

AVIATION AS UNIQUE AS YOU ARE



CHAPTER OVERVIEW



WELCOME TO THE DIAMOND AIRCRAFT FAMILY



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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.

ABOUT DIAMOND AIRCRAFT



PERFORMANCE. EFFICIENCY. SAFETY.

Diamond Aircraft (acquired by Wanfeng Aviation in December 2017), headquartered in Austria with facilities in Canada and China, is amongst the leading aircraft manufacturer in General Aviation. Founded in 1981, Diamond has pioneered many aviation firsts and achieved numerous milestones and industry expert accolades. Today, Diamond Aircraft has more than 1,000 employees worldwide and offers the most complete range of certified piston aircraft models: from the 2 seat single DA20 to the stunning 7 seat DA62. With its complete line of piston aircraft including a dedicated flight training concept with Single Engine Piston (DA40 NG) and Multi Engine Piston (DA42-VI) trainers, along with type-specific flight training simulators and proprietary engines, Diamond Aircraft is the only sole source provider in the fleet training market. Diamond Aircraft also made a footprint in the special mission market with the remote sensing turnkey solutions DA42 MPP and DA62 MPP and the soon to be certified aerobatic turboprop tandem trainer DART.

Diamond Aircraft uses proprietary lead-free jet fuel piston engines, made by Austro Engine GmbH (a 100% subsidiary of Diamond Aircraft Austria), for the DA40, DA42 and DA62. Every one of Diamond's aircraft shares a common DNA, incorporating leading edge technology, not for the sake of innovation, but for superior performance, efficiency and safety. Over 5,500 Diamond airplanes are flown by private pilots, professional flight training operators and institutions worldwide.



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.

CIVIL AIRCRAFT



DA62



DA42-VI



DA50 RG



DA40 series



DA20 series

SPECIAL MISSION AIRCRAFT



DA42 MPP



DA62 MPP



DART (coming soon)

ADDITIONAL PRODUCTS



Austro Engine



Flight simulator

WHY DIAMOND



MODERN AIRFRAME

Made out of robust glass and carbon fibre composite material, Diamond aircraft have the edge over traditional aluminium airplanes when it comes to durability, aerodynamics and safety.



MODERN PROPULSION

Diamond Aircraft revolutionized the general aviation market by being the first to introduce most efficient jet fuel piston singles and twins.



MODERN AVIONICS

Arguably, all OEM's have access to the same avionics technology, however some adopt quicker than others. Diamond Aircraft was the first customer to commit to Garmin's fully integrated G1000.



COMMITMENT TO SAFETY

When it comes to safety, positive results are what really matter most. Diamond has earned a safety record, backed by real world data, that is second to none.



BEST FUEL EFFICIENCY

The manufacture of incredibly fuel-efficient airplanes has always been a cornerstone of Diamond Aircraft's strategy. All our aircraft are best in class in terms of their fuel efficiency, saving you money whenever you fly.

