

DA40 New Generation

Airborne Innovation



 **Diamond**
AIRCRAFT



For flight training.

Adding a DA40 New Generation to a flight line is an all-around smart business decision. Modern, composite manufactured aircraft with advanced avionics are essential in today's competitive environment to attract and retain both students and flight instructors. When choosing an aircraft the product should offer great training characteristics like low-speed handling, great performance, superb visibility and a reliable, state of the art cockpit. Also the financial aspects like low initial acquisition cost, affordable insurance, fast and low-cost maintenance, good customer support and low fuel burn are crucial factors. Today's flight organizations are demanding a lot and Diamond Aircraft Industries GmbH fulfils all these desires.

At Diamond Aircraft Industries GmbH we fully understand your needs and requirements. With hundreds of Diamond aircraft operated worldwide in flight training organizations our products are designed to meet your requirements. Therefore the DA40 precisely fits to your needs as flight training provider or leaseback owner.

Sleek design, robust composite construction, Garmin G1000 glass cockpit, a maintenance-friendly design, reliable customer service support, low insurance rates and much more are just some reasons to buy a DA40. Therefore it is not surprising that many universities, colleges and flight schools choose the DA40 as a core airplane in their modern fleet.



DA40 New Generation

A PILOT'S FIRST CHOICE

Whether you are new to aviation or a seasoned IFR pilot, the DA40 is the pilot's sophisticated first choice. The DA40 is designed and developed by pilots passionate about flying. Your first impression will be the sheer joy of taking to the air. Its quick take off into the air, the good response of the push-pull rod-activated controls, the panoramic visibility out of the large canopy. The powerful Garmin G1000 cockpit provides the pilot with a variety of helpful information just right at your fingertips.



SAFETY FIRST

Whether at 50 or 1,000 hours, pilots can rely on the DA40's industry-leading safety record and the safety approach behind it. This comprehends benign handling at slow speeds, short take-off and landing distances, superior visibility and avionics which improve situational awareness as well as a failure resistant design. Passive safety to reduce injuries when accidents do happen, including aluminum fuel cells protected between two carbon-fiber spars to prevent post-impact fires, a 26G cabin with

a protected passenger safety cell and many additional safety items such as airbag seatbelts as well as a 406 MHz ELT.

FINANCIALLY SAVVY

With its performance, modern technology, luxury design and overall safety the DA40 offers more at a lower total cost of ownership. An attractive purchase price is just half the story. Excellent fuel economy, low and competitive insurance rates due to the great safety record, a maintenance-friendly design and high residual values make the DA40 a financially attractive choice.

TRAVEL IN STYLE

Imagine taking a luxury car, adding wings and flying it directly to your destination at 155 kts without worrying about traffic or speeding tickets. The DA40 enables you to fly to business meetings or off on a fun holiday without the hassles of commercial air travel. The spacious cabin and generous baggage area allow you to take your colleagues, friends or family with you and you will still have room for gear. Comfortable seats and panoramic view make long trips a pleasure. The taller and wider canopy provides more head-and-shoulder room for you and your passengers. Well-designed accents such as luxuriously upholstered interior panels, aluminum-framed genuine wood inlay accents, engraved brushed aluminum trim, carbon-fiber sill plates, quality materials including a choice of premium leather seats, thoughtful touches like a hidden storage area for manuals, oil and chocks give you the feeling of traveling in pure luxury.





Good tools.

