

# COMPANY PRESENTATION

## WIND ENERGY

Eddelak | 27.07.2026

## AGENDA

### 1. COMPANY

### 2. REFERENCE COMPONENTS

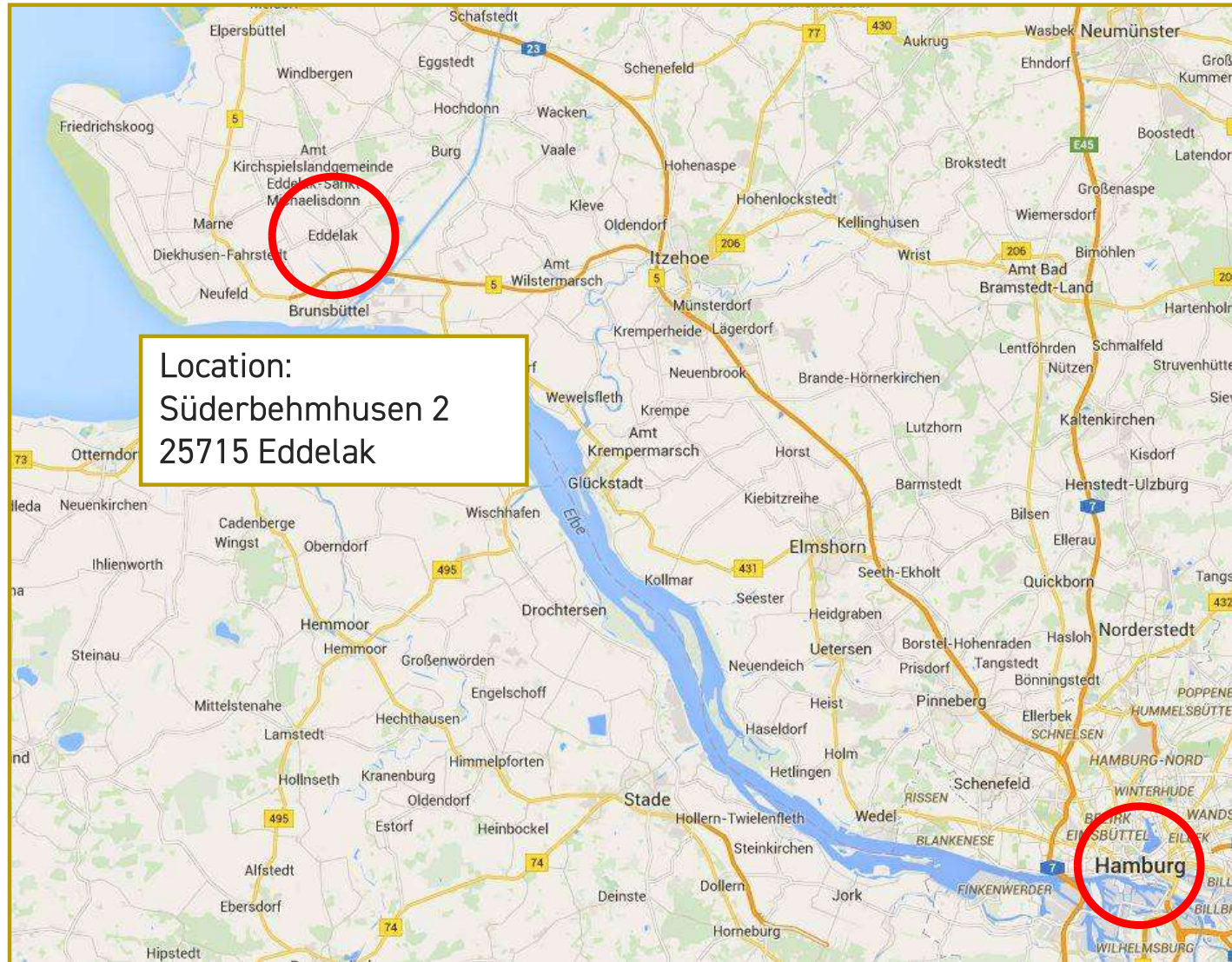
- LIFTING DEVICES                      ONSHORE
- TRANSPORT EQUIPMENT ONSHORE
- OPERATING EQUIPMENT ONSHORE
  
- LIFTING DEVICES                      OFFSHORE
- TRANSPORT EQUIPMENT OFFSHORE
- OPERATING EQUIPMENT OFFSHORE

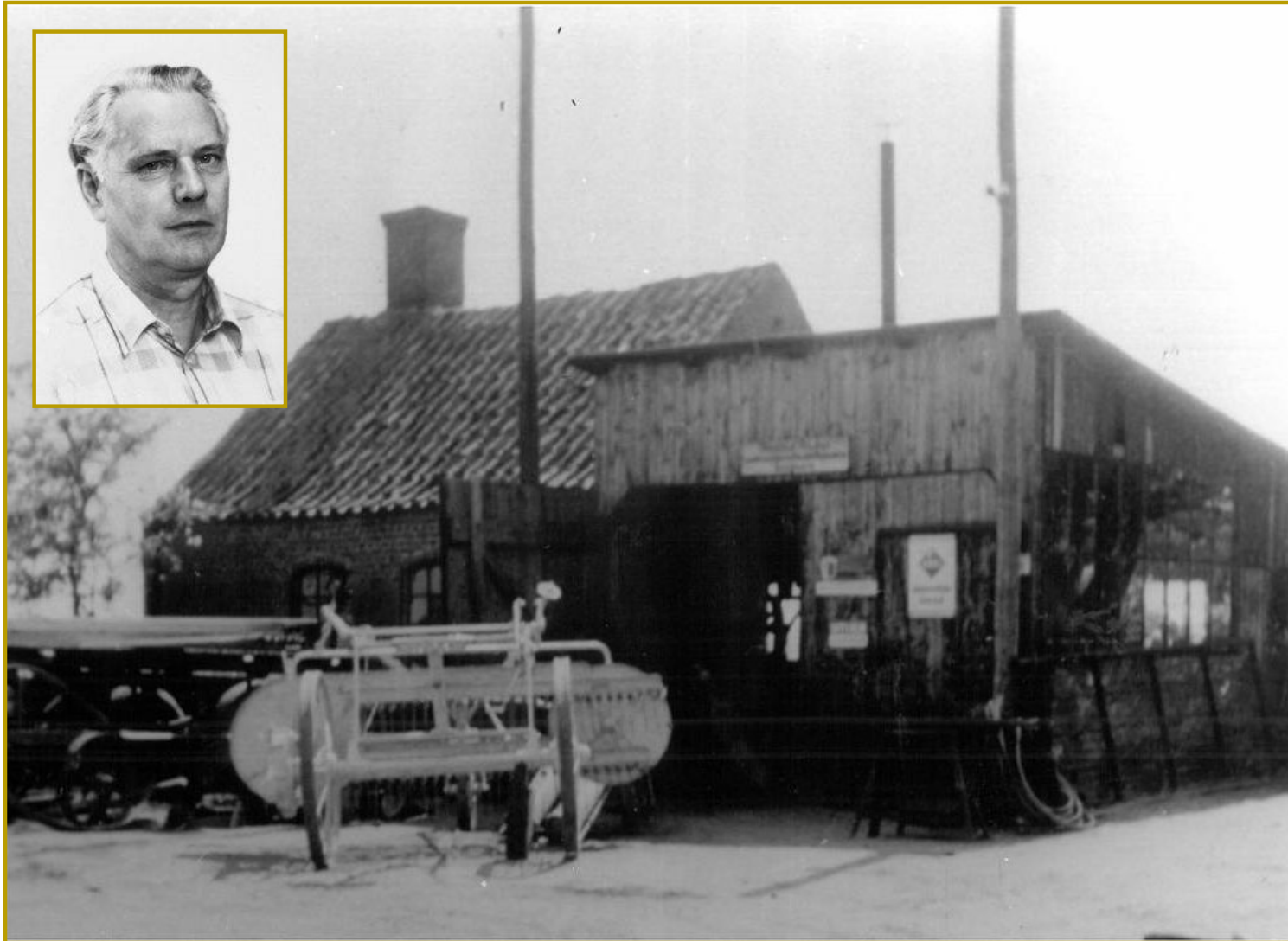
## AGENDA

### 1. COMPANY

### 2. REFERENCE COMPONENTS

- LIFTING DEVICES                      ONSHORE
- TRANSPORT EQUIPMENT ONSHORE
- OPERATING EQUIPMENT ONSHORE
  
- LIFTING DEVICES                      OFFSHORE
- TRANSPORT EQUIPMENT OFFSHORE
- OPERATING EQUIPMENT OFFSHORE





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





3D design (Autodesk INVENTOR)