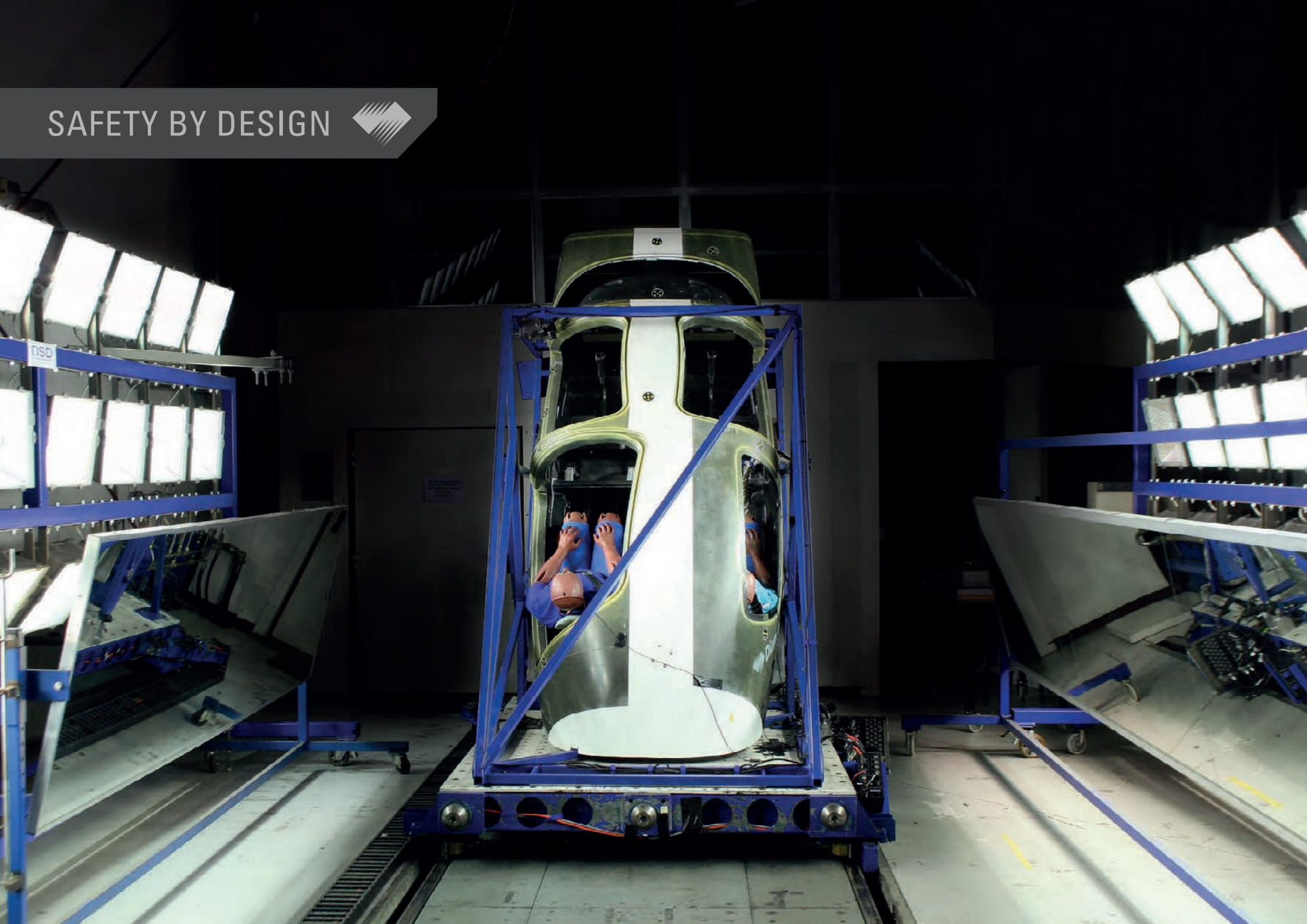


ONE-STOP-SHOP

No other manufacturer offers you the time-saving and quality ensuring advantage of a single point of contact, whether it's the aircraft, the engine it's fitted with, our full-size replica simulator or our pilot and maintenance training at our own TRTO.

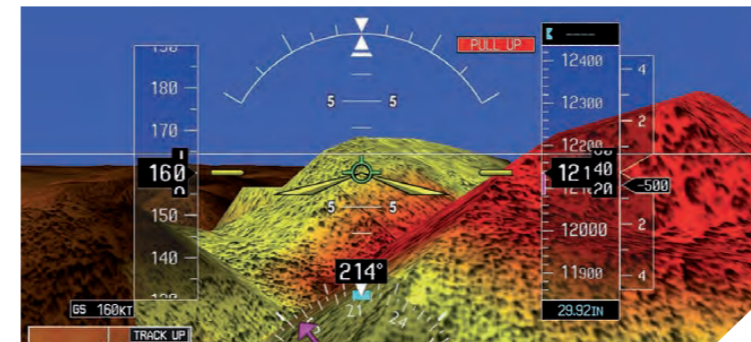


Developing and building a family of aircraft takes long-term vision and unwavering commitment – it's not for the faint of heart. Diamond has pioneered many aviation firsts and achieved numerous milestones and industry expert accolades. Today, Diamond Aircraft offers the most complete range of certified piston aircraft models. Every one of our aircraft shares a common DNA, incorporating leading edge technology, not for the sake of innovation, but for superior performance, efficiency and safety.



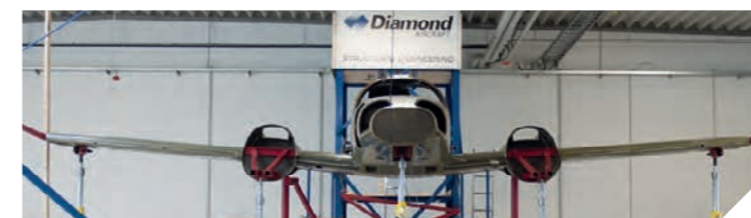
ACTIVE SAFETY

Active Safety refers to all the features and characteristics of an aircraft that help pilots avoid an accident, e.g. docile handling characteristics, continued controllability through a stall, positive stability, superior visibility, modern integrated glass cockpit, de-icing.



