

## Bell 430

Canada/USA

The Bell 430 is a twin-engined light-medium helicopter built by Bell. It is an elongated and higher powered version of the Bell 230.

### **Specifications**

#### ***Powerplant***

2x Rolls-Royce 250-C40B at 783hp each

#### ***Performance***

Max speed 161km/h (140kt)

Service ceiling 14,600ft

Range 600km (324nm)

#### ***Weights***

Empty 2,406kg (5,305lb)

Max takeoff 4,218kg (9,300lb)

#### ***Dimensions***

Rotor Diameter 12.8m (42ft)

Length 15.32m (50ft 3in)

Height 3.73m (12ft 3in).

#### ***Seating Capacity***

Has standard seating for 6-8 plus 2 pilots

#### ***Production***

Production started in 1996 and is still going.



## Boeing C-17 Globemaster

USA

The Boeing C-17 Globemaster III is a large military transport aircraft.

The Globemaster was developed for the United States Air Force between the 80s and 90s by McDonnell Douglas.

### Specifications

#### ***Powerplant***

4x Pratt & Whitney F117-PW-100  
turbofans, 180 kN each

#### ***Performance***

**Cruise speed:** Mach 0.76 (450 knots,  
830 km/h)



#### ***Weights***

**Empty weight:** 128,100 kg

**Max takeoff weight:** 265,350 kg

#### ***Dimensions***

**Length:** 53 m

**Wingspan:** 51.75 m

**Height:** 16.8 m

**Wing area:** 353 m<sup>2</sup>

## Cessna 180

USA

### Specifications

#### ***Powerplant***

One 170kW (225hp) Continental O-470-A flat six piston engine driving a two blade constant speed McCauley prop.

#### ***Performance***

Max speed 267km/h (144kt), cruising speed 260km/h (140kt). Initial rate of climb 1150ft/min. Service ceiling 20,000ft. Range 1247km (673nm).

#### ***Weights***

Empty 690kg (1520lb), max takeoff 1158kg (2550lb).

#### ***Dimensions***

Wing span 10.98m (36ft 0in), length 7.98m (26ft 2in), height 2.29m (7ft 6in). Wing area 16.2m<sup>2</sup> (174sq ft).

#### ***Seating Capacity***

Has standard seating for four, 180 Skywagon has seating for six.

#### ***Production***

There was a total of 6210 180s produced.



## Cessna 185

USA

### Specifications

#### ***Powerplant***

One 225kW (300hp) fuel injected IO-520-D driving a three blade constant speed prop.

#### ***Performance***

Max speed 283km/h (153kt), max cruising speed 272km/h (147kt), long range cruising speed 207km/h (111kt). Service ceiling 17,900ft. Range with reserves 1575km (850nm).

#### ***Weights***

Empty 783kg (1727lb), max takeoff 1520kg (3350lb).

#### ***Dimensions***

Wing span 10.92m (35ft 10in),

Length 7.81m (25ft 8in).

Wing area 16.2m<sup>2</sup>.

#### ***Seating Capacity***

Has Seating for Six.

#### ***Production***

Total 185 production 4339 aircraft including 265 U-17A and 215 U-17B military variants and 109 AgCarrivals.



## DeHavilland DHC-2/A1 Turbine Beaver

Canada

### Specifications

#### ***Powerplant***

One 535kW (715shp) Garrett TPE331-2-201A turboprop driving a three blade variable pitch Hartzell propeller.

#### ***Performance***

Maximum speed: 158 mph (255 km/h)

Cruise speed: 143 mph (230 km/h)

Range: 455 miles (732 km)

Service ceiling: 18,000 ft (4,586 m)

#### ***Weights***

Empty weight: 3,000 lb (1,361 kg)

Gross weight: 5,100 lb (2,313 kg)

#### ***Dimensions***

Length: 30 ft 3 in (9.22 m)

Wingspan: 48 ft 0 in (14.63 m)

Height: 9 ft 0 in (2.74 m)

Wing area: 250 ft<sup>2</sup> (23.2 m<sup>2</sup>)

#### ***Seating Capacity***

6 passengers

#### ***Production***

1,657 DHC-2 Beavers have been built



## Lockheed L-1049 (C-121C) Super Constellation

USA

### Specifications

#### **Powerplant**

4× Wright R-3350-DA3 Turbo Compound  
18-cylinder supercharged radial engines,  
3,250 hp (2,424 kW) each

