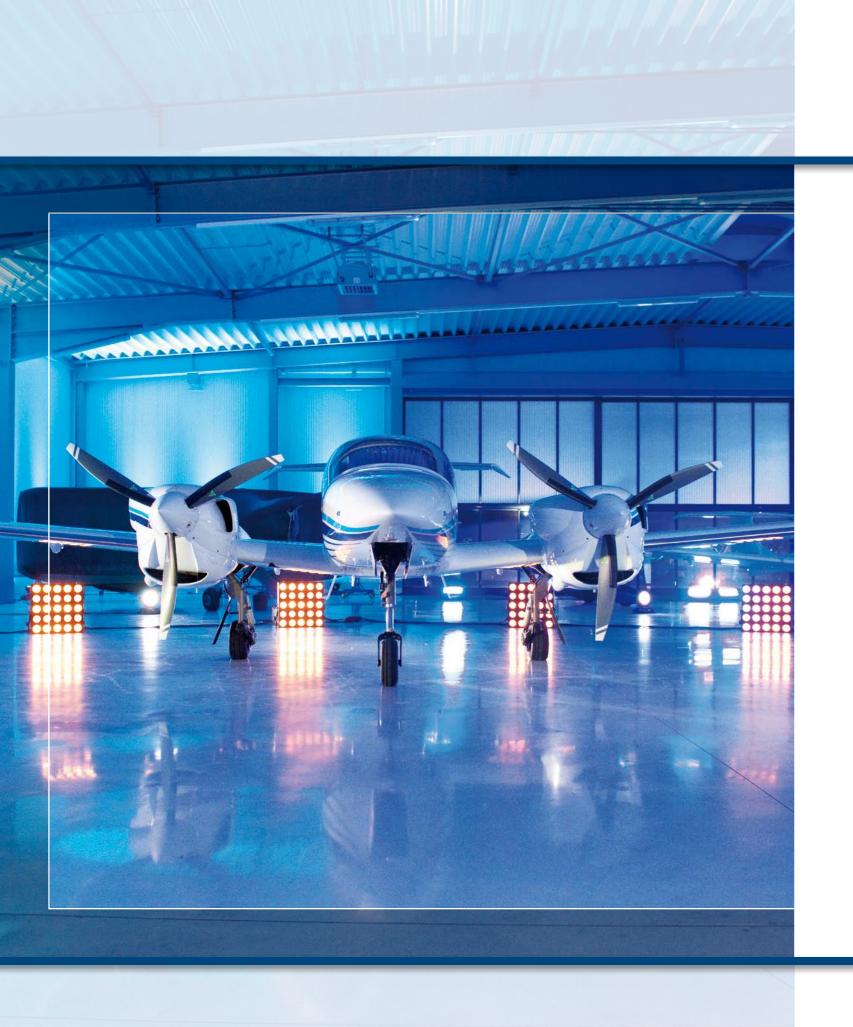


DA42-VI GO FAR FAST



Exceed your expectations

ADVANTAGE THROUGH INNOVATION

A top performer that takes you sky high: the ultra-modern DA42-VI perfectly matches stylish elegance with easy and efficient operation. Well-designed with new accents such as improved exterior design, the entire revision of the cowling and nacelle and a new propeller, this aircraft exceeds your expectations.

Through Diamond Aircraft's weight saving program the DA42's fuel consumption and operating costs are significantly reduced, while performance such as the maximum speed has been improved. At the same power setting you will consume less fuel compared to preceding DA42 versions. All this plus two of the smoothest diesel engines AE300 from Austro Engine, advanced avionics and a remarkable range and endurance make the DA42-VI a superbly capable aircraft and flying more environmentally friendly.

