Title (en)

METHOD AND TOOL FOR CREATING A THROUGH-THREAD

Title (de)

VERFAHREN UND WERKZEUG ZUM ERZEUGEN EINES DURCHGANGSGEWINDES

Title (fr)

PROCÉDÉ ET OUTIL POUR CRÉER UN FILETAGE TRAVERSANT

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Application

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Abstract (en)

[origin: WO2021048354A1] The invention relates to a method for creating a through-thread, more particularly a through-thread bore (163, 263, 363), with a predefined thread pitch (172, 272, 372) and with a predefined thread profile (171, 271, 371) with at least one countersink (164, 264, 364; 262) in a workpiece (150, 250, 350) by means of a tool (100, 200, 300), in which the tool (100, 200, 300), can, more particularly by means of a turning device, be moved rotationally about a tool axis (A) extending through the tool and axially in relation to the tool axis, wherein the tool has, sequentially in the direction to the end face (120, 220, 320) of the tool, a shank region (211), more particularly for coupling to the turning device, at least one neck region (112, 212, 312), more particularly with one or two chip groove regions and/or spiral groove regions for transporting away chips, a thread creation region (116, 216, 316) with a thread creation means for creating the through-thread (163, 263, 363), and an end region (117, 217, 317) having the end face (120, 220, 320), wherein, to create the through-thread (163, 263, 363), the thread creation means is moved in a screw-in movement in an axial forward direction (VR) through the workpiece (150, 250, 350) from a first workpiece side (151, 251, 351) to a second workpiece side (152, 252, 352) opposite the first workpiece side such that the end face projects out of the workpiece, wherein the thread creation means moves through the workpiece more particularly along a first line which is a helical line, wherein then, to create at least one countersink, the thread creation means is moved in a countersinking movement more particularly along a second line that differs from the first line, and wherein for subsequent withdrawal, the thread creation means is moved back through the workpiece in a screw-out movement in an axial reverse direction (RR), more particularly at least substantially along the first line. The invention also relates to a tool.

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