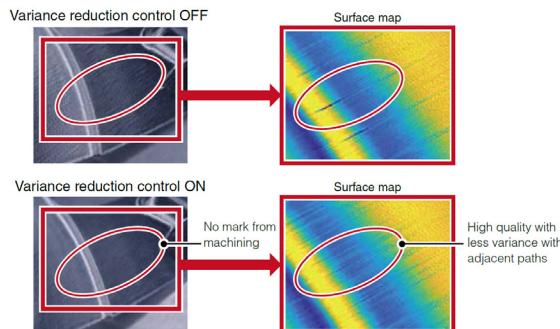
This function solves the problem of uneven (marked) surfaces resulting from the variance of programmed points that occur when a machine program is generated by a CAM tool, improving machine quality.



KEY FEATURES continued

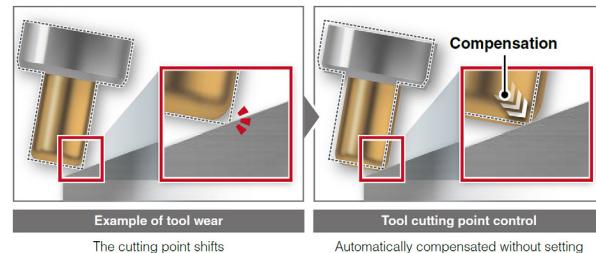
Cutting Load Control

Feedrate is automatically adjusted so that the actual load rate matches the predefined target load rate during machining. The parameters appropriate for the tool and workpiece can be selected from eight parameter groups.



Tool Cutting Point Control

In five-axis machining, it was necessary to modify the machine program as tool wear occurs to keep the cutting point constant. Now tool wear is automatically compensated for by simply setting the tool length and tool shape (tool radius, corner radius).



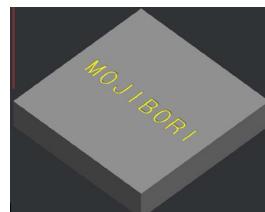
Two-Dimensional Barcode Engraving Cycle

Consecutive drilling according to the cell positions of a QR code from dedicated addresses to specify the size, angle, and depth of holes.



Character Engraving Cycle

Using dedicated G code and format, you can character engrave on flat, curved, or inclined surfaces. Font size and the ability to curve text around an arc are customizable.



High Speed – High Accuracy Mode G05 P20000

Containing the fastest processor in the industry, the M8V Series control aids the industry-leading cycle times. This function is essential for processing large CAM programs as the control must process the point-to-point movement efficiently to generate a smooth surface finish without tool hesitation.

| Control | Blocks/min | Look Ahead | Block Processing Time |
|---------|------------|------------|-----------------------|
| M850V | 540,000 | 5,400 | .1ms |

Download the M8V Catalog



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