

KNOW NO BOUNDS.

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 14 aircraft invited to a fly-off to select the plane in which Air Force cadets would earn their wings, 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, ROTC and full-time, using a fleet of 45 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.



*"The DA20 is a first-class training aircraft. The Air Force really loved the plane, and our cadets love to fly it. The visibility is great, it handles really nicely, and it's easy to fly and has a great glide ratio. Our mechanics love how easy it is to maintain. You can remove an entire wing, the engine is simple to remove and replace, and it's easily accessible throughout."*

Frank Hunter, Doss Aviation, Colorado

*"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 we live at!"*

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 full IFR panel, which makes the DA20 suitable for 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. 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.

*"When I was first introduced to Diamond, I was immediately excited about having an alternative aircraft brand entering the two-seat flight trainer market. The DA20 suited our needs, and with Diamond's innovative and forward-looking vision of a full line of flight training aircraft, the decision was easy – Diamond was going where we wanted to go. We are in the process of migrating towards an all Diamond training fleet. We feel this gives us a competitive advantage over other flight schools because we are offering exclusively a modern, reliable, attractive fleet of aircraft with one of the best safety records today. This allows us to structure our programs around quality and consistency, giving us the ability to command a premium for the services we offer. Hence, this brings to us a higher quality of customer, which makes our operation more successful."*

Mark Clements, Northwest Aviation, Illinois



# DA20



## Specifications:

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

\*Dependent on configuration

## Optional equipment:

- Garmin GNC 420 GPS/COM (not available with GNS 530)
- Garmin AT SL40 VHF COM
- Garmin GNS 530 GPS/COM/NAV with glideslope receiver (exchange from GNS 430)
- Autopilot STEC30 with altitude hold (requires HSI or directional gyro with heading bug)
  - GPSS (requires Autopilot STEC30)
  - Horizontal Situation Indicator NSD 360A slaved (requires Autopilot STEC30)
  - Directional Gyro with heading bug (requires Autopilot STEC30)
- Garmin GTX 330 Mode S transponder with Traffic Information System (exchange from GTX 327)
- External power unit, receptacle
- Engine pre-heater system
- Premium interior with integrated folding head rests (tan leather)
- Baggage extension
- Wheel fairing on nose and main gear
- Premium Care maintenance program



## Standard equipment:

- Garmin GNS 430 GPS/COM/NAV with glideslope receiver
- Garmin GI 106A VOR/LOC/GPS/GS indicator
- Garmin GTX 327 transponder with blind altitude encoder
- Garmin GMA 340 audio panel/voice activated intercom and marker beacon receiver
- Integral instrument lighting
- Electroluminescent panel flood light
- Extended glare shield
- Engraved aluminum throttle quadrant cover plates
- Inertial reel harnesses
- Sheepskin seats
- Premium carpet
- Pop-out vent windows
- Rear windows
- Winter kit (cowling inlet and outlet blocks)

## Join the Diamond family.

Each member of our Diamond distribution network is a pilot committed to aviation. They're as excited about Diamond airplanes as we are, and they're eager to share their years of aviation experience with you. Locally owned and operated, Diamond distributors know your market and work with you as you research your first or next plane to buy. They don't look at aircraft ownership as one-size-fits-all. They take the time to listen to your goals and concerns, and determine the different missions you'll fly. Because they're able to offer a full line of planes, they can help you to select the best aircraft, or progression of aircraft, that's right for you, and help you trade up when the time comes. Most Diamond distributors also offer their own service facilities, and you can also find maintenance assistance from our network of independent Diamond Authorized Service Centers.

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