

# DA40 NG

Four seat comfort and safety with  
Jet-A efficiency and economy



## Airframe

The DA40 NG offers exceptional visibility thanks to its panoramic wrap around canopy and generous rear windows. Comfortable access for all on board is assured through the forward swinging canopy and large rear door that provides access to the folding rear seats and generous fuselage baggage area.

The sleek all composite airframe incorporates advanced aerodynamics with the latest in passive safety technology for high performance, great efficiency and superior occupant protection.

The rugged airframe is designed to resist the bumps and scrapes of a busy flightline and stands up well in any environment to keep looking great for many years to come.

## Propulsion

The turbocharged 170 hp Austro AE300 jet fuel piston engine powers the DA40 NG, with technology not available in any other aircraft in class. It starts easily under all conditions, hot and cold alike, uses less than 8.5 gph at maximum continuous power and only 5.5 gph in a typical flight training environment, while delivering excellent cruise performance and sprightly climbs, thanks to turbocharging that maintains full power to 14,000'. It is turbine smooth, quiet and the most fuel efficient way to fly. The single power lever and redundant digital engine control offer ultimate reliability and ease of

Reinforced landing gear attachments, tough springsteel main gear legs and a low maintenance nosegear strut forgive rough landings with ease.

High crosswind capability, centre stick with excellent control harmony and precise handling make the DA40 a joy to fly and a great training platform.

The DA40 NG comes standard with a choice of stylish and hard wearing interior materials. For luxurious comfort and style, available features include premium leather interiors in several designs and colours, adjustable pilot seatbacks and lumbar support, electrically adjustable rudder pedals, electric air conditioning, and much more.

operation. It is as simple as it gets and lets you focus on flying. The 3 blade MT hydraulic constant speed propeller features advanced blade geometry for efficient performance, low vibration and noise. It is automatically controlled by the engine's digital engine control through a conventional hydraulic governor.

Austro Engines and MT Propellers are supported by North American based factory support and parts centers and a network of Authorized Service Centers.



## Avionics

For well over 10 years, every DA40 has left the factory with Garmin's legendary G1000 flightdeck. The DA40 NG's fully integrated G1000 flight deck, incorporating the latest features including the ultra precise GFC700 Automatic Flight Control System, offers superior situational awareness, convenience

and safety. Available equipment provides Traffic Advisories, Synthetic Vision Technology, Satellite WX and Entertainment, and more. The conventional full size standby instruments are centrally located for optimum viewing from both student and instructor positions and to allow partial panel training.

# STANDARD FEATURES & OPTIONS

## Airframe & Powerplant

- 170hp Austro Engine AE300 Jet Fuel Piston Engine
- FADEC single lever power control
- MT 3-blade constant speed propeller
- All composite airframe structure
- Multi-path lightning protection system
- Fixed spring steel main landing gear struts
- Electric flap system
- 26g cabin and seats
- Leather interior
- 3-point automatic reel seat belts (all seats)
- Adjustable rudder pedals
- 28V power outlet
- LED overhead cabin lights
- Sun Glare Shields and Canopy Lining
- LED landing and taxi lights
- LED position and strobe lights

## Airframe Options

- Electric Air Conditioning, 90 lbs
- Adjustable pilot & co-pilot seats, 18 lbs
- Electrically adjustable rudder pedals, 4 lbs
- Premium leather interior, 5 lbs
- AmSafe Airbag Seatbelts, 5 lbs
- Double Bubble Canopy, 11 lbs

## Fuel & Capacity

Fuel Capacity: 41 USG

Fuel, Unusable: 2 USG

## Weights

Max Take-off Weight: 2,888 lbs

Max Zero Fuel Weight: 2,789 lbs

Max Landing Weight: 2,822 lbs

Standard Empty Weight<sup>1</sup>: 1,938 lbs

Useful Load<sup>1</sup>: 950 lbs

Max Fuel Weight<sup>1,2</sup>: 273 lbs

Full Fuel Payload<sup>1,2</sup>: 677 lbs

<sup>1</sup> Weights and Loads shown are for standard configuration. Selection of optional features may affect these weights. S/N specific Production variances can occur. <sup>1, 2</sup> Fuel density assumed at 7.01 lbs / USG

