

Title (en)

METHOD FOR OPERATING A MACHINE TOOL, AND MACHINE TOOL

Title (de)

VERFAHREN ZUM BETRIEB EINER WERKZEUGMASCHINE UND WERKZEUGMASCHINE

Title (fr)

PROCÉDÉ D'UTILISATION D'UNE MACHINE-OUTIL, ET MACHINE-OUTIL

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Application

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Abstract (en)

[origin: WO2022189224A1] The present invention relates to a method for operating a machine tool. The machine tool comprises a tool, in particular a drill bit, and a motor, the motor being a brushless electric motor. An electronically designed speed ratio is implemented in the machine tool, by which a circumferential speed at the tool of the machine tool can be kept essentially constant, wherein a rotational speed spread DELTA_n of greater than 2 is achieved by a design, sizing and/or control of the motor. In a second aspect, the invention relates to a tool apparatus, for example a core-drilling apparatus, by means of which the proposed method can be carried out. An essential advantage of the invention is that the rotational speed spread DELTA_n of greater than 2 is reached without a mechanical transmission at the machine tool. Instead, an electronically designed speed ratio is used in the present invention.

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