



## Embraer EMB 312F Tucano



### Description

The Embraer EMB 312 Tucano is a low-wing, tandem-seat, single-turboprop, basic trainer with counter-insurgency capability developed in Brazil. High maneuverability, stability at low speeds, and four underwing pylons providing for up to 1,000 kg (2,200 lb.) of ordnance, allow the training aircraft to engage in tactical bombing campaigns in low-intensity conflict or counterinsurgency environments and in counter narcotics interceptions.

### Fleet

TacAir leases and operates one EMB 312F (A-27) aircraft. The A-27 is a proven multi-role aircraft with the flexibility to support basic jet training through advanced Commercial Close Air Support and Joint Terminal Attack Controller training.

### Features

An upgraded version built for the French Air Force, the EMB-312F is equipped with Telecommunications Electronique Aeronautique et Maritime (TEAM SA, part of Cobham) avionics, Thomson-CSF navigation aids, increased fatigue life, propeller and canopy de-icing system and a ventral speed brake. It has tandem seats designed with a raised rear seat optimized for an uninterrupted view from the rear cockpit and a frameless bubble canopy for unobstructed visibility. Major aircraft features include an automatic torque control system and the jet-like, single-lever throttle which combined both engine power and propeller pitch, assuring smooth and rapid acceleration and deceleration.

### General Characteristics



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**Contractor:** Embraer

### General characteristics

- Crew: 2
- Length: 9.86 m (32 ft 4 in)
- Wingspan: 11.14 m (36 ft 6 in)
- Height: 3.4 m (11 ft 2 in)
- Wing area: 19.4 m<sup>2</sup> (209 sq ft)
- Empty weight: 1,810 kg (3,991 lb)
- Max. takeoff weight: 3,175 kg (7,000 lb)
- Internal fuel: 694 liters (183 US gal) (152.7IMPgal)
- Powerplant: 1 × Pratt & Whitney Canada PT6 A-25C turboprop, 552 kW (750 hp)

### Performance

- Never exceed speed: 539 km/h (291 kts, 335 mph)
- Maximum speed: 458 km/h (247 kt, 285 mph) at 4,115 meters (13,501 ft)
- Range: 1,916 km (1,034 NM, 1,190 sm) on internal fuel
- G limits: +6/-3
- Endurance: 9hrs
- Service ceiling: 8,750 m (28,700 ft)

### Armament

- Guns:
  - Gun pods:
    - AN/M-B machine gun
    - 12,7 mm machine gun
    - 7,62 mm machine gun (500 rounds)
    - Rocket Machine Gun pod: RMP LC with a 12.7mm M3P and (4x) 70 mm
- Hardpoints: 4 under-wing pylons with a capacity of 1,000 kg (2,200 lb)
- Rockets:
  - 127 mm HVAR ground rockets
    - Rocket pods: SBAT (7x) 37 mm, SBAT (7x) 70 mm
- Bombs:
  - General-purpose bombs:
    - Mk 81
    - Mk 82
  - Practice bomb:
    - MK 76 (20 lb)
- Others:
  - Ferry tanks: 2x 660 liters (170 US gal)<sup>l</sup> or 330 liters (87 US gal)

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