

# P92Js

## SPECIFICATION & DESCRIPTION



# TECNAM P92JS

## Specification & Description

### INTRODUCTION

This document is published for the purpose of providing general information for the evaluation of design, performance and equipment of the Tecnam model **P92JS**.

Should more information be required, please contact:



This document describes only the Tecnam model **P92JS**, its powerplant and equipment.



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## 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 has been type certified in December 2001 in compliance with CS-VLA. The engine and propeller are certified to FAR 33.

## Construction

The Tecnam 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 cowls 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.

## Interiors

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, throttles and 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 of IFR 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 require 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 cowls 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. The quick drain gascolator is installed under the cabin floor and provides easy access for checking fuel.

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.



- **Certification**

The Tecnam **P92JS** is delivered in full compliance with the requirements of EASA CS VLA

- **Engine & Propeller**

Allowed engine power:	100hp
Manufacturer:	ROTAX
Models:	912S2
Propeller diameter:	1.74m (5.73ft)
Number of blades:	2
Approved manufacturers:	Hoffman
Approved prop. types:	Fixed

- **Dimensions**

Overall Height:	8.2ft	2.5mt
Overall Length:	21ft	6.4mt

- **Wing**

Span (overall):	28.5ft	8.7mt
Area:	129.17ft <sup>2</sup>	12mt <sup>2</sup>
Dihedral:	1.5°	
Aspect ratio:	6.31	

- **Cabin**

Height (max):	2.95ft	0.90mt
Width (trim to trim):	3.6ft	1.1mt

- **Baggage Compartment**

Width:	2.62in	2.20mt
Length:	1.48ft	0.45mt
Height:	1.48ft	0.45mt
Max. permissible load:	44lb	20kg

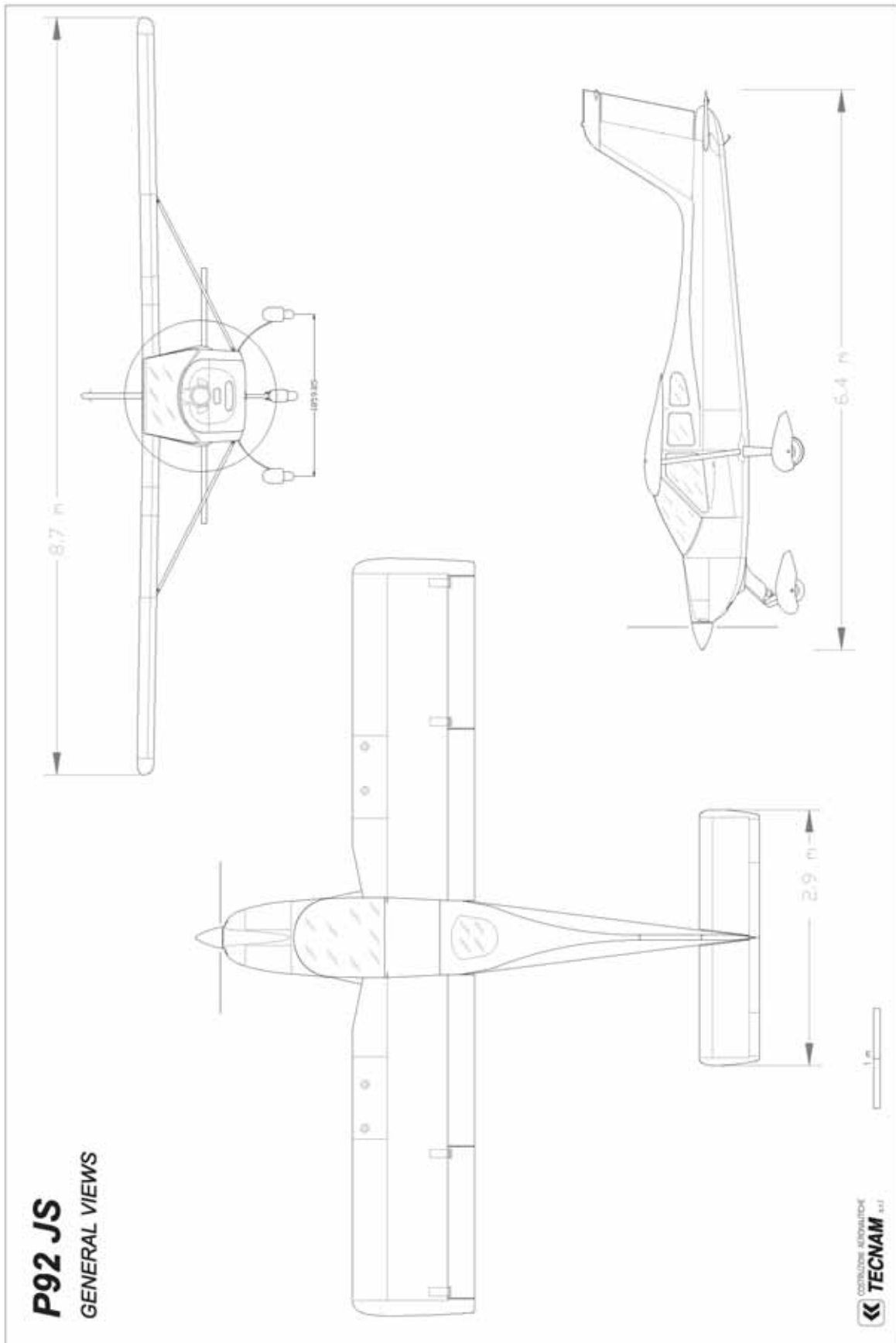
- Performance (600kg\1323lbs)

