



Key feature:

Tucano T1 is Turboprop trainer aircraft primarily used to develop students in a full range of skills, including general aircraft handling, formation flying and low-level navigation.

The Tucano T1 is a modified version of the Brazilian Embraer EMB-312 Tucano aircraft, it was built under licence by Shorts of Belfast (subsequently Bombardier Aerospace). The Tucano has been operated primarily from No 1 Flying Training School, at RAF Linton-on-Ouse, to provide basic fast jet flying training to RAF and RN student pilots, and basic WSO training to all potential RAF WSOs. Student pilots used to fly around 130 hrs during their training course on the Tucano before progressing to the Hawk T1 aircraft.

Dimension	Metres
Length	9.86m
Wingspan	11.28m
Height	3.40m
Wing Area	19.33m ²
Max Take-off Weight	3275kg
Max Altitude	30,000ft



The aircraft is powered by an 1150shp Garrett Turboprop engine, has a maximum speed of 300kts (345mph) and can maintain 270kts (310mph) at low level. It can operate at up to 30,000 feet and has an initial climb rate of

4000 feet per minute. The turboprop Tucano was chosen to replace the RAF's Jet Provosts because of its greater fuel efficiency and lower operating costs. Its two-seat tandem cockpit make it an ideal lead-in to the Hawk, which is flown at the next stage of training.

DEFENCE EQUIPMENT SALES AUTHORITY

Power plant	Garrett TPE331-12B Turboprop
Propellers	4 Bladed Hartzell Constant Speed
Crew	2
Empty Weight	2017kg
Max Speed	507km/h
Cruise Speed	407 km/h
Rate of climb	17.8m/s
Range	1665km
Take off run to 15m (50ft)	524m
Landing run to 15m (50ft)	573m



The aircraft handling is similar to that of a jet aircraft and it is fully aerobatic, thus providing an excellent workhorse for training fast-jet pilots in all aspects of military flying. It has been used to develop students in a full range of skills, including general aircraft handling, formation flying and low-level navigation and, due to its comprehensive avionics and ice-protection packages, it can be flown in all types of weather, by day and by night. The Tucano's all-weather flying capability, plus its excellent endurance, allows a great measure of flexibility in the training role.



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