

KT-1 BASIC TRAINER



- Overview : To replace ROKAF's T-37
- Development Period : '88 ~ '98
- Production Period : '99 ~ '04
- Number of Aircraft : 85
- Development Scheme : R&D led by the Korean Govt
- Feature : High performance and cost efficient trainer

KT-1

Cockpit

- Integrated and analogue and digital instruments

Flight Control System

- Conventional Mechanical Flight Controls
- Automatic Rudder Trim System
- Gaseous Oxygen System, Air Cycle ECS
- Two Independent Hydraulic System- 3000 psi
- Selectable Nose Wheel Steering/Parking Brake
- MK16 Ejection Seat (0ft - 0kts Capability)

Avionics

- EHSI, EADI, EEI
- TACAN
- AHRS
- UHF, VHF
- IFF

Propulsion System

- PT6A-62 Engine
(Turboprop 950 SHP)



33.7 ft (10.3 m)



33.7 ft (10.3 m)



12.7 ft (3.7 m)



KC-100

Fuel System

- Integral type including collector tank
- Main wing tank: 90 US gallons
- Collector tank: 8 US gallons

Environmental Control

- Vapor Cycle Cooling System
- T/C Bleed Air Heating System

Electrical System

- 2 Alternators (28VDC)
- 2 Batteries (24/24V)

Oxygen System

- Supplement Gaseous Oxygen System (2180 liters)

Ice Protection

- Fluid Weeping System
30-minute duration

Engine

- TSIOF-550-K
- FADEC, Turbocharged
- 315HP at 2500RPM

Avionics

- Avidyne 12" IFD

Landing Gear

- Fixed Tricycle Type

Flight control

- Primary : Conventional Mechanical Controls
- Secondary : Electrically Operating

Autopilot

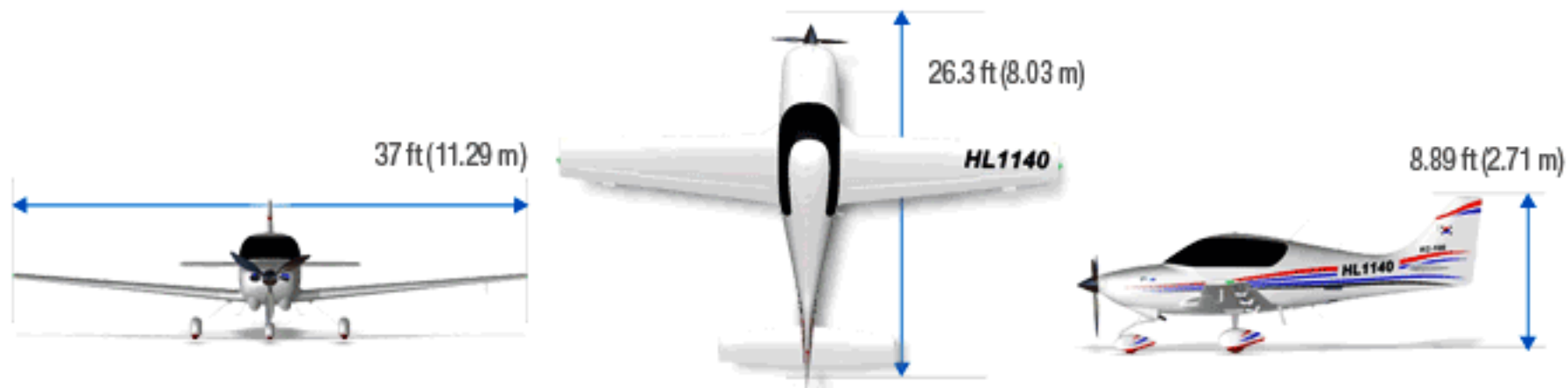
- Fully Digital, 2-Axis System



37 ft (11.29 m)

26.3 ft (8.03 m)

8.89 ft (2.71 m)



T-50

Propulsion system

- High thrust with afterburner F404-GE-102
- Dual-channel digital electronic control

Cockpit

- Wide Field of View HUD
- Integrated Up-Front Controls
- Color Multifunction Displays
- Hands-On Throttle And Stick (HOTAS)
- Zero-Zero Ejection Seat

Flight control System

- Fly-by-wire digital flight controls
- Active stick technology
- On-board oxygen generation system (OBOGS)
- Electrical emergency power unit
- Triple redundant electrical system
- Digital break-by-wire

Avionics

- Embedded GPS/INS
- UHF/VHF Radio
- Integrated IFF
- Store Management System
- Radar Altimeter
- Integrated Mission Computer



T-50B

Cockpit

- Wide Field of View HUD
- Integrated Up-Front Controls
- Color Multifunction Displays
- Hands-On Throttle And Stick (HOTAS)
- Zero-Zero Ejection Seat
- Smoke Control Switch and Indicator
- 4 X Pin Camera

Flight control System

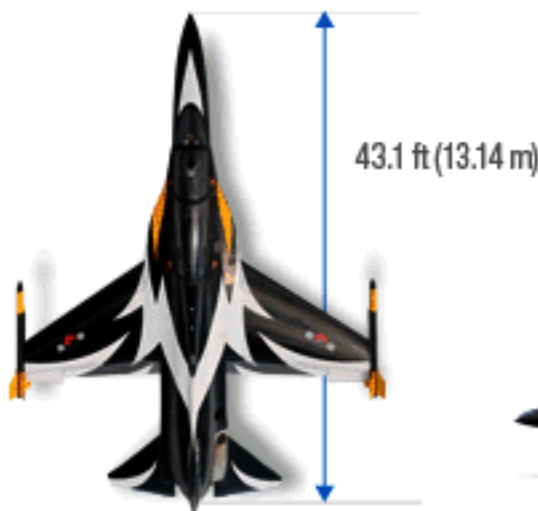
- Fly-by-wire digital flight controls
- Active stick technology
- On-board oxygen generation system (OBOGS)
- Electrical emergency power unit
- Triple redundant electrical system
- Digital break-by-wire
- Smoke Generating System
- Visible Lights
- Fuselage Camera
- Digital break-by-wire

Avionics

- Embedded GPS/INS
- UHF/VHF Radio
- Integrated IFF
- Store Management System
- Radar Altimeter
- Integrated Mission Computer
- Video Recorder

Propulsion system

- High thrust with afterburner F404-GE-102
- Dual-channel digital electronic control



TA-50

Flight control System

- Fly-by-wire digital flight controls
- Active stick technology
- On-board oxygen generation system (OBOGS)
- Electrical emergency power unit
- Triple redundant electrical system
- Digital break-by-wire

Propulsion system

- High thrust with afterburner F404-GE-102
- Dual-channel digital electronic control

Cockpit

- Wide Field of View HUD
- Integrated Up-Front Controls
- Color Multifunction Displays
- Hands-On Throttle And Stick (HOTAS)
- Zero-Zero Ejection Seat

Avionics

- Embedded GPS/INS
- UHF/VHF Radio
- Integrated IFF
- Store Management System
- Radar Altimeter
- Integrated Mission Computer

Radar

- Multimode Radar

Armament

- AIM-9 missile
- Internal 20mm gun
- MK-82
- SUU-20
- AGM-65



31 ft (9.45 m)



43.1 ft (13.14 m)



16.2 ft (4.94 m)

