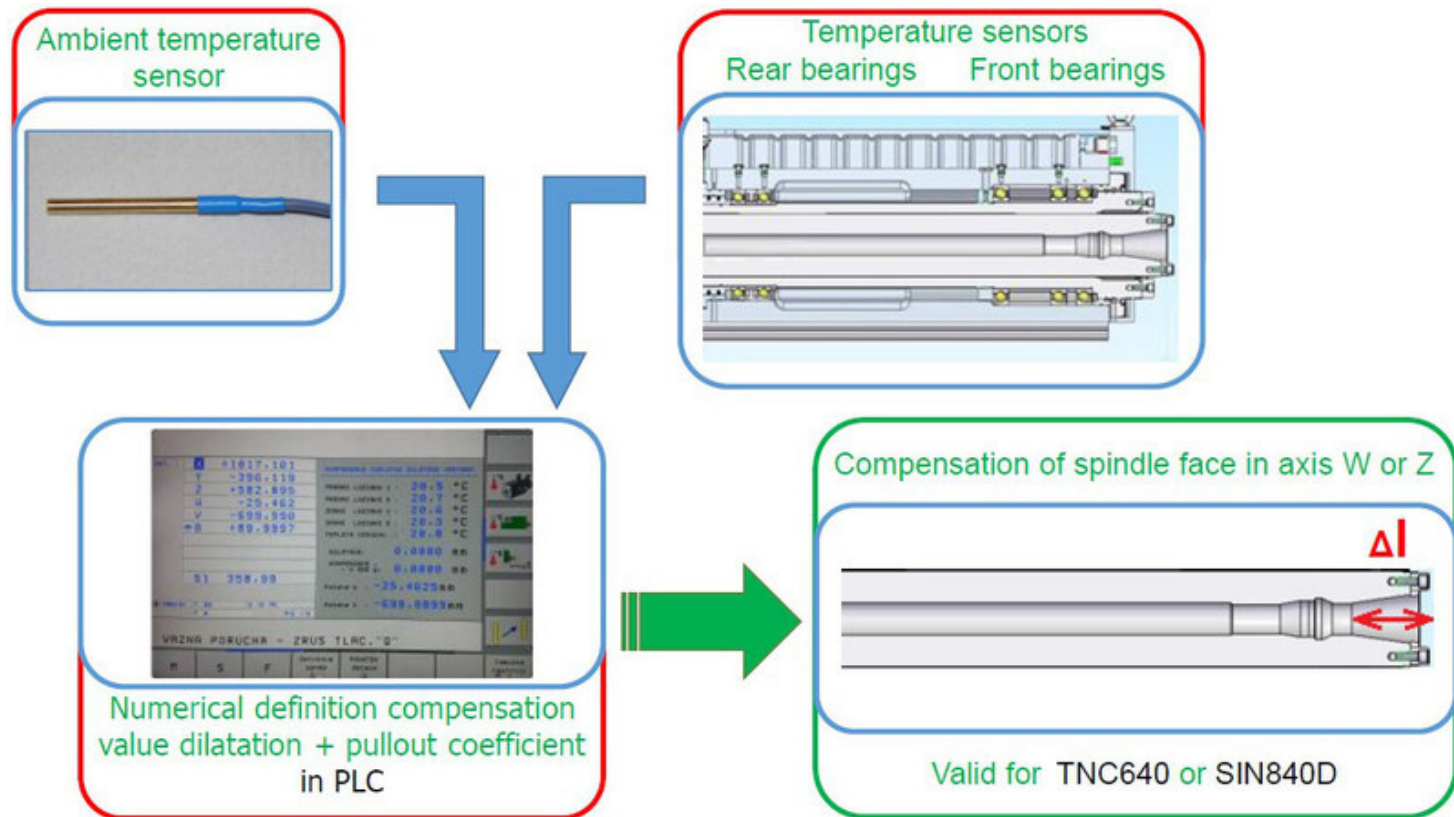


COMPENSAÇÃO TÉRMICA DE SPINDLE



Motivation

Due to thermal expansion of the materials, the spindle extension is caused long-term loading of the machine, which leads to inaccuracies in the direction of the spindle travel (W axis).

Description

This function allows to compensate the thermal dilatation of the working spindle, which is caused by the change of the spindle temperature during long-term operation and the change of the environment temperature. The principle of this function is a numerical solution which, based on the measured values on the temperature sensors, automatically makes corrections by sliding out the working spindle (W axis) or the RAM (V or Z axis) and thus increases the resulting machining accuracy.

Benefits

- Higher workpiece accuracy after machining
- Ensuring long-term machine accuracy
- Ease of usage