

Title (en)

COMPUTER TOMOGRAPHIC WORKPIECE MEASURING DEVICE

Title (de)

COMPUTERTOMOGRAPHISCHE WERKSTÜCKMESSVORRICHTUNG

Title (fr)

DISPOSITIF DE MESURE DE PIÈCES USINÉES PAR TOMOGRAPHIE ASSISTÉE PAR ORDINATEUR

Publication

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Application

EP 10722929 A 20100430

Priority

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Abstract (en)

[origin: WO2010124868A2] The invention relates to a computer tomographic workpiece measuring device, comprising an x-ray source (16) designed to generate invasive radiation, detector means (28) designed to detect the invasive radiation, and a workpiece carrier unit (20, 24, 26) which comprises a center and/or rotational axis that is designed such that a workpiece (40) to be measured and carried by said unit can be placed in a beam path (30) of the invasive radiation between the x-ray source and the detector means and can be moved in the beam path, particularly along the center or rotational axis. According to the invention, a ratio of a first smallest distance A between a radiation outlet of the x-ray source (16) and the center or rotational axis (42) of the carrier unit extending in the beam path in relation to a second smallest distance B between the radiation outlet and the detector means comprising a plurality of detector pixels arranged in a two-dimensional manner in an area, which is to say A/B, is > 0.5, preferably > 0.7, more preferred > 0.8, a side and/or edge length ratio of the area of the detector means is in the range between 1.5:1 to 500:1, preferably in a range between 2:1 and 100:1, and the detector pixels have a maximum pixel size smaller than 100 µm, preferably smaller than 80 µm, more preferred smaller than 50 µm.

IPC 8 full level

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