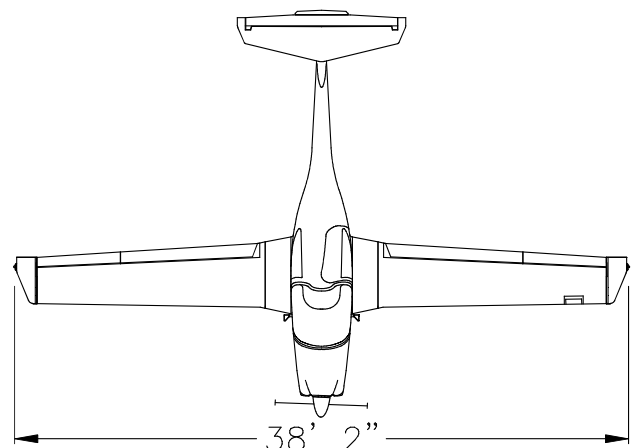
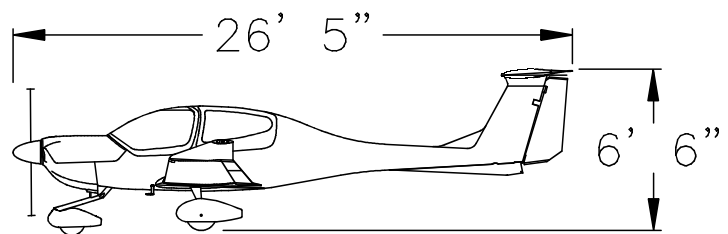
## Avionics

GARMIN G1000 glass cockpit with:

- 10-inch Primary Flight and Multifunction Displays
  - GEA 71 airframe/engine interface unit
  - Dual GIA 63WAAS COM/NAV/GPS/GS/LOC
  - GMA1347 digital audio system
  - GTX 335R Mode S Transponder (ADS-B Out)
  - GRS 79 AHRS
  - GDC 72 digital air data computer
  - GMU44 magnetometer
  - ELT 406 MHz
- Standby Instruments (Compass, Attitude Indicator, Air Speed Indicator (kts), Altitude Indicator (ft))

## Avionics Options

- WX 500 Stormscope, 7 lbs
- Garmin Synthetic Vision Technology (SVT), 0 lbs
- Garmin GDL69A SAT WX (sub req), 7 lbs
- Becker 3500 ADF, remote mounted, 9 lbs
- Honeywell KN63 DME, remote mounted, 7lbs
- Avidyne TAS 600 traffic advisory system, 15 lbs
- Jeppesen ChartView approach plates (sub req), 0 lbs
- Garmin GFC 700 Automatic Flight Control System, 24 lbs





# PERFORMANCE

## Speeds

V <sub>ne</sub>	172 KIAS
V <sub>r</sub>	67 KIAS
V <sub>f1</sub> (T/O)	110 KIAS
V <sub>f2</sub> (LDG)	98 KIAS
Max Demonstrated Cross Wind	25 kts

## Cruise Performance

High Speed Cruise: 154 ktas @ 92 % Power / 8.4 gph (16,000 ft, ISA)  
Economy Cruise: 126 ktas @ 60 % Power / 5.1 gph (16,000 ft, ISA)  
Max Endurance<sup>1</sup>: 9.75 hrs @ 45% Power / 4.0 gph (14,000 ft, ISA)  
Max Range<sup>1</sup>: 984 nm @ 45% Power / 4.0 gph (14,000 ft, ISA)

<sup>1</sup> No reserve.



## Runway Performance

**T/O Dist @ 2,425 lbs (grnd roll / over 50 ft obst)**

994 ft / 1499 ft

**T/O Dist @ MTOW (grnd roll / over 50 ft obst)**

1302 ft / 1936 ft

**LDG Dist @ 2,425 lbs (grnd roll / over 50 ft obst)**

886 ft / 2,008 ft

**LDG Dist @ MTOW (grnd roll / over 50 ft obst)**

1,043 ft / 2,133 ft

## Ceiling

Certified Ceiling, Normal Ops 16,400 ft

## Climb Performance

610 fpm @ 92% power<sup>1</sup>: 6,000' Density Altitude, ISA

743 fpm @ 100% power<sup>1</sup>: Sea Level, ISA

Note: <sup>1</sup> @ 2,645 lbs

## CONTACT US TODAY



Diamond Aircraft Industries Inc.

1560 Crumlin Sideroad, London, ON, Canada N5V 1S2

1-888-359-3220 • sales@diamondair.com • www.diamondaircraft.com