



T-6C TEXAN II

**THE WORLD'S MOST PROVEN MILITARY TRAINER**

**Beechcraft**  
DEFENSE






## GO DIRECT FROM PILOT-IN-TRAINING TO PILOT-IN-COMMAND

The Beechcraft® T-6C is a next-generation military trainer designed for all levels of instruction – from ab initio to advanced operational training. The T-6C was purpose-built for a wide range of training capabilities, long-term reliability and cost-

effective operation. These attributes – along with a total training solution of simulators, computer-based academics and sustainable logistics – make the T-6C the ideal training solution for any air force in the world.



The U.S. Navy and U.S. Air Force do not endorse Beechcraft or any defense contractors.





T-34

## THE LEGACY OF THE T-6 AND THE CAPABILITY OF THE 21ST CENTURY

Beechcraft delivered its first military aircraft in 1936. We've been engineering and manufacturing for militaries around the world ever since – especially training aircraft. In 1950, we developed the T-34 series that incorporated all of the controls and characteristics of heavier, more advanced combat aircraft, but with minimal operating and maintenance costs. That philosophy carried over to the T-6 series, which we began delivering in 2000 after being awarded the Joint Primary Aircraft Training

System (JPATS) program for the U.S. Air Force and the U.S. Navy. Since then, additional military programs worldwide, including NATO Flying Training in Canada, the Hellenic Air Force of Greece, the Mexican Navy, the Israeli Air Force, the Iraqi Air Force, the Royal Moroccan Air Force, Royal New Zealand Air Force, UK Royal Air Force and the Mexican Air Force, have chosen the T-6 and its derivatives as their primary trainers. In total, student pilots from over 42 countries have trained in the T-6.







## CAPABLE

To replicate the experience of flying modern, agile aircraft, the T-6C includes an advanced Esterline CMC all-glass cockpit, a SparrowHawk HUD and a Pratt & Whitney PT6A-68 turboprop engine. It has a trim aid device and power management unit that reduce student workload caused by propeller torque and airspeed changes. Couple those advances with its hands-on throttle and stick (HOTAS) flight controls, and the result is an aircraft that feels and flies like a jet.

An enhanced version of our T-6C trainer, the T-6C+ adds an FN Herstal stores management system to train pilots to employ gravity-dropped bombs, 2.75-inch rockets and .50-caliber machine guns. The aircraft also includes advanced avionics representative of current and future combat/ combat-support aircraft.

## PROVEN

The T-6 is the most proven flight trainer in the history of military flight. More than 900 T-6 aircraft are in the field around the globe with more than 3 million accumulated fleet flight hours. Every pilot in the U.S. Air Force, U.S. Navy, U.S. Marine Corps and U.S. Coast Guard trains in a Beechcraft aircraft.

The T-6C is fully FAA-certified. It's also U.S. military-qualified with an onboard oxygen-generating system, ejection-seat survival kit, HUD, UFCP and embedded synthetic training. The flight load on the complete structure of the T-6C has been tested to 56,160 hours. That's three times the USAF-required 18,720 design-life hours. There are currently no depot-level time-between-overhaul (TBO) requirements on the T-6C airframe.

## AFFORDABLE

With an affordable price and a low operating cost, the T-6C is the ideal flight training solution for air forces around the world. Its advanced aerobatic ability encourages simulated combat training tasks that were previously only accomplished in far more expensive jet aircraft. The T-6C is capable of a rate of effort of 850 hours per year with a minimal amount of ground-support equipment to maintain the aircraft.







## STEP INTO THE FUTURE OF COCKPIT DESIGN

### Advanced Glass Cockpit

The state-of-the-art, all-digital, open-architecture glass cockpit features three interchangeable color 5-by-7-inch active-matrix liquid-crystal multifunction displays (MFDs) driven by two integrated avionics computers. These displays prepare students for complex, tailored missions that impart valuable weapons training and information management skills necessary for the next-generation pilot.

### Integrated Avionics

The primary flight display (PFD), navigation (NAV), engine-indicating and crew-alerting system – as well as advanced mission functions such as a tactical situation display and MIL-STD 1787 head-

up display (HUD) with F-16 or F/A-18 selectable display capabilities – are all provided by the T-6C's integrated avionics. Embedded synthetic air-to-ground and air-to-air training capability prepares students for a number of complex combat scenarios. The backup flight instrument is an all-in-one device combining all essential flight cues in one easy-to-read active-matrix liquid-crystal display.

### Environmental Control System (ECS)

The T-6C's automatic ECS maintains a comfortable cockpit temperature while in flight, although manual temperature control remains possible. The ECS also keeps the cabin pressurized and uses an Anti-G system to maintain pilot effectiveness.







## THE WORLD'S BEST PLATFORM HAS THE WORLD'S BEST SUPPORT

High-performing. Reliable. Tailored to your operational needs. Shouldn't the same characteristics that define your Beechcraft fleet also define the support that keeps it operating? The Beechcraft Defense Company is the only trusted partner that offers unprecedented insight from millions of flight hours flown by the largest T-6 fleet in the world. We incorporate real-world intelligence from thousands

of operating aircraft – along with practical skills from a global network of tip-to-tail support – to ensure a sustainment program ideal for your fleet, regardless of its size. With our OEM connection, we support you with a knowledge base like no other. The Beechcraft Defense Company is redefining the customer experience and is primed to take your fleet to an entirely new level of support.







