



# DIAMOND AIRCRAFT INDUSTRIES



AVIATION AS UNIQUE AS YOU ARE



## Diamond Aircraft Group: product overview.



**DA62**

Your high-class limousine for the sky! The twin-engine DA62 is the ideal synthesis of space and performance. Perfect for families and business travelers and an excellent choice for air taxi operators.



**DA42-VI**

Introducing the latest version of Diamond's twin-engine, four-seater aircraft: faster, lighter, unprecedented performance and economy. The DA42-VI with stunning looks attracts stares wherever you taxi in and conveys your advanced pilot status. It is an excellent multi-engine trainer and a superbly capable private aircraft, matching stylish elegance with easy and efficient operation.



**DA20i Katana**

Ergonomically designed and fun to fly, the single-engine, two-seater DA20 far outshines its competitors. You'll be so enthusiastic about its perfect trainer qualities that you may want more of it.



**DA40 Tundra Star**

Ready for every eventuality, the single-engine, four-seater DA40 Tundra Star gives you the freedom to go where you want, whenever you want, and how you want.



**DA40 NG**

Go for innovative, state-of-the-art design combined with excellent safety, best flight quality, high reliability and low operating costs with the single-engine, four-seater DA40 NG. The industry's most popular single trainer aircraft and a blast to fly for private owners!



**HK36 Super Dimona**

For everyone who simply wants to conquer the sky. Excellent for glider training and perfect for towing, the single-engine, two-seater HK36 Super Dimona is considered unbeatably versatile, user-friendly, robust and economic.

## Diamond Aircraft Group: product overview.



### DA42 MPP Guardian

Tomorrow's mission is different than yesterday's? No problem for the twin engine, four-seater DA42 MPP GUARDIAN remote sensing platform. Your flexible and cost-efficient turnkey solution with outstanding performance.



### DA42 MPP Geostar

Collect laser-scanning and photo-grammetry data during one single flight or benefit from unparalleled hyper spectral detection capabilities. The DA42 MPP Geostar is perfectly suited for surveying cities, land areas, critical infrastructure, glaciers or snow fields, but also for mapping damages caused through natural disasters. The hyperspectral variant fits for ISR, mineralogy or environmental applications.



### Diamond Flight Training Devices

We have taken flight training to the next level: built out of authentic Diamond Aircraft parts, real avionics, high-end visuals and sophisticated instructor operating stations, our flight simulators are as innovative as our airplanes.



### Austro Engine

Diamond Aircraft manufactures its engines in-house. This is unique in the industry and makes owning and operating an airplane so much easier for customers. Our subsidiary, Austro Engine, develops and produces state-of-the-art Wankel rotary engines and aviation piston engines which are powered by and certified for different types of aviation kerosene. The new generation AE300, a turbo diesel piston engine running on Jet A1 fuel with 168 horsepower, boasts low fuel consumption, independence from leaded fuel and low noise emissions. This makes it the most modern and eco-friendly aviation piston engine on the market. Success is no coincidence; therefore, we are already developing a new six cylinder engine.

## Diamond Aircraft: coming soon



### DA50-JP7

Coming soon: We introduce our first turboprop aircraft - The DA50-JP7. With room for up to seven passengers and powered by a turbine burning 20% less fuel than similar engines. The DA50-JP7 is perfectly suited for operations in harsh climates with temperatures ranging from minus 50°C to plus 50°C.

# Diamond Aircraft Industries

## Diamond Aircraft - your single point of contact.

The Austrian Diamond Aircraft Group comprises a network of companies that complement and match each other perfectly. But, in keeping with the expectations of our customers, we have taken this precision a step further: we added a high degree of flexibility to our globally renowned expertise. Besides its unique network family, Diamond Aircraft collaborates with numerous distribution partners and service centers all over the world. Please visit [WWW.DIAMOND-AIR.AT](http://WWW.DIAMOND-AIR.AT) to find the agency you need.

### Diamond Aircraft, Austria:

Today, Diamond Aircraft Industries GmbH is Europe's largest and most innovative producer of ultra-modern, lightweight fiberglass and carbon fiber composite aircraft. Our strong position on the world market is thus rapidly gaining strength. The Diamond Aircraft headquarters for production and distribution, as well as the design and development center, is in Austria. Our aviation group network is as unique as you are. Whether you are a student pilot in flight training, a customer purchasing an aircraft – or a whole new fleet – or getting your own plane serviced and checked, if you are looking for an upgrade or just the best aircraft to meet your specific requirements, each member of our Group is there to support you.



