

DA20



 **Diamond**  
AIRCRAFT



## Discover the joy of flying.

Sporty. Sleek. Exciting yet surprisingly affordable. A lot of words have been used to describe the Diamond DA20 over the years. And no wonder – it's really hard to sum up all of the DA20's attributes in one word.

The DA20 was created to be a really fun, two-place airplane that offers outstanding performance and economy for people who just want to take to the sky. From the first time you strap in, you'll know that it's met all those goals and more. The large bubble canopy treats you and your passenger to an unobstructed view of the sky. It's like flying a modern open-cockpit airplane without the noise and wind. That's why more than 1,000 customers have selected the DA20 as their plane of choice.



# A great introduction to the freedom of flight.

## Sports Car of the Sky

High performance demands. Rigorous analysis of operations and maintenance. A knowledge of well-handling machines. When the United States Air Force looks at purchasing an airplane, the standards are very high – and the DA20 met them. Out of 15 aircraft evaluated in a fly-off to select the airplane in which prospective Air Force pilots would begin their flying careers, the DA20 was the clear winner with every bid submitted by training organizations using the DA20 as their plane of choice. Today, Doss Aviation provides introductory training to all aspiring Air Force pilots and navigators, using a fleet of 44 Diamond DA20s.

Why did the DA20 win the Air Force's business? Unequaled performance, for one. With a sea-level climb rate of 1,000 fpm, a cruise of 138 kts at only 5.5 gph, and a take-off distance of only 1,600 feet over a 50-foot obstacle, the DA20's performance outshines the competition. So does its handling: spin certified, with a slow 44 kts stall speed, benign stall handling, and a demonstrated 20 kts crosswind component, the DA20 is up for a lot of fun in the sky.

The DA20 has a sports car-like feel: from the fighter-like canopy, to two bucket seats, from the center-stick and engine controls in the center console, to the push-pull rod controls which provide unparalleled handling, the DA20 lifts up your spirits every time you take to the air.



*"We are extremely pleased that we chose the DA20 for our contract to train U.S. Air Force pilot and combat systems officer candidates. The Air Force is very impressed with the DA20's superb safety features, wonderful handling characteristics and outstanding fuel economy. Our mechanics love the durability, reliability and ease in maintaining this aircraft...major components are easily accessible and the engine is simple to maintain. The DA20 has exceeded our expectations!"*

Kenneth Smith, President, Doss Aviation

*"I have owned seven aircraft from four different companies, and the DA20 is the most fun to fly of all. It has great visibility, and with the center stick, rather than a yoke, it is just much more natural to fly. My DA20 fits how I fly now – mostly for pleasure, mostly by myself. It's also a very capable plane. I flew it from Toronto to Florida twice, and it gets me there with just two fuel stops. I liked the airplane at first sight. But I bought it first and foremost because I love how it flies. Economics were somewhat important and safety was also a factor, but I felt like you couldn't help but buy it once you had a chance to experience it in flight."*

Gerhard Betsch, DA20 Owner, Toronto, Canada





*"I fly jets for a living, but when it comes time to have some fun, my wife and I love hopping into the DA20 and going on an adventure. The performance is impressive, even at the altitudes where we live!"*

Justin Tiplady, DA20 Owner, Colorado



#### **Unparalleled Economics**

The industry's most fuel-efficient certified aircraft, the DA20 burns only 5.5 gph at a brisk 138 kts cruise speed – that's an amazing 28 miles per gallon, better than most cars going at less than half that speed. In a training setting, the fuel burn is even less – an average of 4.7 gph is typical over many hours of operation. But fuel efficiency is only the start: simple systems and robust composite design keep maintenance costs low – and with only two seats and its industry-leading safety record, the DA20 has one of the lowest insurance costs in the industry.



#### **Multi-Mission Machine**

From beginners to seasoned professionals, the DA20 will quickly win over your heart and sensibilities. Customize the versatile DA20 to meet your needs: choose the basic VFR cockpit or upgrade to a fully capable and cost-effective glass cockpit, which makes the DA20 suitable for technologically-advanced IFR training; add versatility with the baggage extension; upgrade the stylish DA20's look even further by adding the premium leather interior and sleek wheel pants for nose and main gear.

The DA20 offers you the best ownership experience in the industry, thanks to Diamond's outstanding customer support and network of authorized service centers – and the optional Premium Care maintenance program makes your flying costs very predictable by covering all scheduled maintenance for two years and 250 hours. Whoever thought looking after an airplane would be as fun as flying one?

