

Title (en)  
METHOD FOR AUTOMATED MANIPULATION OF A BENDING TOOL, AND MANUFACTURING DEVICE

Title (de)  
VERFAHREN ZUR AUTOMATISIERTEN HANDHABUNG EINES BIEGEWERKZEUGES UND FERTIGUNGSEINRICHTUNG

Title (fr)  
PROCÉDÉ DE MANIPULATION AUTOMATISÉE D'UN OUTIL DE CINTRAGE ET DISPOSITIF DE FABRICATION

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Application  
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Abstract (en)  
[origin: WO2013166538A1] The invention relates to a method for inserting or removing a bending tool (13) into or from a holding position (27) on a tool mount (11, 26) by means of a gripper element (18) of an manipulating device (3) having a programmable control unit (24), wherein a bending tool (13) held by the gripper element (18) is moved by the manipulating device (3) into the holding position (27) and in the holding position (27) the gripper element (18) is detached from the holding portion (29). According to the invention, the approach of the bending tool (13) to the holding position (27) is monitored by a reference light beam (30) of a light barrier arrangement (28) which, viewed in the direction of approach (32), is located upstream of the holding position (27) and at a known measured distance (31) relative to the tool mount (11, 26), and at the moment the beam is interrupted by a measuring edge (45, 50, 51) on the bending tool (13), which measuring edge is approximately at right angles to the direction of approach (32) and to the reference light beam (30), an actual position of the bending tool (13) is defined. The control unit (24) subsequently uses the measured distance (31) for the remainder of the approach movement of the manipulating device (3) up to the holding position (27).

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