#### **Performance**

Maximum speed: 607 km/h

Cruise speed: 547 km/h at 22,600 ft

Stall speed: 160 km/h

Range: 8,700 km

#### **Weights**

Empty weight: 36,150 kg

Max takeoff weight: 62,370kg

#### **Dimensions**

Length: 35.42 m

Wingspan: 38.47 m

Height: 7.54 m

Wing area: 153.7 m<sup>2</sup>

#### **Seating Capacity**

usually 62-95 passengers

#### **Production**

856 aircraft were produced



## Pilatus PC9

Switzerland

### Specifications

#### *Powerplant*

1 Pratt & Whitney Canada PT6A-62  
turboprop, 857 kW (1,149 hp)

#### *Performance*

**Maximum speed:** 593 km/h (320 kn)

**Cruising speed:** 552 km/h (298 kn) KTAS at  
10,000 ft

**Velocity Never Exceed :** 593 km/h (  
320 kn)

**Range:** 1,593 km (860 nm)

**Service ceiling:** 11,580 m (37,992 ft)

#### *Weights*

Empty weight: 1,725 kg

Gross weight: 2,250 kg

Max takeoff weight: 3,200 kg



## Shorts SC7 Skyvan

Ireland

### Specifications

#### **Powerplant**

Two 535kW (715shp) Garrett TPE331-2-201A turboprops driving three blade variable pitch Hartzell propellers.

#### **Performance**

Max cruising speed 324km/h (175kt), normal cruising speed 311km/h (168kt), Initial rate of climb 1640ft/min. Service ceiling 22,500ft.

#### **Weights**

Basic operating 3331kg (7344lb)

#### **Dimensions**

Wing span 19.79m (64ft 11in),

Length 12.21m (40ft 1in),

Height 4.60m (15ft 1in).

Wing area 35.1m<sup>2</sup> (378sq ft).

#### **Seating Capacity**

Flightcrew of one or two. Seating for up to 19 passengers at three abreast, or nine passengers in executive configuration.

#### **Production**

153 Skyvans and Skyliners built between the mid 1960s and 1987, almost all of which were Series 3s (including almost 60 military Series 3Ms).





## Yakovlev Yak 18T (Як-18Т)

Soviet Union

The Yakovlev Yak-18T is a four-place, fully aerobatic aircraft which was introduced in the late 80s to train Aeroflot pilots. The Yak 18T was one of few four place light aircraft to be built in the Soviet Union during the Cold War years.

### **Specifications**

#### ***Powerplant***

One 265kW (355hp) Vedneyev/VOKBM M-14P nine cylinder radial piston engine driving a two blade variable pitch metal propeller.

#### ***Performance***

Max speed 295km/h (159kt), economical cruising speed 210km/h (113kt). Service ceiling 18,120ft. Range 580km (313nm).

#### ***Weights***

Empty 1217kg (2683lb), max takeoff 1650kg (3637lb).

#### ***Dimensions***

Wing span 11.16m (36ft 11in), length 8.39m (27ft 7in), height 3.4m (11ft 2in). Wing area 18.8m<sup>2</sup> (202.4sq ft).

#### ***Seating Capacity***

Has standard seating for 4

#### ***Production***

There was an estimated total of 200 produced between 1967 & 1989, production resumed by the Smolensk Aircraft Factory in 1993.



## Yakovlev Yak 52 (Як-52)

Soviet Union

The Yak-52 is a Soviet trainer aircraft which first flew in 1976.

34 Years later it is still being produced now in Romania by Aerostar, which obtained manufacturing rights. The Yak-52 was originally designed as an aerobatic trainer.

Since the early 1990s many Yak 52s have been exported to the west.

There were approximately 1,800 produced, most now fly in the United States, United Kingdom, New Zealand and Australia.

### **Specifications**

#### ***Powerplant***

1× Vedeneyev M-14P 9-cylinder radial engine, 268 kW (360 hp)

#### ***Performance***

Max speed 285km/h (154kt), cruising speed 190km/h (103kt). Service ceiling 13,125ft. Range 550km (296nm).

#### ***Weights***

Empty 1,015kg (2,238lb), max takeoff 1,305kg (2,877lb).

#### ***Dimensions***

Wing span 9.3m (30ft 6.25in), length 7.745m (25ft 5in), height 2.7m (8ft 10.25in). Wing area 15m<sup>2</sup> (161.5sq ft).

#### ***Seating Capacity***

Has seating for 2

#### ***Production***

There was an estimated total of 1,800 produced.

