

Title (en)
END MILLING CUTTER WITH DIFFERENT CUTTING EDGES

Title (de)
SCHAFTFRÄSER MIT UNTERSCHIEDLICHEN SCHNEIDEN

Title (fr)
FRAISE À QUEUE AVEC DIFFÉRENTS TRANCHANTS

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Application
EP 07847382 A 20071127

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Abstract (en)
[origin: WO2008068158A1] The present invention relates to an end milling cutter with a number of end-cutting edges (10, 20), at least a first one (10) of which reaches up to the axis (30) of the milling cutter. To provide an end milling cutter that allows much greater axial feed movements and nevertheless leaves behind relatively smooth surfaces at its end face under the normal feed movement of the milling cutter taking place laterally (perpendicularly to the axis), it is proposed according to the invention that the milling cutter has at least one further, second end-cutting edge (20) that is different from the first end-cutting edge (10), wherein the axial position and formation of the first cutting edge (10) and the second cutting edge (20) are provided in such a way that, when the rotating milling cutter axially enters a workpiece, a radially inner region (a) cuts only by the first cutting edge (10) from the axis (30) of the milling cutter to a first radius ($r_{\text{SUB} < i > / \text{SUB} >}$) that is less than the nominal radius and greater than a radially inner radius of the second cutting edge, and that, in a second region (b), which lies between the radius $r_{\text{SUB} < i > / \text{SUB} >}$ and a greater radius $r_{\text{SUB} > a < / \text{SUB} >}$, which can at most assume the value of the nominal radius (R) of the milling cutter, only the second cutting edge (20) cuts.

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