

Refurbishment of Yaw Gears



bj-gear

Customisation is our standard



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Refurbishing yaw gears for wind turbines is a strategic choice that enhances the efficiency (uptime), reliability, and extended lifetime of wind energy systems.

By choosing refurbishment, operators can significantly reduce downtime and maintenance costs, ensuring their turbines operate at peak performance.

Refurbishment not only extends the life of existing gears but also offers a more sustainable solution by minimizing waste and re-using resources.

With our expertise in gear refurbishment, BJ-Gear A/S provides customized solutions that meet the highest standards of quality and reliability, making us a trusted partner in the wind energy industry.



BJ-Gear A/S

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SERVICE APP

- Manages the service process and documentation
- Links customer specific information into the service report
- Provides 100% traceability to customer order
- Documentation of damages
- Automatic report generation upon service completion
- Database with 100% traceability for all finished service orders





REFURBISHMENT TIMELINE



1. Product ready for repair



2. Demounting



4. Example of defective component



3. Washing of components



5. Assembly of components



6. Test with motor



8. Test report with photo documentation

7. Finished product including re-paint



SPARE PARTS

Purchased Spare Parts:

- Bearings (SKF, NTN, NSK, Schaeffler)
- Safety nuts (innovation)
- Sealings and o-rings
- Oil



Own Produced Spare Parts:

- Planetary carriers
- Main shafts
- Pinion wheels
- Sun gears
- Other parts





REFURBISHMENT LEVELS

Refurbishment will typically be in 3 levels – standard, medium or extended

| Included | Standard | Medium | Extended |
|--|----------|--------|----------|
| De-mounting | ✓ | ✓ | ✓ |
| Wash-out | ✓ | ✓ | ✓ |
| Remounting and exchange of damaged parts: | | | |
| • Replacement of bearings, input section | ✓ | ✓ | ✓ |
| • Replacement of oil seal, input section | ✓ | ✓ | ✓ |
| • Replacement of O-rings | ✓ | ✓ | ✓ |
| • Tapered bearings, output shaft are re-used bearings are washed out, checked and re-greased | ✓ | | |
| • Replacement of tapered bearings, output shaft | | ✓ | ✓ |
| • Replacement of oil seals, shims and nilosing output shaft | ✓ | ✓ | ✓ |
| • Replacement of carrier on output shaft | | | ✓ |
| Safety nut on output shaft are implemented (BJ-Gear innovation) | ✓ | ✓ | ✓ |
| Oil filling | ✓ | ✓ | ✓ |
| Additional parts or treatment according to actual cost | ✓ | ✓ | ✓ |
| Visual check | ✓ | ✓ | ✓ |
| Test with motor | ✓ | ✓ | ✓ |
| Cleaning of surfaces for installation interfaces | ✓ | ✓ | ✓ |
| Preperation for painting and re-painting | ✓ | ✓ | ✓ |
| New label / BJ-Gear production number stamped into yaw gear housing | ✓ | ✓ | ✓ |
| Securing packing for transport | ✓ | ✓ | ✓ |
| Test report with photo documentation | ✓ | ✓ | ✓ |



CAPACITY, LEAD TIMES, AND MANPOWER

Capability

- Technical knowhow
- In-house manufacturing and assembly

Capacity

- Sufficient qualified manpower with ramp-up capabilities
- Dedicated workplaces and storage areas

Traceability

- Detailed service reports with photo documentation

Lead times

- Based on forecast: 2-3 weeks (can be reduced in case of urgency)

BJ-Gear Supporting

- Growing service business
- Sustainable journey

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