# TOTAL TRAINING SYSTEM

The training system built for and validated by the U.S. Air Force and U.S. Navy is the largest and most successful flying training system in the world. It utilizes proven, customizable pilot training courseware, media-integrated lectures, and computer based training and training management systems for the most effective transition to fourth- and fifth-generation aircraft.







For air crew training, the T-6 GBTS includes:

Operational Flight Trainer (OFT)

Exactly replicates cockpit layout and aircraft performance with domed 270° x 70° field-of-view system and a single-axis dynamic seat that provides tactile simulation of in-flight movements and sensations.

Instrument Flight Training Device

Same cockpit layout, dynamic seat and performance as the OFT with direct-view 45° x 33° field-of-view forward visual display.

Unit Training Device

Same cockpit layout and performance as the OFT for cockpit procedures training, normal ground and flight training procedures and basic instruments and emergency procedures training, but without the dynamic seat.

Desktop Avionics Trainer

Large touch-screen computer hosting the Esterline/C avionics. Displays the three MFDs and up-front control panel, allowing the student to touch the same buttons and receive the same result as in the aircraft.

Egress Procedures Trainer

Replica forward cockpit, ejection seat and canopy. Includes pilot restraint, oxygen and G-suit hookups for practice of entry, egress and emergency egress procedures.

Ejection Seat Trainer

Realistic replica of Martin-Baker MKUS16LA ejection seat. Instructs pilots in correct hookup and removal of restraint and life-support systems without use of more expensive assets. Easily moved to classroom or simulator facility.

T-6C SPECIFICATIONS

AIRCRAFT CHARACTERISTICS

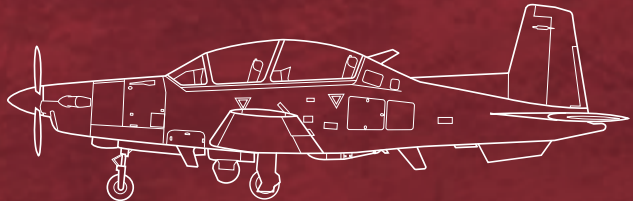
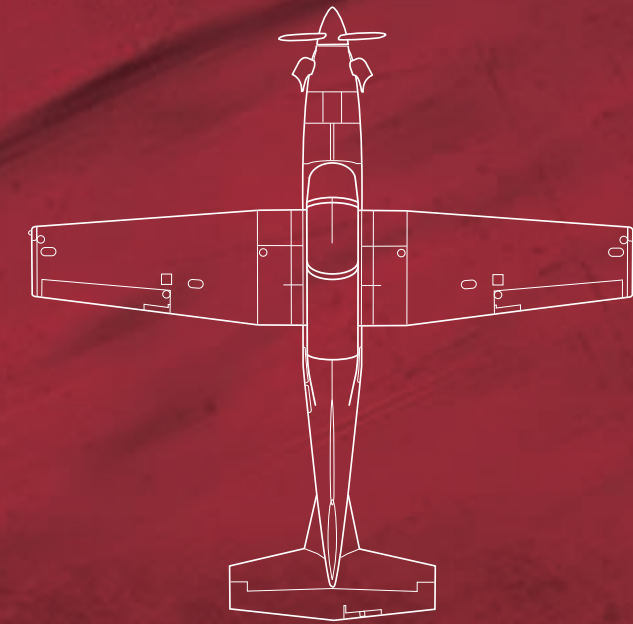
Length	33 ft 4 in	10.16 m
Height	10 ft 8 in	3.25 m
Wingspan	33 ft 5 in	10.2 m
Wing Area	175.3 ft²	16.28 m²
Engine (PT6A-68)	1,100 shp	1,100 shp
Type	Turboprop	Turboprop
Max. Takeoff Weight (MGTOW)	8,300 lb	3,130 kg
Max. Landing Weight	8,300 lb	3,130 kg
Basic Weight	5,150 lb	2,336 kg
Total Internal Fuel	1,200 lb	544 kg
Total Fuel (with Two External Tanks)	2,054 lb	932 kg
NATO Standard Hardpoints	6	6

AIRCRAFT PERFORMANCE

Basic Limits with and without Stores	.67 Mach	316 KIAS
Max. G	+7.0/-3.5	+7.0/-3.5
Service Ceiling	31,000 ft	9,448 m
Max. Ferry Range (without External Fuel Tanks)	900 nm	1,667 km
Max. Ferry Range (with Two External Fuel Tanks)	1,400 nm	2,593 km

AVIONICS CAPABILITIES

GPS Navigation	Yes	Yes
Flight Management System	Yes	Yes
Mission Planning and Debrief System	Yes	Yes
Embedded Tactical Training	Yes	Yes
Advanced Fighter Cockpit Emulation	Yes	Yes
Computed Weapons Delivery Training	Yes	Yes
Moving Maps	Yes	Yes
Precision GPS Approach	Yes	Yes
Anti-skid Brakes	Yes	Yes
Autopilot	Yes	Yes
Night Vision Compatibility	Yes	Yes
ISR Pod	Optional	Optional
Precision GPS Approach (WAAS LPV)	Optional	Optional
Digital Terrain Elevation Data	Optional	Optional



Inquire about the Beechcraft T-6C:

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