With this aircraft you can fly non-stop across mountain ranges and over oceans while you benefit from our de-icing system and IFR avionics if the weather gets bad en route and at your destination. If you are looking for a new flight experience, an easy to operate aircraft, nearly as simple as a single engine

The most important performance and weight improvements at a glance for a typical aircraft configuration:

Over 40 kg/88 lbs less weight compared to the DA42 NG

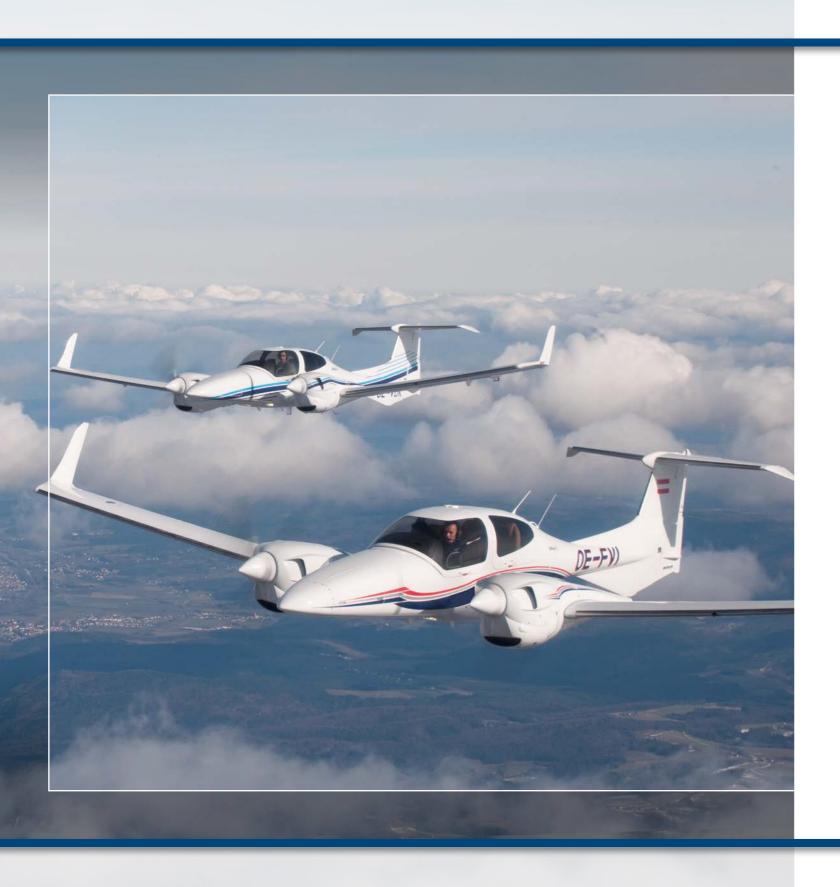
Take-off distance ground roll: 919 ft

Max. cruise speed (at MCP): 197 kts

Climb rate (ISA SL): 1550 fpm

Single engine service ceiling: 18,000 ft

aircraft, then the DA42-VI is the premium choice. All-in-all, it offers everything you need to enjoy your individual flight mission



DA42 VI - Evolution of efficiency.

PERFORMANCE ENHANCEMENT

The improved performance results in a 919 ft take-off distance (ground roll) and a substantially higher initial climb gradient. We also indicate a maximum climb rate of 1,800 fpm at sea level and around 1,000 ft at FL180 at a climb speed of 120 kts at minimum weight. Adding this to the extended flying range and the low fuel consumption of 10.4 gal/hr (40 lt/hr), the DA42-VI is a convincing aircraft. Equipped with Jet-A1-powered AE300 turbocharged common-rail injected 2.0 I diesel engines, together producing 336 HP and an EECU single lever control system, it achieves a convenient cruise speed of 175 kts, and a maximum true airspeed up to 200 kts in FL160 and above.

GO SAFE

Your safety is our highest priority! We focused on improving passenger comfort, active- and passive safety features. The DA42-VI is the undisputed technology leader in this segment. It offers the ultimate in safety and redundancy: damage tolerant fail-safe carbon airframe and cell with completely redundant electrical system and power sources, a fuel system protection and of course twin engines with a convenient single-lever power plant control including automatic load indication.

