MDESIGN bolt

Dimensioning and verification of bolted joints according to VDI 2230

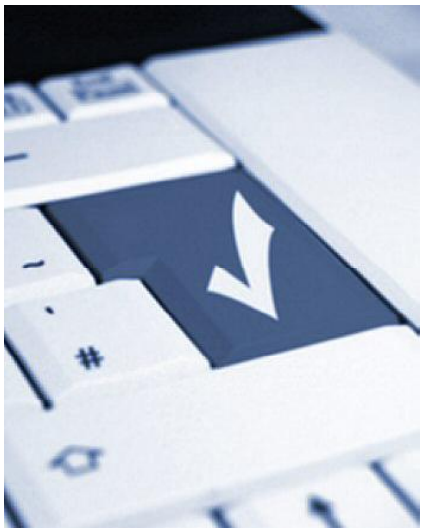
2012

Extension of MDESIGN mechanical, additional features:

- **Conceptual design according to VDI 2230**
- **Eccentrical stresses**
- **User defined bolt geometry**
- **Includes hollow-core screws**
- **Up to 5 clamped components**
- **Includes calculation for high temperatures**

Due to safety aspects the design of bolted joints is a very important step within the design process. Internationally, the German guideline VDI 2230 is recognized for its precise description of dimensioning and verification. MDESIGN has transferred the paper to an operational software package, so that engineers are able to make use of sixty pages filled with equations, logic and data tables.

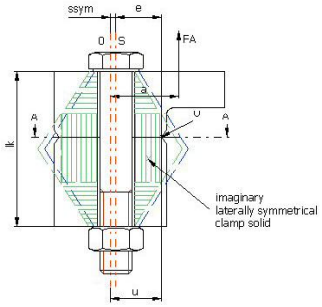
In MDESIGN bolt the algorithm of the guideline is complemented by a number of practical help functions. Many graphics, explanations and descriptions will assist even the less frequent user. To simplify the usage even more MDESIGN bolt consists of a technology and material database that enables the user to directly import bolt diameters, different strength classes and material data to the input page. All tables in the database can be adapted to the user´s needs.

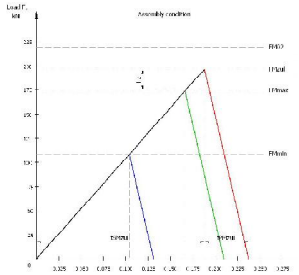


MDESIGN does not only cover typical single-bolted joints but also enables the user to calculate joints with multiple bolts, like circular coupling flanges. All calculations can be performed with concentric or eccentric loads and strains.

MDESIGN offers a consistent and comprehensive documentation with minimum effort to comply the quality assurance requirements. This automatically generated documentation contains all input values and results to make the calculation easily understandable.

Eccentric clamping





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