

Press release – new solution for better components

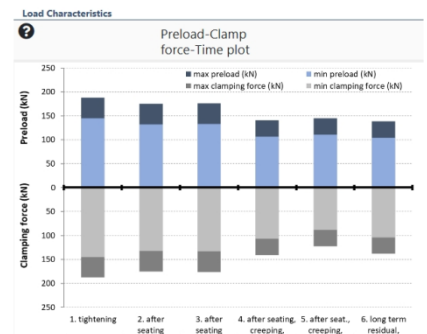
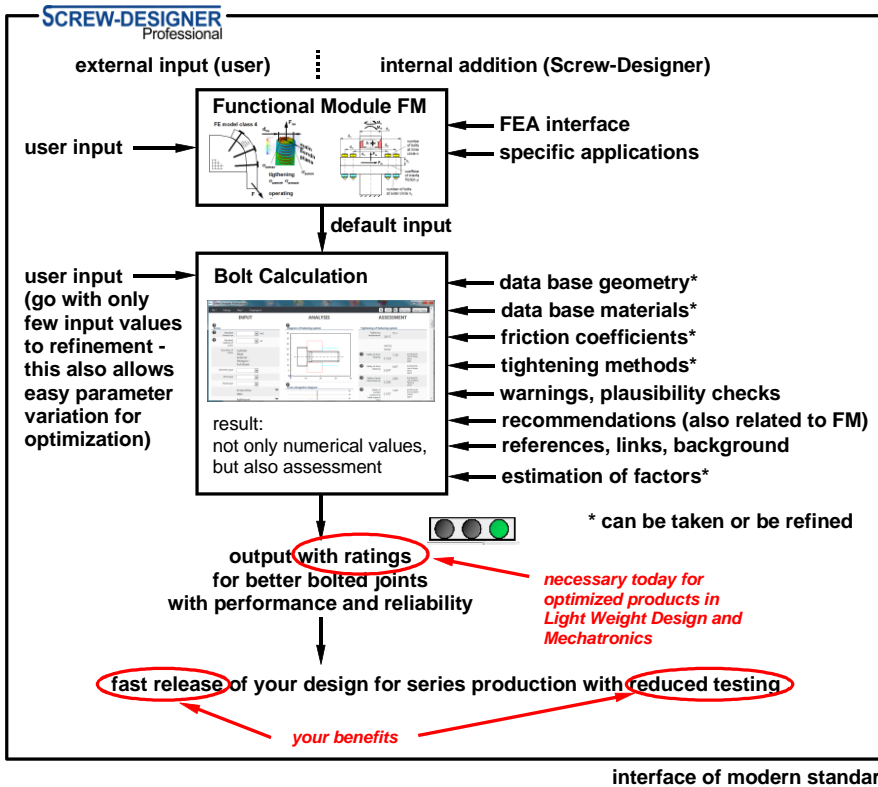
A sophisticated design of your products becomes more and more important because of enhanced performance (higher forces and temperatures during operation) and smaller available space (Mechatronics and smaller structures need space in your products) – for this the transfer behavior between components with screw joints plays a major role. Do you have optimized screw joints for your success?

Using the possibilities of digitalization we have developed a bolted joint calculation tool with a completely new approach named Screw-Designer Professional. With functional modules, you can use your FEA results immediately to overcome the deficits of calculating one bolt in a multi-bolt joint environment. So, you can save time for assessment of complex joints, which results in significant cost saving. Warnings and recommendations accelerate your development process. Requirements from the shop-floor and Quality Management are covered.

Screw-Designer Professional is not only a cutting-edge bolted joint calculation tool, but also a digital design assistant. This is achieved with refinement-conception and variable text-messages (an intelligent system with warnings, comments and recommendations). The intuitive user-interface is easy to use on a Windows-PC or as cloud-based version in your browser.

SCREW-DESIGNER Professional

Details see at www.screw-designer.com or in graphics below. Try and you will never use anything else for your bolted joint design. We provide trial licenses and access.



VDI2230 Integration
Results of VDI2230 R-steps (R0 to R13)

R0 Determining the nominal diameter d and checking the limiting size G
Limiting value for the dimensions at the interface area in bolted joints: 39,110 mm G, G
Assessment: NO <math>c1 < G \text{ or } G1</math>

R1 Determining the tightening factor oA
Tightening factor: 1,297 oA

R2 Determining the required minimum clamp load FKerf
minimum clamp load for transmitting a transverse force: 41,389 kN FKerf

Tightening
Method of tightening: 02) Angle controlled t
Input data for: Angle controlled tightening
Specified minimum snug torque: 190 Nm (190 Totalmind)

Boost your own design efficiency – if you are not using Screw Designer-Professional you will not use today's possibilities. Please, forward this press release to friends or colleagues, who might be interested.