*"For my DA20s on leaseback, the economics are really quite good. The DA20 burns only 5 gph – vs. 8-10 in other trainers; a 100 hour on the Diamond takes about 10 hours – vs. 16 hours on the traditional aluminum plane I owned. A lot of things I had to fix on that plane don't even exist on the DA20 – and because it is a composite plane, you don't have to worry about corrosion, and it takes more abuse on a flight line without showing the wear. As far as the students are concerned – it is simply the easiest plane to learn how to fly – period."*

Chris Strahan, eight-time Diamond Owner, Missouri



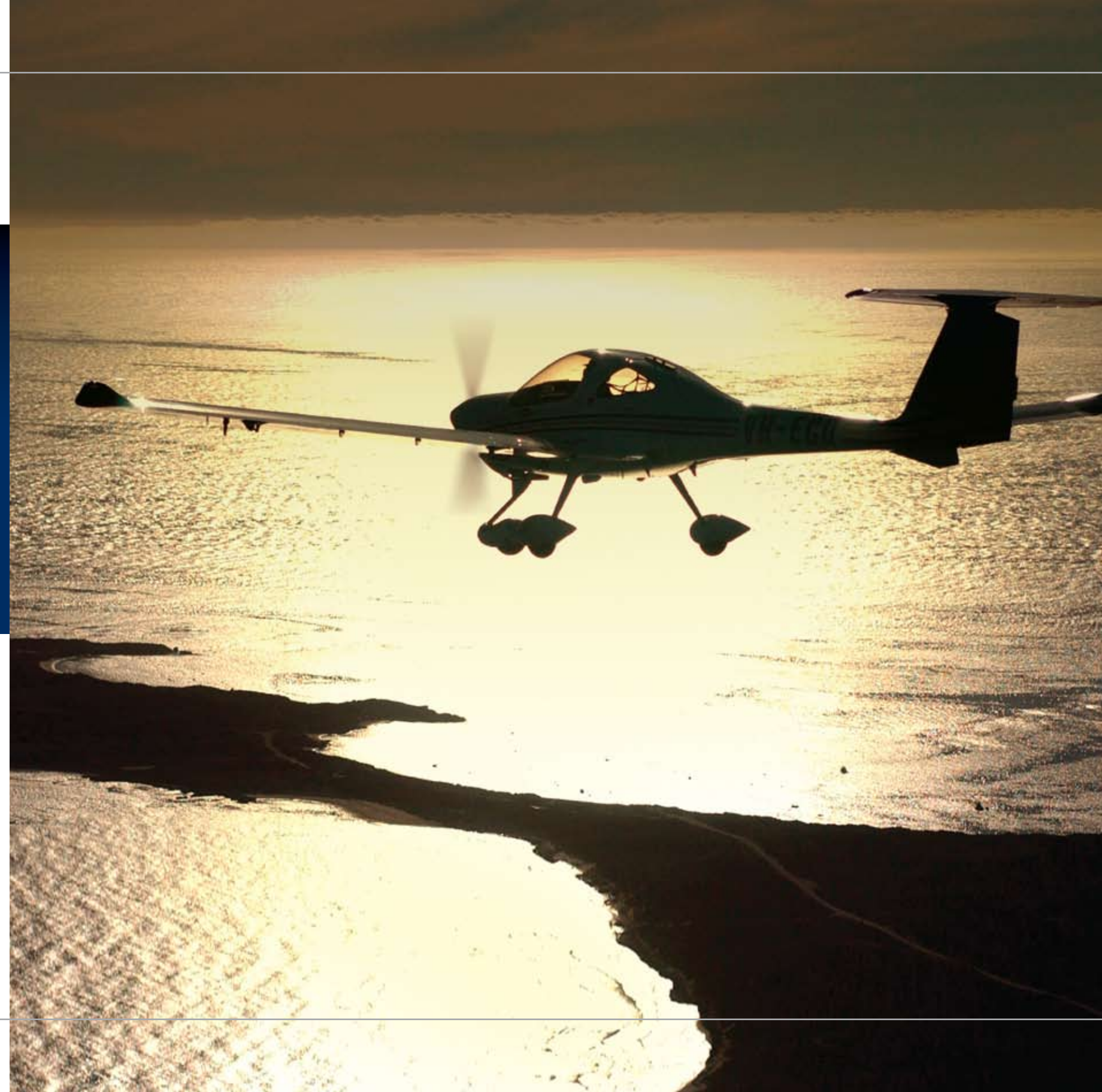
### A Flight Training Star

With its unparalleled performance, comfort, safety and efficiency, it's no wonder the Diamond DA20 is quickly becoming the trainer of choice in North America. Colleges, universities and flight training academies rely on the Diamond DA20 as their introductory trainer. More than 70 DA20s were placed in university, college and academy flight training programs in North America in the past two years alone, not to mention many more in local flight schools. The DA20 fleet worldwide has logged over two million flight hours, a testament to its lasting appeal.