PFD – CRUCIAL INFORMATION AT YOUR FINGERTIPS

Flight director (v-speed indicated on the airspeed band, bugs for altitude, vertical speed) and heading (HSI with multiple CDI and Bearing Pointers needles, constant wind vector and ground track display and an insert-map to display terrain or traffic information) make a pilot's dream of well displayed information come



GARMIN G1000 AND GARMIN GFC 700 AUTOMATIC FLIGHT CONTROL SYSTEM

Not all glass is created equal. Once you fly the Garmin G1000 cockpit on the DA40, and its fully integrated Garmin GFC 700 digital autopilot, you will not want to fly anything else. The Garmin G1000 glass cockpit is the definite industry standard, and has earned a reputation as a very reliable system, backed by Garmin's world-class customer support. The Garmin GFC 700 digital autopilot is a pilot's dream. Significantly more precise than analog systems, it is fully integrated into the Garmin G1000 system, supports constant-speed climbs and descents (called 'flight level changes', just like in jets), and can even step you down automatically on en route and approach step-down fixes, thanks to the Garmin G1000's built-in VNAV capability. More integration, more functionality, more precision, better reliability – it all adds up to reduced pilot workload and better safety.

MFD – ENHANCED FEATURES

The MFD offers a engine display for at-a-glance information on all systems on your airplane. To make flight planning easier, the MFD supports procedure turns, holds and DME-arc entries which can be executed flawlessly by the Garmin GFC 700 autopilot.



THE FIRST GENERAL AVIATION OEM SYNTHETIC VISION SYSTEM

The DA40 offers the option of adding Garmin Synthetic Vision technology to your tool kit. Displaying three dimensional terrains, this cutting-edge technology allows you to "see" what surrounds you right on the PFD, from terrain to obstacles and even traffic. Further the virtual pathways improve your situational awareness, especially on approach.





Solid development.

SOLID DEVELOPMENT WITH THE BEST TEAM

With our partners you have the highest possible experience level of developing diesel engine technology. The development of the AE300 has been enhanced through our partnerships with MB Tech and Bosch General Aviation. We are convinced that we have developed the most excellent aircraft engine for your purposes. Higher reliability and solid quality of engine components are achieved by robust technology and through cooperation with our partners. Our sincere belief in this method of developing and then producing a complete aircraft system is demonstrated by the fact that we have invested nearly 50 million Euros in this project.

“ONE PACKAGE WARRANTY”

You will have an aircraft and engine that are surely dependent upon each other. The DA40 New Generation will certainly benefit upon the manner in which each complements the other. This is why we offer you a one-shop-stop principle for airframe/engine guarantee cases. For you this means that you have one reliable partner for airframe/engine guarantee and ease of handling of all support issues.

MAINTENANCE ISSUES

Design and construction of the engine was and is developed to reduce service intervals for Maintenance Austro Engine is providing the SEPP (scheduled exchange parts program) for the first and second 1,000 engine operating hours, which

includes following Parts free of charge for the customer: 1) Alternator (currently change during initial phase every 300 hours) 2) High pressure pump (currently change during initial phase every 300 hours) 3) Torsion Vibration Damper (currently check during initial phase every 300 hours). The AE300 is the state of the art Aviation engine for the next generation of general aviation business.

HOW TO DESCRIBE THE FEEL OF FLYING THE DA40 NEW GENERATION?

It will maintain full performance at the critical altitude of 10,000 ft. You will experience a lower specific fuel consumption compared to previous diesel aircraft engines.

FURTHER PRODUCT IMPROVEMENTS WITH THE DA40 NEW GENERATION?

All aircraft are equipped with GFC700 Automatic Flight Control System for your complete flying comfort and Garmin Chart-View will display aviation charts directly on the PFD/MFD. The system can be used together with Garmin SVT (Synthetic Visual Technology) on the G1000 which is a standard feature in our DA40 New Generation.



Join the Diamond family.

Each member of our Diamond distribution network is a pilot committed to aviation. Our partners are as excited about Diamond products as we are. Locally owned and operated Diamond distributors will help you to find the best suitable Diamond product. You will benefit from a large field of experience as well as extensive product and market knowledge. Our partners take the time to listen to your goals and concerns and assist you while evaluating a solution customized to your needs and requirements. The majority of our partners do also offer maintenance services at their own service facilities. Further maintenance assistance is provided by our network of independent Diamond Authorized Service Centres all over the world.

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