

# YOUR PARTNER IN GENERAL AVIATION AND AIRCRAFT TURBOCHARGER TECHNOLOGY

Pankl is your reliable partner for the development and production of turbo systems for general aviation. From the development of highly specific requirements to cost-efficient manufacturing, we offer tailored solutions for your needs. Transferring our knowledge in racing to the very special requirements for charging systems in general aviation applications.

## **Our Strenghts**



## Cost-Efficient & Affordable

With wide access to off-the-shelf components, we offer cost-efficient and affordable solutions without compromising on quality and reliability.



### Customer-Oriented Design

Our turbo systems are specifically designed to meet your requirements in terms of altitude, consumption, performance, lifespan, and weight.



## GET Development "Build to Spec"

We develop turbo systems according to your specific requirements and specifications.



#### Manufacturing "Build to Print"

Our manufacturing is based on your drawings and specifications to ensure the highest precision and quality.



### Experience in General Aviation:

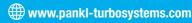
With our extensive experience in general aviation, we provide competent and reliable solutions.



## Expertise in Single- and Multi-Stage turbo systems:

Our expertise in developing single- and multi-stage turbo systems guarantees you the highest performance and efficiency.

sales-turbo@pankl.com



#### **Member of a big Company**

Pankl Group is an established partner with a strong reputation for quality and reliability in aerospace applications.







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## ...ENABLES HIGH POWER & HIGH ALTITUDE

Pankl single-stage turbo system "stage 4" cope with aviation requirements in terms of weight, performance and lifespan.

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### **High Performance for several aviation aspects**

Less weight & space compared to 2-stage system

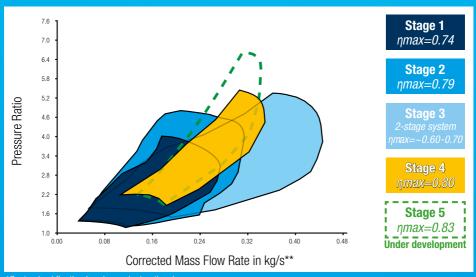
- Increased power for quicker take-off
- · Constant power during climb to high altitudes
- Increased efficiency/range @ passenger flight level

#### Robust and durable high-performance ball-bearing\*

- Excellent emergency running properties
- High rotor dynamic stability with reduced deflection of compressor and turbine wheel
- Higher capacity to absorb axial forces
- Improved robustness against poor oil quality and low oil pressures

Stage 4 turbocharger

#### **Compressor Map** (simplified)



<sup>\*</sup>Customized floating bearing variant optional \*\*Scalable to meet specific requirements