Diamond Aircraft Headquarters in Austria



Austro Engine production facility

### Austro Engine, Austria:

Founded in 2007, Austro Engine develops and produces top quality, highly efficient, eco-friendly and reliable engines for the Diamond Aircraft Group. At the high-tech production facilities in Wiener Neustadt, Austria, four ultra-modern engine test benches guarantee the consistent superior quality during series production. A propeller test stand is used to drive ahead the further development of diesel-powered aviation engines.



# Aircraft Production.

## WORLD LEADER IN COMPOSITE AIRPLANES.

We promise our customers a stunningly stylish aircraft that is better than anything built before. And our customers expect the best. That's why the Diamond Aircraft composite production center - the largest and most modern in Europe – only uses the latest technological standards. Specialized teams of engineers and designers therefore continue optimizing and perfecting all of Diamond Aircraft's innovations. For example, as Garmin's development partner, we launched the Garmin G1000 glass cockpit in our DA42. Such partnerships, as well as our unmatched company network, allow us to introduce new products much sooner than others. Our customers directly benefit from such cutting-edge developments.

Diamond Aircraft boasts longstanding know-how in the usage of revolutionary lightweight, solid - and at the same time low cost - composite material for the production of aircraft. High-tech standards that have proven themselves in Formula 1 racing for years provide the required basis for being safe and feeling comfortable in a Diamond Aircraft plane. Our robust and reliable airplanes and the best safety record in the industry speak for themselves. Did you know? The stable, lightweight fiberglass and carbon fiber composite technology is also being used more and more in modern airliners. With the plant in London/Ontario, Canada, Diamond Aircraft has gained a strong foothold on the international General Aviation market.

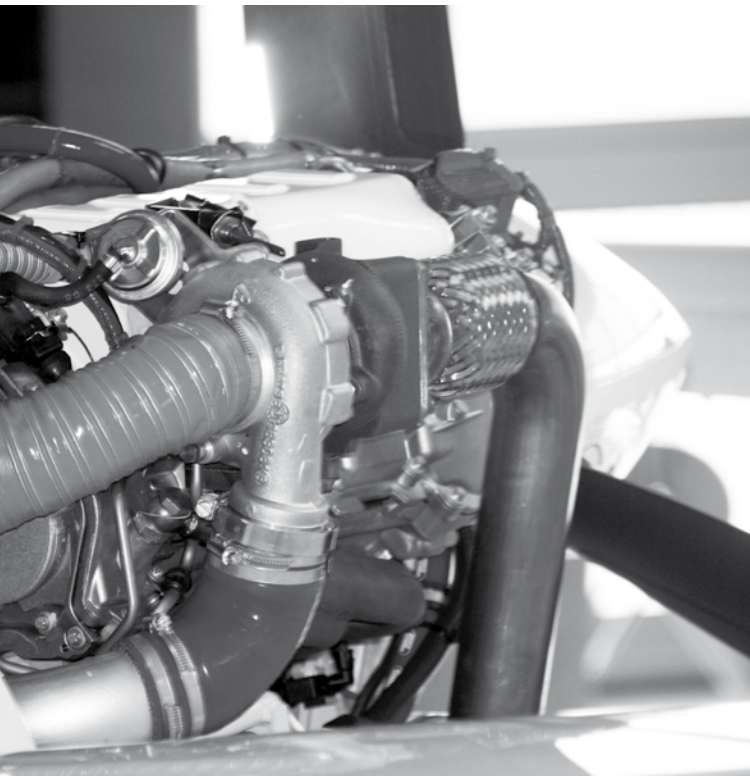


## Diamond Maintenance.

SERVICE, WHEREVER YOU ARE WORLDWIDE.

The Diamond Maintenance division is an integral part of our unique, all-in-one aviation network and an important partner for owners of a Diamond Aircraft plane. As a modern servicing company, Diamond Maintenance carries out all the required services and checks on your aircraft. Our expert engineers and technicians ensure that you will quickly be ready for take-off again.

On top of carrying out the maintenance for Diamond Aircraft, the professional service team also performs maintenance services on different aircraft types (Beech, Cessna, Piper, Gulfstream, Saab, Pilatus and others) and services helicopters and engines. Diamond Maintenance also offers professional, advanced training for maintenance engineers and ensures the supply of spare parts and accessories.



# DA62.

## MORE OF THE BEST.

The twin-engine DA62 is the ideal synthesis of space and performance. The aircraft builds on the strengths of the world's bestselling twin piston aircraft, the DA42, with increased performance, payload, cabin volume and utility. A new range of features delivers superior cabin comfort compared with unbeatable usability to make flying even more easy. The large and comfortable cabin with seating capacities of up to 7 seats sets new standards in general aviation. A compelling mix of distinctive styling, consistent light-weight carbon design and superior flying dynamics is what the DA62 delivers.