With our involvement in training, we understand that great airplanes drive the success of great flight schools. Constructed out of durable composites, the DA20 is easy to maintain and can take abuse on a flight line without showing wear and tear, especially when compared to aluminum aircraft. With the optional glass cockpit, you now have the ability to train your students in a modern, technologically advanced aircraft – at a price point that will please them and allow you to prosper. There's no better way to introduce students to the wonders of flight than with an airplane that's sporty, sleek, reliable, economical and most importantly – a Diamond.

*"We started our Diamond experience with a DA40 – and the demand was so great that we quickly added one, and then another DA20. We found many students moving to the DA20 after one flight – either stepping up from a Cessna 152, to get much more of the 'fun factor' for not much more money, or changing over from a Cessna 172, to get better performance and a modern plane, at a significantly lower cost. Our leaseback owners are excited, too – they love that both of our planes exceed their financial expectations, and that they get the bonus of many hours of fun flying in their own plane, too."*

Skip Goss, owner, Skill Aviation, Waukegan, Illinois





*"No other manufacturer has as complete a fleet of modern training aircraft that feature the latest in avionics and engine technology. The Diamond fleet offers a smooth transition from the DA20 spin-certified two-seater, to the G1000 glass cockpit equipped four-seaters, the DA40 Diamond Star, and the twin engine DA42. Combined with the seamless integration of professional level flight training devices from Diamond Simulation, we can offer students world class training, from Private Pilot through Commercial, Instrument and Multiengine ratings with almost guaranteed success."*

Carsten Sturm, Europe-American Aviation,  
Naples Florida



## Choose Your Configuration

If you know the DA20 is right for your mission or Flight Training School, you can choose what avionics package works for you. From the Garmin G500 Glass Cockpit, Aspen Avionics Evolution Flight Display or traditional round dials, Diamond has your needs covered.

### Conventional Panel

For those who prefer a conventional instrument package, the DA20-C1 Eclipse is our lowest-price configuration, and offers a wide range of avionics options from basic VFR to full Garmin IFR panel and autopilot, so that you can outfit your aircraft to meet your exacting requirements.

The thoughtfully designed low maintenance interior gives both pilot and passenger unmatched panoramic views, comfortable seating and easy access through the jet fighter-like canopy. The dual control sticks are precise and responsive. Engine and secondary controls are located on the center console, enhancing the sporty feel.



# The Lowest Cost Certified Glass Cockpit, Period.

## Aspen Avionics EFD1000 Pro PFD: Low cost, high function

Discerning pilots will appreciate the full range of capabilities and enhanced situational awareness offered by the advanced avionics available with the EFD1000 Pro PFD.

Its crisp, ultra-bright LED display gives you great visibility, even in direct sunlight – and it is easy to operate, with intuitive menus and flexible hot keys. It offers you all the key functions of a PFD, in a compact, easy-to-use package.

The EFD1000 Pro PFD replaces the directional gyro, nav indicator, and attitude indicator in the DA20 panel and displays attitude, airspeed and altitude tapes, shows GPS flight plan maps on a EHSI, and even comes with an altitude alerter.



Its solid state technology, along with a built-in back-up GPS and emergency battery provide you with all the capability you need to successfully conduct IFR training flights within a technologically advanced aircraft (TAA) training curriculum.

It integrates seamlessly with the Garmin 430 GPS and the STEC 30 autopilot in the DA20, to an EHSI with dual bearing pointers and GPS Steering capability. This unit can do it all, and is an excellent way of training students to enable them to easily transition to other advanced glass cockpits as they continue their piloting careers.

# Affordable, Powerful, Certified Garmin Glass Cockpit



## Garmin G500

The G500 option on the DA20 offers the power and potential of a Garmin integrated glass cockpit at a lower price than ever before.

The G500 combines a high-resolution primary flight display (PFD) and multi-function display (MFD) in one 10-inch wide bezel to bring the basic training cockpit into the 21st century, while making each flight even safer and more enjoyable.

Coupled with Garmin's WAAS certified GNS 430, optional 2nd COM, transponder and audio panel, the G500 offers

a professional panel that exceeds expectations without overwhelming a student pilot.

Options such as Garmin's Synthetic Vision Technology, active traffic advisory system interface and more, are also available for your DA20 with the G500 – all with the familiar, intuitive menu and softkey experience that's made Garmin synonymous with glass cockpit and the avionics leader in today's general aviation.

It's a WIN – WIN with the DA20: unbeatable economics, safety and innovation, coupled with Garmin's glass cockpit technology.

