METAL AND STEEL CONSTRUCTIONS FOR WIND ENERGY



F.A.KRUSE JUN. ENERGY SERVICES AND LOGISTICS

FÄHRSTRAßE 49

25541 BRUNSBÜTTEL

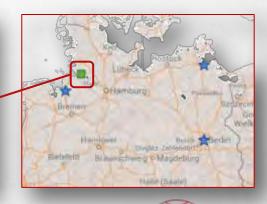


About us



- > Headquarter Brunsbüttel
- Year of establishment 2010
- Certified to ISO 9001 and SCC
- **Direct employees 20**
- ► Indirect employees 430











Portfolio F.A.Kruse ESL (Energy Service and Logistics)





Nacelle Frames



- Development
- Construction
- **Manufacture**
- **Delivery**
- **Installation**

















Hub Frames











Documentations

Offshore material certificates

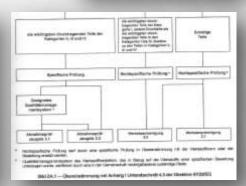
Logistics

Production of prototypes











Storage and Transport Frames

- **Development**
- Construction
- **Manufacture**
- **Delivery**
- **Installation**









Lifting gears

- Development
- Construction
- **Documentation**
- **Manufacture**
- **Delivery**
- **Installation**

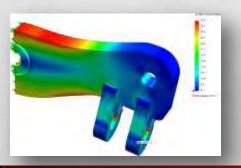




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Lifting gears

- Development
- Construction
- **Documentation**
- **Manufacture**
- **Delivery**
- **Installation**









Assembly accessories

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- **Platforms**
- Subframes
- Servicetools
- **►** Lifting tools
- **►** Shaft support













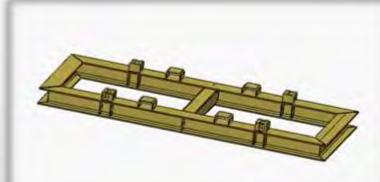
Assembly accessories

F.A.KRUSE jun.

- **Platforms**
- Subframes
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- **►** Lifting tools
- **►** Shaft support

















Halls and tents

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- Short term set up
- **Very flexibly**
- **Temporary**
- **Easy installation**
- **Without foundation**













additional company branch

Shrink Wrapping ...shrink foil for wind energy















Nacelles





Gearings / Generators



Rotor Hubs

Rotorblades / Blade Forms / Tools











additional company branch

Shrink foil application for the wind industries

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- Long term storage with uv and dust protection
- > Transport protection
- Sea water resistant
- Flexibel with doors or other features
- Cover for openings

... complex geometries, products with outsizes and simultaneous sensitve materials can be transported and stored easely















additional company branch

Shrink foil application in the blade manufactory



- Long term storage with uv and dust protection
- > Transport protection for blade forms
- Complete protection of sensitive forms
- Partial protection is possible (Tip / Root)

... special materials and paintworks could be protected and would be safe.

















Tool plant container

Mobile workshop on temporary and mobile sites

Very flexibly

Social sectors and assembly rooms

Special floors like for oil pan or welding techn.

Basic equipment workshop













Sliding floor container

- Supreme security level
- Compressed simply storage
- **➢Oil pans**
- > Transport savings
- Flexibly workshop container









Special container

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- Development
- Construction
- **Manufacture**
- Delivery
- **Installation**











CORROSION PREVENTION

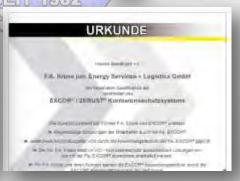


- Offshore primer grounding and painting
- > VCI (corrosions inhibitor for metal surfaces) installers
- Protective coatings
- **▶** With suitable pretreatment
- Body-cavity sealing / in house corrision protection











Documentations

... technical quality instructions





Tax Inc. Arrigany PARTY Teamscrape (in ARRIVADE BUSINESS T SECTION IN Drotteje urgeorachi Creeking St. Lift Springer Company to A Parison of

Individually product checklists

monitoring

inspections

approvals

testings

reports





Instructions with sticker

on shrink foil

OPEN

CLOSE



Certifications

- Qualitymanagement DIN ISO 9001
 - > SCC (SGU HSE Managementsystem)
 - 1090 EN EXC3 (the production plant)





- Welding certification Germanischer Lloyd (the production plant)
 - Welding company AD 2000-DIN EN ISO 3834 (the production plant)
- OUR ESTABLISHED INSTALLERS HAVE RECEIVED
 THE LATEST SAFETY TRAININGS AND MEET ALL
 THE LEGAL REQUIREMENTS AND STANDARDS

PERSONAL PROTECTION EQUIPMENT, FIRE PREVENTION OFFICERS, MEDICAL HELPERS AND MORE



Locations



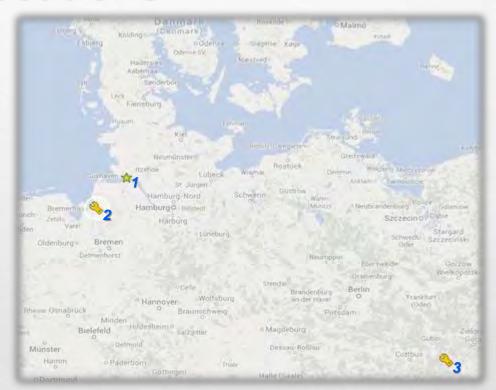
BRUNSBÜTTEL

Branch

BREMERHAVEN²

Production plant

JASIEN³





MOBILE OPERATION TEAMS FOR GERMANY AND OTHER PARTICIPATING COUNTRIES



The protection makes the difference!





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