Mobile coordinate and scan measurement

Frame structure analyses (RSTAB)

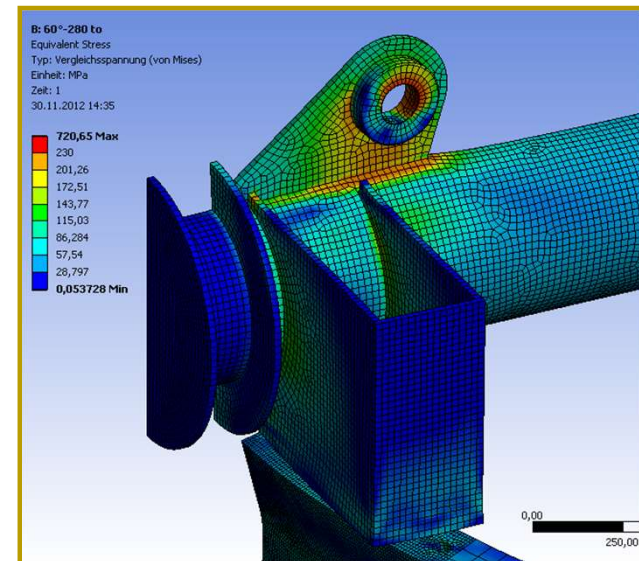
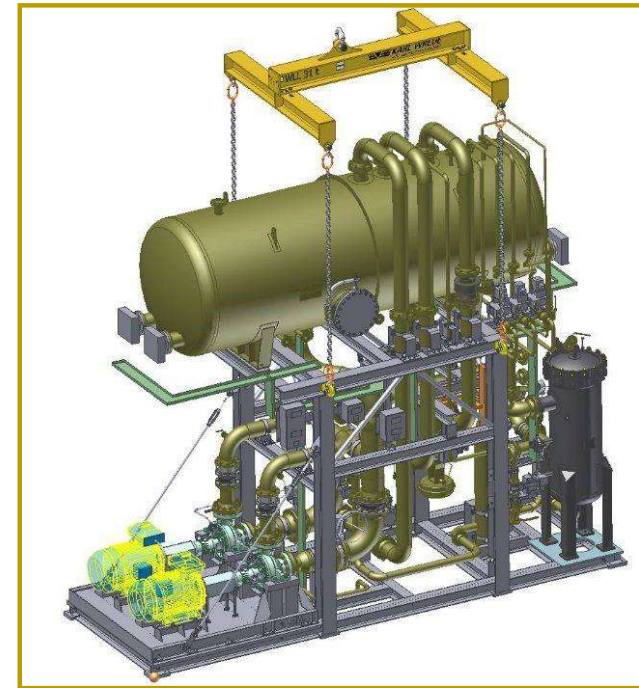
FEM analyses (ANSYS Pro NLS)

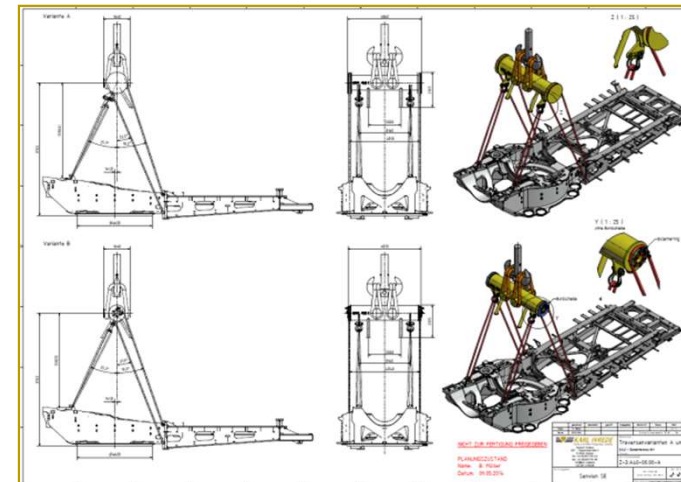
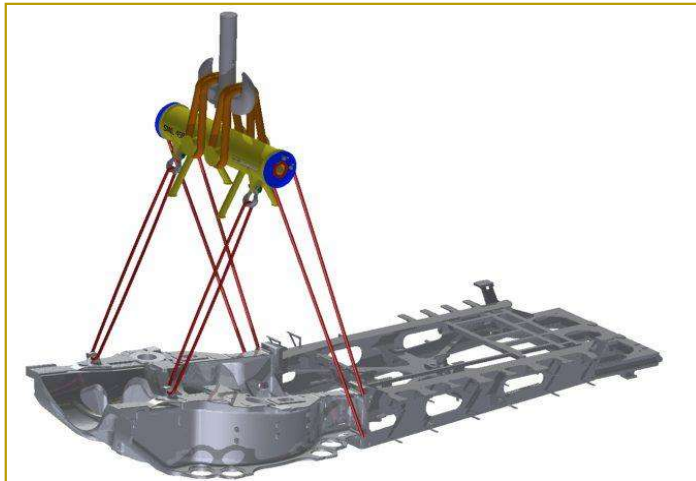
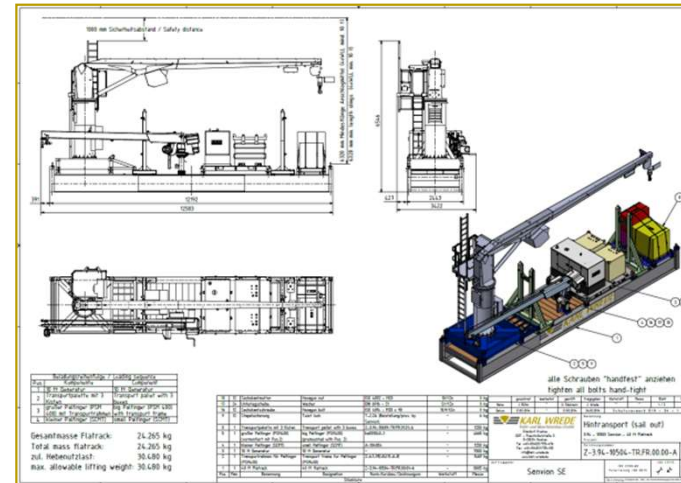
verifiable calculation documentation

