

Title (en)

METHOD AND APPARATUS FOR CORRECTING DIAMETRICAL TAPER ON A WORKPIECE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR VERBESSERUNG DER KEGELFORM EINES ZYLINDRISCHEN WERKSTÜCKES

Title (fr)

PROCEDE ET APPAREIL POUR CORRIGER LA CONICITE D'UNE PIECE USINEE CYLINDRIQUE

Publication

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Application

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Priority

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Abstract (en)

[origin: CA2182953C] A microfinishing arm assembly for reducing taper on selected bearing journal surfaces of various workpieces rotated about a longitudinal axis, including a primary finishing arm and a taper correction device for applying a plurality of adjacent independently variable grinding pressures. A primary abrasive device for finishing a journal surface is mountable on the primary finishing arm for use with the taper correction device. A measuring device for gauging the bearing journal surfaces at a plurality of spaced points during rotation is utilized with a processor device for receiving the gauging signals, calculating diameters of the journal surfaces and generating a plurality of output signals corresponding to the diameters of the bearing surfaces at spaced points. A comparator device compares the output signals to determine whether a taper exists and controls the grinding pressure of a taper correction device to correct the taper.

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