PASSIVE SAFETY

Passive Safety features are the second line of defense and help minimize the probability and degree of injuries. These elements include, e.g. structural integrity of the cabin under crashloads, effective occupant restraint, impact energy absorption.



We conduct full scale impact testing with instrumented Crash Test Dummies (damage tolerant airframe: 26g crash test, 10g flight tolerance).

DIAMOND AIRCRAFT'S SAFETY CELL

Each Diamond Aircraft incorporates an integral cabin surrounding composite "roll cage" structure to provide ultimate protection.



OCCUPANT PROTECTION

We use fixed seatshells with energy absorbing crash elements, antisubmarine geometry and 3-point shoulder/lap restraints.

FLAMMABLE FLUID FIRE PROTECTION

The dual spar design and aluminum fuel cells of the DA40, DA42 and DA62 protect the fuel like no other airplane that carries fuel in the wing. Diamond Aircraft uses TSO Stainless Steel braided fuel lines throughout the airframe. They are much stronger than conventional aluminum fuel tubing.

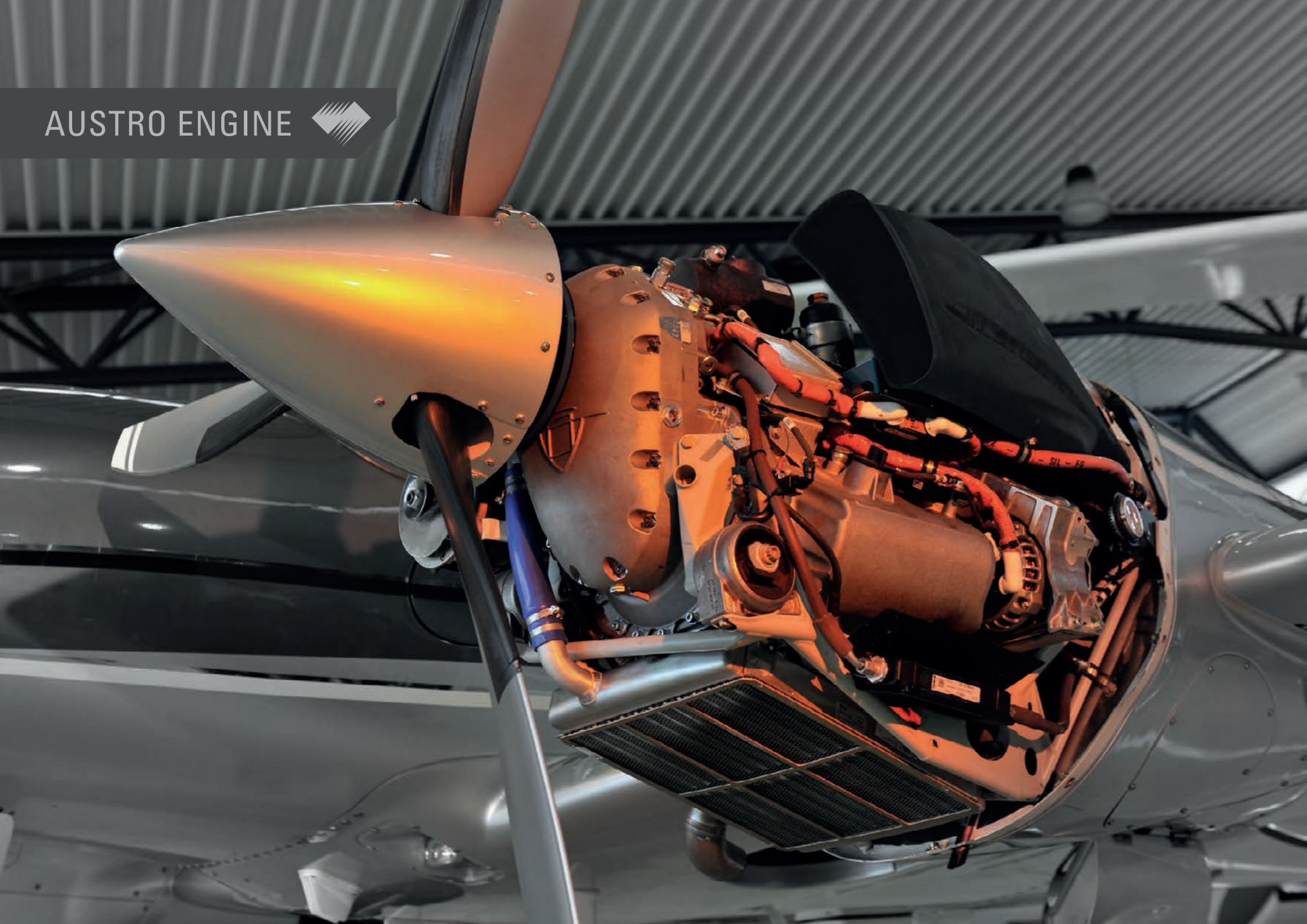


N°1 SAFETY IN GENERAL AVIATION (Source: Aviation Consumer)



"Aviation Consumer's comparative review of aircraft safety found that all of Diamond's airplanes from the DA20 to the DA42 twins have exceptionally low overall accident rates and low fatal rates."