Operating manuals

Risk assessments

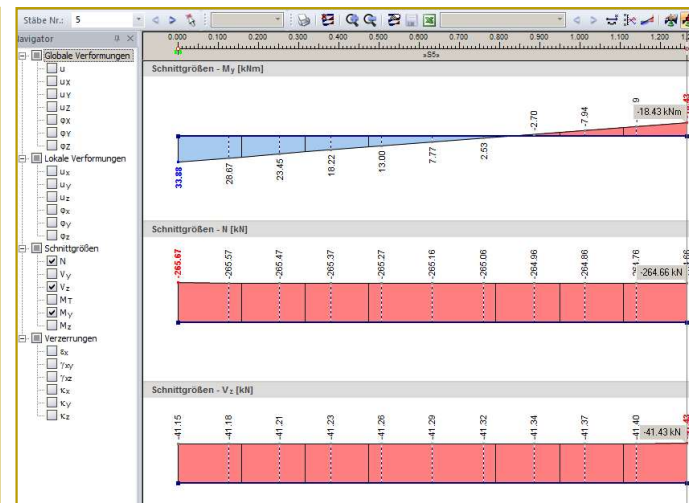
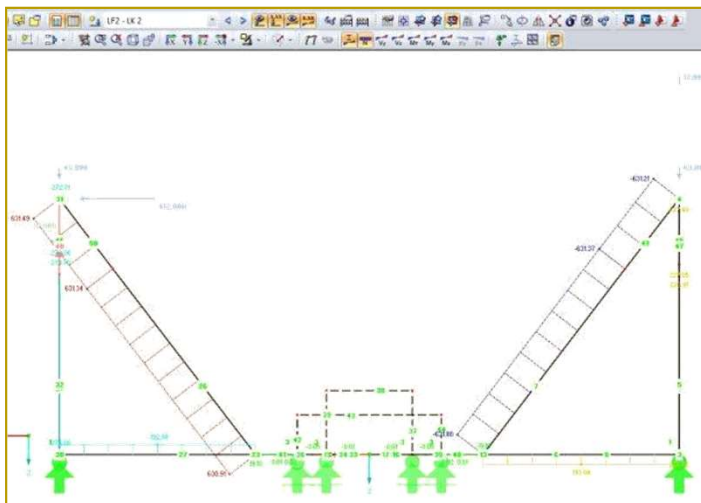
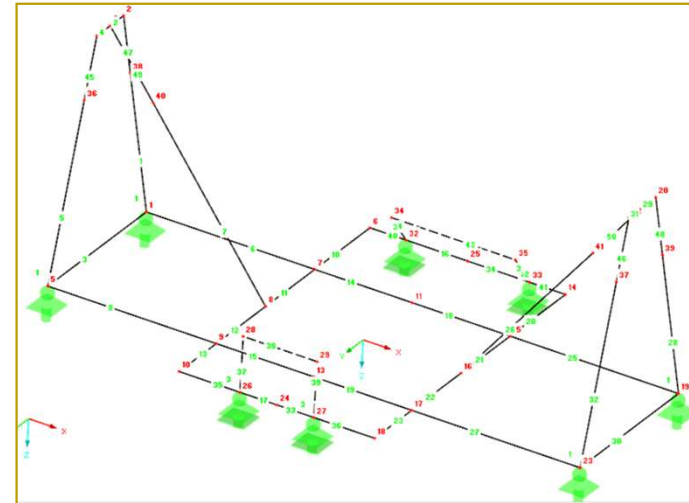
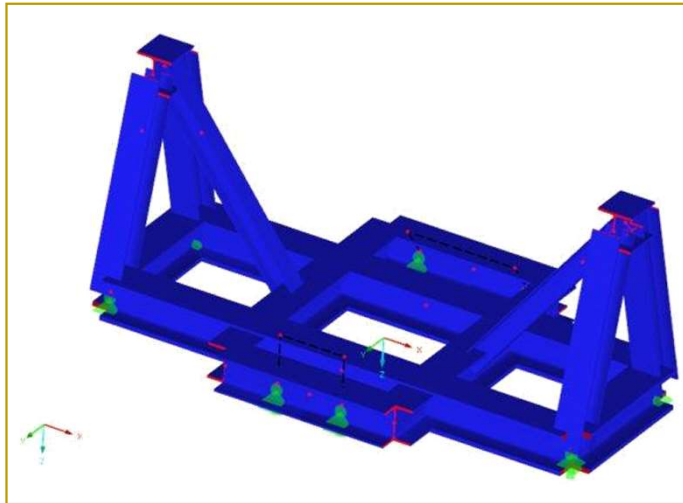
Support during certification



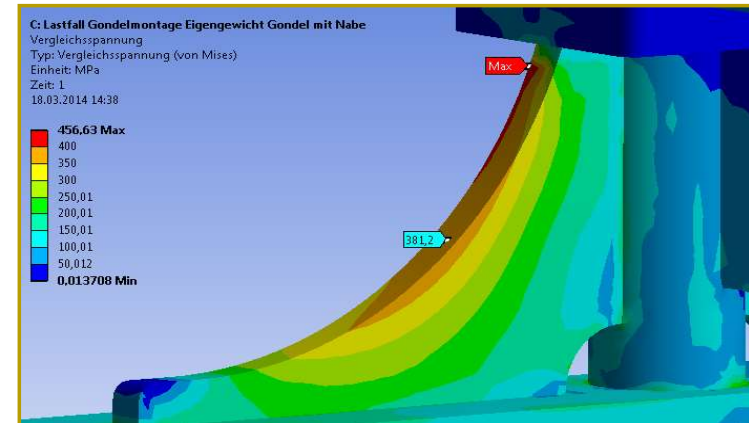
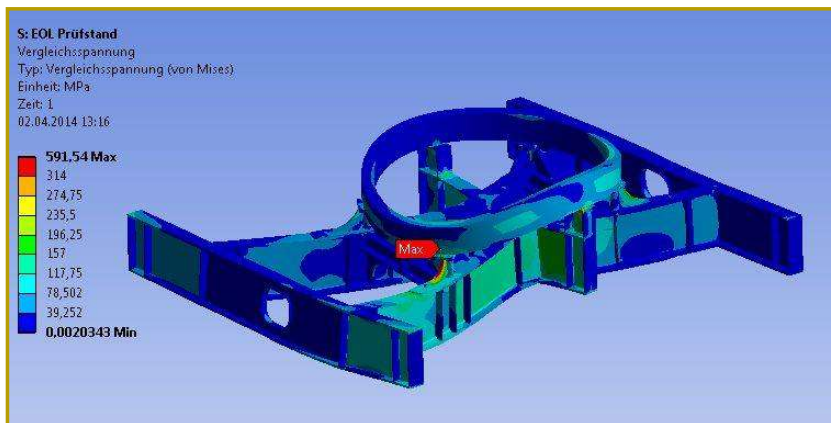
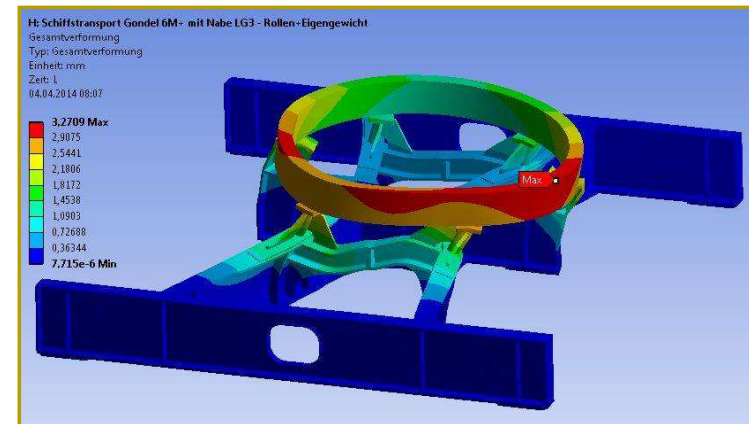
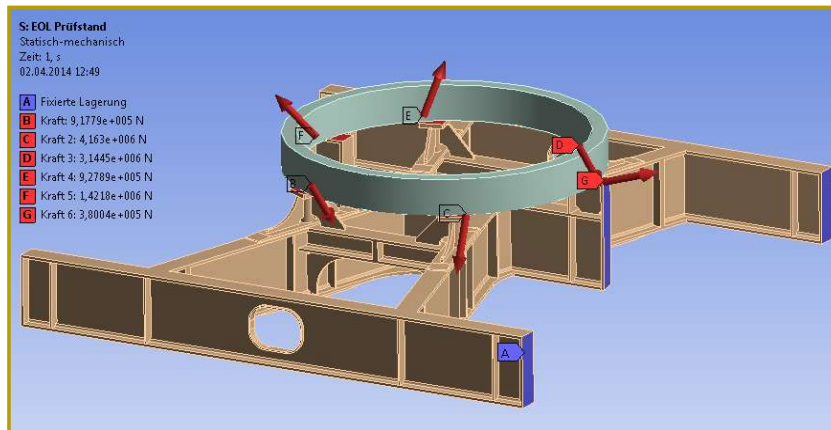




