

**SOURCE OF
POWER**



TURBOFAN

TEI-TF6000



FIRST INDIGENOUS AIRCRAFT ENGINE OF TÜRKİYE

TECHNICAL SPECIFICATIONS

› Thrust	: 6,000 lbf (SLS, ISA)
› Dimensions WxHxL	: 860 mm x 1,150 mm x 2,250 mm
› Bypass Ratio	: 1.08 (SLS, ISA)
› Fan	: 2 stage axial
› Compressor	: 6 stage axial
› Turbine	: 1 stage HPT - 1 stage LPT
› Combustor	: Through flow

TURBOFAN

TEI-TF10000



TURBOFAN ENGINE

TECHNICAL SPECIFICATIONS

› Thrust	: 6,000 lbf (SLS, ISA)
› Thrust with Afterburner	: 10,000 lbf (SLS, ISA)
› Dimensions WxHxL	: 860 mm x 1,150 mm x 3,150 mm
› Bypass Ratio	: 1.08 (SLS, ISA)
› Fan	: 2 stage axial
› Compressor	: 6 stage axial
› Turbine	: 1 stage HPT - 1 stage LPT
› Combustor	: Through flow
› Variable Stator Vane	
› Turbine Cooling Technology	

TURBOSHAFT

TEI-TS1400



T625 GÖKBAY

FIRST INDIGENOUS HELICOPTER ENGINE OF TÜRKİYE

TECHNICAL SPECIFICATIONS

› Power	: 1,400 SHP (SLS, ISA)
› 30 sec OEI Power	: 1,660 SHP (SLS, ISA)
› Take-Off Power/Weight	: 8.54 (SHP)/(kg)
› Service Ceiling	: 20,000 ft
› Output Shaft Speed	: 23,000 RPM
› Engine Control	: FADEC

IN THE SKIES IN
RECORD TIME
OF 6 YEARS!

19 APRIL 2023
THE FIRST MANNED FLIGHT

PISTON

TEI-PD170



ANKA



BAYRAKTAR TB3



AKSUNGUR

FIRST INDIGENOUS TURBODIESEL AVIATION ENGINE OF TÜRKİYE

TECHNICAL SPECIFICATIONS

- › Displacement : 2.1 L
- › Maximum Take-Off Power : 172 HP (±2)
- › Maximum Continuous Power : 172 HP (±2)
- › Altitude Power (@20,000 ft) : 170 HP
- › Dry Weight : 162 kg
- › Fuel Options : JP-8, JET-A1, JP-5, and EN 590
- › Aircraft Configuration : Pusher/tractor compatible
- › Electrical Power Generation : 9 kW (2 x 4.5 kW)

45-HOUR FLIGHT RECORD
WITH AKSUNGUR!

42,000+ FT ALTITUDE RECORD
WITH AKSUNGUR!

PISTON

TEI-PD200



BAYRAKTAR TB3

TURBODIESEL AVIATION ENGINE

TECHNICAL SPECIFICATIONS

- › Displacement : 2.1 L
- › Maximum Take-Off Power : 197 HP (±2)
- › Maximum Continuous Power : 172 HP (±2)
- › Altitude Power (@20,000 ft) : 170 HP
- › Fuel Options : JP-8, JET-A1, JP-5, and EN 590
- › Dry Weight : 162 kg
- › Electrical Power Generation : 9 kW (2 x 4.5 kW)

FIRST-EVER TAKE-OFF AND LANDING FROM
DRONE CARRYING AMPHIBIOUS ASSAULT SHIP
WITH BAYRAKTAR TB3
19 NOVEMBER 2024

PISTON

TEI-PD222



TURBODIESEL AVIATION ENGINE

TECHNICAL SPECIFICATIONS

- › Displacement : 2.1 L
- › Maximum Take-Off Power : 222 HP (±2)
- › Maximum Continuous Power : 200 HP (±2)
- › Altitude Power (@20,000 ft) : 200 HP
- › Fuel Options : JP-8, JET-A1, JP-5, and EN 590
- › Dry Weight : 167 kg
- › Electrical Power Generation : 9 kW (2 x 4.5 kW)

PISTON

TEI-PG50



FIRST 2-STROKE GASOLINE AVIATION ENGINE OF TÜRKİYE

TECHNICAL SPECIFICATIONS

- › Displacement : 0,5 L
- › Engine Configuration : 2 cylinder boxer engine
- › Air Induction : Natural aspiration
- › Maximum Power (@ 6,500 RPM) : 50 HP (±2)
- › Fuel : AVGAS 100 LL
- › Fuel Consumption : Cruise SFC < 400 g/kWh
- › Maximum Altitude : 30,000 ft
- › Dry Weight (Except Accessories) : 19 kg (±1)
- › Electrical Power Generation : 1,100 W continuous electrical power

MASS PRODUCTION
2020

MAIDEN FLIGHT
30 MAY 2019

TURBOJET

TEI-TJ90



MINI TURBOJET ENGINE

TECHNICAL SPECIFICATIONS

- › Maximum Thrust : 400 N
- › Diameter : 154 mm
- › Maximum Altitude : ≤ 28,000 ft
- › Maximum Start Altitude : ≤ 16,500 ft
- › Maximum Shaft Speed : 96,000 RPM
- › Fuel Options : JP8, JP10, Jet A1, SAF, Diesel with 5% Turbine Oil
- › Fuel Consumption : 0.14 kg/Nh
- › Weight (Except Accessories) : 4.2 kg
- › Engine Control : FADEC

TURBOJET

TEI-TJ65



MINI TURBOJET ENGINE

TECHNICAL SPECIFICATIONS

- › Maximum Thrust : 260 N
- › Diameter : 130 mm
- › Maximum Altitude : ≤ 27,000 ft
- › Maximum Start Altitude : ≤ 15,000 ft
- › Maximum Shaft Speed : 117,000 RPM
- › Fuel Options : JP8, JP10, Jet A1, SAF, Diesel with 5% Turbine Oil
- › Weight (Except Accessories) : 2.5 kg
- › Engine Control : FADEC

PARTS AND MODULE MANUFACTURING

PARTS AND MODULE MANUFACTURING FOR ENGINE PROGRAMS

COMMERCIAL AVIATION ENGINES

LEAP

Airbus A320neo
Comac C919
Boeing 737 MAX



GE90

Boeing 787
Boeing 747-8



CFM56

Airbus A320
Boeing 737



GE90

Boeing 777-200
Boeing 777-300



MILITARY ENGINES

F110

Boeing F-15
Lockheed Martin F-16
Northrop Grumman F-14



T700

Sikorsky S-70i Firehawk
Sikorsky UH-60L/M Black Hawk
Sikorsky MH-60R/S Sea Hawk



With more than 2,000 different parts and modules manufactured for over 50 engine programs, TEI leaves its mark on one of every 2 aircrafts in the sky.

ENGINE ASSEMBLY, INSPECTION, AND TESTING (AIT) & MAINTENANCE, REPAIR, AND OVERHAUL (MRO)

F110

International Maintenance and Repair Services



T700

International MRO Service Provider



LM2500

International MRO Service Provider



TF33

NATO AWACS Engines' Maintenance



CTS800

International MRO Service Provider



MAKILA 1A1

Logistics Support for Eurocopter AS532
Cougar Engines



ENGINE TEST CELLS

- Turbofan Test Cells (stationary/mobile)
- Turboshift Test Cells
- Turbojet Test Cells
- Piston Engine Test Cells (with dynamometer/propeller)

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