

# COMPANY PRESENTATION

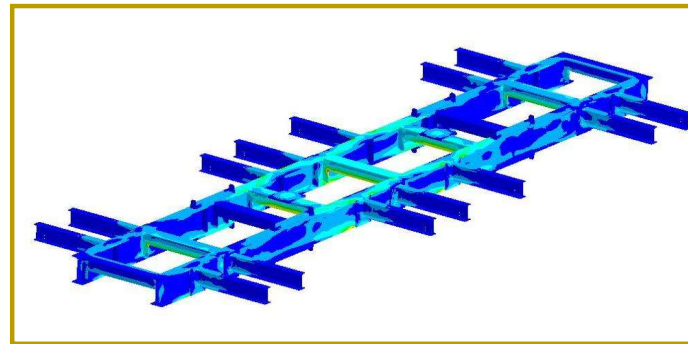
## LIFTING DEVICES and OPERATING EQUIPMENT

Eddelak | 27.07.2026

1. COMPANY
2. DESIGN AND CALCULATION
3. REFERENCE COMPONENTS
  - LIFTING DEVICES
  - OPERATING EQUIPMENT DESIGN



Design



Calculation

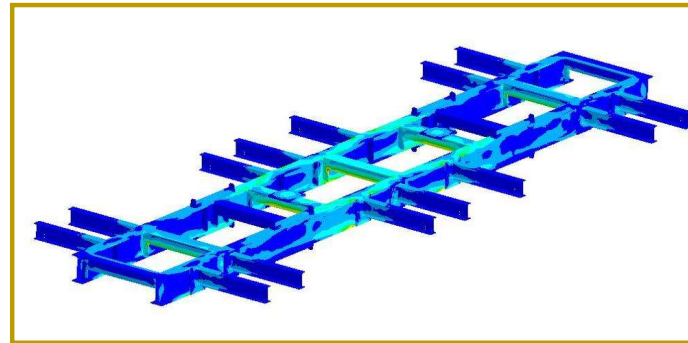


Production

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Design

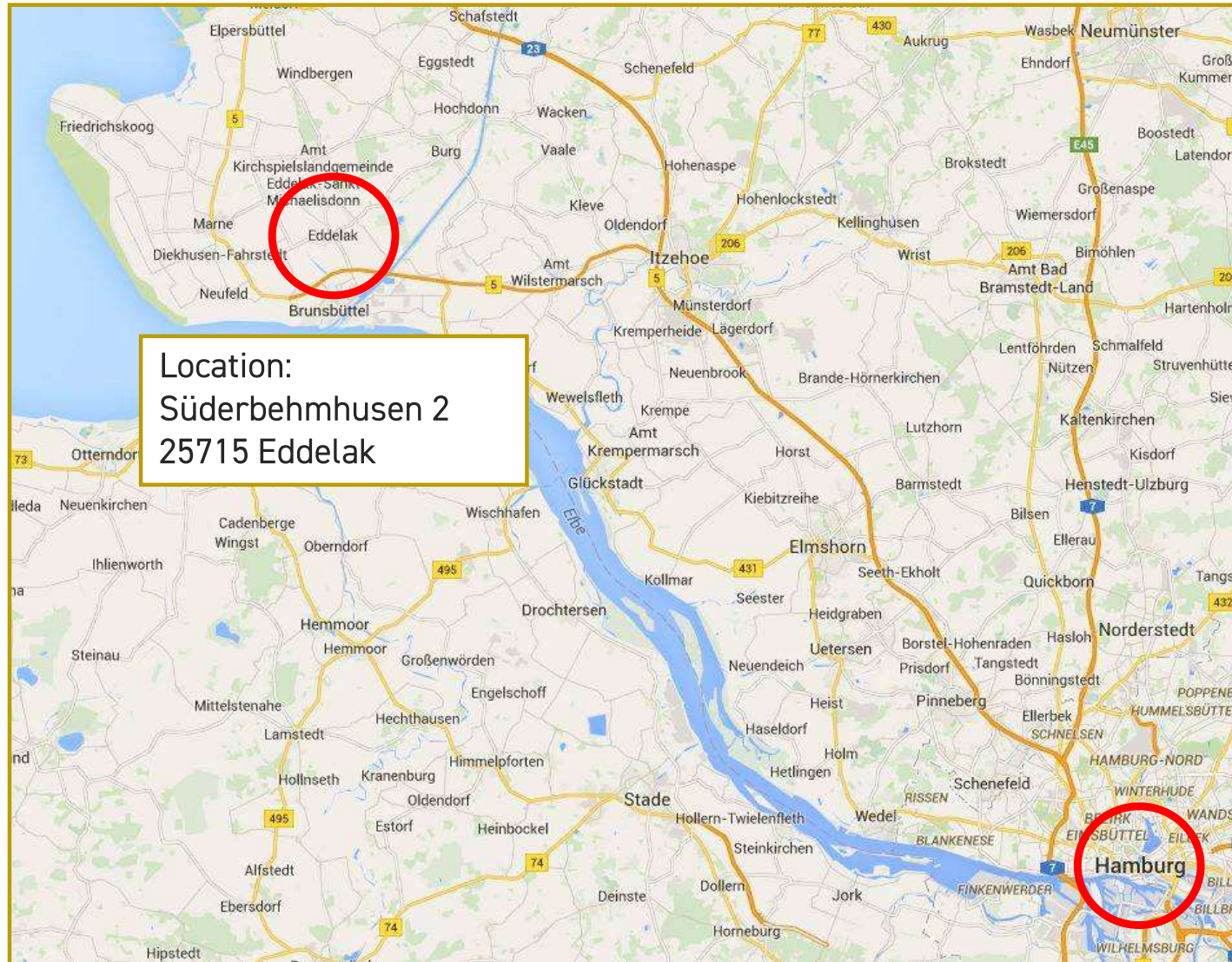


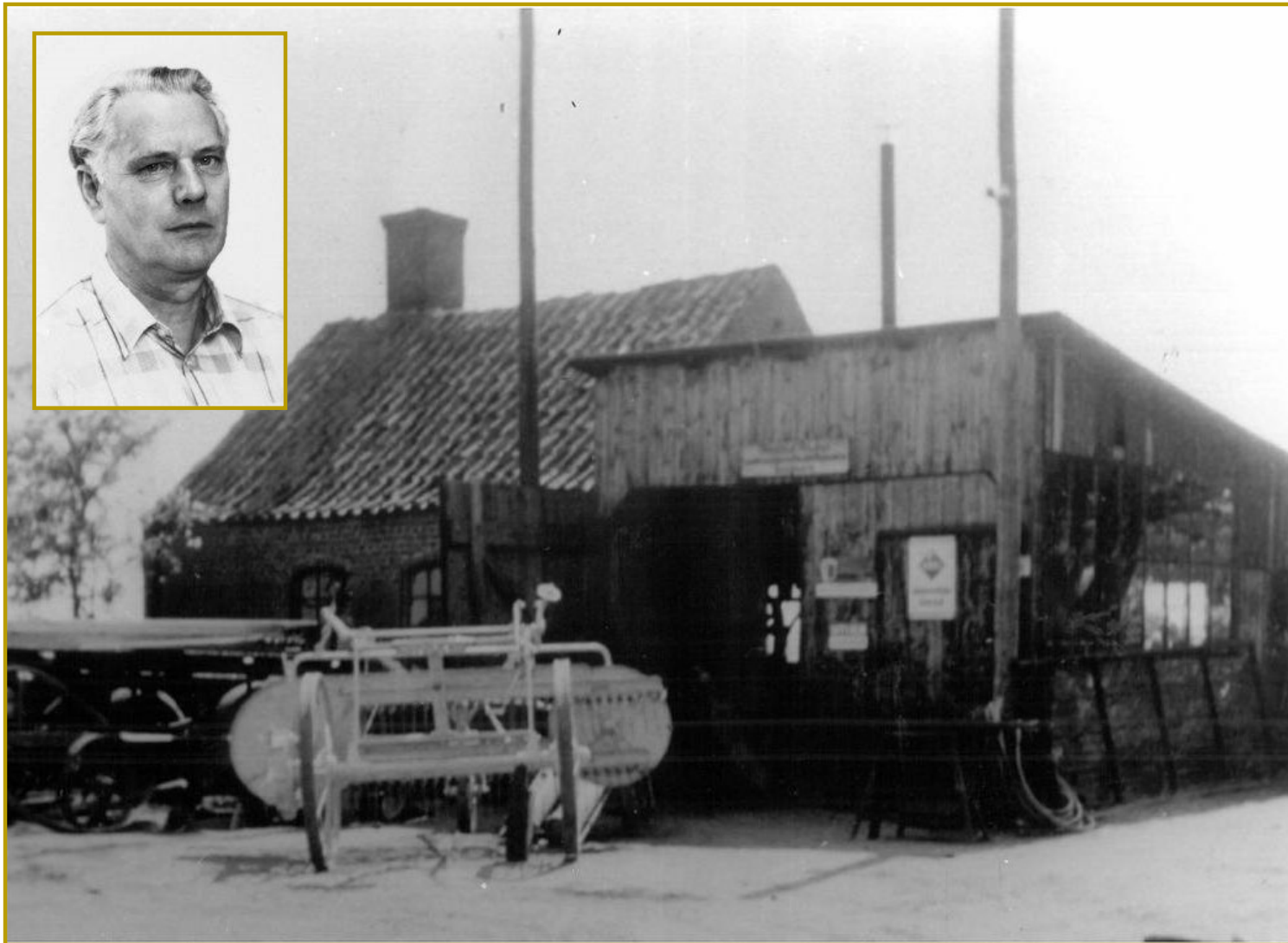
Calculation



Production







Company founder Karl Wrede and the first company building





> 4,000 m<sup>2</sup> production area  
85 x 15 m - cranes 4x 5 t, 2x 2.5 t  
70 x 30 m - cranes 2x 12.5 t, 2x 5 t  
Component weights up to 25 t craneable

Family business, second generation

Founded: 1960

Employees: approx. 45

Revenue: € 6 million (2025)

Revenue split: 45 % / 45 % / 10 %: industry / wind energy / other

Legal form: GmbH

Managing Director: Arne Jürgens

Shareholder: Dipl.-Ing. (SFI) Jan Wrede

Total assets: € 4.9 million (31.12.2025)

Equity ratio: 77 % (100% self-financed / independent of banks)

