

Press Release

Consideration of Elastic Gear Bodies and Bearing Rings in Gearbox System

Braunschweig, February 19, 2019

GWJ Technology, Germany, a manufacturer and provider of calculation software for mechanical engineering and gear manufacturing, recently introduced a new version of its system calculation.

A major extension is the possibility to consider gear bodies of cylindrical gears as 3D elastic and meshed parts. This functionality of 3D elastic parts (meshed FE parts) for housings and planet carrier, which has been around for years, was further extended. By means of 3D elastic gear bodies, the gear body stiffness can be considered in a better way, especially when it comes to the dimensioning of flank modifications. 3D geometries of gear bodies can be defined using either a polygon or the direct import via 3D STEP / IGES. It is thereby possible to define forces and bearings directly on 3D elastic parts. The extended rolling bearing calculation allows the use of elastic bearing rings for even more detailed analyses. There are several more improvements in the software like the addition of the REXS format, which is developed by FVA (German Research Institute for Drive Technology) for gearbox systems or additional result tables in XLS and XLSX format. Needle bearings type HK and BK are now available. The bearing database from SKF was updated to the latest data and a bearing database from Schaeffler with FAG and INA bearings was added. For documentation points on the shafts, a stiffness matrix can be determined. A new option for supporting positions was integrated too. GWJ provides an outlook on its ongoing activities in software development at this years' Hannover Messe and shows the latest version of system calculation "SystemManager" for eAssistant and TBK in Hall 25, Stand A23.

Visit www.gwj.de for more information or contact GWJ at +49 (0) 531 1293990 or send an email to info@gwj.de, www.gwj.de.

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About GWJ Technology

Focusing on mechanical engineering, GWJ Technology stands for high-quality products and professional software development for mechanical engineering to support engineers and designers in their daily work. The GWJ product range of innovative calculation software is wide - from standard software for classical machine elements with 3D CAD integration modules to the determination of whole systems up to a complex special software for 5-axis milling of gears. There are common features that all GWJ solutions share - intuitive design, sleek interface, easy to use and suitable applications for all users from beginner to very advanced. GWJ is constantly working on software enhancements and adding new features to the system in order to keep the applications up-to-date. Professional competence, state-of-the-art technology, a demand for high quality and excellent customer services are the key factors in GWJ's business philosophy to give the customers the best possible service and advice to obtain new competitive advantages.

Contact:

Mr Gunther Weser, GWJ Technology GmbH
Tel.: 0531 129 399-0, Fax: 0531 129 399-29
Email: g.weser@gwj.de, Web: www.gwj.de

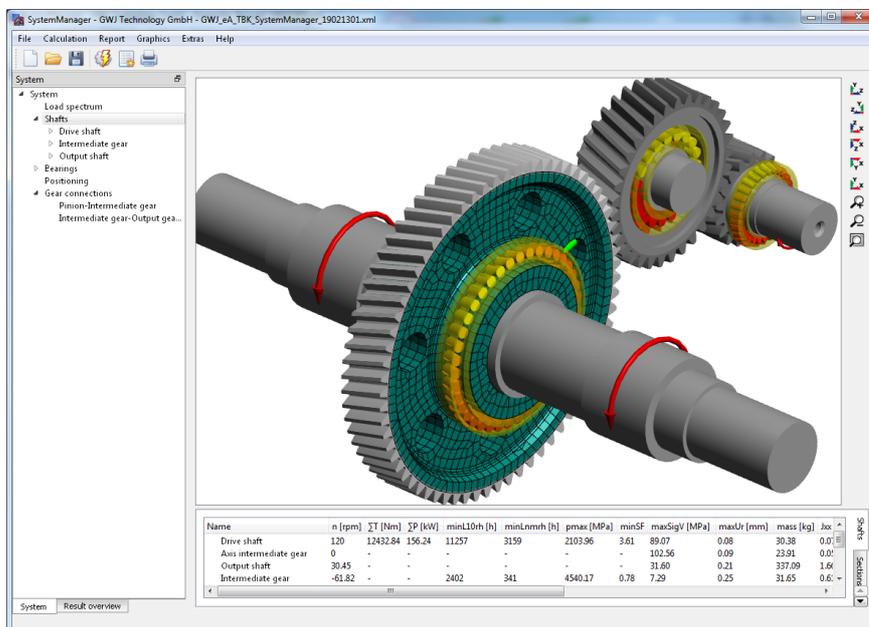


Figure 1 (GWJ_eA_TBK_SystemManager_19021301.tif):
GWJ system calculation with 3D elastic gear bodies