

Title (en)
METHOD FOR PRODUCING SHAPED SHEET METAL PARTS AT A LOW TEMPERATURE

Title (de)
VERFAHREN ZUR HERSTELLUNG VON UMGEGFORMTEN BLECHTEILEN BEI TIEFTEMPERATUR

Title (fr)
PROCÉDÉ DE FABRICATION DE PIÈCES EN TÔLE FORMÉES À BASSE TEMPÉRATURE

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Abstract (en)
[origin: WO2013178615A1] The invention relates to a method for producing a shaped sheet metal part from a blank or a semi-finished product (1) made of a material consisting of steel having at least 60 wt.% Fe and a residual austenitic content of at least 5%, wherein the blank or the semi-finished product (1) is partially cooled to a temperature of less than -20 °C prior to the shaping and is shaped at a temperature below -20 °C in a shaping die (2). The problem of providing a method to produce components appropriately designed in terms of load, which enables a highly technical application of low-temperature shaping and is designed in a particularly simple manner, is solved in that a reduction of the material temperature of the blank or the semi-finished product (1) takes place in a cooling device (3) maintained at a temperature below -20 °C.

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