- DIN EN ISO 9001 Quality management system (QMS)
- DIN EN 1090-2 EXC 3 Execution of steel structures
- DIN EN 1090-3 EXC 3 Execution of aluminium structures
- DIN EN ISO 3834-2 Comprehensive quality requirements for fusion welding
- AD 2000-Merkblatt HP0 Manufacture of pressure vessels
- DIN 2303 Q2 / BK1 – BK4 Welding of defence products
- certified specialist company under the German Water Resources Act („WHG-Fachbetrieb“)
- DNV WELDING WORKSHOP APPROVAL CERTIFICATE (WWA)
- in-house NDT personnel DIN EN 473 VT, PT, MT (Level 2)
- certified welders DIN EN ISO 9606 (MAG, MIG, TIG, MMA)
- Material re-stamping agreement TÜV NORD Systems GmbH
- DIN EN ISO 45001 Occupational health and safety management system
- ILO OSH 2001 Occupational safety management system (AMS)
- „Sicher mit System“ (SMS) Quality seal of the German employers' liability insurance



## 1. COMPANY

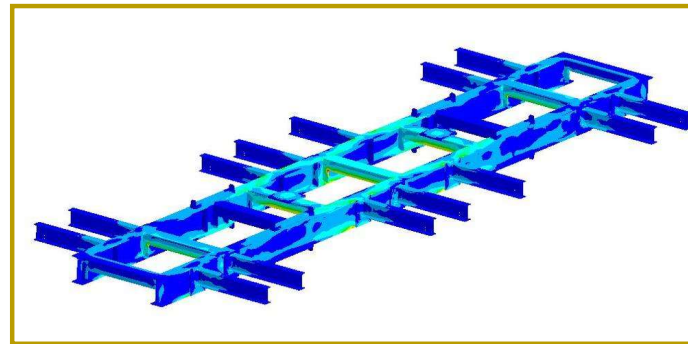
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Design



Calculation



Production

3D design (Autodesk INVENTOR)

Mobile coordinate and scan measurement

Frame structure analyses (RSTAB)