Source: www.avweb.com



THRUST YOU CAN TRUST

Founded in 2007, Austro Engine GmbH of Austria offers innovative solutions in jetfuel piston engines for civilian and non-civilian customers worldwide and also for UAV applications a new line of rotary engines. Diamond uses proprietary lead-free jet fuel piston engines, made by Austro Engine, for the DA40, DA42 and DA62.



WHY THE AUSTRO JETFUEL ENGINE AND NOT CONVENTIONAL GASOLINE POWERPLANTS?

- Burn only half the fuel and pay less for it
- Operate worldwide with globally available jetfuel
- Enjoy a unique high altitude performance thanks to integrated turbo charger
- Focus on flying with easy engine management by an electronic controlled system (ECU) with integrated single power lever design
- Pay less for maintenance
- Fly smoother, quieter and with less emissions.

 TBR 1,800 h	 SAFE DESIGN MTBF > 110,000 h	 PRODUCTION > 3,000 engines in service
 GLOBAL SUPPORT	 OPERATION > 2,500,000 flight hours	



Austro Engine products have proven their outstanding capabilities in versatile operation profiles all over the globe, generating countless stories of success for our partners. On a retrospective view, we are certainly proud of having set entirely new standards in engine reliability, quality and operational efficiency for our customers, whose appreciated involvement in continuous product and service improvements have been vital and the key to success. Being energized by achievements, we are striving to further enhance operator's experiences.

DA62: More of the Best



DA62: THE ULTIMATE FLYING MACHINE – SPEED, STYLE AND SPACE FOR UP TO 7

The DA62 moves more passengers and equipment further and faster than anything else in its class, with exceptional fuel efficiency, luxury and twin-engine security. Space. Performance. Efficiency. Luxury.



AT A GLANCE:

- 7 seats, three-row seating
- Excellent cabin access
- Luxurious leather interior
- G1000 NXi, GFC700 3-axis & yaw damper
- Twin 180hp jet fuel AE330 engines
- High fuel efficiency
- Superb performance in all phases of flight
- TKS known ice protection (FIKI)

DA62: RANGE up to 1,283 nm/2,376 km



“The Diamond DA62 is a perfect platform for our use. We fly 300-400 hrs a year - to short grass airstrip like Manchester Barton and Wickenby which is only 520m and to major international airport like Luton and London Stansted Airport. The benefit of this is the airplane’s capability of high speed on the approach, no slowing down the commercial traffic behind us. The landing is as easy as it can be with its trailing link undercarriage and larger tyres and feathering props. It’s a superb aircraft for private or commercial for either day or night VFR or IFR.”

Steven Viner, Chief Pilot,
Morson International, UK



Consumption 60% total
44.7 lt/h or 11.8 gal/h



Max. Speed
356 km/h or 192 kts



Max. Altitude
6,096 m or 20,000 ft



Useful Load
702 kg or 1,545 lbs

DA42-VI: The Definition of Perfection



DA42-VI: OUR HIGH-PERFORMANCE SINGLE IS A TWIN

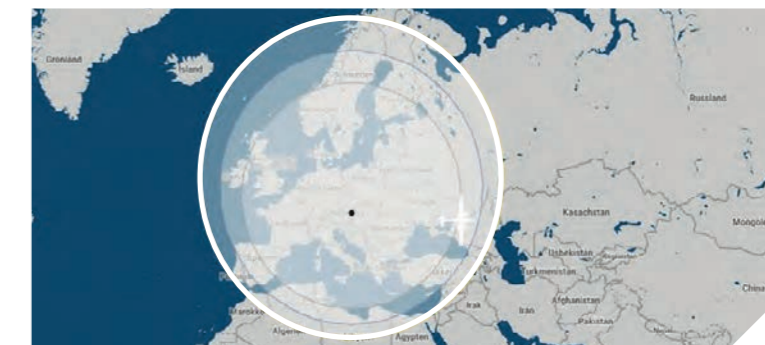
The DA42-VI is easy to fly and burns fuel like a single, but with the added safety of a second engine. Impressive cross-country performance pleases private pilots and business owners alike, while the low operating costs make it an ideal advanced trainer. No wonder it's the best selling piston twin, by far.



