

Title (en)

GRINDING PROCESS CONTROL METHOD AND COMPUTER-AIDED CONTROL FOR WIDE GRINDING MACHINES

Title (de)

VERFAHREN ZUR STEUERUNG DES SCHLEIFPROZESSES SOWIE RECHNERSTEUERUNG FÜR BREITSCHLEIFMASCHINE

Title (fr)

PROCEDE POUR COMMANDER LE PROCESSUS DE MEULAGE ET COMMANDE AUTOMATISEE POUR MEULEUSE LARGE

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Application

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Abstract (en)

[origin: WO0035628A1] The invention relates to a novel solution for automating the grinding process of wide grinding machines for flat workpieces based on an optimal starting procedure and a grinding operation monitoring device, wherein the starting procedure is adapted for a second, subsequent workpiece and, if necessary, for a third or fourth workpiece. Automation aims at achieving parameters enhancing economic efficiency while ensuring the required end quality of the workpiece. A multiple variable controller is preferably used with the aim of obtaining optimal operating conditions based on selectable correction procedures. The novel solution makes it possible to start off with optimal values that are based, for instance, on low abrasive belt speed and/or low motor current consumption. Depending on the specific tasks to be performed, service life can be increased and/or energy can be saved thereby improving economic efficiency.

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