"With the roominess of the cabin, the advanced avionics and the overall performance of the DA62 you may feel like an airline captain."  
*Christian Dries, CEO of Diamond Aircraft, 7400 flight hours*



# DA42-VI.

## THE DEFINITION OF PERFECTION.

You want to continue flying where single engine pilots have no more option? Then the DA42-VI is your first choice! Built out of light-weight, strong glass and carbon fiber and powered by two Austro Engine top-of-the-line 168 hp AE300 turbo diesel engines the successor of the DA42 NG combines all the advantages you love in the DA42 NG with even better performance and comfort. Well-designed with new accents such as improved surface, revised cowling and nacelle and a new propeller, this aircraft was built to exceed your expectations.

  
Consumption at 60%:  
39.4 lt/h or 10.4 gal/h

  
Max. Speed:  
365 km/h or 197 kts

  
Max. Altitude:  
5,486 m or 18,000 ft

  
Range  
2,245 km or 1,212 nm

  
Payload:  
589 kg or 1,299 lbs





# DA40 NG.

## AIRBORNE INNOVATION.

Capable and Safe. Whether you are a new pilot looking for the perfect first aircraft, an experienced aviator with discerning tastes or a flight school of a high quality standard, buying a DA40 New Generation is always a smart decision.

The modern and safe composite aircraft with advanced avionics and the sophisticated Austro Engine 168 hp AE300 diesel engine running on Jet-A1 is an exceptional IFR (Instrumental Flight Rules) platform, both for training and traveling. You'll be impressed by its excellent flight characteristics, remarkable fuel-efficiency and the stunning panoramic visibility out of the canopy.



Consumption at 60%:  
19.7 lt/h or 5.2 gal/h



Max. Speed:  
285 km/h or 154 kts



Max. Altitude:  
5,000 m or 16,404 ft



Range  
1,741 km or 940 nm



Payload:  
410 kg or 904 lbs



# DA40 Tundra Star.

## TAKES YOU PLACES.

New Engine. New Landing Gear. New Adventure. Made out of proven light-weight and solid composite material and powered with a 168 hp state-of-the-art AE300 turbo diesel engine from Austro Engine, the DA40 Tundra Star is equipped with all the advantages you love in its sister aircraft DA40 NG. But equipped with a special rough terrain landing gear you can explore all the uneven strips and terrains you ever wanted to. Bigger wheels on the main and nose landing gears, an improved wheel base, new rims, as well as special reinforcements and tougher structures give you the safety to land almost anywhere.



Consumption at 60%:  
19.7 lt/h or 5.2 gal/h



Max. Speed:  
265 km/h or 143 kts



Max. Altitude:  
5,000 m or 16,404 ft



Range  
1,654 km or 853 nm



Payload:  
400 kg or 882 lbs



# DA20i Katana.

FLY LIKE AN EAGLE.

Safe. Reliable. Forgiving. Imagine taking the ultimate 2 seat sports car and adding wings. That is the feeling you get when you take off to the skies in the DA20, whether travelling or training. The advanced composite design and the modern cockpit of the DA20 make it an exciting airplane to fly. Its agility and superb performance guarantee a smile on your face.

-  Consumption at 55%:  
12.1 lt/h or 3.2 gal/h
-  Max. Speed:  
234 km/h or 126 kts
-  Max. Altitude:  
4,000 m or 13,123 ft
-  Range:  
1,350 km or 729 nm
-  Payload:  
300 kg or 662 lbs



# HK36 Super Dimona.

BORN TO SHINE.

Attractive. Affordable. Classic. The start of something great: the HK36 touring motor glider laid the foundation of Diamond Aircraft's aviation changing history. Beloved and flown around the world - the HK36 Super Dimona, also known as Katana X-treme in the USA and Canada, is the ultimate two-seated motor glider made of fiber-reinforced high-tech composite. Equipped with Rotax engines with either 100 hp or 115 hp (in the turbo-charged variant), the Super Dimona is perfect for glider pilot training and glider towing or just fun to fly.



Consumption at 65%:  
17.4 lt/h or 4.6 gal/h



Max. Speed:  
222 km/h or 120 kts



Max. Altitude:  
5,000 m or 16,404 ft



Range  
458 km or 849 nm



Payload:  
202 kg or 445 lbs



## Coming Soon: DA50-JP7.

### YOUR JETPROP AIRCRAFT.

Coming soon: We introduce our first turboprop aircraft - The DA50-JP7. The aircraft is powered by a newly designed, 465 hp turbine engine, the AI-450S, built by Motor Sich in collaboration with Ivchenko Progress, paired with a five-blade MT propeller. The engine burns 20% less fuel than similar engines and is easy to operate with dual electronic controls and a push-button start. The DA50-JP7 with room for up to seven passengers will be available in two versions. A standard variant for training and personal flying and a Tundra variant with big tires and rugged landing gear.