COMFORT AND STYLE

With the Diamond Aircraft DA42-VI you get a modern aircraft with thoughtfully designed details and robust quality. Its sleek lines and powerful engines are sure to attract crowds wherever you show up. A combination of leading edge technology

with proven composite airframe materials and build techniques, Diamond is committed to providing pilots with exceptional aviation experiences. Fully IFR certified with the Garmin G1000, GFC700 autopilot and available known ice protection, it is making a pilot's life easier and giving you and your passengers the comfort and safety you are looking for.

MODERN DIESEL ENGINE TECHNOLOGY

The improvement of our DA42-VI goes hand in hand with the development of a new engine version. For instance, the extension of the TB0 (Time-Between-Overhaul) for the AE 300 series of aircraft engines from 1,000 hours up to 1,500 hours, demonstrates our commitment to innovation and the continued quality improvement of our products.

IMPRESSIVE RESULTS

With the DA42-VI you will enjoy lower operating costs, lower fuel consumption (compared to previous diesel engine aircraft) with a noticeable effect on the improved performance and comfort.



DA42 Product Improvements



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.

Propelle

Our 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. 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.



Wing fairings:

The new wing fairings are covering exposed flap hinges and control rods contributing to the efficiency of the DA42-VI.

Flush head screws

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.



Luggage compartment:

The improvements incorporate aesthetic, functional and aerodynamic advantages. With an advanced new hinge concept gaps are reduced to a minimum clearance.



Interior

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

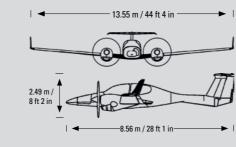


Power plant	
Engines	2x Austro Engine AE 300 turbocharged common-rail injected 2.0 liter diesel engine with 168 HP and EECU single lever control system
Propellers	MT propeller MTV-6-R-C/CF 190-69 3-blade constant speed propeller
Fuel grades	Jet A-1, Jet A. TS-1 (Russia, Ukraine), RT (Russia, Ukraine), No. 3 Jet Fuel (China), JP-8

Performance/ consumption (MTOW)

Max. cruise speed (16,000 ft, MCP), 1760 kg TOW	365 km/h TAS	197 kts TAS
Max. cruise speed (16,000 ft, MCP)	353 km/h TAS	193 kts TAS
Cruise speed at 75% (16,000 ft)	326 km/h TAS	176 kts TAS
Stall speed, clean	124 km/h CAS	67 kts CAS
Stall speed, landing configuration	113 km/h CAS	61 kts CAS
Rate of climb (ISA SL), 1760 kg TOW	7.9 m/s	1,550 fpm
Rate of climb (ISA SL)	7.1 m/s	1,400 fpm
Rate of climb (18,000 ft)	5.0 m/s	1,000 fpm
Single Engine Service Ceiling	5,486 m	18,000 ft
Range at 60%, standard-/ long range tank	1,470 km/ 2,245 km	795 nm/ 1,215 nm
Consumption at 60%	39.4 lt/hr	10.4 US gal/hr
Take-off distance 50 ft (ISA SL)	570 m	1,870 ft
Take-off ground roll (ISA SL), 1760 kg TOW	280 m	919 ft
Take-off ground roll (ISA SL)	330 m	1,083 ft
Landing distance 50 ft (ISA SL)	570 m	1,870 ft
Landing ground roll (ISA SL)	340 m	1,115 ft
Max. operating altitude	5,486 m	18,000 ft
Max. demonstrated crosswind	46 km/h	25 kts

Dimensions/ mass/ loading



^{*)} Specifications apply to standard equipped aircraft (with DME, TAS, WX500, AUX, TKS, standard light weight interior without adjustable seats), if not otherwise stated. The above data are approximately specifications and may change without notice.

Length	8.56 m	28 ft 1 in
Height	2.49 m	8 ft 2 in
Wing span	13.55 m	44 ft 4 in
Seats	4	4
Empty weight *)	1,410 kg	3,109 lbs
MTOM	1,999 kg	4,407 lbs
Payload *)	590 kg	1,301 lbs
Fuel capacity standard-/ long range tank	189 lt/ 289 lt	50 US gal/ 76.4 US gal

