

P92JS



SPECIFICATION AND DESCRIPTION



QUALITY AIRCRAFT SINCE 1948

TECNAM

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P92JS

This document applies only to the Tecnam P92JS and is published for the purpose of providing general information for the evaluation of design, powerplant, performance and equipment.



Pascale Museum at Tecnam Headquarter Capua

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GENERAL DESCRIPTION

General description

The P92-JS is a two-seater side by side, single strut braced, high wing aircraft. The aircraft's outstanding performance and flying qualities together with low operating costs, easy piloting and maintenance, make this aircraft an excellent choice for flying schools and training activities and also for many other missions such as touring, territory surveillance, patrol, etc.

The option to use AVGAS 100LL or unleaded MOGAS ASTM D4814-EN/228 SUPER make the P92 JS even more flexible and economical.

The P92-JS was type certified in December 2001 in compliance with CS-VLA. The engine and propeller are certified to FAR 33.

Construction

The Tecnam production line employs a monocoque tail cone section with the forward fuselage using sheet aluminum over steel tubing. The wing is an all aluminum conventional structure with a single strut. The top and bottom engine cowlings are quickly and easily removable making any maintenance easier to accomplish. A wide rear window together with large side windows complete the extraordinary visibility allowing 360° of vision in the cockpit.

The all moving Stabilator is fitted with a trim tab controlled by buttons on the control column. The excellent flying characteristic with neutral handling makes it extremely stable and easy to fly for people of any weight/height. The large flaps are deployed electrically and allow a stall speed lower than 41 KTS (76 km/h). The low stall speed and the general slow flying characteristics of the aircraft allows it to operate with ease on short runways.

Interior

Seats are adjustable and increase in height as they are moved forward. The luggage area allowing for 44 pounds/20 kg of weight is located behind the seats with easy access in flight. All Tecnam aircraft have dual control sticks, rudder pedals. The trim tab and the flaps are electrically activated with a position indicator on the instrument panel. The fresh air vents are conveniently located in the doors. Heat and defrost are standard. The aircraft has dual conventional rudder pedals with a steerable nose wheel. The wide conventional instrument panel allows fitment of a broad range equipment, in addition to standard VFR training requirements. The interior is spacious, ergonomic and comfortable.

Landing Gear

The main landing gear is spring steel that is robust enough for unimproved strips and requires no service. The trailing link nose gear uses a rubber shock absorber system that was designed for the rigours of the training environment.

The main landing gear wheels and brakes are conventional aircraft size (5.00x5). The brake control is located forward between seats. A parking brake is between the seats and is actuated by use of a single twist.

Powerplant and propeller

The top and bottom engine cowlings are quickly and easily removable making any maintenance procedure faster to accomplish. The top cowl has 2 large hinged openings for easy access to the engine compartment for effective pre-flight inspections.

The engine is set low and the cowling slopes down from the windshield, so forward visibility is excellent. The steel firewall is soundproofed. The power plant is a Rotax 912S2 series four-cylinder, four-stroke engine.

The engine is liquid and air cooled with an integrated 1:2.4286 reduction gear. The use of

liquid cooled heads and air cooled cylinders allows the engine to maintain safe operating temperatures even if a rapid descent is performed immediately after a prolonged climb. An electrical fuel pump is installed to provide an effective back-up to the mechanical one. Circuit breakers are standard.

The battery is located in the rear of the fuselage with easy access through an external hinged door. An external power socket allows for engine start, tests, and avionics management/training without the use of internal battery.

A fixed pitch wood, composite wrapped Hoffmann propeller comes standard while the hydraulic variable pitch propeller from Hoffman is also available as an option.

