



PS-28^N Cruiser[®]

by Cruiser Aircraft[®]

TECHNICAL SPECIFICATIONS





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Dear Pilots,

We wish to take this opportunity and present you our new aircraft the PS-28N Cruiser.

The PS-28N Cruiser is next in line significantly upgraded version of the well-established original PS-28 Cruiser aircraft. Based on the experience from operational fleet of almost 700 aircraft, upgrades on PS-28N Cruiser present enhancement of its operation capabilities by VFR Night, makes the flying more comfortable, maintenance even less demanding and operation less expensive. PS-28N Cruiser presents the ideal solution for needs of flight training organisations worldwide.

The PS-28N Cruiser has been designed based on the cooperation of the aircraft designers and instructors from the flight training organizations whose experience from operations, inputs and ideas for possible upgrade of the aircraft were very well taken on board of the PS-28N Cruiser. This cooperation brought a bunch of improvements not only in the performance characteristics, but also practical features which provides even higher comfort to the pilot and the instructor.

The PS-28N Cruiser is type certified by European Union Aviation Safety Agency (EASA) for VFR Day & Night operations in the Light Sport Aircraft Category.

Thanks to its smart design and all metal structure the fatigue tests approved its total airframe life to 11 000 flight hours. The combination of long durability, low maintenance and operational costs, comfortable and spacious cockpit, superb flight characteristic represent an ideal solution for Flight Clubs and Flight Training Organizations.



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To secure the visibility and therefore the highest level of safety in Night VFR conditions, the external lighting has been overall reconstructed. Landing lights were moved from the engine cowling to both wingtips. So far used position, navigational lights and strobe lights were replaced by a TSO certified version. New strobe and positional lights are installed on the rudder fin and on the aircraft belly. Dimmable instrumental panel lighting provides visibility and accessibility of all controls in the cockpit during the night flights. Based on the experience from USA red backlight is installed on the PS-28N Cruiser.



The PS-28N 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. Individual control sticks and adjustable 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. PTT & Trim settings are located on a control stick.





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Whole cockpit ergonomic has been fine tuned in close cooperation with flight school instructors and with well-experienced airline pilots. PS-28N Cruiser is newly equipped with electronic flap controller with preset positions for take-off and landing flaps retraction. With new back-up Garmin G5 instrument the PS-28N Cruiser became the fully glass-cockpit equipped aircraft.



The PS-28N Cruiser is powered by Rotax 912S2-EASA certified engine with internal engine generator + F3A alternator. The cooling system of the PS-28N Cruiser has been completely rebuilt to provide enhanced engine cooling performance even in extreme climatic conditions.





Technical Specifications:

Engine	Rotax 912 S2 certified engine
Power	74kW/100hp with auxiliary alternator
Fuel	Mogas RON 95, Avgas 100 LL, EN 228
Propeller	Woodcomp Klassic / Sensenich fixed 3 blade
Wingspan	8.6 m (28.22 ft)
Length	6.66 m (21.85 ft)
Height	2.315 m (7.60 ft)
Wing surface area	132.4 sq ft (12.3 m ²)
Cockpit width	3.85 ft (1.17 m)
MTOW	1,320 lbs (600 kg)
Empty weight	865,3 lbs (392,5 kg)
Fuel capacity	30 US Gal. (114 l)
Max. baggage weight in each wing locker	22 lbs (10 kg)
Cruise speed at 3,000 ft and 75% power	93 KIAS (172 km/h)
Max. horizontal speed	119 KIAS (220 km/h)
V _{NE}	138 KIAS (255 km/h)
Stall speed V _{so}	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)
Flight Performance:	
Range (30 min. reserve)	516 NM (953 km)
Endurance	5 hours 25 min
Average fuel consumption	4.6 US Gal./Hour (17.5 l/h)



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Standard Equipment:

Flight controls on left & right side – Improved Canopy Locking – Adjustable pedals (both seats) – 4-point seatbelts – Wing locker in each wing – Locking fuel tanks (2x 57 liters) – Electrical aileron trim – Electrical elevator trim – **Heated Pitot probe** – PTT & trim settings on control stick – **Electrical 3 position flap setting**, indicator on MFD – Dual hydraulic brakes – Parking brake – Spats – **TSO Positional, strobe on winglets, white positional light on the tail** – **Landing light in winglets** – **Strobe light on the fin and belly** – **Dimmable Interior lights** – Canopy sunshade – Canopy lock signalization – 12V jack plug

Additional Equipment:

Advanced cabin heating & defogging system

Standard Instruments:

2x SkyView SV-HDX1100 10" MFD screens with back-up batteries SV-BAT-320 - Air data, attitude, heading reference system, SV-ADAHRS-200 - SkyView SV-GPS-250 built-in GPS - SV-MAP-270 navigation software - SV-EMS-220 Engine monitoring module - OAT Probe - **Garmin G5 TSO Back-Up Electronic flight instrument indicator** - Pitch trim Indicator on MFD - Aileron trim indicator on MFD - VHF NAV/COM – Transponder – Intercom – ELT - Stall Warning

Standard Paintscheme:

2021 Standard Design, all white RAL 9016 with stickers

Standard Interior:

Standard Seats with Leather Slate Grey upholstery, Slate Grey instrumental panel, Slate Grey carpets