

ABSTRACTMACHINE TOOL

A machine tool having a tool which is moveable relatively to the workpiece to be machined along an axis, comprises thermosensors (30A-30D) for sensing temperatures of a plurality of components of the machine tool. Responsive to the sensed temperatures neural networks (42) infer thermal deformations of the machine components, respectively. Based on the inferred values of thermal deformations a correction signal (X4,Y4,Z4) is obtained and then combined with a drive signal (X2,Y2,Z2) for moving the tool to correct an error in positioning in the direction of the axis. Thermal deformations of machine components can be inferred suitably for the circumstances where the machine tool is installed.

This Sheet Has Been Replaced