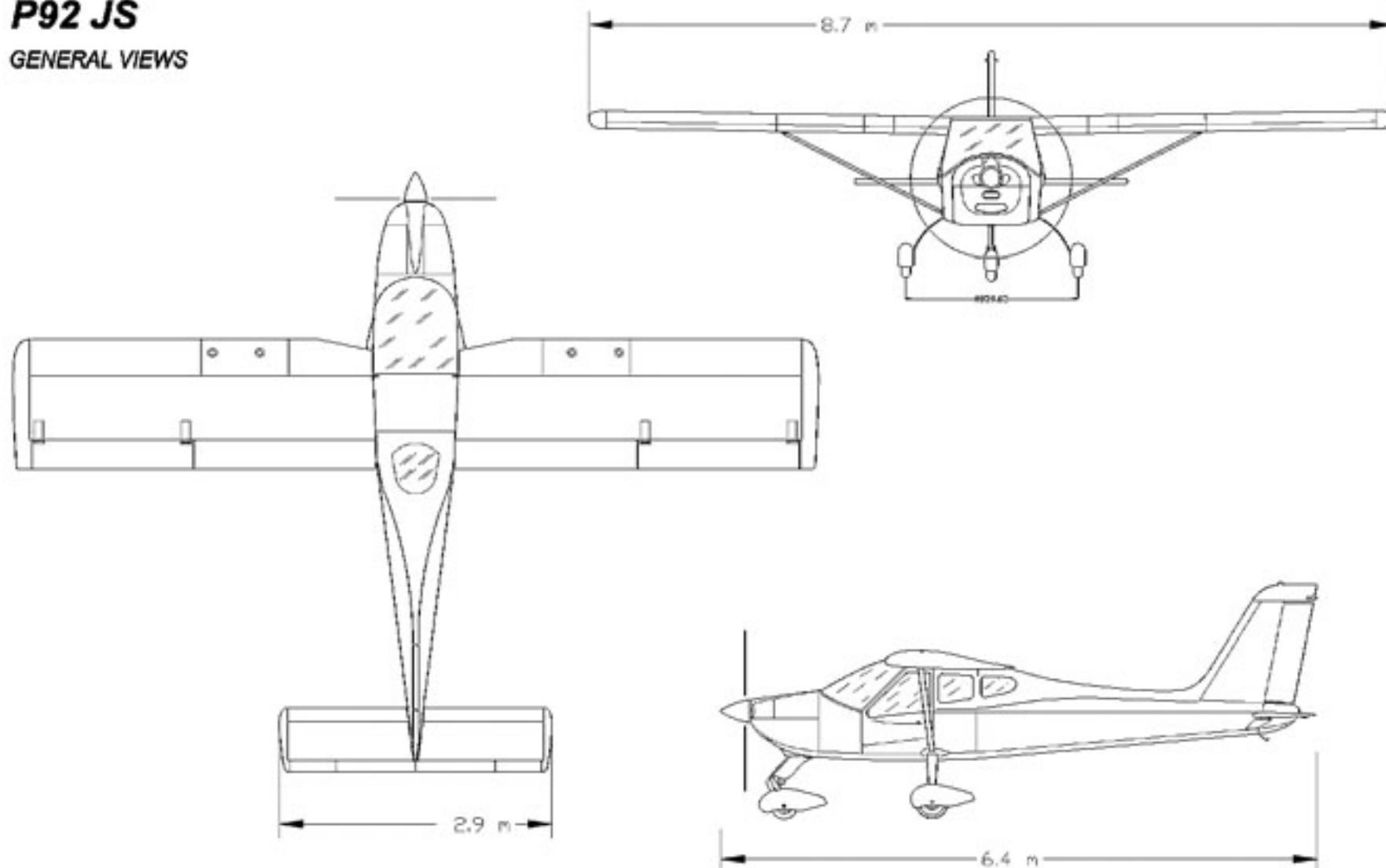
Baggage Compartment		
Width	2.62 ft	0,80 m
Length	1.48 ft	0,45 m
Max. permissible load	44lb	20kg

Cabin		
	ft	m
Height	2.95	0,90
Width	3.6	1,1



P92 JS

GENERAL VIEWS



DIMENSIONS

Wing	ft	m	Dimensions	ft	m
Span	28.5	8,7	Height	8.2	2,5
Area	129 ft ²	12 m ²	Length	21	6,4
Dihedral	1.5°				
Aspect ratio	6.31				