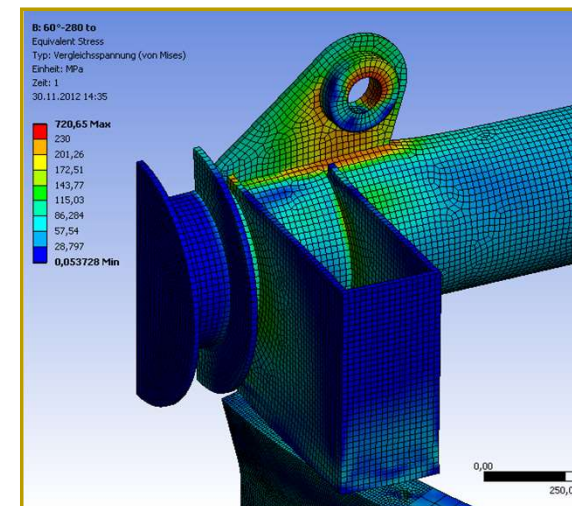
FEM analyses (ANSYS Pro NLS)

verifiable calculation documentation

Operating manuals

Risk assessments

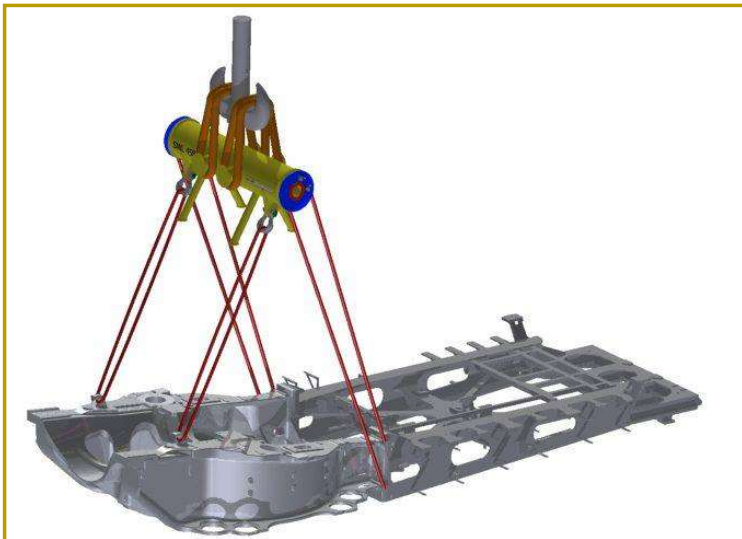
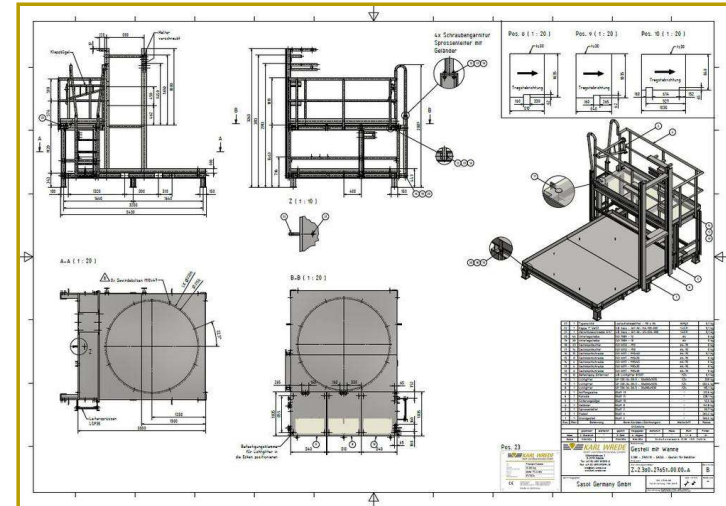
Support for component certifications



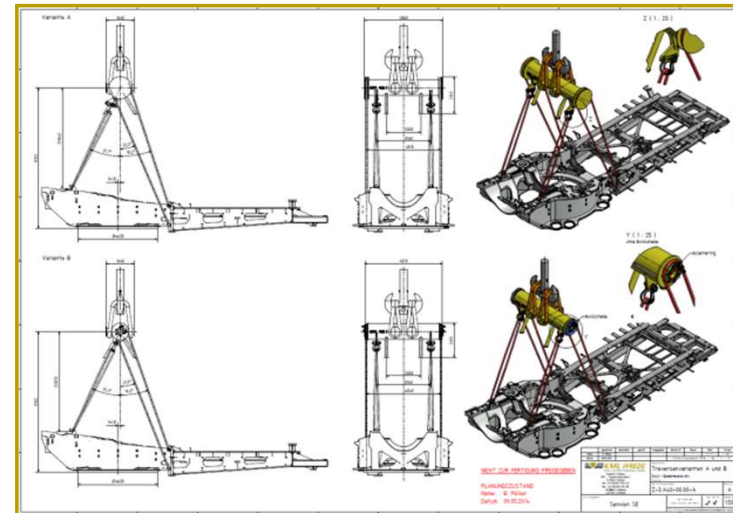
- Design, calculation and production to customer requirements / specification
- Design bases, among others
  - Machinery Directive 2006/42/EC
  - DIN EN 13155 - Cranes - Safety - Non-fixed load lifting attachments
  - DIN EN ISO 12100 - Safety of machinery
  - DIN 15003 - Lifting appliances - load-lifting equipment, loads (...)
  - DGUV Regel 100-500 - Operation of load-lifting equipment (...)
  - DNV-ST-001 - Marine operations and marine warranty
- Production after customer drawing approval
- Documentation in accordance with the Machinery Directive
  - Operating instructions, risk assessment, declaration of conformity
  - Inspection log book
  - CE marking



