

Dart Industries Dragonfly



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Specifications

DRAGONFLY SPECIFICATIONS



Overall

- ▶ Span 22.0 ft
- ▶ Length 19.0 ft
- ▶ Height Level 5.5 ft
- ▶ Height Ground 3.5 ft

Fuselage

- ▶ Seats 2
- ▶ Frontal Area 9.5 sq. ft.
- ▶ Cockpit Width 43.0 in.
- ▶ Cockpit Height 31.0 in

Weights

- ▶ Gross 1150 lb.
- ▶ Payload 545 lb.
- ▶ Baggage Limit 20/70 lb.

Wing

- ▶ Span 22.0 ft.

Ailerons (each)

- ▶ Span 128.0 in.
- ▶ Area 6.3 sq. ft.
- ▶ Def-Up 18.0 deg.
- ▶ Def-Down 18.0 deg.
- ▶ Type Plain

Canard

- ▶ Span 22.0 ft.
- ▶ Stab Area 46.6 sq.ft.
- ▶ Elevator Area 8.8 sq. ft.
- ▶ Def-Up 10.0 deg.
- ▶ Def-Down 22.0 deg.
- ▶ Incidence 0.0 deg.

Tail (vertical)

- ▶ Span at Rudder: 3.0 ft.
- ▶ Stab. Area 4.2 sq. ft.
- ▶ Rudder Area 2.0 sq. ft.
- ▶ Deflection 32.0 deg.



- ▶ Area 45.6 sq. ft.
- ▶ Aspect Ratio 10.6
- ▶ Chord-Root 30.0 in.
- ▶ Chord-Tip 20.0 in.
- ▶ CG Fwd. 58.7 in
- ▶ CG Aft 63.5 in.

Real World Performance Figures from owners of Dragonfly Aircraft.

For N189SM

- ▶ Continental A80 engine with LSE CDI ignition and a 3 blade prop
- ▶ Empty Weight 815 lbs
- ▶ Gross weight 1215 lbs
- ▶ Useful Load Pilot, Wife and 21 gallons of fuel
- ▶ Cruise Speed 125 to 145 knots
- ▶ Stall Speed 58 knots (Stall Buck)
- ▶ Top Speed 160 knots (Balanced Elevators)
- ▶ Range 3 hours with 1 hour reserve
- ▶ Climb performance 600 ft per min at gross

For C-FLYV

- ▶ Subaru E81 engine, turbocharged direct drive
- ▶ Empty Weight 730 lbs
- ▶ Gross weight 1150 lbs
- ▶ Useful Load Pilot, Wife and 21 gallons of fuel
- ▶ Cruise Speed 140 mph (160 to 180 with additional boost)
- ▶ Stall Speed 58 knots (Stall Buck)
- ▶ Top Speed in excess of 200 mph
- ▶ Range 3 hours with 1 hour reserve (500 miles)
- ▶ Climb performance 600 ft per min at gross

Power plant

- ▶ Make VW (mod)
- ▶ HP 60
- ▶ Max RPM 3200
- ▶ Max Torque 98.5 lb-ft.
- ▶ Fuel Quality 100 LL

Performance

- ▶ V/cruise 75% Power 165 m.p
- ▶ V/a 120 m.p.h.
- ▶ V/stall 48 m.p.h.
- ▶ Rate of Climb 850 f.p.m.
- ▶ Service Ceiling 18500 ft.
- ▶ Takeoff, 50 ft. obstacle 1200
- ▶ Landing, 50 ft. obstacle 2000
- ▶ Range, 75% power 500 mi.
- ▶ Fuel Capacity 15.0 gal.
- ▶ Wing Loading 11.4 lb./sq. ft.
- ▶ Power Loading 19.2 lb/hp
- ▶ G load + 4.4
- ▶ G load - 2.0

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