

Title (en)

Process of and device for finishing rings, especially race rings for rolling bearings.

Title (de)

Verfahren und Vorrichtung zum Feinschleifen von Ringen, insbesondere von Wälzlagerlaufringen.

Title (fr)

Procédé et appareil pour la rectification d'anneaux, en particulier de bagues de paliers de roulements.

Publication

EP 0482343 B1 19940831 (DE)

Application

EP 91115615 A 19910914

Priority

DE 4033727 A 19901024

Abstract (en)

[origin: EP0482343A2] Process of finish-grinding rings on the outer surface or inner surface, especially for finish-grinding race rings of rolling bearings. A ring to be machined is accommodated by a work fixture with centring via a hydraulic centring means and is driven in a rotating manner by a driver. The ring surface to be machined is measured during a grinding operation. The grinding operation is regulated and/or controlled in accordance with the measured values from the measurement. A contactless measurement is carried out with at least two identical measuring heads from which a hydraulic measuring means corresponding to the centring means emerges from in each case at least one nozzle opening. The measuring heads are distributed over the periphery of the ring surface to be machined in an equidistant manner so as to provide compensation of the measuring force. The hydraulic measuring means is passed free of open jet into the measuring-means and centring-means layer which is carried along by the ring surface to be machined and which is formed between the measuring head and the ring surface. A device for carrying out the process is also specified. <IMAGE>

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CPC (source: EP US)

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Cited by

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