DESIGN WEIGHT AND LOADING

	P92JS	
	kg	lb
Maximum Take Off Weight	600	1,320
Empty Weight, Standard	370	815
Useful Load	230	507
Baggage allowance	20	44

PERFORMANCE

	P92JS	
	Fixed Propeller	
Max Cruise Speed KTAS	118 kts	219 km/h
Stall Speed (Flaps Down Power Off) KCAS	39 kts	72 km/h
Practical ceiling	14000 ft	4267 m
Take off run	623 ft	190 m
Take off distance	1213 ft	370 m
Landing Run	394 ft	120 m
Landing Distance	990 ft	302 m
Rate of climb	1010 ft/min	5,13 m/sec
Range	469 NM	869 km



STANDARD EQUIPMENT

FLIGHT INSTRUMENTS and INDICATORS

Magnetic Compass
Airspeed Ind., Kts
Altimeter (In)
Vertical Speed
Attitude Gyro
Directional Gyro
Turn And Slip Indicator
Flaps Indicator
Pitot System
Static System
Stabilator Trim Position Indicator

ENGINE INSTRUMENTS

RPM Indicator
Hour Recorder
Oil Press
Oil Temp.
Coolant Temp.
Fuel Press.
Voltmeter
Ammeter
LH+ RH Fuel Q.ty

OTHER INSTRUMENTS / WARNING

Chronometer
O.A.T. Indicator
Generator Warning Light
Vacuum Suction Gauge

FLIGHT CONTROLS

Hydraulic Hand Brakes
Parking Brake
Electrical Flaps
Dual Flight Controls
Steerable Nose Wheel
Stabilator Trim (electric actuated from stick)
Engine Controls
_ Throttle, Two
_ Carburettor Heat
_ Choke
Flight Trim Controls
_ Stabilator with Indicator
Fuel Control Selector with On/Off

Panel Switches:

_ Starter
_ Fuel Pump
_ Engine LH And RH Ignition Switches

ELECTRICAL SYSTEM

12 VOLT 18A AMP. Battery
12 VOLT Alternator - 20 AMP.
Switches:
_ Nav. Lights
_ Landing Light
_ Strobe Light
External Power Supply Receptical
Circuit Breaker Panel

FUEL SYSTEM

Two Integral Fuel Tanks with 100 Litres Total Capacity

Engine Driven Fuel Pump
Auxiliary Fuel Pump, Electric
Fuel Quick Drain

INTERIOR

Pilot And Copilot Seats
_ Adjustable Fore and Aft
Seat Belts & Shoulder Harness, all Seats
wall to wall Carpeting
Luggage Compartment
Fire Extinguisher
Radio Call Plate
Soundproofing
First Aid Kit

EXTERIOR

Epoxy Corrosion Proofing, all Structure
Two Doors with Lock and Key (Only LH)
Rear Window
Tie Down Rings
Main Wheels, 5,00 X 5
Nose Wheel, 5,00 X 5

EXTERIOR LIGHTS

Nav. Lights LED with strobe Aveo full LED TSO
Taxi Light LED

CABIN COMFORT SYSTEM

Windshield Defroster
Ventilator adjustable, 2 Place
Heating System

POWERPLANT AND PROPELLER

ENGINE - 1 ROTAX 912S2 100 HP, 4 Cylinders
liquid/air cooled, integrated reduction gear
Dual Ignition System
Throttle Control LH/RH
Tubular Steel Engine Mount

Propeller - Hoffmann, 2 Blade Fixed Pitch
Propeller Spinner
Air Filter
Oil Filter
Oil And Water Coolers
Carburettor Heat with Manual Control
Thermostat Valves Oil And Water

PRODUCT SUPPORT/DOCUMENTS

Manufacturers Full Two Year Limited Warranty
Pilots Operation Handbook
Maintenance Manual
Parts Catalog
Aircraft Log Book
Engine Log Book

