

**TLT-Turbo GmbH**

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**Ventilation Redefined: Innovation in Tunnel & Metro Ventilation TLT-Turbo Fans for Road, Railway & Metro Tunnels**

For over fifty years, TLT-Turbo has developed first-of-their-kind, fine-tuned, and advanced ventilation systems for road, railway and metro tunnels. TLT-Turbo focuses on the system as a whole to offer you a safer ventilation system with high availability and lower maintenance costs over the total system life cycle.

German engineering and R&D lead to the highest product quality while our fieldproven technology results in high end customized solutions designed specifically to the operational requirements of your project. TLT-Turbo's ventilation system optimization provides high energy savings leading to lower lifetime operational costs and results in lower noise emissions.

**A Single-Source Solution**

We offer a single-source solution for the design, manufacturing and installation of tunnel and metro ventilation. This achieves a significantly higher degree of safety as ventilation and smoke extraction systems are combined and complemented by

intelligent monitoring and control systems. Our approach also includes a focus on optimization for more efficient energy consumption and noise abatement to ensure an ideal environment within the tunnel. This holistic approach keeps your initial investment and future operating costs at a minimum.

### **Highest Safety & Efficiency Levels**

In closed systems, such a tunnel, the extraction of hazardous gases and smoke, in the event of a fire or other catastrophic event, is of paramount importance. It is crucial to keep all areas outside of the immediate fire zone as well as exit routes clear of smoke. TLT-Turbo is your partner for smoke extraction and safety with high temperature tested fans.

Reduced power demand and energy consumption supports environmental protection and compliance with governmental regulations and laws linked to CO<sub>2</sub> limits. Customized system design and efficient operation modes improve ventilation conditions and create high quality air for the comfort of passengers and staff.

### **Features of TLT-Turbo's Tunnel & Metro Ventilation Solutions:**

- Reduced Tunnel Ventilation System power consumption
- Reduced total cost of ownership
- Sustainable environmental protection
- Shorter installation and work timelines
- Simplified order process for EPCs with a single point of contact

### **TLT-Turbo Metro & Tunnel Product Range:**

- Smoke-extraction fans (up to 600°C/120 min)
- Tunnel Axial Fans TAF with blade adjustment during operation to control the volume flow at different system pressures
- Tunnel/Metro Fans TA (unidirectional or 100% reversibility)
- Jet Fans TAS
- Underground Construction Fans for temporary or permanent ventilation
- Overpressure Fans for escape tunnels

### **Aftermarket Support**

We provide support at every point of your ventilation system lifecycle. We offer

planning and design support at the start of your project to ensure that the final system meets your precise requirements and meets every safety standard. This is followed by manufacturing, transport, installation supervision, commissioning and aftersales services. We take aerodynamic acceptance measures to ensure that the system is functioning optimally and safely. TLT-Turbo also offers reconstruction and optimization of existing systems.

### **TLT-Turbo's Turnkey Ventilation Offering**

TLT-Turbo GmbH offers radial and axial flow fans for virtually any application. A long tradition of first-rate engineering, innovations in ventilation technology and a worldwide support network have been the cornerstones of our excellent global renown as a fan and systems manufacturer for more than 140 years. TLT-Turbo fans and the associated system components are deployed successfully all over the globe. To date over 10,000 fans have already been installed. Our subsidiaries, branches, and agencies span the globe including TLT-Turbo offices in Germany, China, Austria, Russia, South Korea, USA, Chile, Hungary, Australia, India and South Africa.

*Visit [www.tlt-turbo.com](http://www.tlt-turbo.com) for more information*