AT A GLANCE:

- 4 seats, convenient access
- Panoramic canopy
- Luxurious leather interior
- G1000 NXi with 3-axis GFC700 and Yaw Damper
- Twin 168hp Jet fuel AE300 Engines
- Superb Single Engine Performance
- High Fuel Efficiency
- TKS Ice Protection (FIKI)

DA42-VI: RANGE up to 1,225 nm/2,269 km



„The DA42-VI is wonderful. She does everything you promised. Climbs like a rocket through the ice layer, 1350 fpm and still 1100-1200 at altitude. Radar is great. Use it a lot. Data link is great. Weather and sending emails and SMS at altitude. I don't think there is any other piston twin that comes close price/performance-wise. For those of us who don't want to spend what it takes to fly a turboprop, the DA42-VI is the perfect airplane. What a dream machine!“

Brian Meese, DA42-VI owner, Sweden



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



Max. Speed
365 km/h or 197 kts



Max. Altitude
5,488 m or 18,000 ft



Useful Load
579 kg or 1,276 lbs

DA50 RG - SOAR ABOVE!



DA50 RG: SOAR ABOVE!

You want to stand out from the crowd? You want everyone on board to fly safe? You need comfortable leg, shoulder and head room? You care about the environment? And you too think that flying with a retractable gear single is a touch more sophisticated? Then the magnificent DA50 RG is your number one choice!



DA50 RG KEYFACTS:



Consumption at max range
30.2 lt/h or 8 gal/h



Max. Speed
335 km/h or 181 kts



Max. Altitude
6,096 m or 20,000 ft

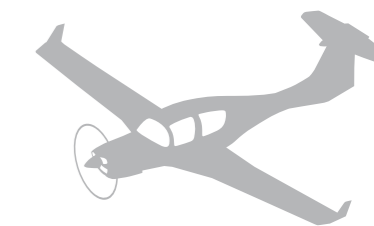


Useful Load
549 kg or 1,210 lbs



AT A GLANCE:

- 5 seats
- Widest and most comfortable cabin in its class
- Excellent cabin access
- Luxurious leather and chrome interior
- G1000 NXi with GFC700
- 300hp jet-fuel engine
- Superior slow speed behavior and glide performance



Sensational. Spacious. Saving.
Safe. Sustainable.
The new first class piston
single!

DA40 VARIANTS



DA40: FOUR SEAT VERSATILITY

Whether you are a new aviator looking for the perfect first airplane, an experienced IFR pilot with discerning tastes or a forward thinking flight school, the DA40 is the smart choice. The durable composite airframe, ultra low fuel burn and superb handling make the DA40 a great airplane for travel, leaseback, and training alike.



(Images from top to bottom) DA40 NG, DA40 Tundra Star, DA40 XLT Lycoming.

DA40 AT A GLANCE:

- 4 seats / big baggage space
- Superb visibility
- Durable Composite Airframe
- Superior Stability and Control
- Garmin G1000 NXi
- Super low fuel burn Jetfuel turbocharged
- AE300 Engine or Lycoming IO360M1A

DA40 NG KEYFACTS:

Consumption at 60% 19.3 lt/h or 5.1 gal/h	Max. Speed 285 km/h or 154 kts	Max. Altitude 5,000m or 16,400 ft	Useful Load 407kg or 897 lbs



DA40 XLT KEYFACTS:

Consumption at 65% 31 lt/h or 8.2 gal/h	Max. Speed 263 km/h or 142 kts	Max. Altitude 5,000m or 16,400 ft	Useful Load 408 kg or 900 lbs



“Taking delivery of a brand new DA40 NG was a dream come true. I have been the happy owner of a DA42 and had long wanted to add a sister single engine plane alongside the twin - for my owner-run rental business. I took the plunge and ordered the DA40 NG. She is beautifully designed, and has a character that shows through as you warm her up, playfully waiting to launch herself into the world. This plane soars rather than just takes off. In her short time in the UK, she has been all over Europe, including down as far as Portugal, and has won many fans.”

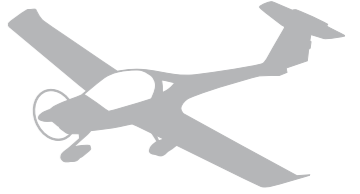
Sue Bell, DA40 NG and DA42 owner, UK

DA20-C1: Performance with Economy



DA20-C1: SPORTY, SLEEK, EXCITING

Imagine taking your favourite sports car and adding wings. That's the feeling you get when you strap into the two seat DA20-C1 and take to the sky. Sporty, sleek and exciting, yet surprisingly affordable, the DA20 offers outstanding performance, with impressive durability and economy, for personal flying and commercial training.



