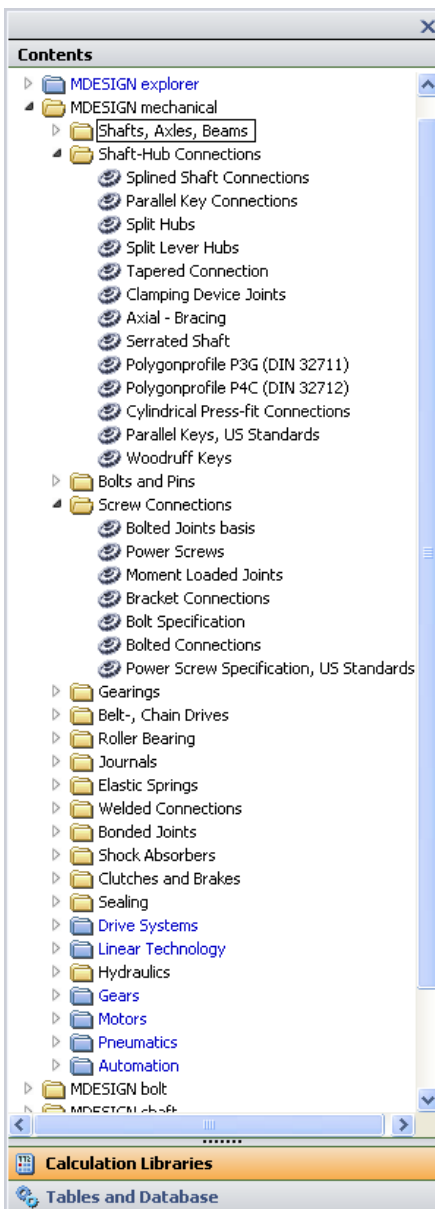


# MDESIGN mechanical

The calculation library for mechanical engineering

2012

Based on approved methods of DIN standards, VDI guidelines and technical literature MDESIGN offers an easy access to these rules and ensures a simple handling. MDESIGN covers calculation routines of the following themes:



All calculation modules use the approved user interface of MDESIGN explorer. Text and graphic help features simplify the input of parameters, the definition of geometries and the selection of components. The direct access to the material database saves the time searching for material characteristics.

## Optimization by fast calculation of variants

Usually design engineers do not only want to pre-dimension and proof the strength, but they want to find the optimal solution. In this case conventional calculation programs are no help. Although they can calculate a broad range of dimensions and characteristics they are not able to perform the number of variations and iterations that are necessary for an optimization.

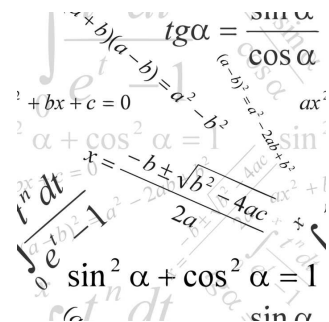
The solution is the parametric analysis of MDESIGN. The program automatically performs a calculation of variants with a predefined range of input parameters. The user defines the number and the width of the iteration steps. To simplify the interpretation of the calculations all results are displayed in a graph.

## Save your own calculations

MDESIGN offers an option that enables you to easily create executable programs and catalogues from sets of formulas, explanations, drawings and data tables. This authoring system enables you to provide specialized knowledge to a large group of users in your department or company.

## Documentation

MDESIGN does not only provide latest knowledge and methods but also supports you to fulfill your documentation obligation. A comprehensive documentation is required for the product liability, quality assurance and also to comply with the new EC Machinery Directive.



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