

MDESIGN shaft

Practice-oriented shaft calculation

According to DIN 743

2012

Extension of MDESIGN mechanical

MDESIGN shaft is a professional calculation program that bases on the German standard DIN 743. In order to fulfill real-life requirements the standard was complemented with some essential features such as:



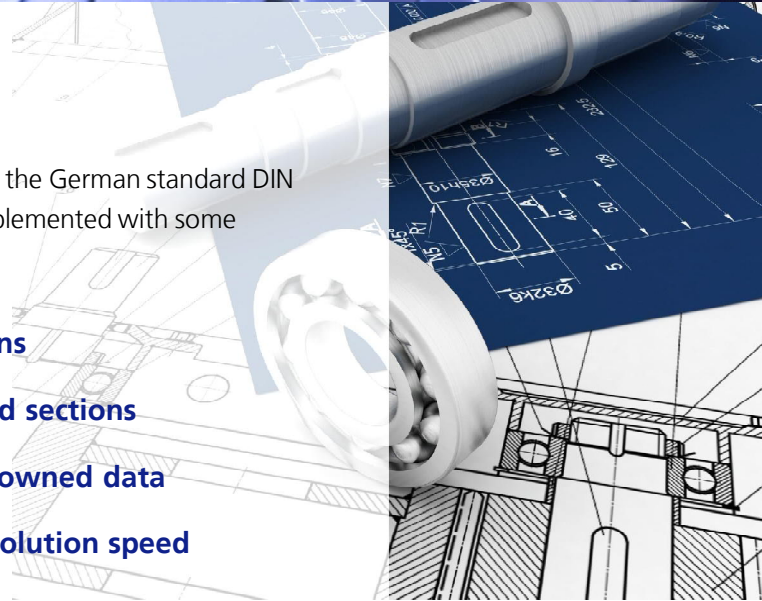
hollow shafts and tapered sections

unlimited number of bearings and sections

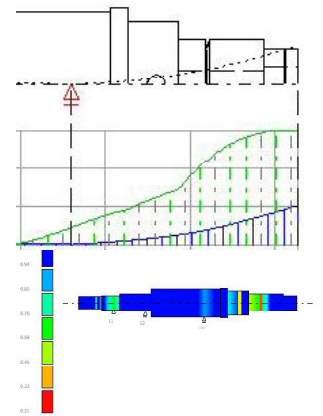
usage of non-standard company-owned data

calculation of bending-critical revolution speed

individual notch factors

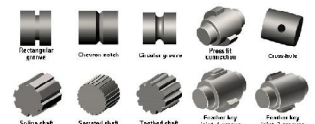
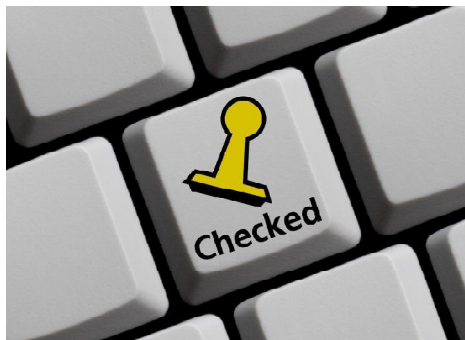


Dimensioning and verification of shafts is one of the challenging tasks of a design engineer. For this reason both scientific research and international standardization groups made considerable efforts to provide calculation procedures and construction catalogs that meet the requirements of real-life situations. MDESIGN mechanical in its standard version enables the user to solve daily tasks in dimensioning and verification of shafts. MDESIGN shaft as an add-on was developed for the professional user and offers a number of additional features.



Strength verification of notches

MDESIGN shaft offers multiple input methods and a graphic assistant to simplify the definition of the shaft geometry and the loads on the shaft. In MDESIGN shaft the user cannot only position the shaft sections interactively; he can also place notches by drag and drop. Additionally to the notch types according to DIN 743 even individual notch factors are possible. All inputs can be modified interactively by using the graphic assistant. All alterations are visible immediately and can be influenced right away.



TEDATA

TEDATA GmbH
Königsallee 45, 44789 Bochum
Telefon +49 (0) 234 30703 - 0
Telefax +49 (0) 234 30703 - 99

info@tedata.com

www.tedata.com