## Frame structure analyses with RSTAB



## FEM calculations with ANSYS Workbench





## AGENDA

### 1. COMPANY

### 2. REFERENCE COMPONENTS

- LIFTING DEVICES                      ONSHORE
- TRANSPORT EQUIPMENT ONSHORE
- OPERATING EQUIPMENT ONSHORE
  
- LIFTING DEVICES                      OFFSHORE
- TRANSPORT EQUIPMENT OFFSHORE
- OPERATING EQUIPMENT OFFSHORE

## 2. REFERENCE COMPONENTS







Single blade installation beam



Coupling beam for generator 100 t





250 t assembly lifting beam combination



250 t assembly lifting beam combination





Rotor shaft assembly transport frame and lifting beam 5/6 MW





Lifting beam system for nacelle cover 6 MW





Rotor star lifting beam 2 MW





Lifting beam system for lifting and turning the hub 3 MW





Rotor star lifting beam 2.3 MW – SWL 50 t



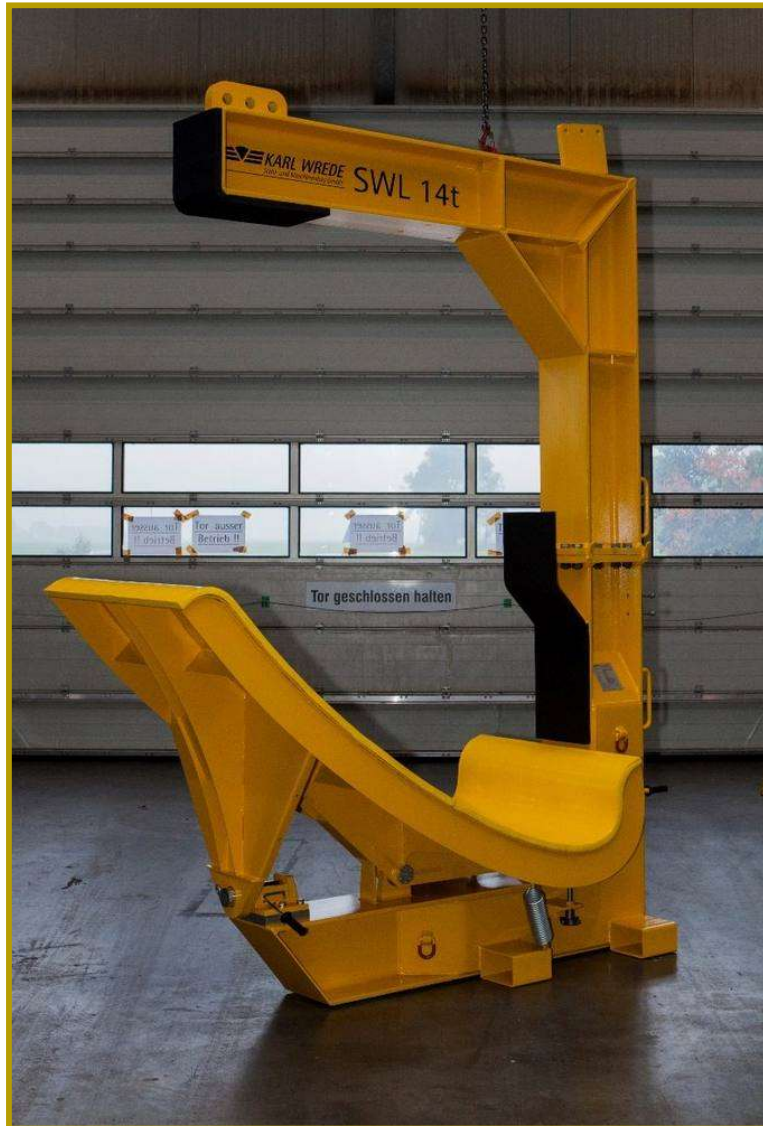


Lifting beam for transformer replacement



Lifting beam combination for drivetrain 6 MW





Lifting beam for rotor blade (tip side) 6 MW



Lifting beam for rotor shaft assembly 6 MW





