

TKS Panels:

Sophisticated installation process for the TKS-panel has considerably increased the performance and aerodynamic qualities which resulted in less drag and improved lift.

Propeller:

Our revolutionary new propeller has been developed and designed in close cooperation with the company mt-propeller. Slightly bigger, increased diameter and a more curvy shape led to a performance improvement of 3 knots.

Cowling/Nacelle:

The embodiment of modern design and technical excellence: sleek style and noble workmanship in every detail. We have achieved a systematic appraisal and further developments of the existing modular systems, which makes our aircraft faster, more aerodynamic and more advanced.

Redesign of the air intakes for charge air, engine cooling, fuel cooling, gear box cooling and cabin heat. The streamlined shape of the new cowling as well as the repositioning of the fuel cooler resulted in more thrust and less aerodynamic drag which made the DA42-VI about 8 knots faster.

Luggage compartment:

The improvements incorporate aesthetic, functional and aerodynamic advantages. With an advanced new hinge concept gaps could be reduced to a minimum clearance and increased the opening angle. Additionally the doors are sealed with a better seal design and provide better protection for your luggage.



Wing fairings:

Right from the development stage, the engineers at Diamond Aircraft laid the foundations for a new generation of wing fairings. Attached under the wing they are covering exposed flap hinges and control rods contributing to the efficiency of the DA42-VI.

Flush head screws:

In spite of their flat and elegant impression the flush head screws provide high durability and a higher speed for our customers. Your benefits: high efficiency and a sovereign elegance.

New rudder:

With the redesign of the rudder we succeeded not only in aerodynamic benefits by reducing drag but also in decreasing the minimum control speed which has been reduced by over 5 kts. This means better directional controllability with the critical engine inoperative at a lower speed, and an appreciable reduced take-off distance.



Interior:

Product enhancement does not stop with interior design. By using lightweight materials, such as ultra light floor coverings, a significant additional weight reduction, effecting an increased speed and enhanced performance of the aircraft, could be achieved.