

Needle of knitting machine includes rod with hooks and tongue at one end and a shank end with butt with active faces at the second its end, and the butt is round with a radius  $R$ , which is selected from the ratio:  $R = 0,5h$ , where  $h$  is the width of the butt, and is additionally equipped with two samples located in the body of the rod in the zone of transition of shank end into butt on both its sides, and the samples are in the form of right-angled triangles.