

The northernmost University of Technology in Scandinavia World-class research and education

nnovative solutions for tubular tower for wind turbines, 2006-2013

Steel Structure Research Group

Main objectives

- Improve fatigue resistance of the connection
- Optimize use of steel in towers and concrete in foundations

Academic partners

- RWTH, Aachen University
- FCTUC, University of Coimbra
- AUTH, University of Thessaloniki
- Minimize maintenance costs
- Remove transportation limits
- GLWind, Hamburg



Experiments and FEA

CENTRE FOR A competence centre at Luleå University of Technology

HIGH PERFORMANCE STEEL

Small-scale tests, down-scale tests, advanced analysis, recommendations









Feasibility test and piling

Production of the connection prototype:Ruukki (Fi) and Martifer (Pt)

















HISTWIN group