

Straight-toothed involute cylindrical gear is designed with modified surfaces on the drive and driven gears. The tooth profile of the drive and driven gears, as viewed in cross-section along the pitch line, is periodic and consists of ridges and valleys along the length of the tooth. Wherein, the ridges or valleys, respectively, of the profiles of the opposite sides of each tooth are arranged opposite each other, and the width of the rims of the drive and driven gears is calculated based on the placement of the ridges on the sections of the opposite sides of the teeth adjacent to the ends.