

This aircraft is basic cum advanced Jet trainer manufactured by joint venture of China and Pakistan. It is used for basic operational jet training of pilots.

Features

- Wide speed range and high maneuverability
- Satisfactory flying qualities in accordance with the requirements set forth in MIL-F-8785C IV for highly maneuverable aircraft.
- Good field of view and cockpit arrangement very close to a combat aircraft
- Advanced turbofan engine with low specific fuel consumption and minimum operation and maintenance cost
- State of the art equipment (including instrumentation, communication, navigation, etc.) satisfying the requirements of training pilots for the future
- Highly reliable escape system
- Advanced strap on environmental control system capable of providing cockpit air-conditioning both on the ground and in the air
- Hydraulically operated wheel braking and nose wheel steering
- Multi role capability for training
- 8000 flight hours service life for airframe structure
- Long endurance and high service ceiling adequate for a wide range of missions
- Low life cycle cost
- Short turn-around time and low maintenance work load

Technical Features

| Power Plant |

K-8 is fitted with Honeywell TFE 731-2A-2A modular turbofan engine with DEEC & hydro

| Environmental Control System |

Incorporation of most effective ECS provides a roomy cockpit environment with air conditioning capability even on ground under an ambient temperature of -40 °C to +52 °C mechanical fuel control system.

| Engine Main Data TFE 731-2A-2A |

- Rated power maximum static thrust at sea level : 3600 lbs
- SFC : 0.502 lb/lb thrust hr (maximum static thrust)
- Air flow : 115 lbs /sec (take-off and maximum continuous)
- Engine net weight : 812 lb
- Pressure ratio : 13.9
- Bypass ratio : 2.67

An access through which the engine is installed/removed, is provided on the belly of the fuselage. With this provision, replacement of the engine in the field takes 50 minutes

| Egress System |

Highly reliable escape system incorporating two Martin Baker MK-10L fully automatic rocket assisted zero-zero ejection seats to ensure survival capability within the entire flight

| Fuel System |

The aircraft fuel system consists of the fuel tanks and the fuel supply / transfer, vent/pressurization, fuel quantity measuring / indicating, refueling and fuel drain subsystems.

The total fuel contained in two fuselage bladder-type rubber tanks and a wing integral tank is 2576 lbs. The capacity of drop tanks is 428 lbs each.

| Flight Performance |

- Maximum level speed : 800 km/hr
- Rate of climb at sea level : 30 m/s
- Service ceiling : 13600 m
- Built-in Range : 1560 km
- Ferry range (with drop tanks) : 2140 km
- Endurance : 3.2 hrs
- Maximum endurance (with drop tanks) : 4.2 hrs
- Un-stick speed : 185 km/hr
- Touchdown speed : 160 km/hr
- Take-off ground run : 440 m
- Landing ground run : 530 m
- Limit load factor : +7.33 g -3.0 g

| Cockpit Layout |

Cockpit is designed to meet the latest Military Specification of Aircrew Station Geometry and vision requirements. EFIS made by Collins is fitted in front and rear cockpits. UHF / VHF communication system, TACAN/RADIO COMPASS & ILS are available as per the customers requirement.

| Weights |

- Normal take-off weight : 3700 kg
- Useful load : 943 kg
- Internal fuel capacity : 780 kg
- Weight empty : 2757 kg
- Maximum take-off weight : 4332 kg

| Dimensions |

- Overall length : 11.6 m
- Overall height : 4.21 m
- Wing area : 17.02 m²
- Wing span : 9.63 m
- Wheel track : 2.54 m
- Wheel base : 4.442 m



K-8 Jet Trainer Aircraft