



FK [★]14 **Polaris**

FK LIGHTPLANES

FK14 Polaris PROFESSIONAL

The Professional model is a practical and versatile low-wing cruiser, ideal for flight schools & clubs who require the superior flying experience.



FK14 Polaris EXECUTIVE

The Executive model offers a unique and stylish look, along with a comfortable and luxurious interior, an ultimate flying experience for the private pilot.



Standard Equipment

Airframe

- > airframe is a composite monocoque fuselage type
- > oil-inspection door integrated in engine cowl
- > integrated tie-down attachments in wingtips
- > blue coloured canopy with increased UV protection
- > canopy key lock system
- > enlarged fuel tank system (total 78ltr) including drain valves
- > wing fast-connection-mechanism for quick wing detachment
- > basic colouration white including "Professional" decoration set

Cockpit

- > movable carbon fibre seats with two colour upholstery
- > canopy snap vents
- > adjustable cockpit ventilation for both pilot and passenger
- > wall pockets in both sides of cockpit and additional luggage compartments in floor
- > canopy protection covering
- > battery charge socket

Panel

- > air speed indicator
- > altimeter (10000ft)
- > compass
- > slip indicator
- > oil pressure and oil temperature
- > CHT
- > Hobbs Meter
- > RPM indicator gauge

Systems

- > hydraulic disc brake 6" mainwheel-system with parklock
- > electric fuel booster pump and pressure warning
- > mechanical elevator trim
- > integrated radio antenna in fuselage wall
- > electrical operated fowler flaps with position indicator system
- > two electric fuel level indicators for wingtanks

Powerplant & Propeller

- > Rotax 912 UL (80 hp)
- > 3-blade DUC carbon fibre CS fixed pitch propeller
- > standard steel exhaust



Standard Equipment

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- > oil inspection door integrated in engine cowl
- > Integrated tie-down attachments in wingtips
- > blue coloured canopy with increased UV protection
- > canopy key lock system
- > enlarged fuel tank system (total 78ltr) including drain valves
- > wing fast-connection-mechanism for quick wing detachment
- > wheel fairing set
- > three colour paint scheme and deco-set type

Cockpit

- > movable carbon fibre seats
- > canopy snap vents
- > adjustable cockpit ventilation for both pilot and passenger
- > wall pockets in both sides of cockpit and additional luggage compartments in floor
- > canopy protection covering
- > battery charge socket
- > floor covering set
- > cabin heat system
- > three colour comfort interior including Nappa leather

Panel

- > air speed indicator
- > altimeter (10000 ft)
- > compass
- > slip Indicator
- > oil pressure and oil temperature
- > CHT
- > Hobbs Meter
- > RPM indicator gauge

Systems

- > hydraulic disc brake 6" mainwheel system with parklock
- > electric fuel booster pump and pressure warning
- > electric elevator trim
- > integrated radio antenna in fuselage wall
- > electrical operated fowler flap with position indicator system
- > two electric fuel level indicators for wingtanks
- > position strobe light system in wingtips & tail plus landing light including installation

Powerplant & Propeller

- > Rotax 912 ULS (100 hp) includes the reduction gear - clutch, big size starter
- > 3-blade DUC carbon fibre CS fixed pitch propeller
- > stainless steel exhaust system
- > carbon airbox with ram air inlet and carburetor heat system



Technical Specification

Dimensions	
Wing span	9,100 m
Length	5,995 m
Height	2,135 m (tri-gear version)
Weights	
Empty weight in base configuration (without BRS)	
277 kg "TG" 275 kg "Classic" (Prof) 293 kg "TG" 291 kg "Classic" (Exec)	
Demonstrated ultimate loads	+6,4 g / -3,8 g (540 kg)
Max. demonstrated take off weight. (Certified MTOW according regulations relating specific state of immatriculation Performance @ 475.5kg)	540 kg
Performance	
Demonstrated Vne	290 km/h
Demonstrated Vstall	64 km/h
Cruise (75%)	235 km/h (Prof) / 243 km/h (Exec)
Best climb / at	1100 (Prof) / 1500 (Exec) ft/min @ 145 km/h
Take off run over 15 m obstacle	205 m (Prof) / 180 m (Exec)
Fuel	
Total capacity	78 ltr
Usable fuel	76 ltr

Sales



Description

In addition to its modern design, the Polaris is outstanding not only because of its unique panoramic view, but also due to its low fuel consumption.

Proven in many competitions and air races - the Polaris is able to beat most of its competitors - no matter if tuned by variable pitch props or retractable landing gears!

A large one-piece hood opens the cabin easily with the help of gas springs, and permits easy boarding.

The canopy is made from a special UV protection plexi and provides a 360° panoramic view. Ergonomic, adjustable moulded bucket seats are shaped for long journeys and comfort and the cockpit was designed for maximum space therefore able to accommodate very tall pilots.

With over 14 cm more elbow room compared to a standard C172 and space for pilots over 2.0 m. A modern, electric Fowler flap system allows wing extension of up to 20%.

This makes cruising speeds of up to 250 km/h possible even starting from very short runways.

The winglets on the ailerons optimize control efficiency.

You can order your FK14 in a Tri-Gear or Taildragger configuration.



Flymap



Analog



Garmin



Dynon



Panels



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