

The invention relates to the machining of teeth of the precession gearwheels, namely to the shaving of teeth. The process for shaving the teeth of the precession gearwheels includes shaving of teeth of the gearwheel (4) with a satellite tool (1), which simulates a real transmission and includes two gear rings (2, 3) with drive (8) and machining (6) rollers, on the surface of the latter are made chip removal channels. The rollers (6, 8) are made in the form of a truncated cone with the apex towards the gear rings (2, 3) of the satellite tool (1). The satellite tool (1) is communicated a precession motion with an axial advance with its rotation consecutively in both directions, then the satellite tool (1) performs a free running consecutively in both directions. The chip removal channels of the machining rollers (6) are made in the form of a spiral with winding directions opposite of the previous roller.

Claims: 4

Fig.: 3