AT A GLANCE:

- 2 seats • Tough, reliable, low fuel burn • Lowest cost certified trainer • Spin certified • US Air Force flight screening • Continental Motors 125hp IO240 • Excellent performance • Garmin G500 Glass Cockpit • Great looks, sporty cockpit

DA20-C1: RANGE up to 543 nm/1,006 km



"Our transfer to a DA20 aircraft fleet developed into a total win-win situation for us. Things like reliable performance, modern technology and economic feasibility - when it comes to operation and maintenance - made the DA20 the best choice for our flight school!"

Peter Schmidt, Flight School
Try to fly, Austria



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



Max. Speed
241 km/h or 130 kts



Max. Altitude
4,000 m or 13,120 ft



Useful Load
265 kg or 584 lbs

FLIGHT TRAINING

FLEET COMMONALITY

Ask any successful commercial operator and they will tell you that fleet commonality simply makes business sense. Diamond offers you all the advantages of fleet commonality.



**MINIMIZED
INSTRUCTOR
STANDARDIZATION**



**RAPID
STUDENT
TRANSITION**



**REDUCED
PARTS
INVENTORIES**



**SOLE SOURCE
PROVIDER**



**DIAMOND SIMULATOR
FNPT II**



**AUSTRO ENGINE AE300
JET-A1 PISTON ENGINE**



**PILOT + MAINTENANCE
TRAINING**



**GARMIN G1000 NXi
COCKPIT**

SOLE SOURCE PROVIDER
Diamond got you covered: From the right aircraft and flight simulators to match any of your missions to the proprietary jet fuel engine it is fitted with, the glass cockpit to pilot training and EASA Part-147 certified maintenance training in their own ATO (Approved Training Organisation).



MEP: DA42-VI



**SEP: DA40 NG
DA40 XLT**



**SEP: DA20i KATANA
DA20 C1**



FROM INSIDE THE COCKPIT, COULD YOU TELL THE DIFFERENCE?

The Diamond FSTD has been precisely modelled after the DA40 and the DA42 aircraft. The instrument panel is fitted with the original Garmin G1000 NXi avionics suite and standby instruments. It is mainly built with original aircraft parts to achieve the most realistic cockpit environment, including aircraft specific cockpit switches, primary flight controls, throttle quadrant and flight crew seats.

The FSTD features accurate aerodynamics, comprehensive systems replication, realistic aircraft instruments simulation, as well as sophisticated environmental and visual effects.

The flight dynamic model is validated with aircraft reference data from our flight test department. Nobody knows it better than the manufacturer!

The Diamond FSTD is the only training device for the DA40/DA42 fleet available on the market that is based on an officially approved Diamond data package.

The Diamond FSTD guarantees an optimal transfer of training and behaviour between simulator and aircraft.



JUST LIKE THE REAL AIRCRAFT.

The FSTD can be used for basic and advanced pilot training including instrument, navigation and procedures training. Due to the aircraft specific cockpit and high fidelity software the Diamond FSTD can also be utilised for aircraft type specific training, such as cockpit familiarisation, Garmin G1000 NXi training and flight instructor training. It thus provides a distinctive added business value in comparison to more generic procedures trainers.



Minimum FSTD room dimensions:
6 m x 5,5 m x 3 m
19,68 ft x 18,04 ft x 9,84 ft



FSTD Cockpit dimensions:
2 m x 1,20 m x 1,65 m
6,54 ft x 3,93 ft x 5,41 ft



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 and offer a cleaner, greener way to train.



TURNKEY SOLUTION CONCEPT



COST-EFFICIENT FIXED WING
REMOTE SENSING PLATFORM



AIRBORNE
SENSORS



CORRESPONDING
PILOT, OPERATOR AND
MAINTENANCE TRAINING



SPARE PARTS,
TOOLING &
DELIVERY



DATA LINKS



GROUND STATIONS



GLOBAL SUPPORT



Like no other special mission aircraft supplier, Diamond Aircraft has taken its MPP concept into a 360° turnkey solution: one single point of contact. The special mission turnkey solutions comprise a cost-efficient fixed wing remote sensing Diamond Aircraft platform, airborne sensors, data links, ground stations, global support, spare parts, tooling, transport as well as the corresponding pilot, operator and maintenance training.

