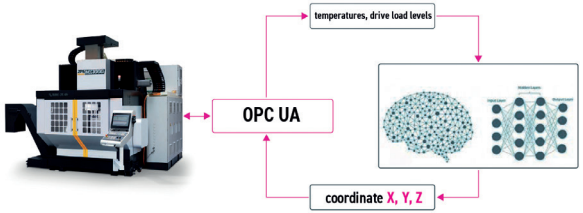
ReCON AI

ReCON AI uses artificial intelligence to compensate for machine thermal expansion, regardless of the type of control system (available only for TAJMAC-ZPS machines).

The system does not require the machine to be placed in an air-conditioned room and allows for continuous learning and improvement of accuracy directly at the customer's site. Installation has low hardware and financial requirements.
Thanks to this technology, we have been able to improve the accuracy of the TAJMAC-ZPS MCV1260i milling center from 0.26 mm to 0.005 mm.



- functional preview

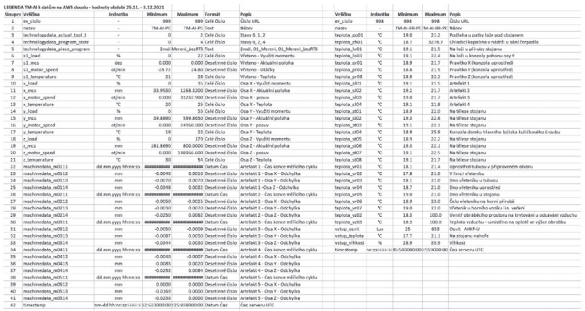


- Comparison with and without the use of ReCON AI

Comparison of the resulting accuracy of the manufactured part with/without compensation

		RMSE (mm)	min (mm)	max (mm)	range of selection (mm)
with compensation	Y	0,006	-0,002	0,027	0,029
	Z	0,004	-0,006	0,017	0,023
without compensation	Y	0,021	-0,012	0,051	0,063
	Z	0,047	-0,06	0	0,06
theoretical/ unloaded	Y	0,003	-0,005	0,011	0,016
	Z	0,005	-0,004	0,010	0,014

- evaluated data



RECON PLATFORM BY TAJMAC-ZPS

OPTIONAL PACKAGE



OPTIONAL PACKAGE

Why ReCON extension modules?

The basic ReCON MES package includes APS for workshop planning, CMMS for preventive maintenance, and REP for reporting, which provide comprehensive tools for effective management and control of production processes.

For those looking for more advanced features, we offer extension modules, such as:

ReCON SQC

- Used for entering in-process corrections into the machine based on the measured piece and also provides statistical quality control, which helps increase production accuracy.

ReCON JOB

- Focuses on effective tool management, including monitoring and controlling tools in the production process.

ReCON ESG

- Evaluates the consumption of electricity and compressed air by the machine and provides reporting at the level of a single manufactured piece, which contributes to consumption optimization and ecological management.

ReCON AI

- Enables compensation for thermal expansion on the machine using artificial intelligence, ensuring stable production quality even when ambient conditions change.

ReCON TWM

- Monitors tool wear during cutting, enabling timely tool replacement and minimizing the risk of production interruptions.

We will gradually introduce these optional modules to you and show you how they can further improve the efficiency and accuracy of your production.