Can't afford to go glass? How can you afford not to?

*"The DA20-C1 Eclipse is first and foremost a thinking man's airplane. It's a comfortable ride for two, performance numbers are generally excellent for the horsepower, fuel burn is modest and the composite structure suggests minimum maintenance. On top of all that, the Eclipse is a fun ride that should endear both current and future pilots to the Diamond line and make stepping up to the larger, more powerful Diamonds irresistible.*

Bill Cox, *Plane & Pilot Magazine*





### Specifications:

Engine	TCM IO-240-B3B	Fuel	AVGAS 100LL
Horsepower	125 hp	Takeoff distance, ground roll	1,280 ft
Propeller	Sensenich 2-blade fixed pitch	Takeoff distance, 50-foot obstacle	1,640 ft
Airworthiness category	Utility, spin certified	Landing distance, ground roll	661 ft
Length	23 ft 6 in	Landing distance, 50-foot obstacle	1,360 ft
Height	7 ft 2 in	Rate of climb, sea level	1,000 ft/min
Wing span	35 ft 8 in	Maximum demo operating altitude	13,120 ft
Maximum takeoff weight	1,764 lbs	Cruise speed at 75%	138 kts/5.5 gal/hr
Useful load	600 lbs*	Stall speed, full flaps	45 kcas
Fuel capacity, usable	24.0 gal	Maximum demonstrated crosswind	20 kts
		Range, 30 minute reserve	547 nm

### Optional equipment:

	DA20	DA20 with Aspen	DA20 with G500
AVPAC 20/1 Garmin GMA 340 Audiopanel (replaces PM 1000 Intercom) Garmin GNS 430W GPS/COM/NAV with glideslope receiver (replaces GNC 420W) Garmin SL40 VHF COM (Number 2 Com)		✓	✓
AVPAC 20/2 Garmin GMA 340 Audiopanel (replaces PM 1000 Intercom) Garmin GNS 430W GPS/COM/NAV with glideslope receiver (replaces GNC 420W) Garmin SL40 VHF COM (Number 2 Com) Garmin GI 106A VOR/LOC/GPS/GS indicator	✓		
GTX 330 Mode S transponder (with Traffic Information System) (exchange from GTX 327)	✓	✓	✓
Garmin Synthetic Vision Technology			✓
Avidyne TAS 600 Traffic Advisory System	✓	✓	✓
Autopilot STEC30 with altitude hold	✓	✓	
GPSS (requires optional Autopilot STEC30)	✓		
Horizontal Situation Indicator NSD 360A slaved (requires Autopilot STEC30)	✓		
Directional gyro with heading bug (requires Autopilot STEC30)	✓		
External power unit, receptacle	✓	✓	✓
Engine pre-heater system	✓	✓	✓
Premium Leather Interior with integrated folding headrests	✓	✓	✓
Baggage extension	✓		
Wheel fairings on nose and main landing gear	✓	✓	✓
Premium Care maintenance program	✓	✓	✓

### Standard equipment:

	DA20	DA20 with Aspen	DA20 with G500
Inertia reel harnesses	✓	✓	✓
Integral instrument lighting	✓	✓	✓
Extended glare shield	✓	✓	✓
Electroluminescent panel flood light	✓	✓	✓
Sheepskin seat cushions	✓	✓	✓
Premium carpet	✓	✓	✓
Engraved aluminum throttle quadrant cover plates	✓	✓	✓
Ground Support Equipment Package	✓	✓	✓
Aspen EFD 1000 Pro Digital with built-in EHSI and GPSS		✓	
Garmin G500			✓
PS Engineering PM 1000 Intercom	✓	✓	✓
Garmin GNC 420W GPS/COM	✓	✓	✓
Garmin GTX 327 transponder with blind altitude encoder	✓	✓	✓



## Diamond – The Perfect Match for Every Mission.

Diamond's dedication to building the ultimate fleet has shaped its product line of modern fuel efficient aircraft, each with a specific application in mind. From flying for business or pleasure, training ab-initio through IFR, commercial or multi-engine, all Diamond Aircraft models are now available with Garmin's industry leading glass cockpits, giving you cockpit commonality across our entire fleet. Two-seat single, four-seat single, twin and even jet, as well as model specific Diamond Simulation Flight Training Devices to match. No other company is more dedicated to delivering the business tools for your flight training operation's success or your enjoyment of aviation.

Diamond Aircraft is an international company with over 500,000 square feet of production facilities worldwide. Our people are passionate about what they do and their passion shines in every aircraft we build.

Contact us today at 1-888-465-7011

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

For more information about Diamond Aircraft (International), visit [www.diamond-air.at](http://www.diamond-air.at)

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

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