SPECIAL MISSION PLATFORMS

GUARDIAN

DA42 MPP & DA62 MPP INTRODUCTION

The attributes that make our aircraft so successful, make them excellent platforms for any special mission operation. Diamond offers an extensive portfolio of factory approved sensors, communication and datalink installations for a wide variety of missions. Additionally, Diamond is an OEM that welcomes and supports the development and certification of tailor-made configurations to meet each customer's specific requirements.

DA42 MULTI PURPOSE PLATFORM



DA62 MULTI PURPOSE PLATFORM



UNIQUE FEATURES

LOW OPERATING COSTS

- Low fuel consumption • Short downtimes • Ultra-long endurance
- 100 - hour maintenance interval

LOW NOISE AND INFRARED FEATURES

- Virtually undetectable • On-top exhaust system • Matt grey or belly surveillance painting

POWERFUL ENGINE

- Worldwide fuel availability & operability • Turbocharged engines give exceptional 'Hot & High' performance • Low fuel consumption based on advanced direct fuel injection system • Simple engine management handling (EECU) • Multi-fuel certified

SAFETY FEATURES

- All weather capability day and night (certified icing protection)
- Garmin G1000 NXi glass cockpit - airliner standard
- Fully integrated GFC700 autopilot • EASA/FAA single pilot certified • Damage tolerant airframe: 26 g crash tested, 10 g flight tolerance • Fuel protection system • Positive rate of climb at MTOM with one engine inoperative

TOMORROW'S TECHNOLOGY

- Advanced composite technologies developed by Diamond Aircraft
- Composite design offers high strength to weight ratio

