

Method for manufacturing a helical blank, in which air-plasma cutting is performed on a hollow blank that rotates, to form a helical groove, using an air-plasma jet that is moved along its longitudinal axis and directed tangentially to the concentric surface that follows the contour of the resulting helical groove. Simultaneously with this air-plasma cutting, the helical groove is milled using a cylindrical end mill, which is moved along the longitudinal axis of the workpiece at a speed equal to the speed of the air-plasma flow along said axis. During the milling process, a through-cut is made in the recess of the resulting helical groove profile.