THE PS-28 CRUISER IS USED EXTENSIVELY FOR FLIGHT TRAINING

The PS-28 Cruiser is Type Certified for VFR Day operations according to EASA LSA regulations and can be fully commercially operated in all EASA countries or in countries where the PS-28 Cruiser obtained local CAA Type Certification. In April 2012, the PS-28 Cruiser was the very first aircraft to receive certification in the brand new category of Light Sport Aircraft with European General Aviation.
1 LOW OPERATIONAL COSTS
Life cycle costs represent one of the key factors in the decision making process in any new aircraft acquisition.

The new generation PS-28 Cruiser has the lowest operational costs in its class and can provide considerable benefits to flight school operations when compared to older or different categories of aircraft. Our ongoing modernization process, integration of up-to-date technologies and highly competitive acquisition cost the PS-28 Cruiser a very attractive option for all user groups.

2 EASY MAINTENANCE
Due to the intelligent construction of the aircraft coupled with smart design elements and applied technologies, the PS-28 Cruiser is perceived by the operators as a very easy maintainable aircraft. The simplified maintenance procedures make the PS-28 Cruiser an ideal solution specifically for flight schools and operators of large fleets.

3 SOLID AND RELIABLE STRUCTURE
Czech Sport Aircraft currently holds both Production Organization Approval (Part 21) and Design Organization Approval (Part 21) issued by the European Aviation Safety Agency (EASA). The company’s technological excellence, long term experience and dedication to innovation make Czech Sport Aircraft a leader in the Light Sport Aircraft segment of the present General Aviation market. Thanks to the all-metal structure, selected materials and modern processes involved in the production of the PS-28 Cruiser, the aircraft is a very solid and reliable air vehicle perfectly suited to highly frequent exploitation in the flight training role.

4 MOST SPACIOUS & REFINED COCKPIT IN ITS CLASS
The PS-28 Cruiser boasts by far the most spacious and ergonomic cockpit in its class and a level of comfort and refinement that is second to none. The first-class choice of fabric and leather upholstery, advanced on-board climate control and defogging systems together with the easy control and high endurance of the aircraft provide for the PS-28 Cruiser being widely recognized as also a true cross-country aircraft.

THE NEW BENCHMARK FOR FLIGHT TRAINING
Current statistics show that over 50% of aircraft built by Czech Sport Aircraft are used by flight schools and air clubs in the basic and advanced training role as well as for time building. The PS-28 Cruiser has brought new possibilities and a breath of fresh air to the European flight training market since obtaining EASA type certification in April 2012. Since then the aircraft has already achieved noticeable success and is currently used in many European countries training the pilots of
DESIGN OVERVIEW

BASIC DESIGN
The PS-28 Cruiser is a double-seat aircraft of full metal construction. The aircraft is arranged as a low wing mono-plane with cantilevered wings and a conventional empennage.

WING
The wing is a cantilever wing designed in two pieces. Each wing is attached by 6 shear bolts to the wing centre section. A fuel tank is located in each wing with a capacity of 57 litres. A unique storage compartment is also located in each wing with a capacity of 10kg per compartment. The wing tip is constructed from carbon-glass laminate. The wing is equipped with slotted flaps and ailerons. The right aileron is fitted with electrical trim.

TAILPLANE
The tailplane is formed by a stabilizer and elevator. The elevator is full balanced by horn balance and is equipped with a trim tab controlled by electrical servo.

FUSELAGE
The fuselage is designed as a conventional metal semi-monocoque structure. The cockpit frame and cover frame are made from a carbon glass fibre construction. The undercarriage is attached directly to the channel on the fuselage base.

POWER SUPPLY
The aircraft is powered by 12V electrical power.

COCKPIT
The PS-28 Cruiser boasts the most spacious and ergonomic cockpit in the Light Sport Aircraft category. The cockpit has front-up-opened cover and two side sliding windows. All windows are made from Plexiglass. Located to the rear of the pilot seats is a spacious baggage compartment.

The cockpit is equipped with an instrument panel holding all instruments in 3 separate panels. Individual control sticks and pedals provide the flight controls for both seats. The throttle is positioned on the centre console and the wheel brakes are located on the pedals.
TECHNICAL SPECIFICATION

Engine: Rotax 912 ULS2
Power: 73.5 kW, 100 HP at 5800 RPM
Fuel: Mogas RON 95, Avgas 100 LL, EN 228
Propeller: Woodcomp Klassic 170/3/R
Sensenich Fixed 3-blade (*)
Wingspan: 8.6 m (28.22 ft)
Length: 6.62 m (21.72 ft)
Height: 2.315 m (7.60 ft)
Wing surface area: 12.3 m² (132.4 sq ft)
Cockpit width: 1.17 m (3.85 ft)
MTOW: 600 kg (1,320 lbs)
Empty weight: 388 kg (855.4 lbs)
Max. baggage weight
in cockpit compartment: 18 kg (40 lbs)
Max. baggage weight in
each wing locker: 10 kg (22 lbs)

Cruise speed at 3,000 ft and 75% power: 93 KIAS (172 km/h)
Max. horizontal speed: 119 KIAS (220 km/h)
VNE: 138 KIAS (255 km/h)
Stall speed VS0: 31 KIAS (55 km/h)
Climb rate: 825 ft/min (4.2 m/s)
Take-off distance to 50 ft (15 m):
Concrete: 1,270 ft (387 m)
Grass: 1,499 ft (457 m)
Braking distance:
Concrete: 479 ft (146 m)
Grass: 364 ft (111 m)
Range (30 min. reserve): 516 NM (953 km)
Endurance: 5 hours 25 min
Fuel capacity: 114 l (30 US gal.)
Average fuel consumption: 17.5 l/h (4.6 US gal./1 hour)

SAFETY EQUIPMENT

CHUTE HAPPENS

If it’s peace of mind for your loved one or if you want that added bit of safety you can never go wrong with the Ballistic Recovery System.
ENGINE

POWER BY ROTAX

912ULS/S 100HP

- 4-cylinder
- 4-stroke liquid-/air-cooled engine with opposed cylinders
- Dry sump forced lubrication with separate oil tank, automatic adjustment by hydraulic valve tappet
- 2 carburetors
- Mechanical fuel pump
- Dual electronic ignition
- Electric starter
- Propeller speed reduction unit
- Air intake system

DYNON SKYVIEW GLASS COCKPIT

The latest immersive SkyView glass cockpit system, with large easy to navigate and simple to use interface provides the pilot which everything they need at a touch of a button. With synthetic vision and 3D terrain mapping.

Features

- **SkyView Displays**: Very bright, high-resolution screens driven by advanced graphics processors create highly visible and readable display. Even in direct sunlight!

- **Buttons and Joysticks**: The SkyView System is designed for ease of use while flying. The most used functions are accessed via two rotary/multi-direction Joysticks, for fast intuitive commands.

- **Redundancy**: If two displays are in the system, either one can act as the Primary Flight Display, Moving Map, and Engine Monitor.

- **System Battery Backup**: A system backup battery will provide over an hour of backup power to a Display and Modules. Each Display requires its own Backup Battery for redundancy.

AVIONICS