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The information in this document contains general descriptions
of the technical options available, which may not apply in
all cases. The required technical options should therefore be
specified in the contract. 2. edition 02/14/Grafik Mertz



Professional Service for Fans

Spare parts . Repairs . Installation . Techn. Consulting . Maintenance . Plant optimization . Commissioning . Troubleshooting



TLT-Turbo GmbH

TLT Fan Technology.

Outstanding and of Constant Value.

Our axial and radial fans can be found in power plants, steel and cement industries and in chemical production facilities.

TLT-Turbo fans are also approved in mines and wind tunnels, in subways, tunnels and numerous of other applications.

Our products can withstand the most extreme and challenging conditions. Our extensive product portfolio means we can offer the right fan for every application.

We provide our customers with a wide range of tailor-made solutions to meet their specific needs. We have an innovative approach ranging from consulting and planning through to installation and service.

You can count on us as an Original Equipment Manufacturer. We develop, design, construct, supply, install and commission.

Set the course for efficiency beginning in the planning phase:

Make use of our established expert knowledge and many years of experience when it comes to optimizing your system, protecting against wear and tear and solving all the challenges that arise or could occur during the operation of your fan.

Together with our professionals from development, design engineering, installation, sales and administration, we can offer you the best solution.



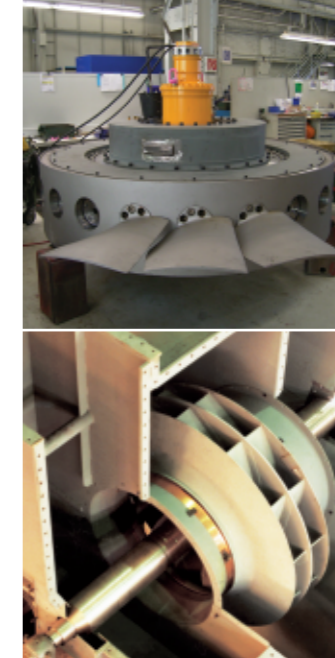
Spare parts

Service

- ▶ On site consulting
- ▶ Spare parts supply including those based on customer drawings and specifications e.g impeller, shaft bearing, clutch
- ▶ All documentation related to fans supplied to date is stored in our archive, which enables access to the original design of your fan
- ▶ Our spare parts can be installed at any time by our experienced fitters

Customer benefits

- ▶ Reduced effort
- ▶ Reduced resource requirements from the customer
- ▶ Single contact
- ▶ Save time and money due to single source of supply
- ▶ Early procurement of spare parts reduces your plant downtimes.



Contact us for identification of your spare parts.

This will make spare parts deliveries quicker and more efficient.

Service productivity.



OEM means:
Original Equipment Manufacturer!

What does it mean concretely?

- ▶ All components are original products from a single source
- ▶ Constant quality
- ▶ Long durability
- ▶ Warranty
- ▶ High availability of your equipment/fan ensures minimum stoppage for revision
- ▶ Safety through original parts



To optimize your fan application based on your process data please contact one of our specialist representatives.

Our goal is to achieve an optimal solution based on your requirements.

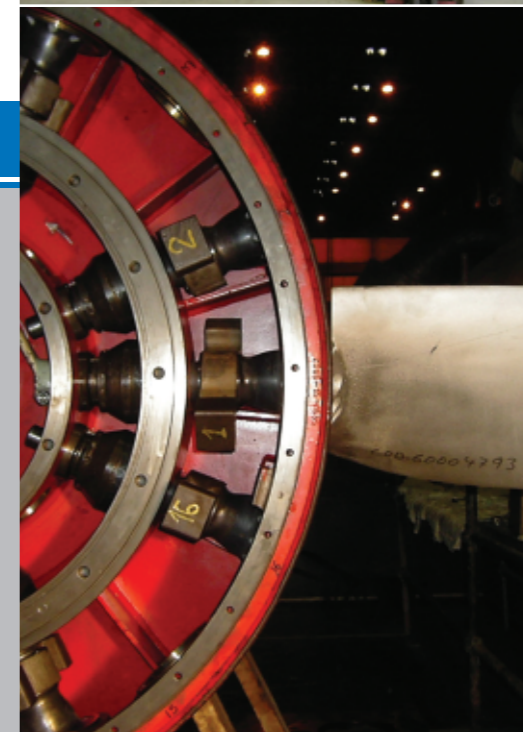


Service productivity.