Single blade installation beam



## AGENDA

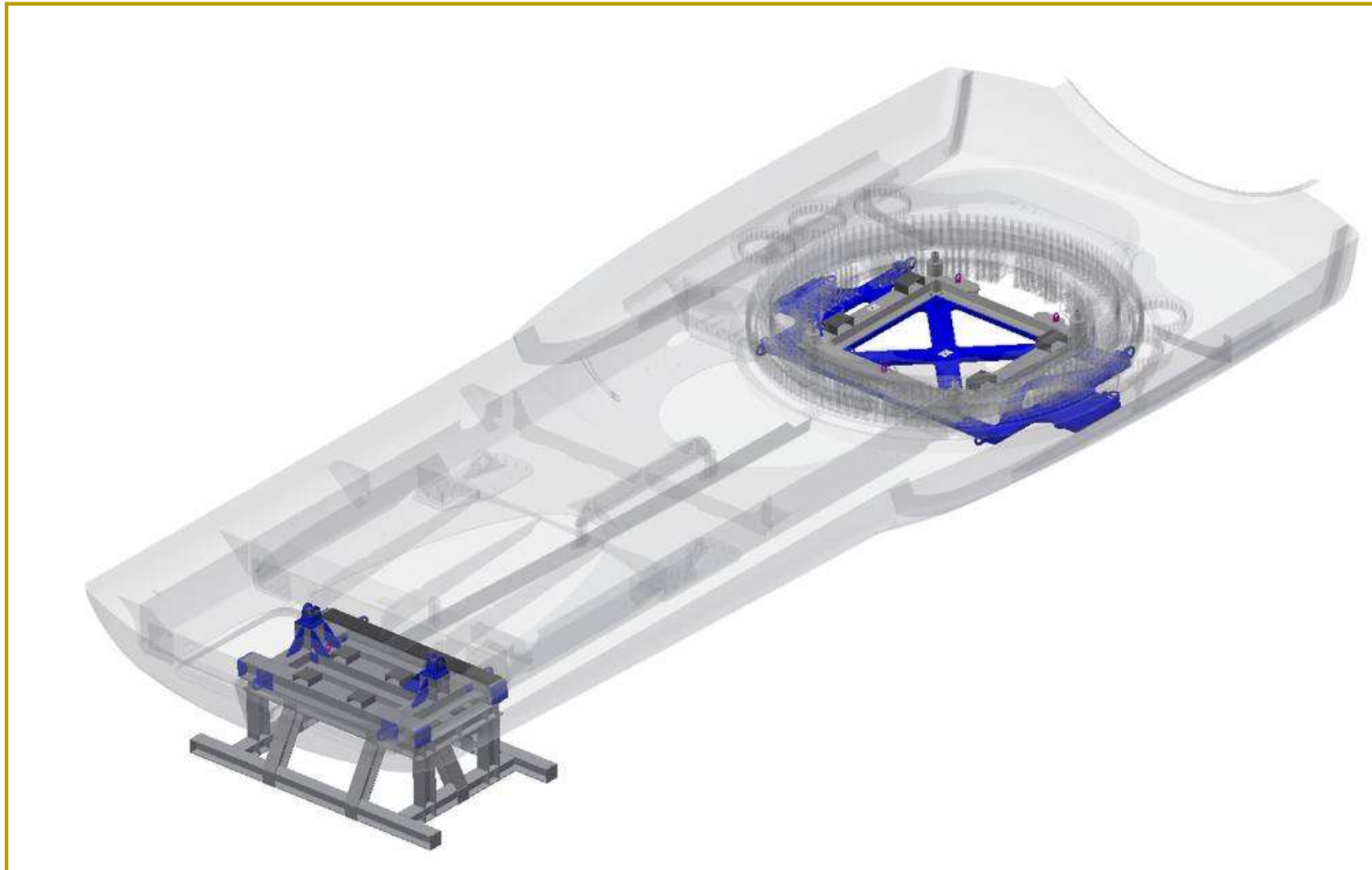
### 1. COMPANY

### 2. REFERENCE COMPONENTS

- LIFTING DEVICES                      ONSHORE
- **TRANSPORT EQUIPMENT**    **ONSHORE**
- OPERATING EQUIPMENT    ONSHORE
  
- LIFTING DEVICES                      OFFSHORE
- TRANSPORT EQUIPMENT    OFFSHORE
- OPERATING EQUIPMENT    OFFSHORE



Transport rack for rotor hub 3 MW



Transport rack combination for nacelle 3 MW





Storage rack for rotor star 5/6 MW

## AGENDA

### 1. COMPANY

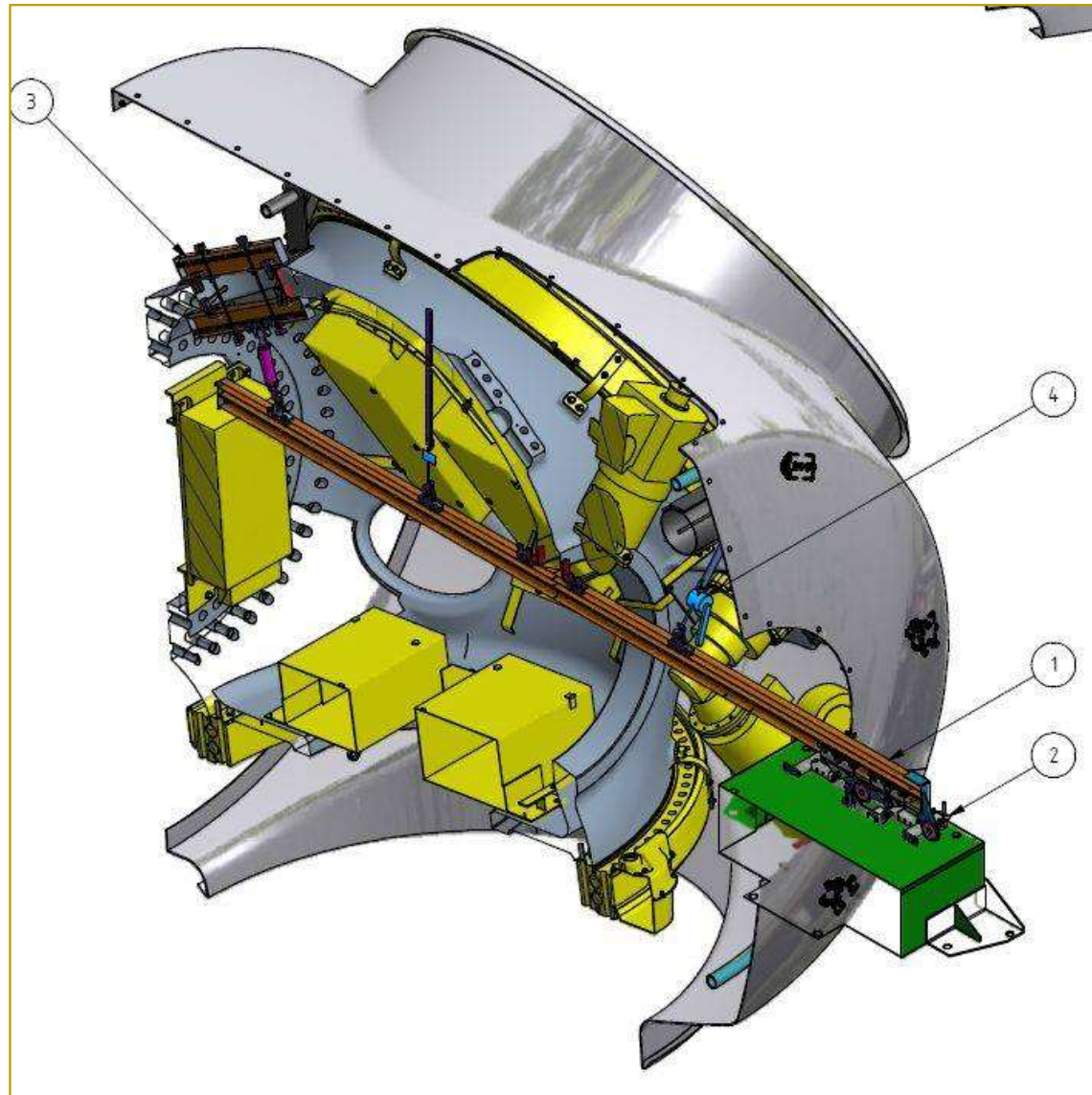
### 2. REFERENCE COMPONENTS

- LIFTING DEVICES                      ONSHORE
- TRANSPORT EQUIPMENT ONSHORE
- OPERATING EQUIPMENT    ONSHORE
  
- LIFTING DEVICES                      OFFSHORE
- TRANSPORT EQUIPMENT OFFSHORE
- OPERATING EQUIPMENT    OFFSHORE



Turning device for drivetrain for service use





Dismantling device for battery box



Anchor cage template 3 MW





Rotor blade support stands 3/5/6 MW





Hydraulic rotary drive system for drivetrain 3 MW (single blade installation)