With more than 25,000 employees Motor Sich is one of the world-leading enterprises producing engines for airplanes and helicopters as well as industrial gas turbine installations. Products of the company are used in more than 100 countries worldwide.



Ivchenko-Progress is a state design bureau for aircraft engines whose products are widely used in both civil and military aircraft, most notably by Antonov, Beriev, Ilyushin, Tupolev, Mil and Yakovlev.




# DA42 MPP Guardian.

## A POWERFUL AND COST-EFFECTIVE MISSION SOLUTION.

Based on the award-winning DA42 NG, the DA42 MPP (Multi Purpose Platform) Guardian is the ultimate special mission aircraft with an endurance of up to 12 hrs while burning only 6.4 US gallons (24.2 litre) per hour. With a DA42 Guardian you have a proven and fully certified remote sensing system at your disposal. Powerful and cost efficient, it delivers accurate results with hawk-eyed precision for ISR (Intelligence, Surveillance and Reconnaissance) missions, geo surveys or TV broadcasting.

  
Consumption at 35%:  
24.2 lt/h or 6.4 gal/h

  
Max. Speed:  
328 km/h or 177 kts

  
Range at 35%:  
2,218 km or 1,198 nm

  
Minimum Speed  
140 km/h or 76 kts

  
Payload:  
634 kg or 1,398 lbs




## DA42 MPP Geostar.

### HIGH GEO ACCURACY MEETS OPERATIONAL ECONOMY.

Collect laser-scanning and photogrammetry data during one single flight or benefit from unparalleled hyper spectral detection capabilities. The DA42 MPP Geostar is available in two variants. The LiDAR version is equipped with a long-range airborne laser-scanner and a high-format photogrammetric camera and allows to collect both data during one single flight. Perfectly suited for city and land area surveys, monitoring of critical infrastructure, glaciers or snow fields and mapping damages after natural disasters. The hyperspectral version comes with a full spectrum imager and a long-range laser-scanner. It is particularly suited for ISR (Intelligence, Surveillance and Reconnaissance), mineralogy or environmental applications.

  
Consumption at 35%:  
24.2 lt/h or 6.4 gal/h

  
Max. Speed:  
307 km/h or 166 kts

  
Range at 35%:  
1.929 km or 1.042 nm

  
Minimum Speed  
140 km/h or 76 kts

  
Payload:  
630 kg or 1,389 lbs



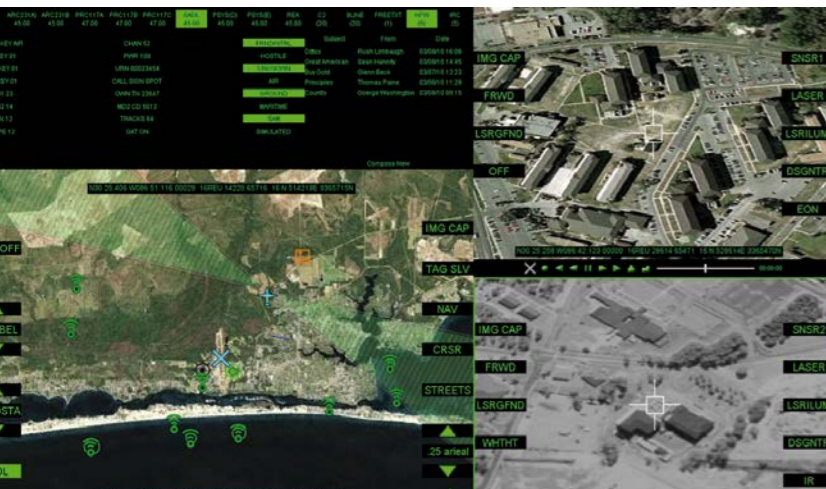
# Special Mission Aircraft.

## PRECISION FROM ABOVE.

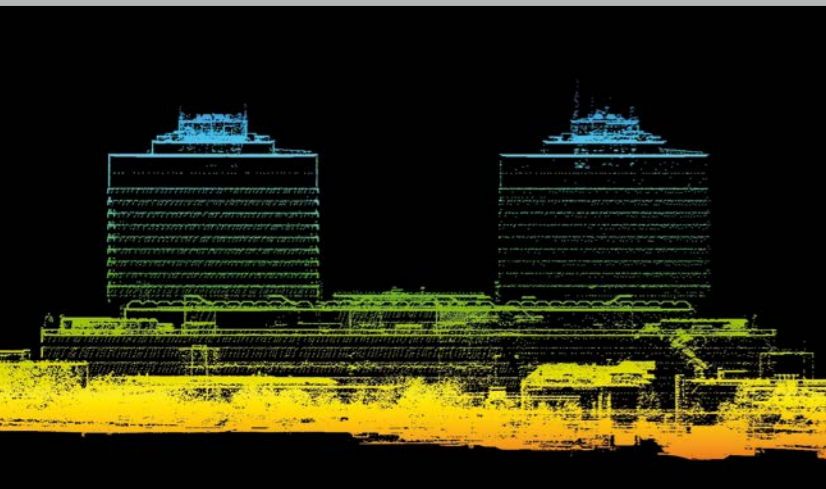
Diamond Aircraft succeeded in building the ultimate surveillance aircraft: the DA42 MPP. We offer remote sensing turnkey solutions comprising the aircraft, airborne sensors, C2 centres as well as corresponding pilot, operator and maintenance training. Our cooperation with industry experts and our partner network guarantees the employment of cutting-edge technology as well as competent and reliable project implementation.

