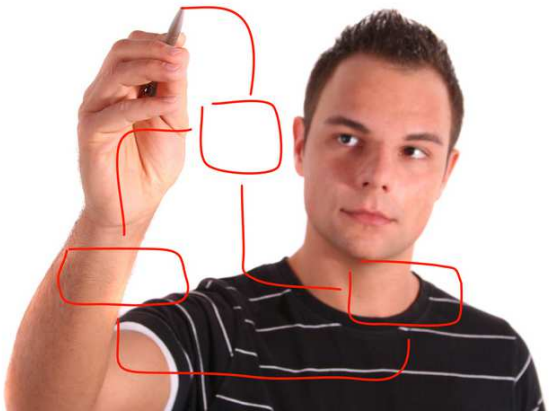
MDESIGN concept

Internationalize your conceptual design.

2012

MDESIGN now offers a new design tool that gives fast results in the conceptual design phase and integrates international standards. It supports you to keep up with the time where international companies rule the global market.



In many regions of this world the Finite Element Method still dominates the dimensioning in mechanical design. But along with the internationalization of design methodology it is more and more being replaced by analytical calculations that link theory to empirical data. These calculations can not only be performed much quicker, in many instances they are essential and the only reliable tools. Moreover, results are traceable and most of the procedures are recognized by authorities.

Robert L. Mott who is the inspirer of MDESIGN concept keeps emphasizing the value of analytical approach of dimensioning machine elements. He is a former Design manager at Ford Motor Company and Professor at Dayton (Ohio) University and is well known for his books about mechanical design. His international design experience has convinced him that transparent and repeatable calculations have a unique influence on functional quality and operational durability.

Based on Robert L. Mott´s book "Machine Elements in Mechanical Design" Tedata has developed MDESIGN concept to support you in the conceptual phase of designing. MDESIGN concept quickly provides results for basic outlines, drafts and proposals.

The library addresses the complete range of machine elements, complies with international standards and allows detailed documentation. Including MDESIGN formula the software comes with valuable material characteristics and the full data base of MDESIGN.

Start your computer aided calculation experience with MDESIGN concept which gives you access to engineering standards from America, Asia and Central Europe. Let us know what else you require and you will add to the idea of expanding this digital repository of mechanical design procedures to a worldwide platform of engineering communication.

MDESIGN concept - Overview

Group 1: Beams, Shafts, Columns
Group 2: Shaft-Hub Connections
Group 3: Bolts and Pins
Group 4: Screw Connections
Group 5: Gears
Group 6: Belts, Chain Drives
Group 7: Roller Bearings
Group 8: Journals
Group 9: Elastic Springs
Group 10: Mat. Strength & Stress
Group 11: Tolerances & Fits
Group 12: Moments, Approx. Values
Group 13: Welded Connections
Group 14: Bonded Joints
Group 15: Clutches and Brakes

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