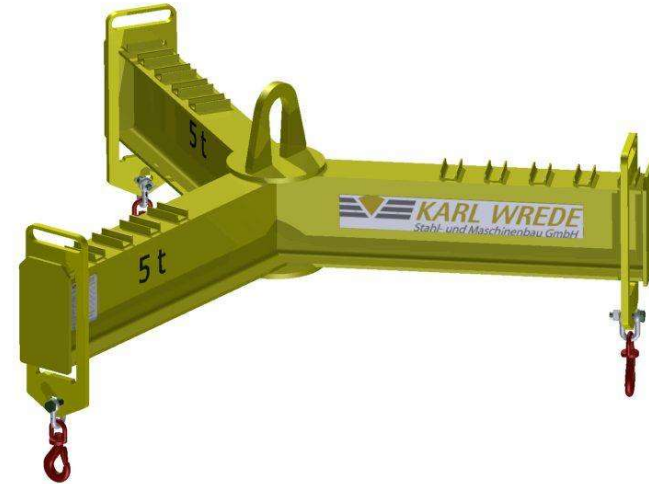
Special rack for vessels

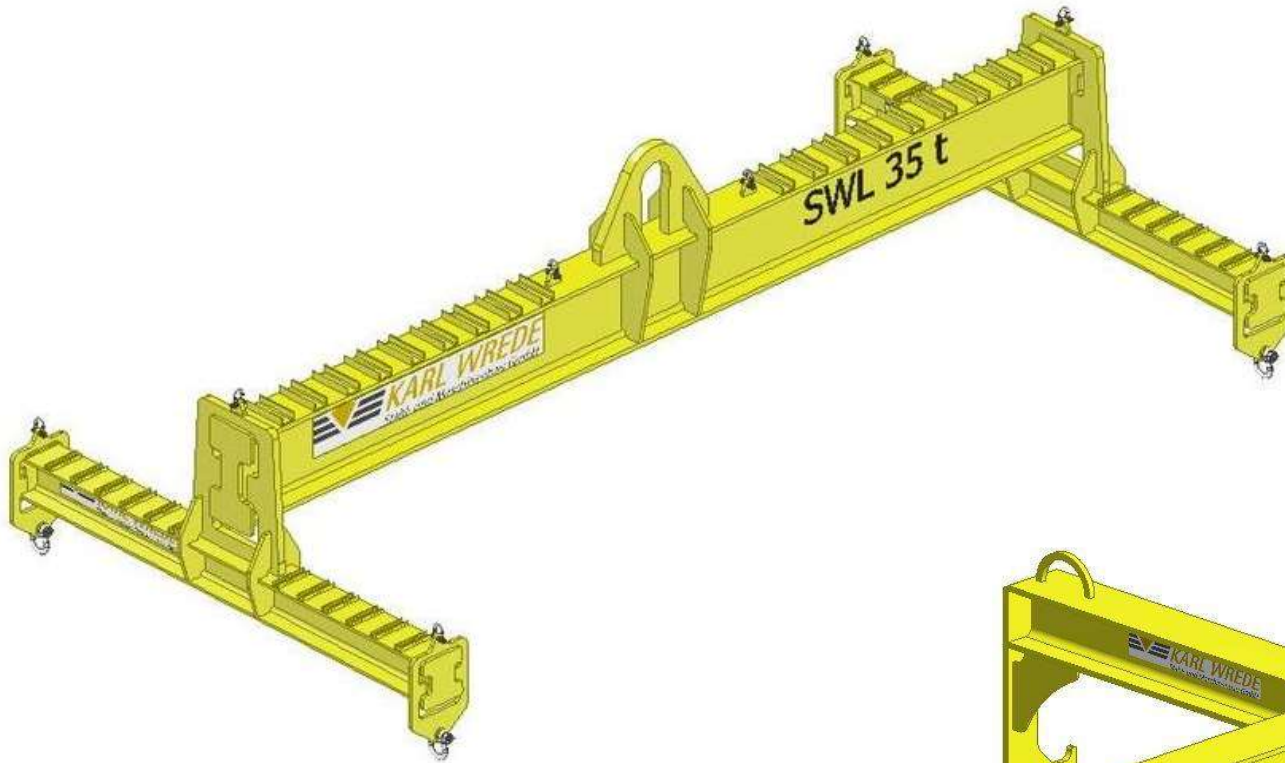


Lifting beam for nacelle SWL 480 t

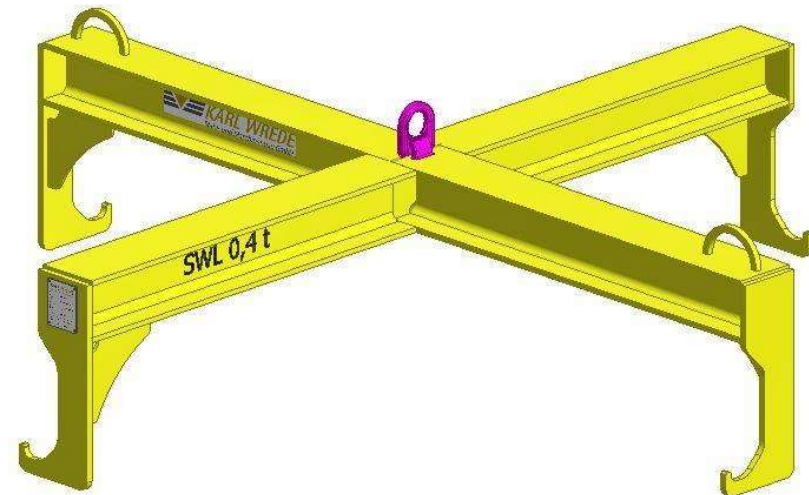




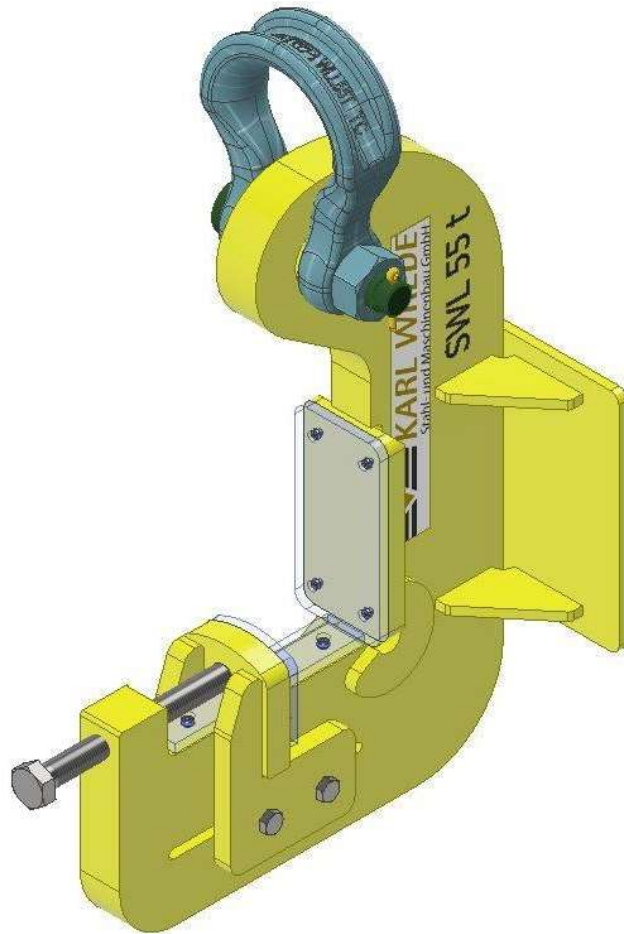




