

## Overview of innovations in winLIFE 2020

- User interface
  - projects can be reloaded / preselection of FE interface /..
- Viewer4winLIFE
  - presentation of several load cases / definition of attributes per node / tripod / Weld seam display for curved surfaces / optimization of the graphic /..
- FE-Import
  - optimization of FE-Imports / unit conversion / CDI with any column selection / attributes /...
- Solver
  - optimization of the solver / predicted computing time / prevention of ,BrokenSession' / attribute pre node, as if different sn-curve / 5000 container projects /..
- Loads
  - Improved import of FAMOS-files / channel names are displayed /..
- FKM
  - combinations upper / lower stress and amplitude / mean stress / third principal stress without surface roughness /..
- Classification matrix
  - raw analysis / automatic recognition of the hysteresis loop /..
- Others
  - automated generation of load files from a load collective /..
- See chapter 10 of the installation instructions



## Importent Menu Changes in winLIFE 2020

🙀 Method	>	<
Component	Load	
Not welded	<ul> <li>One load exact - force</li> </ul>	
◯ Welded	One load exact - spectrum	
Gears/Bearings	One load uniaxial - force	
	One load uniaxial - spectrum	
Method	One load uniaxial - rainflow	
Nominal stress	One load uniaxial - random	
Elastic notch stress	One load - residence time	
<ul> <li>Structural stress</li> </ul>	O Multiple load uniaxial - force	Selection of the FE interface
<ul> <li>Local strain approach</li> </ul>	Multiple load multiaxial - force	
<ul> <li>Flank of tooth</li> </ul>	<ul> <li>Multiple load multiaxial - random</li> </ul>	(NASTRAN, ANSYS,)
<ul> <li>Root of tooth</li> </ul>		
O Bearing	Use FE - Interface:	
Crack propagation	Nx, NASTRAN	
	Nonlinear	
	Number of loads 2 (1 - 200)	Specification of the FE-data
	✓ OK 🛛 Cancel 🕐 Help	
		tural stress, Multiple load uniaxial - force ]

Load	FE-Data	Calculation	Result	Extra
late_St	🤤 Defi	ne Ctrl+F	Angabe	cas
🧐 s	View	•	cs settings -> p	



## Definition of attribute in winLIFE 2020

