



# Professional Service for Fans

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



# 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.  
We develop, design, construct, supply, install and commission.

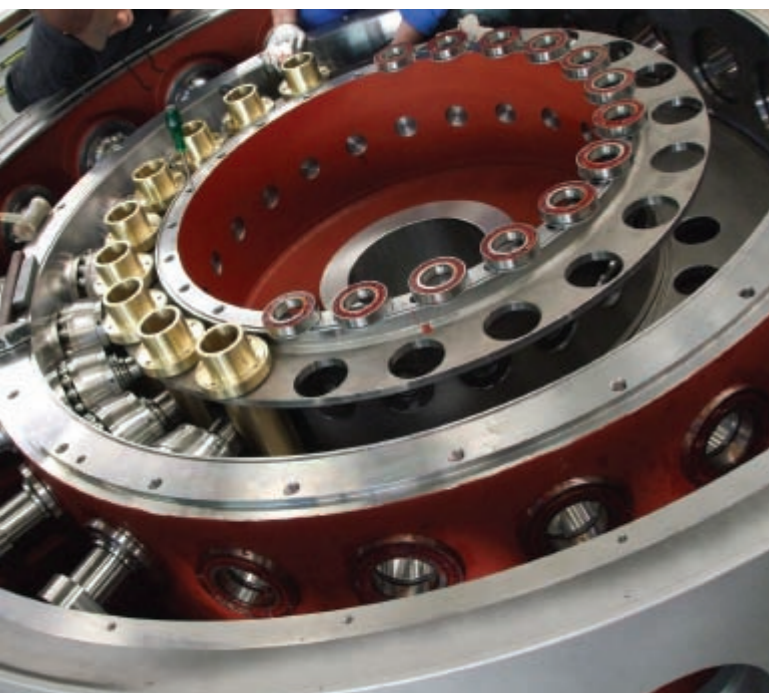
## Set the course for efficiency at the start of the planning phase:

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.



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



## 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.



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



## Corrective Maintenance

### Service

- ▶ 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

## 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



Are you well prepared?

Is your stock prepared for an unplanned downtime?

# Intelligent Stock-Keeping.

Please consider:

Delays or even losses in production are generally more expensive than costs of the new spare part.



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.



## Stock-Keeping

### Our Service

- ▶ Analysis on site
- ▶ Consultation of fixed stock
  - Stockage of spare parts on the basis of a spare part list (per fan)
  - Stockage of components with long lead time

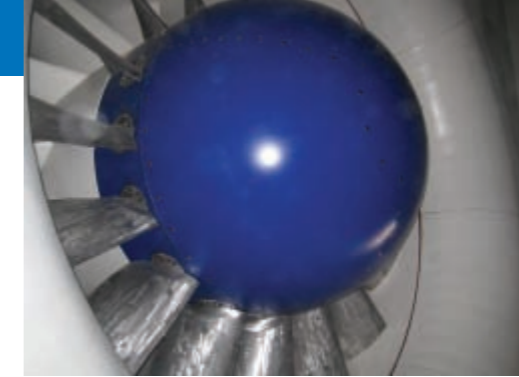
### Your advantage

- ▶ Reasonable availability of all parts
- ▶ Short reaction times in case of revision
- ▶ Well prepared in case of damage

Our specialists will work out in cooperation with you a list of all parts to be changed on your fan.



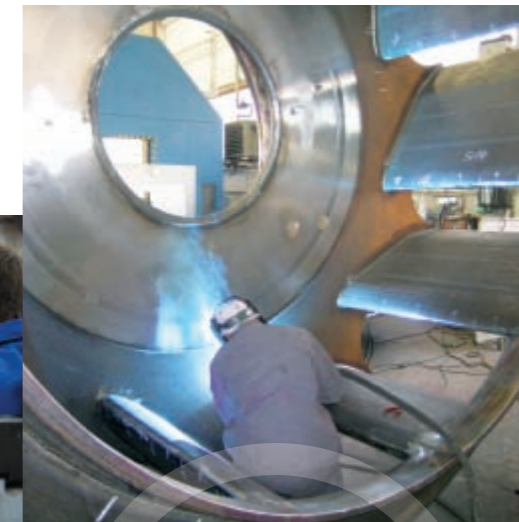
# Perfect solutions.



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 - we care!



### Guaranteed service - what this means for you:

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

### Conversion

### Customer benefits



#### Services

- ▶ Modification of existing equipment or supply of new optimized systems - Resulting in improved efficiency and reduced shaft power
- ▶ Calculation of cost savings
- ▶ Optimization of suction ductwork
- ▶ Increase of existing centrifugal impellers
- ▶ Improve the output of existing equipment
- ▶ Supply of new powerful impellers
- ▶ Profile changes for axial fan blades
- ▶ Reduce the effects of wear and tear
- ▶ Modification of bearings
- ▶ Implementation of corrosion resistant materials (e.g. stainless steel)
- ▶ Complete concept from a single source
- ▶ Expert analysis of the conversion situation
- ▶ Technical and application specific optimized solution
- ▶ Optimized fan performance
- ▶ Improved energy efficiency

#### 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
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##### System Babcock

G
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- ▶ 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

# A Passion for Solutions.

Germany . China . South Africa . USA

Austria . Chile . Hungary . India . Russia . South Korea



○ Business Location w/ Manufacturing and Service Workshop

● Business Location

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TLT-Turbo GmbH . Germany  
TLT-Turbo (Sichuan) Co., Ltd. . China  
TLT-Turbo Africa . South Africa  
TLT-Turbo Inc. . USA

TLT-Turbo Rep. Office . Austria  
TLT-Turbo South America SpA . Chile  
TLT-Turbo Rep. Office . China  
TLT-Turbo Rep. Office . Hungary  
TLT-Turbo India (Pvt.) Ltd. . India  
TLT-Turbo Rep. Office . Russia  
TLT-Turbo Korea . South Korea



**TLT-Turbo**

a company of  POWERCHINA

Website



Please find all contacts on our website:

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