

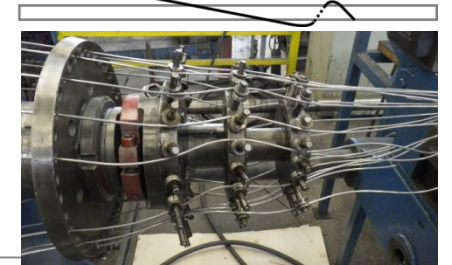
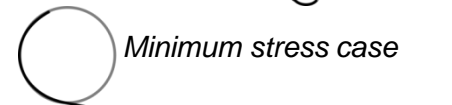
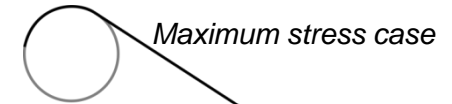
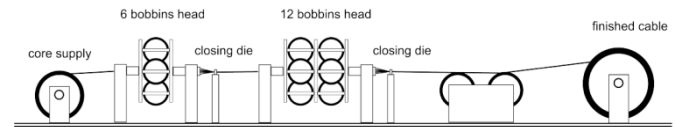
Conductor structural integrity

Non-linear 3D-FEM: Sag creep calculation

■ Prediction of creep extension

- *E-AlSiMg constitutive models from results of wire tests*
- *assuming constant homogeneous temperature*
- *with consideration of internal residual stress state generated during manufacture*

■ To underpin spreadsheet based sag calculation tool



Time	Minimum stress case	Maximum stress case
After storage, before load		
t=0, load and temperature are applied		
t=20h		
t=3'000h		

