

AN APPARATUS FOR CLAMPING A WORK PIECE

Abstract of the Disclosure

The apparatus for clamping a work piece in a well defined position within the operating area of a machine tool comprises a chuck member to be mounted within the operating area of the machine tool and a work piece carrier that can be put onto the chuck member and clamped thereto. First positioning members provided on the chuck member and second positioning members provided on the work piece carrier cooperate to define the position of the work piece carrier along three coordinate axes each running perpendicular to each other as well as with regard to the angular orientation. A clamping mechanism fixes the work piece carrier member to the chuck member in the afore mentioned defined position. In order to ensure an increased resistance against tilting momenta and torque occurring during the machining of a work piece, the clamping mechanism comprises a plurality of clamping devices each having a linear direction of activity, whereby all these linear directions of activity are located on or next to an imaginary cylindrical nappe intersecting the first and second positioning members.

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