universal storage table for rotor star



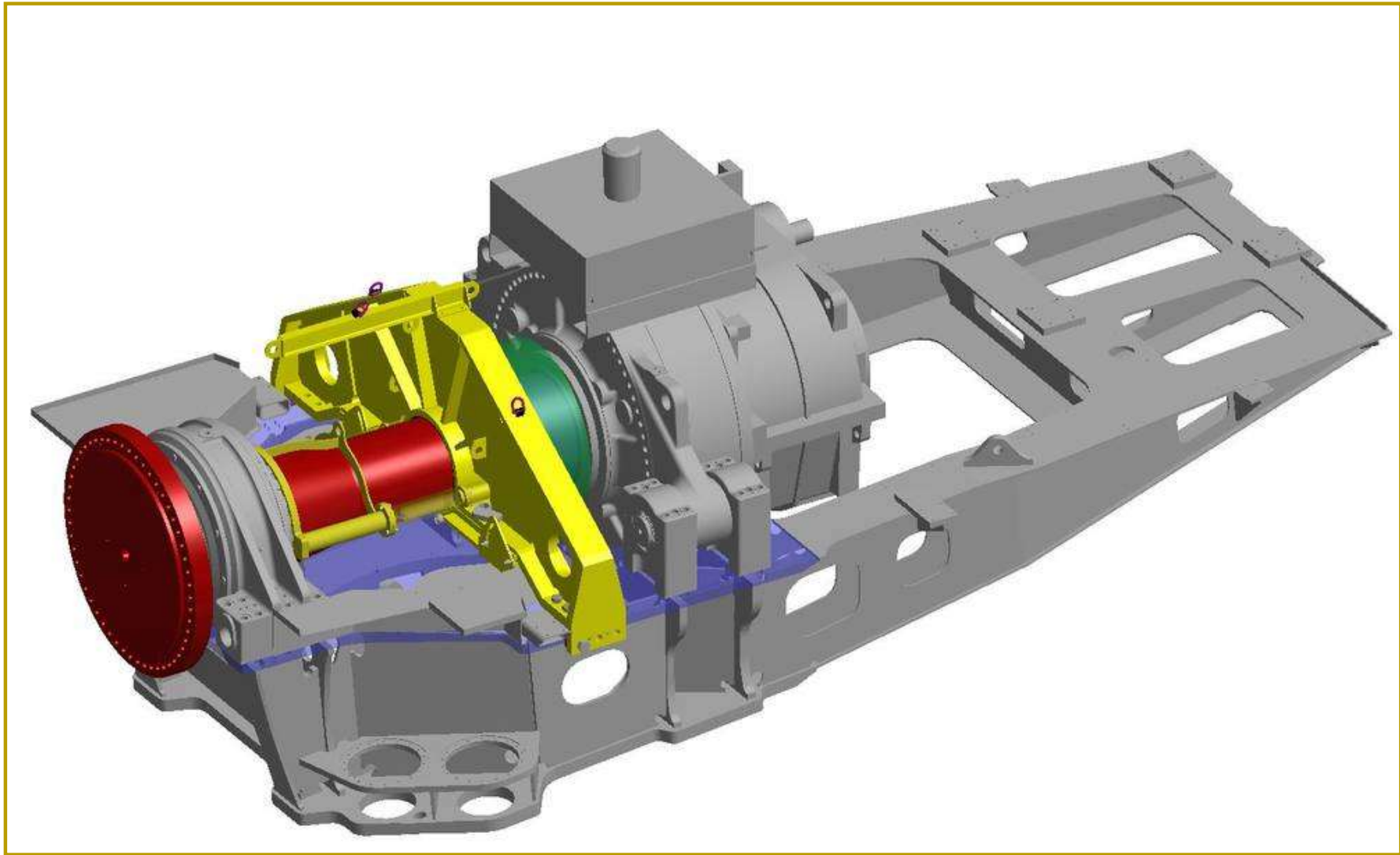


Assembly platform for rotor star





Rotor shaft holding clamp Siemens 2.3 MW



Rotor shaft holding clamp 2 MW





Rotor shaft holding clamp MM





Turning device for machine housing 150 t



Spreader and pre-assembly device for segmented tubular steel tower

## AGENDA

### 1. COMPANY

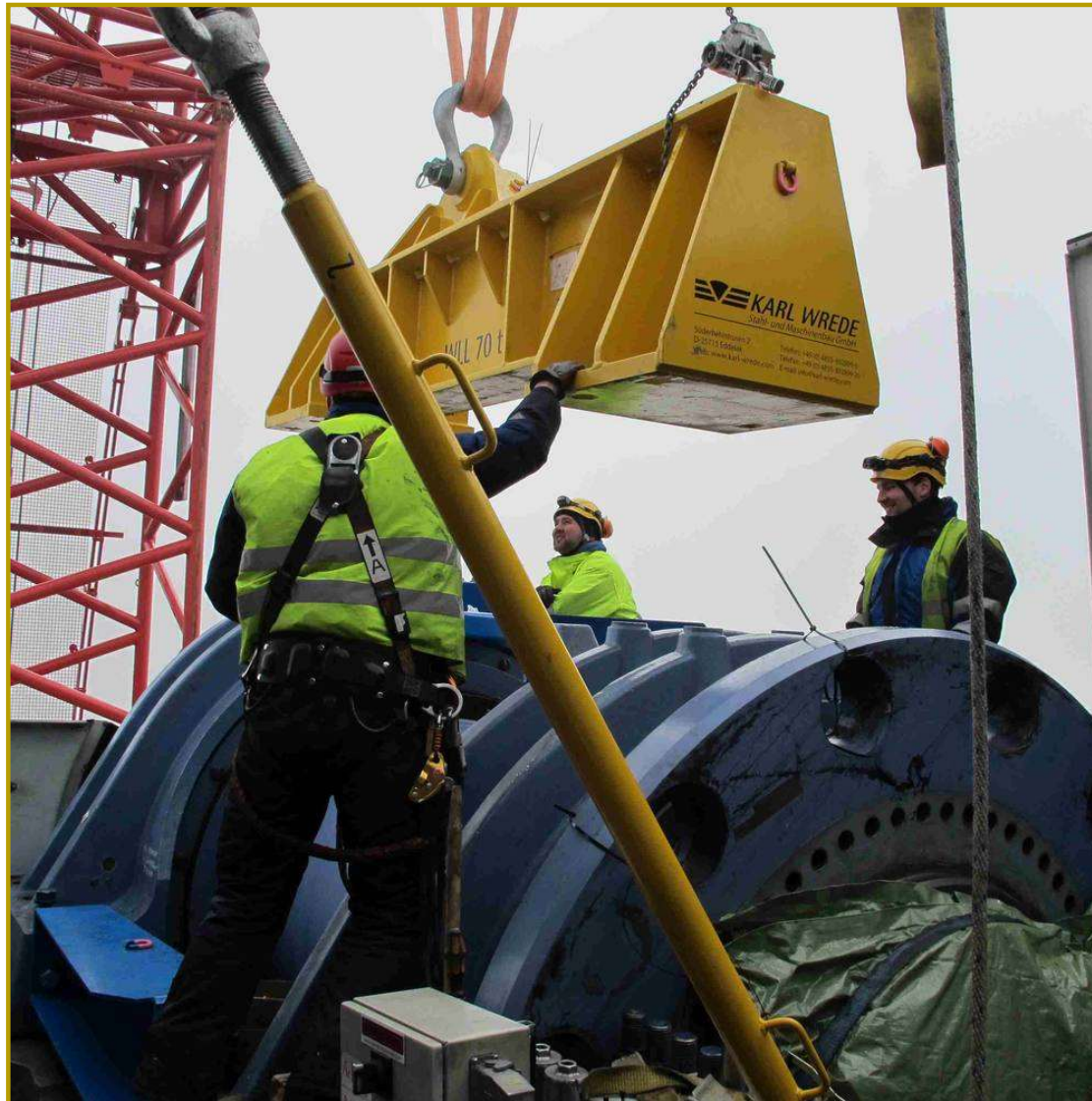
### 2. REFERENCE COMPONENTS

- LIFTING DEVICES                      ONSHORE
- TRANSPORT EQUIPMENT ONSHORE
- OPERATING EQUIPMENT ONSHORE
  
