

The invention relates to the manufacture of gear wheels, namely to the manufacture of bevel gears by stamping. The process for bevel gear manufacturing includes stamping in two phases with final and preliminary calibers, wherein, according to the preliminary caliber the base area and width in the cross-section of the teeth are equal correspondingly to the base area and width in the cross-section of the final tooth. In the final and preliminary caliber the bevel gear teeth are formed in the shape of trapezium, in the preliminary caliber the teeth thickness round the basic circle is taken greater than the thickness of the final teeth, the value of the angle between the lateral areas of the trapezium and of the axis of symmetry of the tooth is approximately equal to the slope of the channel. In the final caliber the punch is communicated at the axial displacement a partial rotary motion by a kinematical connection between the punch and the ejector.

Claims: 2

Fig.: 6