

Title (en)

Process and device for bending tubes, wires or strips of metal into a helical coil or spring comprising a plurality of turns

Title (de)

Verfahren und Vorrichtung zum Aufwickeln von Rohr, Draht oder Band aus Metal zu einem Helixform oder Spiralfeder

Title (fr)

Procédé et dispositif d'enroulement de tube, fil ou bande métallique en un élément ou un ressort hélicoïdal à plusieurs spires

Publication

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Application

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- IT MI20111077 A 20110615

Abstract (en)

The present invention concerns a procedure and a machine for bending filiform material such as a tube, a wire, a bar, a strip of metal into coil or spring, preferably helicoidal, comprising continuously bending a single filiform material (3) into a coil or a spring so that the filiform material (3) assumes a helical course comprising a plurality of turns (S). The procedure comprises the steps of measuring the radius of curvature (R) of a first bent portion (3c) comparing it with a pre-defined ideal radius of curvature (R I ), applying a correction if necessary. The procedure also comprises measuring the diameter (D) of a turn (S I ) during the bending and comparing it with a pre-defined ideal diameter (D I ). On the basis of this comparison, the ideal radius of curvature (R I ) is modified to correct the course of the curvature. The machine employs a sensor (8) and a CPU.

IPC 8 full level

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Citation (search report)

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