

Title (en)

METHOD FOR PRODUCING A POLYMER-IMPROVED PIPE ELEMENT

Title (de)

VERFAHREN ZUM HERSTELLEN EINES POLYMERVEREDELTEN ROHRELEMENTS

Title (fr)

PROCÉDÉ DE PRODUCTION D'UN ÉLÉMENT TUBULAIRE AMÉLIORÉ AU POLYMÈRE

Publication

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Application

EP 21844016 A 20211223

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Abstract (en)

[origin: WO2022136644A1] The invention relates to a method for the automated or partially automated production of a polymer-improved pipe element (100) using pipe sections (101, 102) having tolerances, the method comprising the following steps: Providing a first pipe section (101) and a second pipe section (102), the pipe sections each having a connection region which is provided for connection to the respective other pipe section; detecting a spatial shape of the first pipe section and a spatial shape of the second pipe section, in each case in the connection regions; determining a spatial penetration curve as a function of overlaying the spatial shapes; determining a cut contour in the connection region of the first pipe section and a cut contour in the connection region of the second pipe section, in each case as a function of the penetration curve; generating edge surfaces (115, 117) in the connection regions of the first and the second pipe section along the respective cut contours; aligning the generated edge surfaces of the pipe section to one another; and welding the first and the second pipe section along the edge surfaces aligned to one another along the determined spatial penetration curve. The invention also relates to a device for the automated or partially automated production of a polymer-improved pipe element.

IPC 8 full level

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Citation (search report)

See references of WO 2022136644A1

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