

Title (en)

JET MANIFOLD FOR WATER JET PROCESSING FIBERS

Title (de)

DÜSENBALKEN FÜR DIE BEARBEITUNG VON FASERN MIT WASSERSTRAHLEN

Title (fr)

RAMPE DE JETS D'EAU POUR LE TRAITEMENT DE FIBRES PAR JETS D'EAU

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Application

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Abstract (en)

[origin: WO2018068962A1] The present invention relates to a jet manifold (1) for water jet processing fibers, comprising an elongate upper part (10) in which an elongate pressure chamber (11) is inserted, said pressure chamber (11) having an end face with an opening (12) for feeding water and an opposite closed end face. A pressure distribution chamber (13) is inserted in the upper part (10) and extends in parallel to the pressure chamber (11). Distributed over the length of the upper part (10) a plurality of through-flow bores (14) are introduced into the intermediate wall (15) between the pressure chamber (11) and the pressure distribution chamber (13), the water being conductible therethrough from the pressure chamber (11) to the pressure distribution chamber (13). A rod-shaped deflecting element (20) is arranged in the pressure distribution chamber (13) and extends longitudinally through the pressure distribution chamber (13) in a centered manner. The jet manifold further comprises an elongate lower part (16) which is arranged on the upper part (10) in a fluid-tight manner, a nozzle strip (17) with bores (18) for water to exit being received in or on the lower part (16). A slot (19) is introduced into the upper part and extends between the pressure distribution chamber (13) and the nozzle strip (17) to feed water to the nozzle strip (17). According to the invention, a peripheral annular gap (S) having a gap width of 5 mm to 8 mm is formed between the exterior of the deflecting element (20) and the interior of the pressure distribution chamber (13).

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