
ABSTRACTS

doi:10.22306/am.v7i2.85

Received: 21 Feb. 2022

Revised: 09 Apr. 2022

Accepted: 20 Apr. 2022

Application of Geometric Product Specifications on gearbox component drawings (pages 13-17)

Silvia Malakova

Technical University of Kosice, Faculty of Mechanical Engineering, Letná 9, Kosice, Slovak Republic,
silvia.malakova@tuke.sk (corresponding author)

Samuel Sivak

Technical University of Kosice, Faculty of Mechanical Engineering, Letná 9, Kosice, Slovak Republic,
samuel.sivak@tuke.sk

Vojtech Neumann

Technical University of Kosice, Faculty of Mechanical Engineering, Letná 9, Kosice, Slovak Republic,
vojtech.neumann@student.tuke.sk

Keywords: geometrical product specifications, gearbox, drawing.

Abstract: Technical documentation of individual gearbox components is an important part of the production process. For the development and production of these components, an improved engineering tool is used to specify and verify the geometry of the workpiece - Geometrical Product Specifications (GPS) system. This system is intended only for checking geometry and is based on computational mathematics and correct, consistent logic using general sets of rules. This paper is devoted to the application of geometric tolerances used in drawings to components of gearboxes, such as gearbox bodies, shafts, covers, and gears.