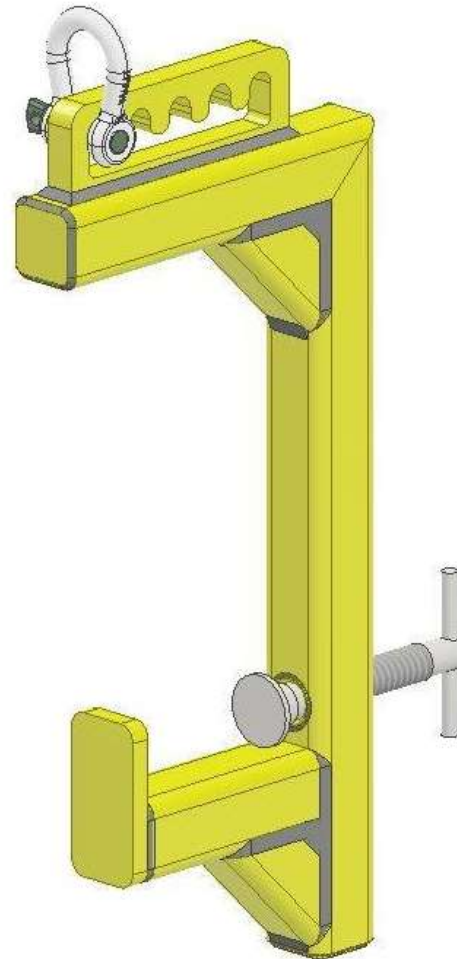
variable H-beam



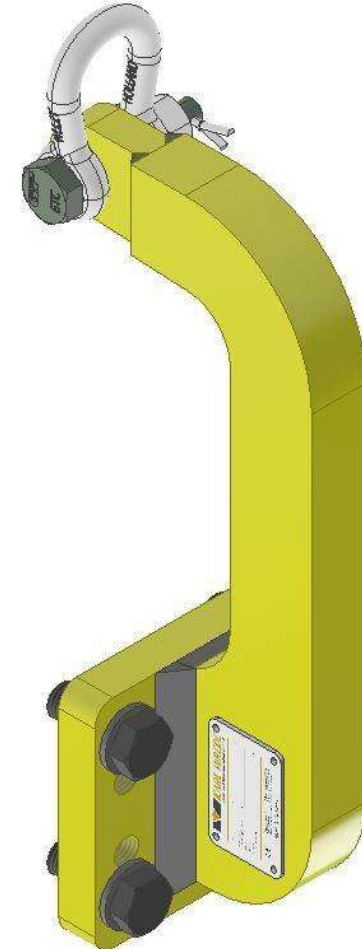
Cross lifting beam



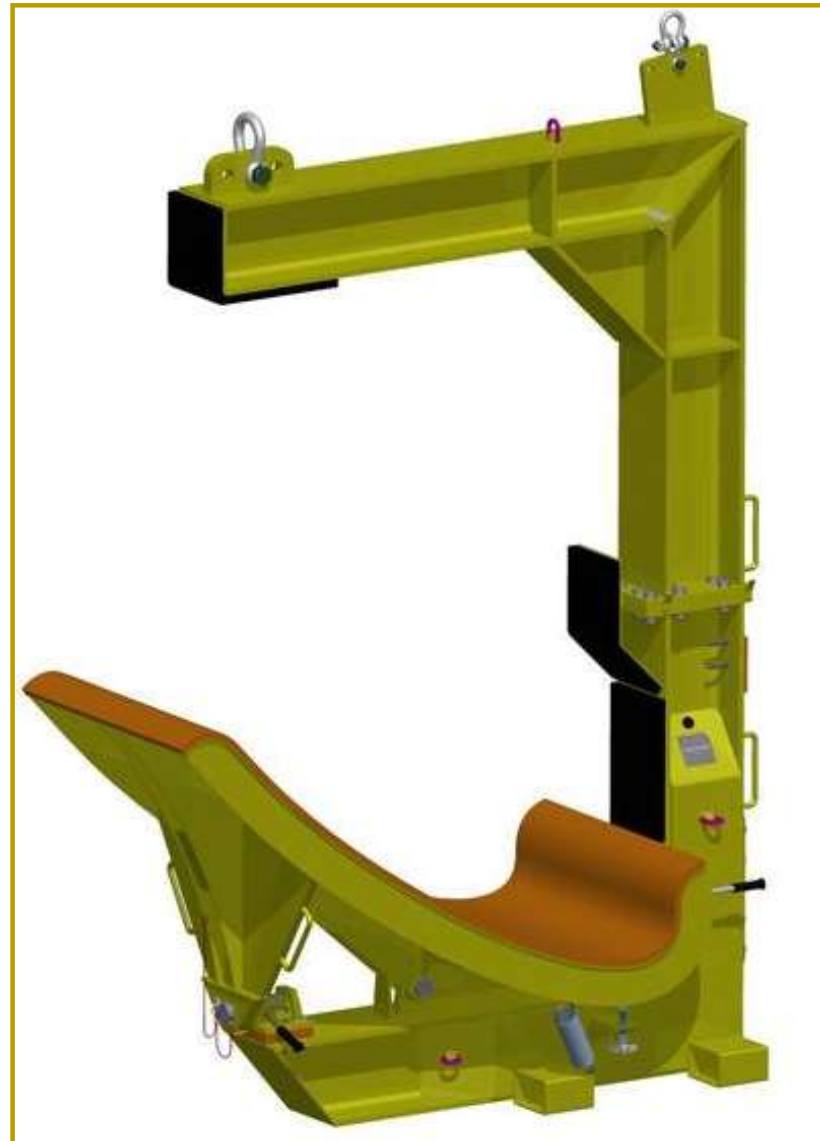
J-hook for  
tower segment



C-hook for  
bearing support

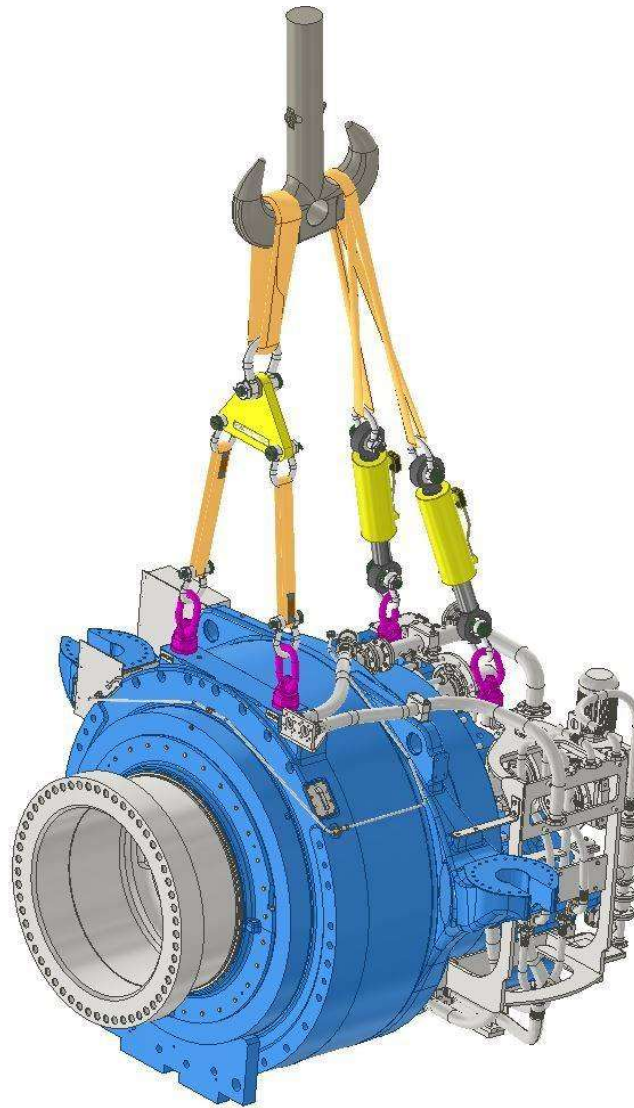