- LIFTING DEVICES                      OFFSHORE
- TRANSPORT EQUIPMENT OFFSHORE
- OPERATING EQUIPMENT OFFSHORE





Lifting device for rotor star SWL 180 t – 6 MW



Lifting beam for rotor shaft assembly 5/6 MW



Lifting device for tower SWL 280 t with cover plate





Lifting device for tower SWL 280/400 t



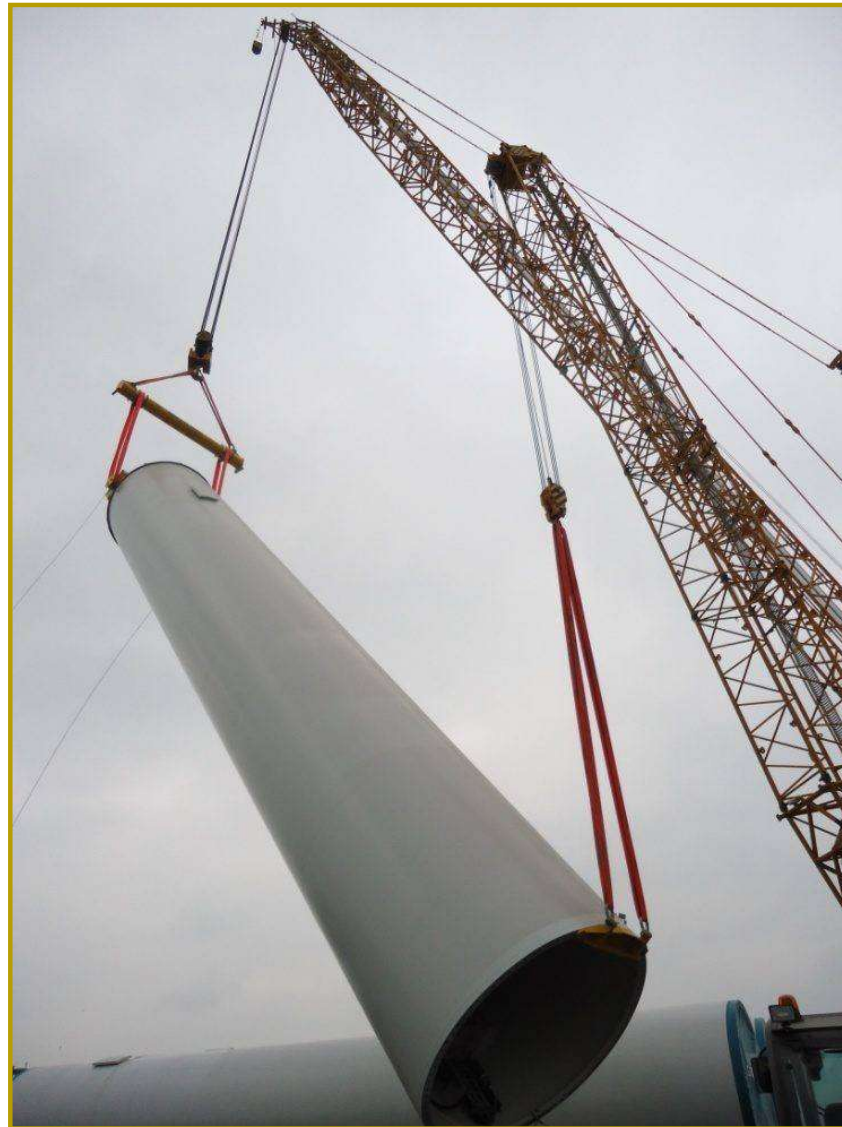
Lifting device for tower SWL 150 t





Lifting device, spreader and tower SWL 280 t





Lifting device for tower SWL 280 t



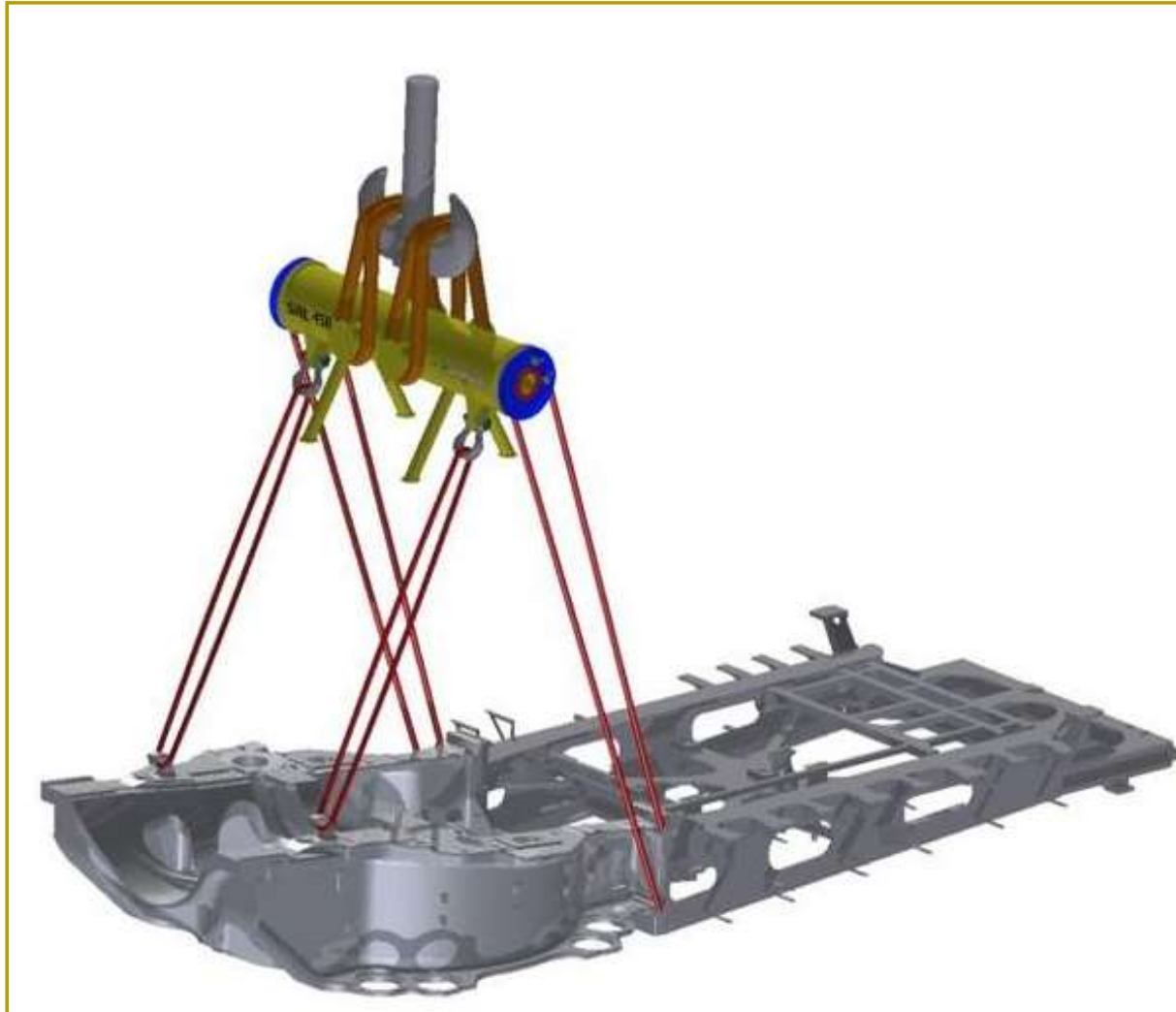
padeye transition piece SWL 200 t + cover plate - 4 MW





