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## New CNC system and software for advanced digital production MAZATROL SmoothAi CNC and MAZATROL TWINS

Yamazaki Mazak Corporation has introduced the new CNC system the "MAZATROL SmoothAi" and "MAZATROL TWINS" software.

Currently, the global labor force is declining, and the shortage of skilled employees is becoming more serious in the manufacturing industry. On the other hand, in order to respond flexibly to the diversification of demands, it is necessary to improve the efficiency for machining a wide variety of components in small size lots.

In response to these current demands, we have developed the new "MAZATROL SmoothAi" CNC system and "MAZATROL TWINS" software. They are designed to improve production efficiency by incorporating the latest technologies such as AI, digital twins and integration with automation systems.

The "MAZATROL SmoothAi" CNC system easily generates programs and automatically optimizes cutting conditions utilizing AI technology, and enhances automation assist functions. The "MAZATROL TWINS" software creates virtual models of machine tools in the factory on office PCs and completely synchronizes all data including tool data and various parameters with machine tools in the factory for accurate machine setups on the office virtual models. By utilizing these advanced features, in-production times as well as manpower requirements can be reduced.



New machine models equipped with the new "MAZATROL SmoothAi" CNC system and MAZATROL Twins software were exhibited at the European International Machine Tool Exhibition (EMO Hannover 2019) held in Hanover, Germany this September. Other machine models equipped with the "MAZATROL SmoothAi" CNC system will be available in the near future.

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