C-hook for  
manhole cover



**C-hook for rotor blade**

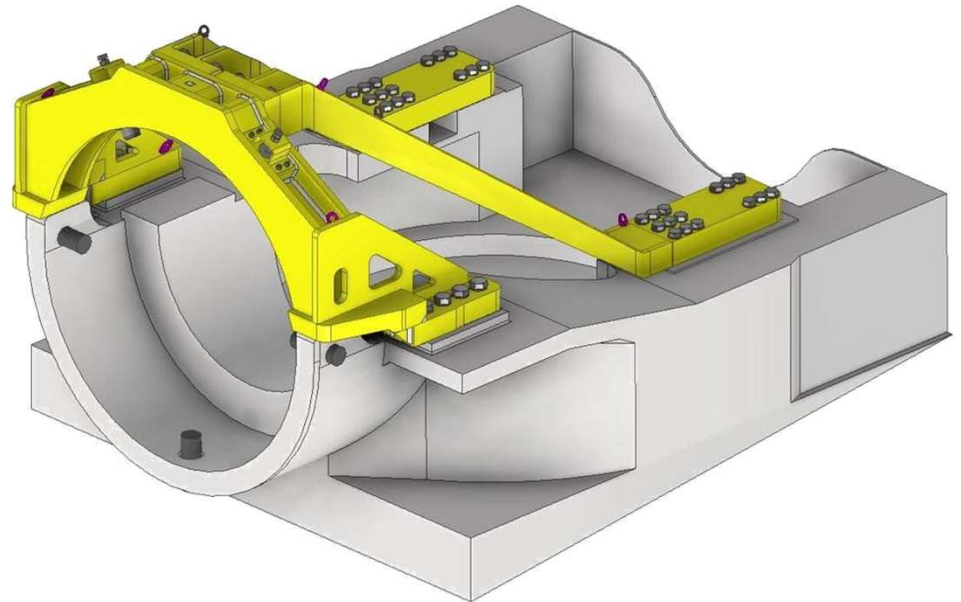




Lifting gear for gearbox – incl. hydraulic tilt adjustment



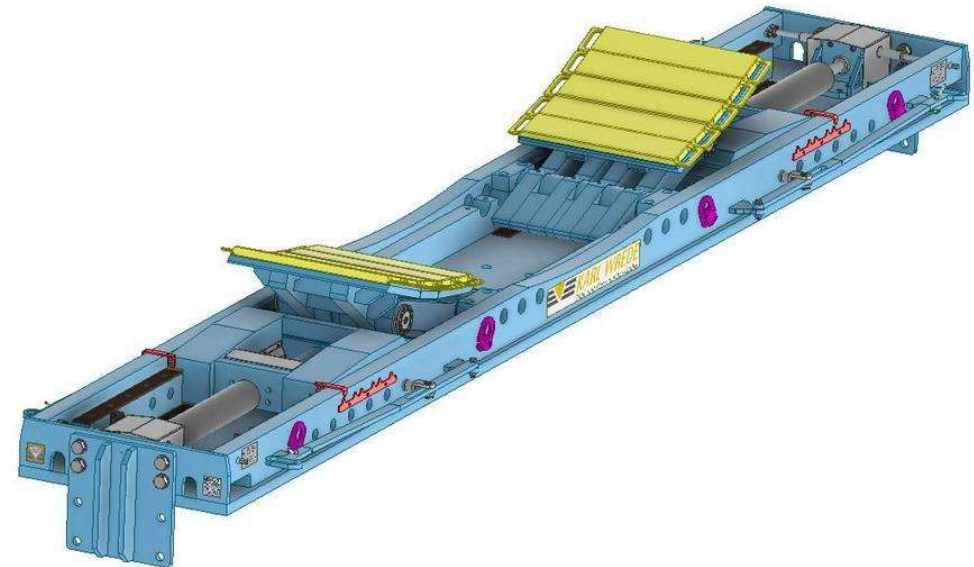
Storage rack  
Nacelle



Rotor Parking  
Tool (RPT)

