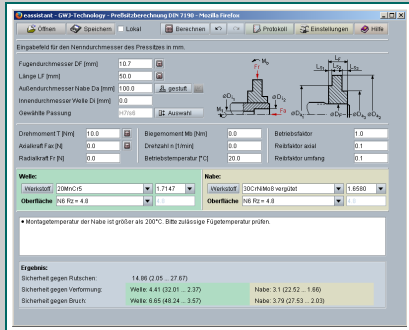


# Shaft-Hub Connections



This seminar is about the design, re-calculation and optimisation of shaft-hub connections, such as interference fits, parallel keys, involute splines or clamping connections, in conjunction with the software applications eAssistant/TBK 2014. With useful tips and instructions, the participants get the chance to better understand the theory.

The seminar is suitable for young professionals, experienced engineers, designers and technicians.

## Main Topics

- Interference fits: Dimensions, tolerance system, fits, stresses, gapping joint, stepped hubs, fretting corrosion, shrink fits, force fits
- Parallel keys: Field of application, special features, geometry, surface pressure, load direction changing factor, load peak frequency, support factor, additional information on Method C
- Splined shaft connections
- Involute splines according to DIN 5480, DIN 5482, ISO 4156, ANSI B92.2M, ANSI B92.1 and similar: Geometry, dimensioning, individual definition of geometry, tool standard basic rack profiles according to DIN 5480 for broaching, hobbing, shaping, cold rolling as well as for diameter centering, tool types hob or gear shaper cutter, strength calculation
- Serrated shaft connections
- Notch stresses of different shaft-hub connections
- Clamp connections: Fits, separated hubs, split hubs
- Bolts and pins: Functions, longitudinal pins, guide pins, cross pins, grooved pins, dowel pins, grooved taper pins, parallel grooved pins, bolt connections

The seminar includes practical exercises with eAssistant or TBK 2014. Individual questions are allowed and welcomed during the workshop (depending on time).

