

Title (en)

ADJUSTABLE AXIAL PISTON MACHINE HAVING A BEARING SHELL FOR THE PIVOT CRADLE

Title (de)

VERSTELLBARE AXIALKOLBENMASCHINE MIT EINER LAGERSCHALE FÜR DIE SCHWENKWIEGE

Title (fr)

MACHINE À PISTON AXIAL RÉGLABLE COMPRENANT UNE COQUILLE DE SUPPORT POUR LE BERCEAU PIVOTANT

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Application

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Abstract (en)

[origin: WO2011042098A1] The invention relates to an adjustable axial piston machine having a housing (1), a pivot cradle and a bearing shell (2) which is arranged between the housing (1) and the pivot cradle. The bearing shell comprises a bearing section (21) in the shape of an annular section with an inner end (230, 230') and a bearing shell end region (22.1, 22.2) which extends in one plane with an outer end (23, 23'). A bearing surface (40.1, 40.2), the geometry of which corresponds to the bearing section, is provided on the housing (1). Here, an outer supporting force point (23.1, 23.3) at the outer end (23.1', 23.3') and an inner supporting force point (23.2, 23.4) at the inner end (230, 230') lie on a straight line (24.1, 24.2) which extends on the inner supporting force point (23.2, 23.4) tangentially with respect to the bearing section (21). If a force is present in the circumferential direction of the bearing section (21), the inner supporting force point (23.2, 23.4) and the outer supporting force point (23.1, 23.3) are subjected to a supporting force substantially parallel to the straight line (24.1, 24.2).

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