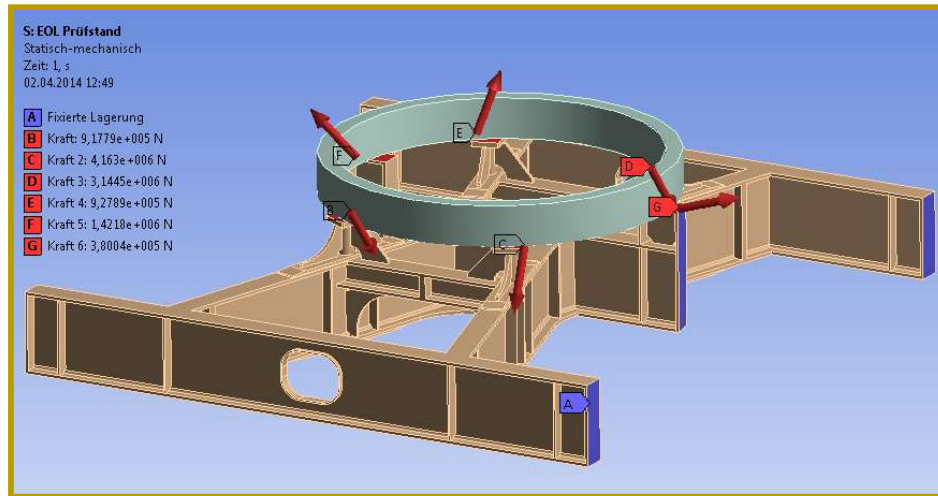


Transport rack  
Drivetrain

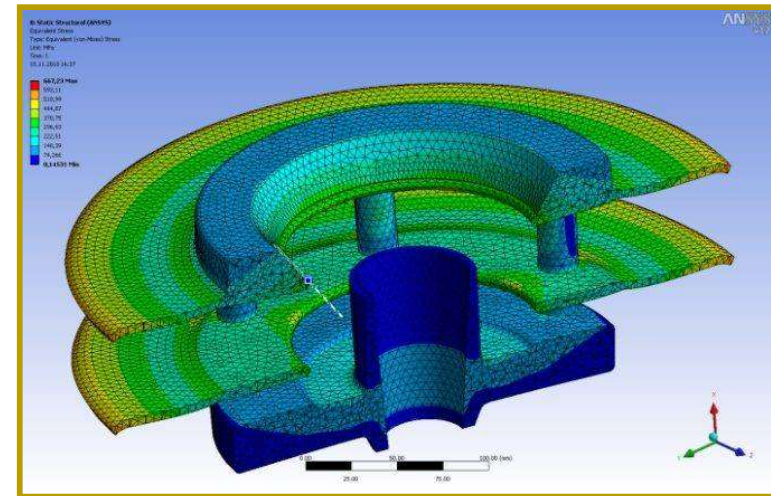


Anti-roll device

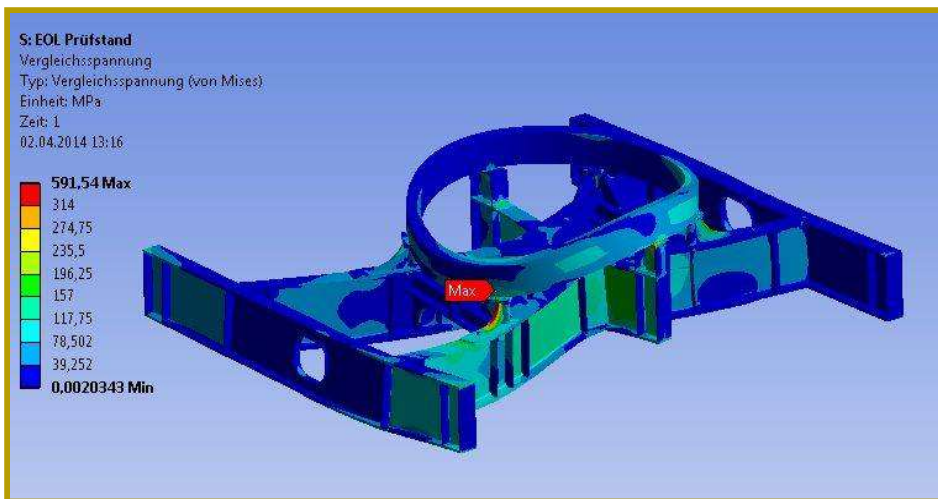




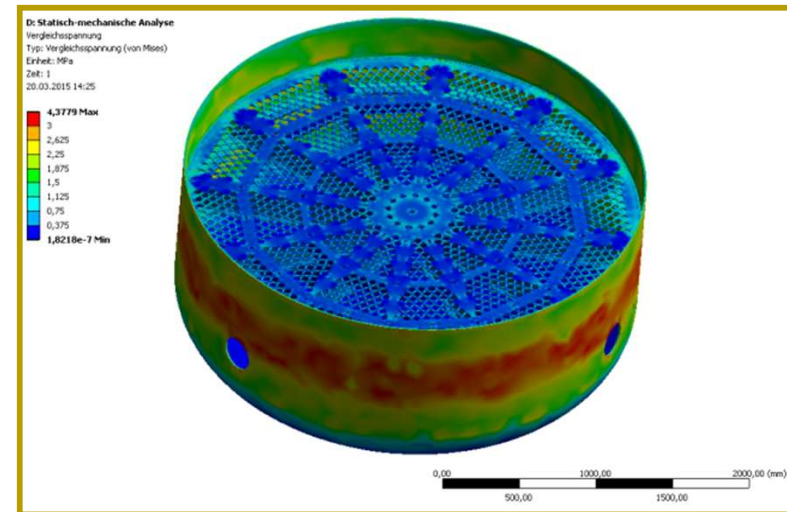
Transport rack for wind turbine



Disc stack for spray dryer

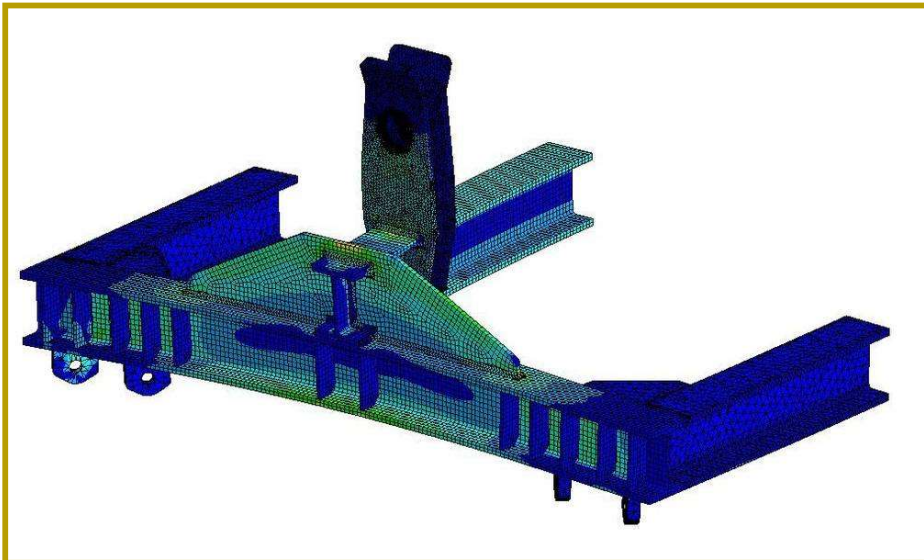
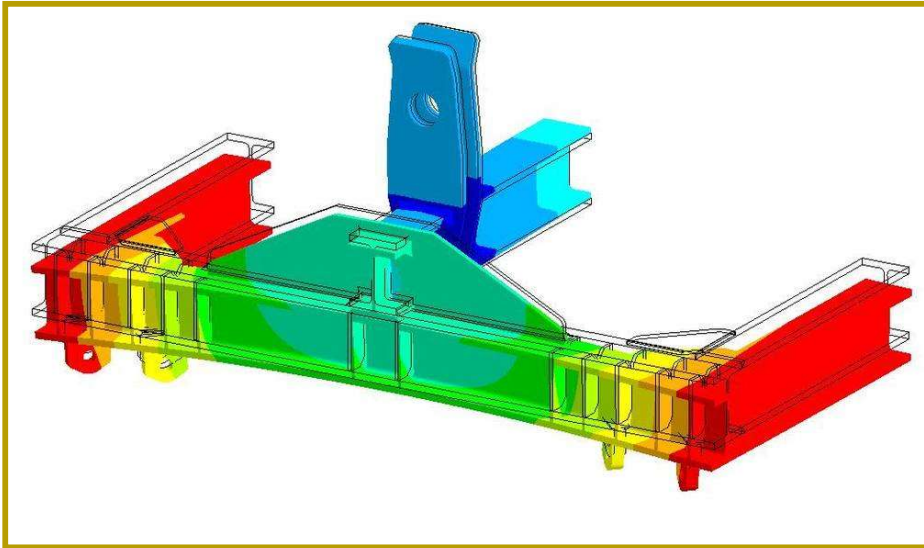


Transport rack for wind turbine



Reactor bottom head





110 t frame lifting beam



Pile lifting tool – SWL 270 t – l=25 m





Upper lifting beam for tower – SWL 180 t



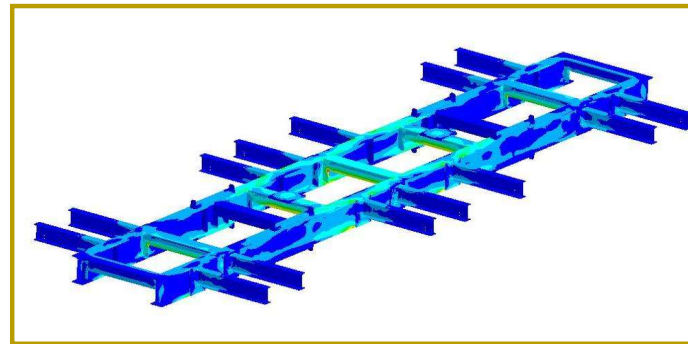
Damper frame – SWL 10 t



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Design



Calculation



Production



Special lifting beam for transformer replacement

Design – Calculation – Production: complete solutions from a single source





Rotor star lifting beam SWL 50 t





Spreader for segmented tubular steel towers



**radio-remote-controlled single blade installation beam**

Design – Calculation – Production: complete solutions from a single source





C-hook for rotor blade







Drivetrain lifting beam SWL 83 t



Lifting beam for rotor 100 t



Rotor star lifting beam SWL 180 t





C-hook SWL 110 t



Rotor star lifting beam SWL 70 t





Special lifting beams SWL 38.5 t





Approach lifting beam SWL 1.5 t