Possible applications include: HDTV broadcasting, geodetic data acquisition, environmental monitoring, infrastructure monitoring, disaster response, event protection, law enforcement, maritime patrol, surveillance and reconnaissance.

Application Example for Photogrammetry provided by the DA42 MPP Geostar



Application Example for ISR



Application Example for Laser Scanning



Application Example for HD Video Broadcasting





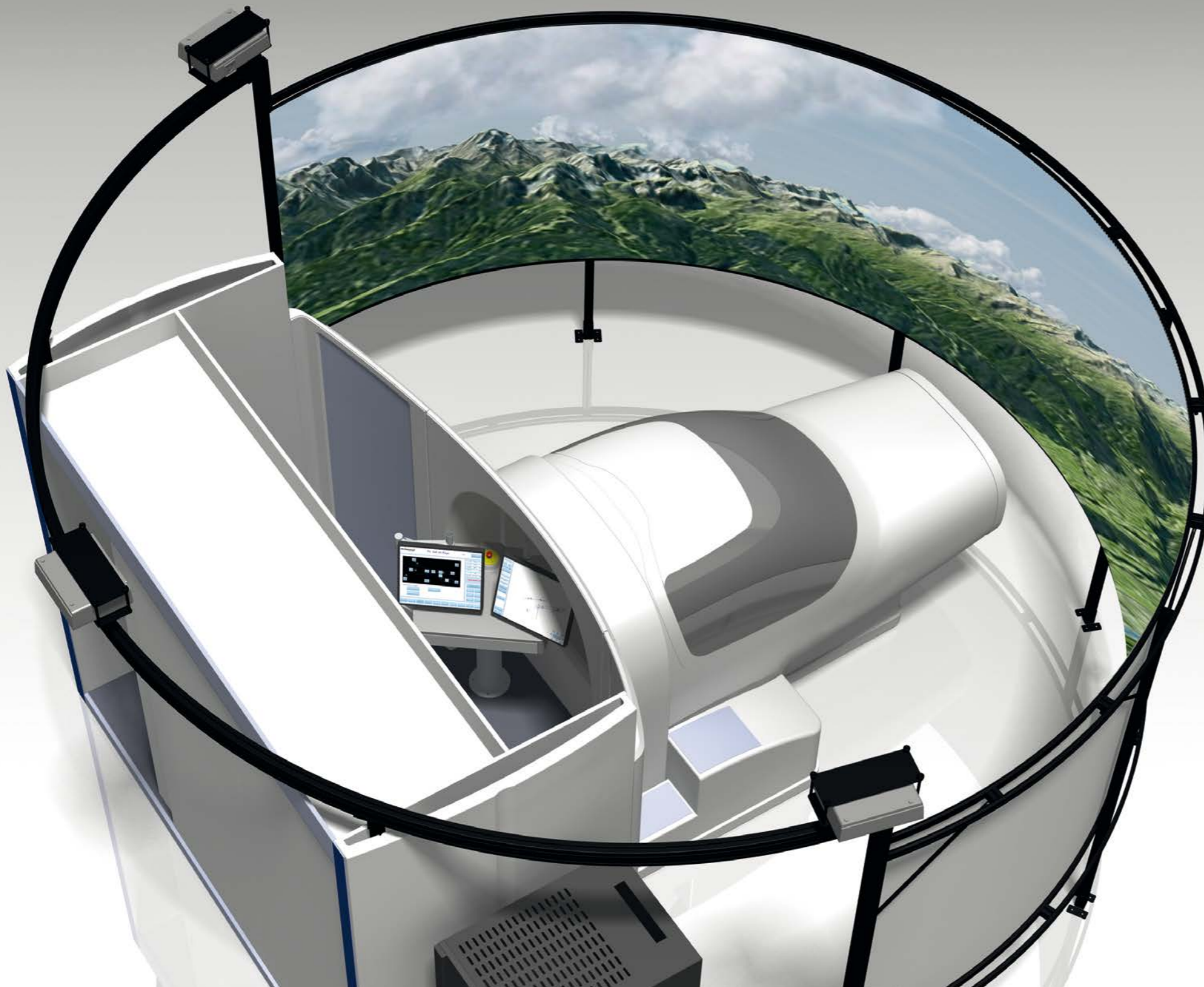
# Diamond Simulation

## GET READY FOR REALITY.

As aviation pioneers we are used to going beyond the expected and have taken flight training to the next level. Only Diamond Aircraft offers a complete line-up of type-specific flight training simulators. Operators and students alike benefit from economical practice time, including honing skills for emergency situations that can be scheduled irrespective of weather conditions. Built with real avionics, high-end visuals and sophisticated instructor operating stations, our Simulators increase safety, efficiency and effectiveness plus offer a cleaner, greener way to train.

"Thank You, Diamond Simulation! We run a very busy schedule at CTC Training UK and both our FNPTII have performed impeccably, logging a total of 22.000 hrs of training details [...] since August 2008. To maintain this high level of usage would not be possible without the tremendous back-up facility your service advisors deliver. Diamond Simulation was the correct choice for CTC training UK."

*Drew Guyat, Simulator Manager, Bournemouth*



GLOBAL CANVAS image generator for the Diamond Simulator



# Austro Engine Products

## ENGINEERING INNOVATION: AE300

With the AE300, Austro Engine has the leading piston engine in General Aviation on the market, powered by and certified for various types of fuel, such as Jet A1, Jet-A, TS1 (Russia), TS1 (Ukraine), RT (Russia), RT (Ukraine), JP8 and Fuel Type 3 (China). Hundreds of thousands flight hours have proven the engine's endurance and reliability. And, just like all the other Diamond Aircraft products, its environmentally clean top performance and superior efficiency place the AE300 well ahead of competition.



Diamond Aircraft DA42-VI powered by the AE300 Heavy Fuel Engine

## COMPACT, HIGH POWER-WEIGHT RATIO, LOW VIBRATION: AE50R

Since launching our first line of products, the AE50R series, our 55 horsepower rotary engine, has earned itself a successful track record with more than 1200 installations in motor gliders and with its deployment in unmanned aerial vehicles of leading original equipment manufacturers (OEMs). As you would expect of one of our products, our rotary engines are small, lightweight, and have an outstanding low vibration.



