

ABSTRACT

An apparatus for chip removal machining of at least a portion of a support face of a bearing seat (5) of a concentrically guided shaft (3) with the bearing (4) dismantled, in particular at a shaft (3) slidably supported by bearing shells (4), such as a crankshaft of a large two-stroke diesel motor, is proposed, having at least one cutting tool (1) that is rotationally movable, in the gap created between the bearing seat (5) and a bearing journal (3) received in the bearing seat by dismantling of the bearing (4). The apparatus is characterized in that a securing device (2) for securing the cutting tool (1) to the bearing journal (3) is provided, which is arranged such that in machining of the support face of the bearing seat (5), the bearing journal (3) acts as a rotating tool holder, and the cutting tool (1) is guided in a purely rotational cutting motion along the support face of the bearing seat (5), and the securing device (2), for re-releasable securing of the cutting tool (1) in a manner free of residue and nondestructively, is arranged in force- and/or material-locking fashion and includes an adhesive layer and/or at least one hose clamp.

A corresponding apparatus for machining a support face of a bearing journal (3) of a concentrically guided shaft (3) with a dismantled bearing (4), and a method for machining the support face of the bearing seat or the bearing journal with an apparatus, are also proposed.

(Fig. 2)