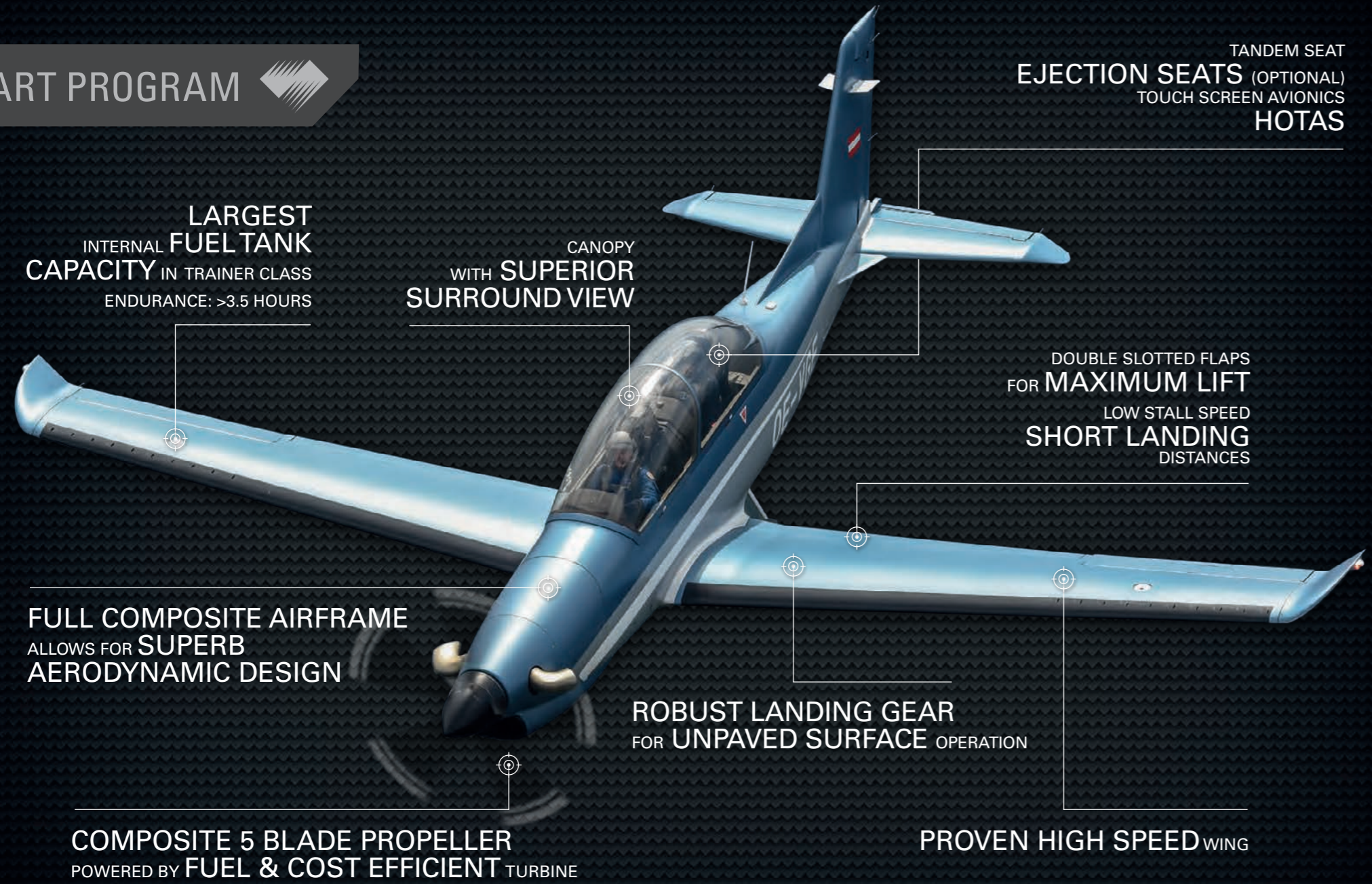
MINIMUM DOWNTIME

- Overnight on-site maintenance for engines and airframe • World-wide support • Unlimited life time for all composite components



MPP at a glance
+ Difficult to detect
+ High useful load
+ Economical to operate
+ Exceptional endurance & range
+ Proven performance
+ Global support
+ Production aircraft based
+ Full OEM level integration

DART PROGRAM



LARGEST INTERNAL FUEL TANK CAPACITY IN TRAINER CLASS
ENDURANCE: >3.5 HOURS

CANOPY WITH **SUPERIOR SURROUND VIEW**

TANDEM SEAT
EJECTION SEATS (OPTIONAL)
TOUCH SCREEN AVIONICS
HOTAS

DOUBLE SLOTTED FLAPS FOR **MAXIMUM LIFT**
LOW STALL SPEED
SHORT LANDING DISTANCES

FULL COMPOSITE AIRFRAME ALLOWS FOR **SUPERB AERODYNAMIC DESIGN**

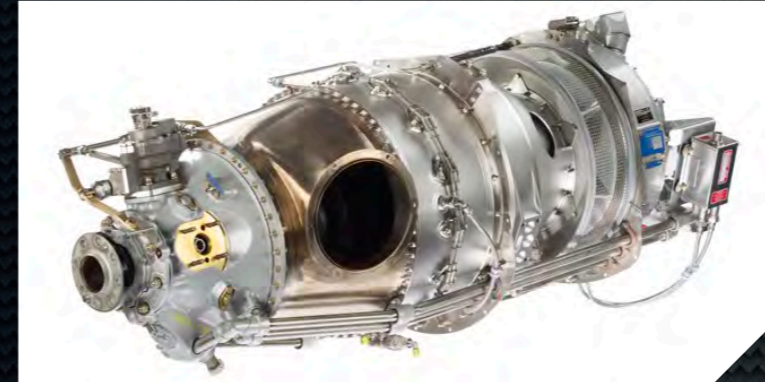
ROBUST LANDING GEAR FOR UNPAVED SURFACE OPERATION

COMPOSITE 5 BLADE PROPELLER POWERED BY FUEL & COST EFFICIENT TURBINE

PROVEN HIGH SPEED WING

PROVEN PROPULSION SYSTEM

Powered by the proven and certified 750 SHP PT6A-25C turboprop engine from Pratt & Whitney Canada. The engine is featuring protection systems such as torque limiter and overspeed governor. The engine drives a five blade, full feather natural composite MT propeller.



TOP-NOTCH COCKPIT

The Garmin G3000 dual glass cockpit features touchscreen control, 14.1-inch diagonal WXGA high-resolution cockpit displays, 5.7-inch high-resolution GTC 575, Synthetic Vision Technology, extended 16:9 width-to-height ratio.



DART-750 SIM

The DART-750 Simulator is modelled after the real aircraft with high fidelity flight model software representative for the DART-750. The instructor operating station (IOS) brings the flight instructor inside the cabin while having full control over the training session.



DART-750 PRELIMINARY KEY FACTS:



Load Factor
+6 / -4



Endurance
3.5 hours +



Max. Speed
265 kts or 491 km/h



Max. Take-off power
750 SHP or 559 kW

OPTIONAL EJECTION SEAT Martin Baker MK16



The DART-750 will be a civil certified all-carbon fiber aerobatic turboprop trainer in tandem seat configuration, equipped with state-of-the-art avionics and a powerful turboprop engine. Based on the DART-750, Diamond is offering a DART Basic Training Solution, comprising the aircraft, a proprietary DART FNPT II Simulator and DART CBT (Computer Based Training) experience.

AVIATION AS UNIQUE AS YOU ARE



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