**Spreader SWL 280 t and tower lifting device SWL 180 t**



**Spreader SWL 280 t and tower lifting device in operation**





**Assembly lifting beam 250 t with rotatable H-beam and hydraulic centre of gravity adjustment**



Nacelle lifting beam SWL 480 t





**Spreader beam SWL 950 t**





radio-remote-controlled installation beam SWL 650 t



**Installation beam SWL 650 t in operation**





radio-remote-controlled and fully automatic installation beam SWL 950 t



radio-remote-controlled and fully automatic installation beam SWL 950 t in operation



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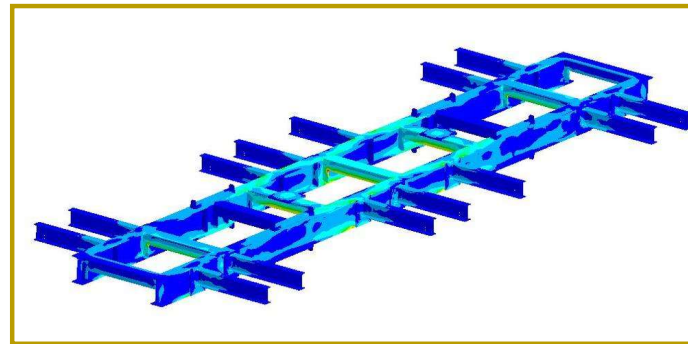
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Design



Calculation



Production



Transport rack for rotor shaft assembly





Transport rack for wind turbine





offshore-flatrack





**Rotor shaft holding clamp NORDEX N90**



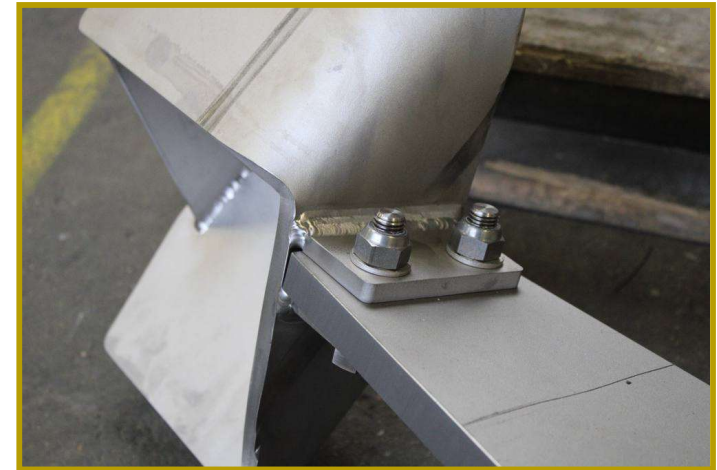


Anti-roll devices WLL 460 t





Titanium agitator



## WHAT SETS US APART AS A COMPANY?

- Family business with flat hierarchies, direct communication and a hands-on mentality
- innovative company management
- over 65 years of successful company history
- in-house design department
- from A for press braking to Z for machining – everything from a single source
- regionally unique machine park incl. large part machining
- short response times, flexible repair service in emergencies



THANK YOU FOR YOUR ATTENTION!



ANY QUESTIONS?