Rotor star lifting beam 5/6 MW





Nacelle lifting beam SWL 480 t – manual centre of gravity adjustment

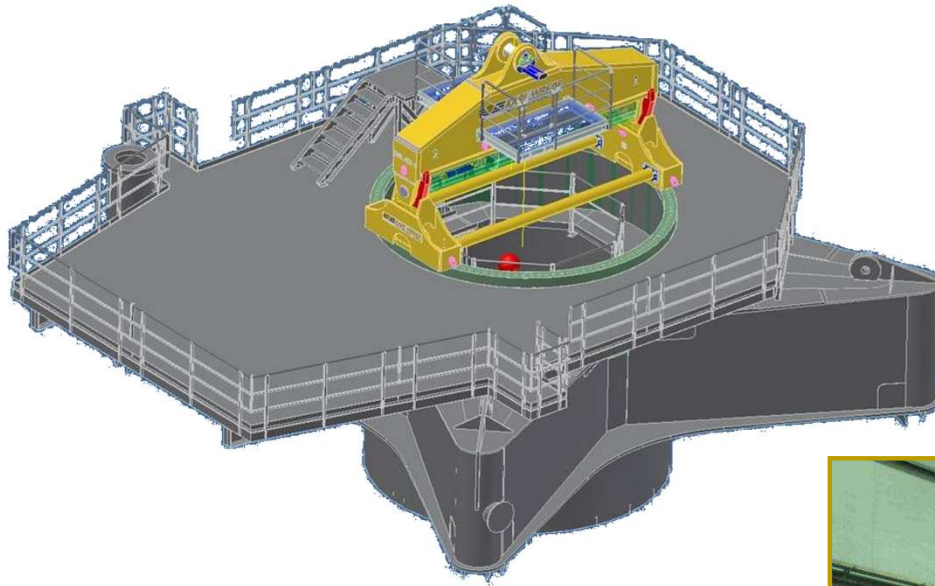


Nacelle lifting beam SWL 480 t – manual centre of gravity adjustment



Nacelle lifting beam SWL 480 t – manual centre of gravity adjustment





semi-automatic jacket lifting beam SWL 650 t

-> bolted box-section beam

-> remote-controlled unlocking of the coupling beam





Jacket lifting beam SWL 650 t





Tripod Lifting Tool SWL 950 t





Tripod Lifting Tool SWL 950 t



Tripod Lifting Tool SWL 950 t

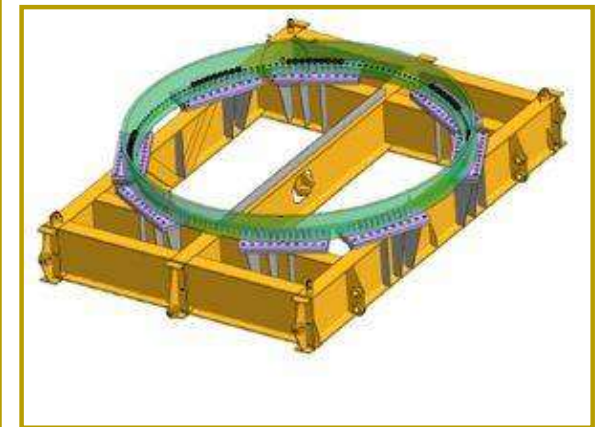
## AGENDA

### 1. COMPANY

### 2. REFERENCE COMPONENTS

- LIFTING DEVICES                      ONSHORE
- TRANSPORT EQUIPMENT ONSHORE
- OPERATING EQUIPMENT ONSHORE
  
- LIFTING DEVICES                      OFFSHORE
- **TRANSPORT EQUIPMENT**   **OFFSHORE**
- OPERATING EQUIPMENT OFFSHORE





Spreader, lifting beam and transport frame for tower section 5 MW



Transport frame for rotor hub 5 MW



Transport frame and spreader for rotor hub 5 MW







Offshore transport rack for gearbox 6 MW



modified 40ft flatracks for component transport





Rotor blade transport rack 5/6 MW



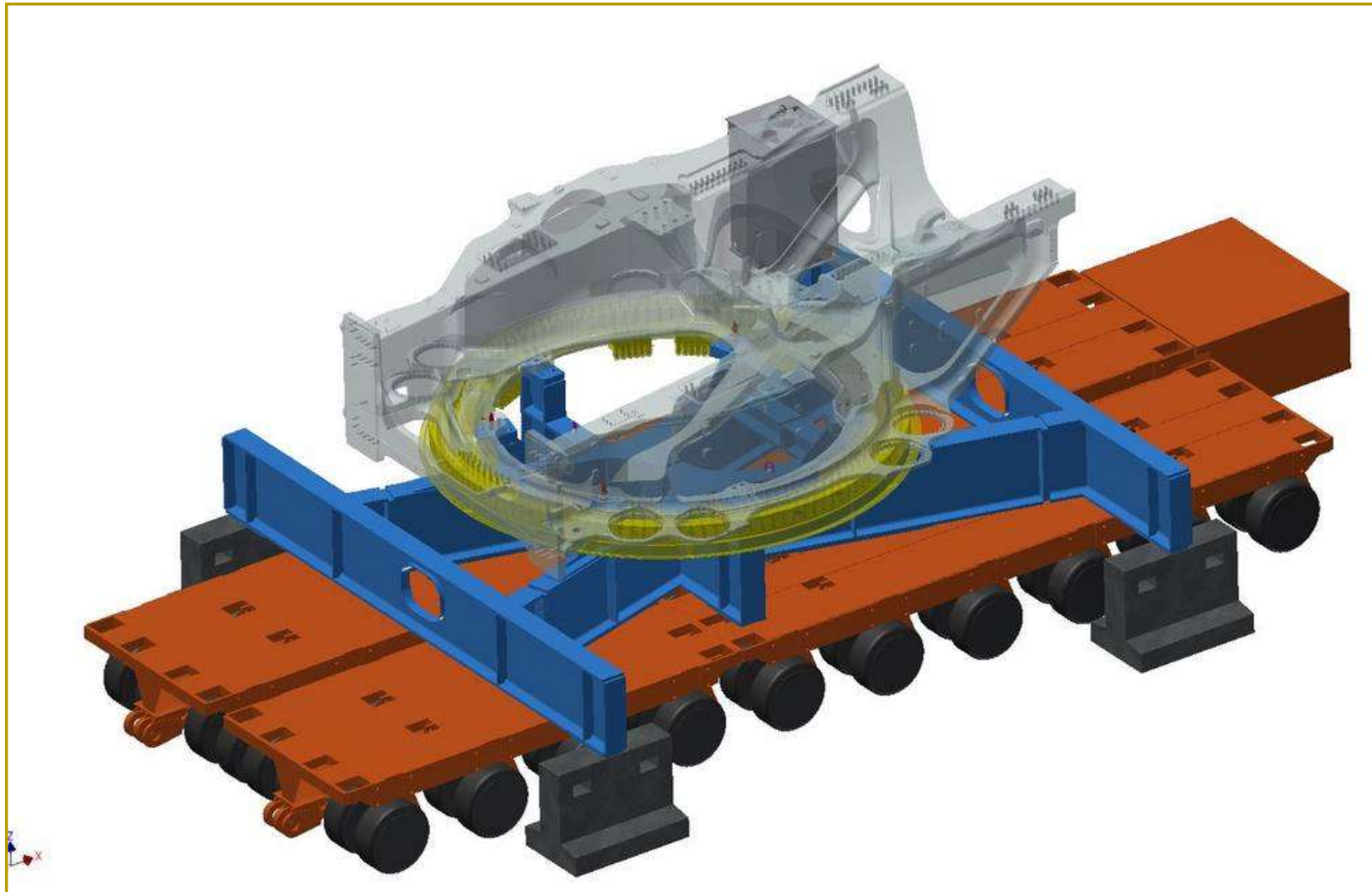


Offshore transport rack for rotor shaft assembly and gearbox 5 MW





Transport frame for nacelle 6 MW



Transport frame for nacelle 6 MW





Transport frame for nacelle 6 MW

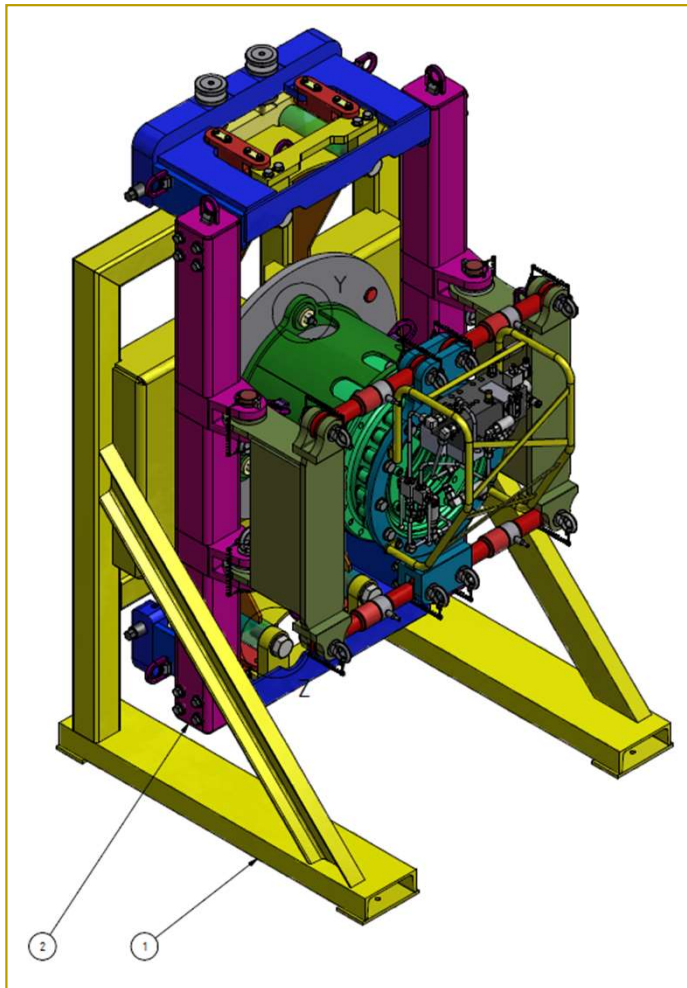
## AGENDA

### 1. COMPANY

### 2. REFERENCE COMPONENTS

- LIFTING DEVICES                      ONSHORE
- TRANSPORT EQUIPMENT ONSHORE
- OPERATING EQUIPMENT ONSHORE
  
- LIFTING DEVICES                      OFFSHORE
- TRANSPORT EQUIPMENT OFFSHORE
- **OPERATING EQUIPMENT OFFSHORE**





Hydraulic rotary drive system for drivetrain 6 MW offshore (single blade installation): test device



Hydraulic rotary drive system for drivetrain 6 MW offshore (single blade installation): delivery



## 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?