AE300



AE50R

## Other Engine Customers:



© by Alexander Schleicher



© by Schiebel



© by Aurora Flight Sciences



# Diamond Flight Training

## CREATING THE BEST PILOTS.

Our commitment to quality goes far beyond the mere delivery of your aircraft. We believe that high-quality training is as critical to your safety as a well-designed aircraft. That's why each airplane comes with a training credit to ensure that you will have mastered each move once you step aboard your new plane. You will know the cockpit like the back of your hand because you've trained in an authentic Diamond Aircraft cockpit with real avionics. This gives you added security. Although we're very proud of our safety record, we know it takes safe pilots to ensure safe flights. And safety goes beyond just a good airplane.



**AIRCRAFT TYPE: DA42-VI**  
Consumption (60%): 39.4 l/h - 10.4 US gal/hr



**AUSTRO ENGINE AE300: DA42-VI, DA42 NG + DA40 NG**  
Operated with Jet Turbine Fuel (Jet-A1), EECU, Single lever control



**DIAMOND SIMULATOR**  
Full size replica of the DA40 and DA42, FNPT II, Level 5/6 certified



**GARMIN G1000 COCKPIT: DA42-VI, DA42 NG + DA40 NG**  
Advanced avionics system



**AIRCRAFT TYPE: DA40 NG**  
Consumption (60%): 19.7 l/h - 5.2 US gal/hr



© Pilot Training Network



© Flight Training Europe

## References for flight schools and fleet operators.

Country	Company	
ALGERIA	• Aviation Training School	
AUSTRIA	• Austrian Aviation Academy • Diamond Executive Club	• JW Flighttraining Graz • Watschinger Flugbetrieb
AUSTRALIA	• Flight Training Adelaide	• Australian Wings Academy
BELGIUM	• CAE Global Academy	
CHINA	• Civil Aviation University of China • Hainan Airlines	• Shenzhen Airlines
ETHIOPIA	• Ethiopian Airlines	
FINLAND	• Aeropole Flight Training • Finnish Aviation Academy	• Patria Pilot Training
FRANCE	• Airways Formation • Cannes Aviation	• École Nationale de l'Aviation Civile (ENAC) • ESMA Aviation Academy
GERMANY	• Air Alliance Flight Center • IKON Ausbildungszentrum für die Luftfahrt	• Pilot Training Network – Subsidiary of Lufthansa Flight Training
GREECE	• Egnatia Aviation	
ICELAND	• Keilir Aviation Academy	
INDIA	• CAE Global Academy – NFTI Gondia	• Indira Gandhi Rashtriya Uran Akademi
ITALY	• Urbe Aero	• Profesione Volare
JORDAN	• Ayla Aviation Academy	
MALAYSIA	• Asia Pacific Flight Training • HM Aerospace – CAE Global Academy	• International Aero Training Academy (IATAC)
MALTA	• Flight Training Malta	
MOROCCO	• Royal Air Maroc Academy (RAMA)	
NEW ZEALAND	• CTC Aviation Group	• Massey University