STANDARD GARMIN AVIONICS PACKAGE

GMA 340 Audio Panel
GNC 255A COM/NAV
GTX 335 Transponder ADS-B OUT
ELT 406 Mhz KANNAD

Antennas:

- Transponder
- VHF
- Marker Beacon
- ELT

Speakers**Microphone**

Stick Push-To-Talk Switch-Pilot/Copilot
Mic & Phone Jacks-Pilot/Copilot

ROTAX 912 S2

- 4-cylinders
- 4-stroke liquid-/air-cooled engine with opposed cylinders
- Dry sump forced lubrication with separate oil tank, automatic adjustment by hydraulic valve tappet
- Mechanical fuel pump
- Dual electronic ignition
- Air intake system
- Gearbox Reduction Ratio 2,43:1



ROTAX
AIRCRAFT ENGINES

STANDARD AVIONICS



STANDARD GARMIN AVIONIC PACKAGE

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- GTX 335 Transponder ADS-B OUT
- ELT 406 Mhz KANNAD

Antennas:

- Transponder
- VHF
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- ELT

Speakers

Microphone

Stick Push-To-Talk Switch-Pilot/Copilot

Mic & Phone Jacks-Pilot/Copilot

PAINT SCHEMES

Standard



St.1.1

528 VIVID BLUE
546 SILVER

St.2.1

528 INTENSE BLUE
546 SILVER

St 3.1

521 INTENSE BLUE
546 SILVER

Colour Stripes

St.1.2

502 BLACK
547 GOLD

St.1.3

519 MEDIUM RED
546 SILVER

St.2.2

502 BLACK
547 GOLD

St.2.3

519 RED
502 BLACK

St 3.2

547 GOLD
502 BLACK

St 3.3

519 RED
546 SILVER

Special Paints



Sp2.1 — Paints — Stripes

LIGHT GRAY 502 BLACK
519 MEDIUM RED

Sp2.2 — Paints — Stripes

RED 502 BLACK
546 SILVER

Sp2.3 — Paints — Stripes

NAVY BLUE 546 SILVER
519 RED

Code	Description
INSTRUMENTS	
114/A	Turn & Slip Ind. 2 1/4"
RADIO & NAVIGATION EQUIPMENTS	
GARMIN-COM/NAV/GPS	
120/A	GTR225 COM 25 Mhz with Antenna and Installation.
120/B	GTR225A COM 8.33 Khz with Antenna and Installation.
119	MD200 VOR Indicator Only for GNC255A
121	GTN 650 Com/Nav/Gps with Antennas, Triplex and inst. With GI106A Ind.
121/A	GTN 650 Com/Nav/Gps with Antennas, Triplex. & inst. With GI106A Ind.(Exch. for Std. GNC255A)
122	GTN 750 Com/Nav/Gps with Antennas, Triplex and inst. With GI106A Ind.
122/A	GTN 750 Com/Nav/Gps with Antennas, Triplex & inst. With GI106A Ind.(Exch. for Std. GNC255A)
RADIO & NAVIGATION EQUIPMENT	
GARMIN-GPS	
128	AERA 500 with Antenna, Panel Support and Installation
132	795 with Antenna, Panel Support and Installation
BENDIX KING	
137	KR 87 ADF with KI227 Indicator
139	DME KN63-14 with KDI 572 Indicator
OTHERS	
157	Head Sets, Two
157/A	BOSE A 20 Head Sets, Two
AIRCRAFT EQUIPMENT	
174	Tinted Windows
176	Toe Brakes (see note #1)
178	Central Quadrant with single throttle lever
182	Fuselage Cover
185	Battery Gill G25 (Exchange for standard battery)
209	Control Lock
210	Towing Bar
EXTERIOR	
201/A	Special Paint Two Colours
ENGINE and PROPELLER EQUIPMENT	
187	Aux. Alternator

#1 - 176 TOE BRAKES includes:

- New Pedals
- 4 Brakes Pumps
- Parking Brake Selector

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