Our specialized staff will assist you with queries relating to your fans. We also overhaul individual components in our workshops.

Please feel free to contact our team of engineers.



Conversion

Services

- ▶ On site consultation
- ▶ Aerodynamical performance measurements and oscillation measurements
- ▶ Analysis of measurements results
- ▶ Aerodynamic and mechanical re-design of fans
- ▶ Preparation of concepts with profitability studies and quotes
- ▶ System and/or component modification and adaptation

Customer benefits

- ▶ Complete concept from a single source
- ▶ Expert analysis of the conversion situation
- ▶ Technical and application specific optimized solution
- ▶ Optimized fan performance
- ▶ Improved energy efficiency

Maintenance work on site

Services

- ▶ Analysis, incl. stocktaking and recording of parts to be repaired
- ▶ Repair or replacement of worn parts
- ▶ Operational balancing

Customer benefits

- ▶ No transport required
- ▶ Quick availability
- ▶ Downtimes prevented thanks to regular audits

Fault analysis

Services

- ▶ Inspection of fans on site
- ▶ Analysis of measurements results
- ▶ Establishment and implementation of counter-measures

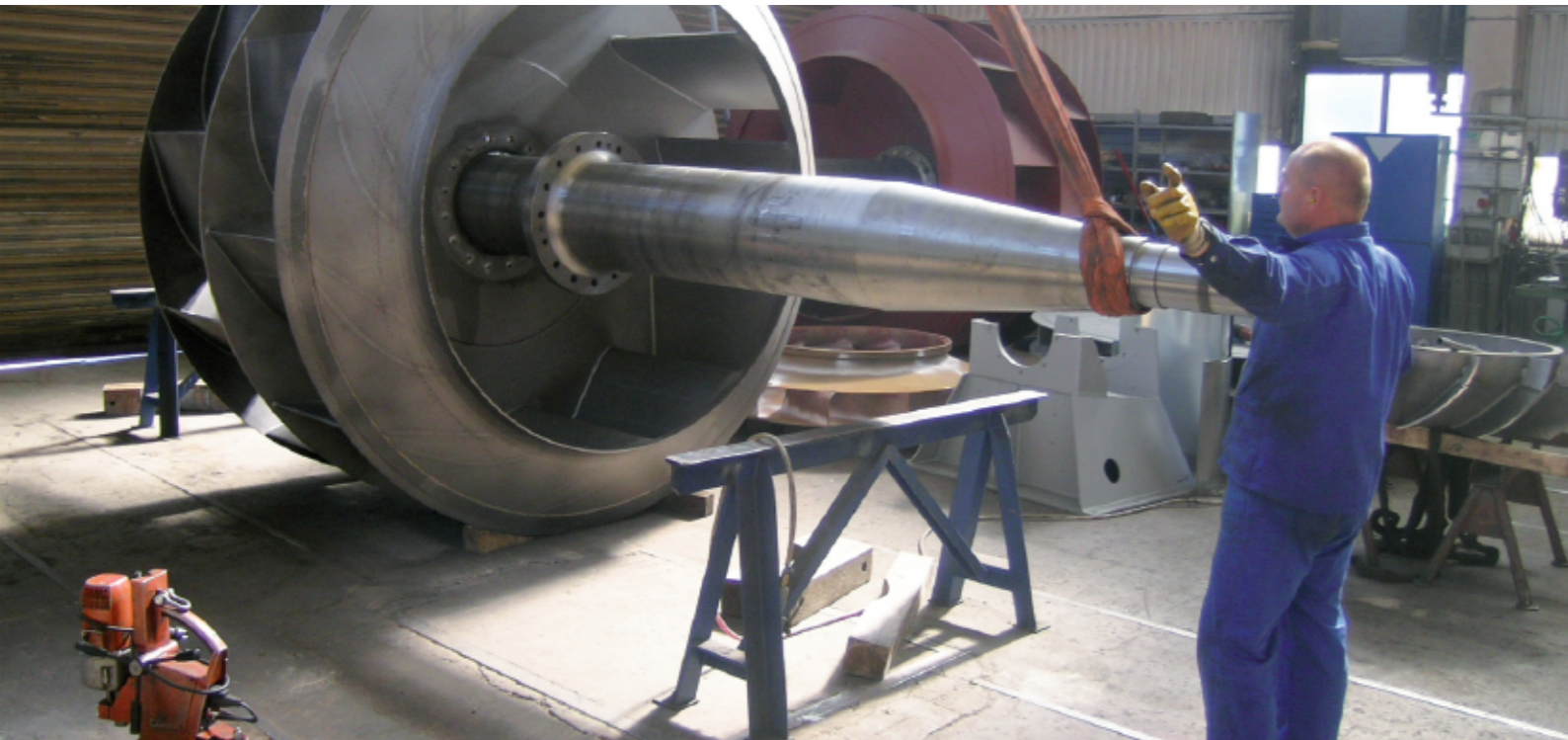
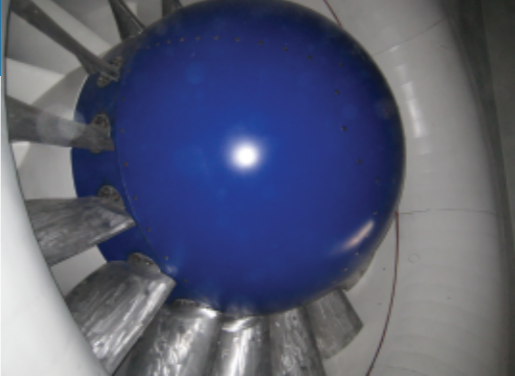
Customer benefits

