



NCP[®] 4.3

Release note for version 4.3

Dated 30.05.2023

Innovations and extensions

- + Extended motor sizing: possible on the basis of the motor characteristics for servo and stepper motors
- + Intuitively enter your own motors
- + Extended motor database (over 19,000 motors)
- + Application-related improvements
 - Traction drive: accommodation of the Neugart wheels at the NGV gearbox
 - Winding application: any scattering of torques eliminated
 - Thrust crank: position check corrected (when using more than one segment, incorrect position information may have been displayed, but calculated correctly)
 - Transmission elements and application belts: Standardisation of designations (FV)
 - Rack / Pinion: display of the feed force in the graphic
- + Load import of motor trace files
 - Consideration of the mass inertias of motor and gearbox as well as the gearbox losses for a more precise design
 - Selection help when assigning the values to the columns
- + Revised documentation with extended user information, significantly improved readability
- + Increasing the calculation speed, especially with the load filter
- + Sample calculations per application can be loaded via Help menu

+ Improved usability

- Start window with simple selection of new or already performed calculations, news are displayed
- Open files via drag'n drop
- Up to ten calculations per project file (previously five)
- Saving the mass inertia calculations in the drive trains even with self-defined cycles
- Inclusion of the static bearing safety in the graphical calculation results: safer design
- Load of Lambda in the gearbox database
- Direct input of the limit values in the load capacity filter
- The product code in the message area can be used to jump directly to the TDF
- Value entry simplified ("0" is automatically overwritten)
- Improved installation options with multi-user operation
- Improved comments section
- Load case editor: copy and paste of several segments possible
- Display of safety in the results area more meaningful (1 = min.)

+ Improvement of the calculation accuracy:

- Revised calculation of bearing life time
- More precise calculation of the gear weight according to the motor to be mounted
- Consideration of losses during motor trace import
- Motor sizing based on characteristic curves