## References for flight schools and fleet operators.

Country	Company	
RUSSIA	• Higher Aviation School Ulyanovsk	• St. Petersburg State University of Civil Aviation
SAUDI ARABIA	• Saudi Aviation Flight Academy	
SOUTH KOREA	• Cheongju University	• Chodang University
SPAIN	• Centro de Estudios Superiores de la Aviación (CESDA)	• FTE Jerez
SWEDEN	• Airways Flygutbildning • Diamond Flight Academy	• Scandinavian Aviation Academy • Svensk Pilotutbildning
SWITZERLAND	• Avilu Flight Training • Flight School St. Gallen/Altenrhein	• Swiss Aviation Training
TAIWAN	• Apex Flight Academy	• EVA Airways Flight Academy
THAILAND	• Bangkok Aviation Academy, • Civil Aviation Training Centre (CATC)	• International Aviation College • Nakhon Phanom University (NPU)
THE NETHERLANDS	• Dutch Flight Academy	• Martinair Flight Academy
TUNISIA	• Safe Flight Academy	
TURKEY	• Atlasjet – Atlantic Flight Academy • Ayjet	• Turkish Airlines
UKRAINE	• Rotor Ukraine	
UNITED ARAB EMIRATES	• Fujairah Aviation Academy	• Horizon International Flight Academy
UNITED KINGDOM	• Atlantic Flight Training • CTC Aviation Training	• Stapleford Flight Training
USA	• CAE Global Academy • CTC Aviation Training • CTI Professional Flight Training • EVA Airways Flight Academy	• Embry Riddle Aeronautical University • National Flyers Academy • Phoenix East Aviation • Utah Valley State College

The list has an extract character and does not show all operators of Diamond A/C flight training products. We as well honor the numerous smaller FTO's operating Diamond Aircraft, and are proud of their success with our product.

### Examples for Authorities operating Diamond Aircraft

• Armée de l'air – French Air Force • Indian Air Force • Royal Thai Air Force • United States Air Force Academy Training

## Fleet direct.

### FOR FLIGHT SCHOOLS AND FLEET OPERATORS.

Diamond offers factory sales and support for Institutional and Fleet operators. Our sales professionals and senior Management will assist you in making the best decisions regarding your fleet. Based on the type of operation you run and its specific requirements, we will offer our assistance in optimizing the type and number of aircraft required, the optimal fleet replacement, and rejuvenation strategies.

We will work with your staff to ensure effective instructor training, maintenance training, parts provisioning and aircraft integration into your operation. Our field service representatives are experienced EASA or FAA aircraft engineers, instructors and pilots and are ready to support you on site. Contact us at [fleetsales@diamond-air.at](mailto:fleetsales@diamond-air.at).



## Why Diamond?



### GARMIN G1000 COCKPIT.

The standard installed Garmin G1000 glass cockpit, similar to those used in large airliners, offers unparalleled situational awareness and flight monitoring. It meets the highest expectations regarding operator convenience and better safety.



### COMMITMENT TO SAFETY.

The company's aircraft are verifiably the safest in their class: the incredible overall accident rate of about just one sixth of the General Aviation average proves it (Source: Aviation Consumer).



**JET A-1,  
DIESEL EN590**  
or see Airplane Flight Manual

### FUEL EFFICIENCY.

For Diamond Aircraft, building incredibly fuel efficient airplanes has always been a cornerstone of our strategy. All of our aircraft are best in class in their fuel efficiency, saving you money whenever you fly. And with our Austro Engines AE300 Turbo Diesel with EECU you save even more fuel.



### ONE-STOP-SHOP.

No other manufacturer offers you the time-saving and quality ensuring advantage of a single point of contact is it the aircraft, the installed engine, the full size replica simulator or corresponding pilot and maintenance (EASA Part 147) training at an in-house TRTO (Type Rating Training Organisation).



### OUR MONOCOQUE CABIN.

We use all the advantages of the solid carbon composite construction for building extremely safe aircraft.



### DE-ICING.

You can equip the DA42-VI and DA62 with a certified de-icing system which allows you to operate the aircraft in any weather conditions.

