

Title (en)  
METHOD AND GRINDING MACHINE FOR MEASURING AND PRODUCING A TARGET OUTER CONTOUR OF A WORKPIECE BY MEANS OF GRINDING

Title (de)  
VERFAHREN UND SCHLEIFMASCHINE ZUM MESSEN UND ERZEUGEN EINER AUSSENSOLLKONTUR EINES WERKSTÜCKES DURCH SCHLEIFEN

Title (fr)  
PROCÉDÉ ET RECTIFIEUSE POUR MESURER ET PRODUIRE UN CONTOUR EXTÉRIEUR D'UNE PIÈCE PAR RECTIFICATION

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Application  
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Abstract (en)  
[origin: WO2015091800A2] The invention relates to a method for a measuring and producing a target outer contour (10), particularly for a pin-bearing journal (2) of a crankshaft (3), as well as a grinding machine for carrying out said method. First, using a measurement device (1), an actual contour is measured on the workpiece by acquiring measurement values for the dimensions and shape of said workpiece in at least two measurement planes that are spaced apart from one another and extend transversely to the longitudinal extension of the workpiece region in question. Said measurement planes are produced by a relative movement of the workpiece region and the measurement device in the Z axis direction, relative to the movement of the grinding disc in the direction of the Z axis thereof. These measurement values for the different measurement planes, which are spaced apart from one another, are transmitted to the CNC control system for the purpose of moving the grinding disc (5) forward, said CNC control system being controlled such that any deviations from the target contour that may be present are corrected, and the target contour of the workpiece region in question is ground adaptively based on the measurement values that were acquired for the particular measurement planes of a workpiece region.

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