

Title (en)
PROFILED CONTOUR OF A SCREW PUMP

Title (de)
PROFILKONTUR EINER SCHRAUBENSPINDELPUMPE

Title (fr)
CONTOUR PROFILE D'UNE POMPE A BROCHE HELICOIDALE

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Application
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Abstract (en)
[origin: WO02057044A1] The invention relates to the production of screw pump rotors comprising a pitch and/or depth of teeth which can be modified along the axis of the rotor. By means of a simple profiled machine tool (7), a first part of the profiled flank contour is clearly defined along the rotor axis (8) by means of its specific tool guide mechanism, and is then produced in a definitive manner. The remaining second part of the profiled flank contour is then determined according to the rolling movement of the pair of rotors according to the first part of the profiled flank contour carried out by the tool, by means of an approximation which is as precise as possible. It is thus possible to obtain transversally different profiled contours according to the pitch and/or depth of teeth which can be modified along the axis of the rotor. A disk milling cutter is selected to be used as a profiled machine tool.

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