- ▶ Faster identification of malfunction, due to many years of experience with the product
- ▶ Quick initiation of remedial measures, due to the meticulous documentation of drawings and reports

Service productivity.

Inspection results and corrective maintenance in our workshops.

Does your fan need an overhaul? Then just speak with our experts about an inspection and subsequent corrective maintenance.



Service - we care!



Guaranteed service - what this means for you:

- ▶ Consistently high OEM quality
- ▶ Comprehensible pricing
- ▶ 24 hrs. Hotline
- ▶ International experience and integrated network of representatives

Corrective maintenance



Services

- ▶ Analysis, incl. stocktaking and recording of parts to be repaired/replaced
- ▶ Quotation
- ▶ Repair and replacement of worn parts
- ▶ Manufacturing of new parts
- ▶ Dynamic balancing
- ▶ Complete installation of the assembly

Customer benefits

- ▶ Faster availability
- ▶ Lower financial outlay
- ▶ Modern production technology possibilities

Type designation according to design and system

Adjustable blades axial

System Dingler	FAF
	SAF
	PAF
	GAF

System KK&K

AP1
AP2

Radial

System KK&K

V
VZ

System BSH

RUK
ZSKI

Axial impulse type

System KK&K

AN

System Babcock

G

- ▶ General consulting for fan operation
- ▶ Plant diagnostics and optimization
- ▶ Troubleshooting
- ▶ Maintenance activities and audits on site
- ▶ Recommendations on spare parts inventory and storage
- ▶ Manufacturing and delivery of spare parts
- ▶ Installation and commissioning activities
- ▶ Aerodynamic design and determination of process data
- ▶ Oscillation measurement and frequency analysis
- ▶ Noise-protection engineering and associated measures
- ▶ Wear protection concepts
- ▶ Non-destructive materials testing