

# Tecnam P2002JF Trainer, Italy

*Airforce-technology*



Tecnam P2002JF is a twin-seat trainer aircraft developed by Costruzioni Aeronautiche Tecnam for basic pilot training needs. The aircraft can also be used for surveillance and personal transportation missions.

Tecnam received an order from Aerotec Argentina to deliver eight Tecnam P2002JF single-seat trainers to the Military Aviation Academy of the Argentine Air Force, in September 2016. The aircraft will be equipped with a glass cockpit and night visual flight rules (NVFR) instrumentation.

The P2002JF aircraft is certified according to the rules of Argentina Civil Aviation Authority (ANAC) and the EASA CS-VLA (Certification Specification for Very Light Aircraft).

## **P2002JF design and features**

The P2002JF features a low-wing monoplane design integrating tapered laminar airfoil and slotted flaps. Easy operation and maintenance make the aircraft an ideal platform for training missions.

The fuselage is installed with a fixed tricycle landing gear including a steerable nose wheel and dual conventional rudder pedals.

The P2002JF has a length of 6.65m, height of 2.43m, a wingspan of 8.6m, and maximum take-off weight (MTOW) of 620kg. It can carry a useful load of 250kg, while the luggage area behind the seats can hold 20kg of baggage.

The aircraft is also equipped with a range of equipment including toe brakes, central quadrant with single throttle level, fuselage cover, battery gill G25, auxiliary alternator, tie-down rings, and windshield defroster.

### **Cockpit and avionics**

The cockpit / cabin of the aircraft can accommodate a pilot and a co-pilot in a side-by-side seating arrangement. The adjustable seats are equipped with seat belts and shoulder harness systems. The cockpit offers high forward visibility over the cowling. It integrates dual control sticks with an electric stabiliser trim and a curve at the base.

Measuring 1.11m-wide and 0.91m-high, the cabin features wall-to-wall carpeting, Map E storage pockets, fire extinguisher, soundproofing, first aid kit, fresh air vents, heating system, and an emergency hammer.

The Tecnam is equipped with a wide, conventional-type instrument panel integrating a standard Garmin avionics package. The avionics suite includes a GMA 340 audio panel, GNC 255A navigation and communications system, transponder, magnetic compass, airspeed indicator, altimeter, heading and attitude indicators, flaps indicator, and engine instruments.

The aircraft can be optionally equipped with a range of avionics packages, including the 1003 VFR night version, G500 glass cockpit, and G500 glass cockpit with VFR night instrumentation.

### **Tecnam P20002JF engine**

The Tecnam P20002JF is powered by a ROTAX 912 S2 four-stroke engine driving a two-bladed fixed-pitch propeller.

The engine has a rated power output of 98hp (73kW) and burns AVGas or unleaded automotive fuel with up to 10% ethanol content.

The fuel is stored in two fuel tanks integrated within the leading edge of wings. Each tank offers a fuel storage capacity of 50l. The aircraft consumes 17l of fuel an hour.

### **P2002JF performance**

The P2002JF has a cruise speed of 218km/h and can attain a maximum speed of 230km/h, while the stall speed is 72km/h when flaps are down.

The aircraft can reach a maximum altitude of 15,000ft at a rate of climb of 4.6m/sec and has a maximum range of 589nmi. It requires a take-off run of 140m and take-off distance of 310m. The landing run and distance required for the aircraft are 140m and 326m respectively.