## The spirit of innovation.

Developing and building a family of aircraft takes a long-term commitment and an unwavering vision - it's not for the faint of heart.

Diamond not only has the vision and resources, but an owner who embodies the spirit of innovation. With the passion of an accomplished pilot, and the vision of a successful entrepreneur, Christian Dries has led Diamond Aircraft's growth from building only a single motor glider to offering general aviation's most innovative and diverse family of personal and business aircraft. The growth of the Diamond Aircraft family exemplifies his personal commitment to delivering aircraft that pilots want.



## Industry Leadership.

Visionary leadership, coupled with a keen passion for flying, means innovation is ingrained in everything we do. Expanding the bounds of what was thought possible before, Diamond is proud of our long list of aviation firsts:

Diamond Aircraft revolutionized the aviation market with being the first to introduce Diesel piston singles and twins

The Austro Engine AE300 with 168 hp offers low fuel burn, independence from leaded fuel and low noise emission

We developed out of its general aircraft the world's most economic remote sensing platform - DA42 MPP Guardian

The first seven-seat modern composite aircraft

World's first flights with pure bio fuel made from algae with a Diamond DA42 NG equipped with AE300 engines

The world's first serial hybrid electric aircraft, the DA36 E-Star

## Commitment to Safety.

The company's aircraft are verifiably the safest in their class: the incredible overall accident rate of about just one sixth of the General Aviation average proves it (Source: Aviation Consumer January 2012). Diamond Aircraft offers you ultramodern safety avionics, also used in big airliners, the unique mono cockpit made out of light and at the same time very strong composite materials, known from Formula 1, and an ingenious fuel system protection. We are the world's largest producer of light twin engine aircraft.



### SPECIAL "ROUGH TERRAIN LANDING GEAR".

Bigger wheels on the main and nose landing gears, an increased wheel base, different rims, as well as special reinforcements and tougher structures give you the safety to land almost wherever you want.



### SAFETY AVIONICS.

Garmin Synthetic Vision (SVT) transforms our cockpit by accurately displaying synthetic terrain, flight hazards, flight path marker and highway-in-the-sky on the PFD. The pilot maintains excellent airborne situational awareness even when flying in conditions of poor visibility or darkness. This results in reduced pilot workload and safer flying.



### OUR SAFETY CELL CABIN.

We use all the advantages of the solid composite construction - such as unparalleled strength, stress-resistance, stability, reliability, durability and robustness, and last, but not least, cost-effectiveness - to good use in building extremely safe aircraft.



### FUEL SYSTEM PROTECTION.

The dual spar design and aluminum fuel cells of the DA40 and DA42 protect the fuel like no other airplane that carries fuel in the wing. Many airplanes carry fuel directly behind the leading edge skin of the wing - the implications of an impact in that area are obvious! Diamond Aircraft uses TSO Stainless Steel braided fuel lines throughout the airframe, not just forward of the firewall. They are much stronger than conventional aluminum fuel tubing and allow airframe deformation without rupturing.



### DE-ICING.

The DA42 is the only aircraft in this class with a certified de-icing system which allows you to operate the aircraft in any weather and to fly in known icing conditions.



DA42-VI Single Engine Service Ceiling: 18,000 ft (5,486 m).



Full scale impact testing with instrumented Crash Test Dummies (image above) and unlimited airframe lifetime (image below)



# Diamond Aircraft goes green.

## LOWEST NOISE

Aviation Gasoline 100LL contains an additive, which develops into lead after burning. Therefore, Diamond Aircraft and Austro Engine invested millions to introduce new engines into aviation, which are both, environmentally friendly and powerful. Compared to conventional gasoline engines, a Diamond Aircraft plane has significantly lower exhaust emissions.

## LOWEST FUEL CONSUMPTION AND LOWEST EMISSIONS

The Austro Engine Jet-A1 aviation piston engine reduces fuel consumption at an equivalent power setting by half when compared to a conventional gasoline engine. Diamond Aircraft's innovative exhaust gas system for the Austro Engine powered DA42 aircraft reduces the noise level by 20db below the official limitations during take-off.







„Our Vision: revolutionize general aviation. Our Goal: set the highest standards possible in aircraft production and development. Our Promise: combine the most progressive materials and technology to deliver highly reliable, economic aircraft that are less damaging to the environment while never sacrificing performance, safety or beauty.“

Christian Dries,  
CEO of Diamond Aircraft



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For more information about Diamond Aircraft (North America), visit [www.diamondaircraft.com](http://www.diamondaircraft.com)

For more information about Austro Engine, visit [www.austroengine.com](http://www.austroengine.com)

For more information about Diamond Airborne Sensing, visit [www.diamond-sensing.com](http://www.diamond-sensing.com)