Service Ceiling:	15.000ft	4572mt
Takeoff Distance S.L. (Ground Roll):	860ft	253mt
Takeoff Distance S.L. (To Clear 50ft. Obstacle):	1424ft	370mt
Max Climb Rate S.L.:	750ft/min	4,06mt/sec
Max Speed S.L.:	120kt	222km/h
Max Range:	600nm	
Cruise Speed (75% pwr at 6.500ft):	110kt	219km/h
V <sub>ne</sub> (never exceed this speed)	141kt	263km/h
Landing Distance (Ground Roll):	558ft	120mt
Landing Distance (To Clear 50 ft Obstacle):	1092ft	302mt
Stall Speed, flap UP	46kt	76km/h
Stall Speed, flap DW	41kt	70km/h

- Design weight and capacities

Standard empty weight	716.5lb	325kg
Max Take-off Weight:	1323lb	600kg
Maximum Useful Load:	606.5lb	275kg
Fuel Capacity:	23,77USGal	90lt

## Three views





## P92JS Standard equipment list

The following list of equipment is included in the standard aircraft Analog Avionics Package and does not reflect optional equipment.

### Flight instruments and indicators

- MAGNETIC COMPASS
- AIRSPEED IND., Kts
- ALTIMETER (IN)
- VERTICAL SPEED
- ATTITUDE GYRO
- DIRECTIONAL GYRO
- TURN AND BANK INDICATOR
- FLAPS INDICATOR
- PITOT SYSTEM
- STATIC SYSTEM
- STABILATOR TRIM POSITION INDICATOR

### Engine instruments

- RPM INDICATOR
- HOUR RECORDER
- OIL PRESS
- OIL TEMP.
- HEAD TEMP.
- FUEL PRESS.
- VOLTMETER
- AMMETER
- LH + RH FUEL QTY

### Other instruments / warning

- CHRONOMETER
- O.A.T. INDICATOR
- GENERATOR WARNING LIGHT
- VACUUM SUCTION GAUGE
- TRIM INDICATOR
- WARNING LIGHT:
  - ALT. OUT
  - FUEL PUMP ON

### Flight controls

- HYDRAULIC BRAKES
- PARKING BRAKE
- ELECTRICAL FLAPS
- DUAL FLIGHT CONTROLS
- STEERABLE NOSE WHEEL
- STABILATOR TRIM (ELECTRIC ACTUATED FROM STICK)
- ENGINE CONTROLS
  - THROTTLE, TWO
  - CARBURETOR HEAT
  - CHOKE
- FLIGHT TRIM CONTROLS
  - STABILATOR WITH INDICATOR
  - FUEL CONTROL SELECTOR AND AIR

#### Electrical system

- 12 VOLT 18A AMP. BATTERY
- 12 VOLT ALTERNATORS-20 AMP.
- SWITCHES
  - AVIONIC MASTER
  - FUEL PRESS
  - NAV. LIGHTS
  - LANDING LIGHT
  - STROBE LIGHT
- 12 VOLT SOCKET
- EXTERNAL POWER SUPPLY RECEPTABLE
- CIRCUIT BREAKER PANEL

#### Fuel system

- TWO INTEGRAL FUEL TANKS, 100 LT TOT CAPACITY
- ENGINE DRIVEN FUEL PUMP
- FUEL QUICK DRAIN
- AUXILIARY FUEL PUMP, ELECTRIC
- FUEL SELECTOR RH & LH

#### Interiors

- PILOT and COPILOT SEATS
  - Adjustable Fore and Aft
- SEAT BELTS & Shoulder Harness, All Seats
- WALL TO WALL CARPETING
- MAP E STORAGE POCKETS
- LUGGAGE COMPARTMENTS
- FIRE EXTINGUISHER
- RADIO CALL PLATE
- SOUNDPROOFING
- FIRST AID KIT
- EMERGENCY HAMMER

#### Exterior

- EPOXY CORROSION PROOFING, ALL STRUCTURE
- LH/RH FRONT DOOR PILOT/COPILOT WITH LOCK AND KEY
- REAR WINDOW
- TIE DOWN RINGS
- MAIN WHEELS, 5,00 X 5 CLEVELAND
- NOSE WHEEL, 5,00 X 5
- STALL WARNING

#### Exteriors lights

- NAV. LIGHTS LED WITH STROBE AVEO FULL LED TSO
- TAXI LIGHT LED

#### Cabin comfort system

- WINDSHIELD DEFROSTER
- VENTILATOR ADJUSTABLE 2 PLACE
- HEATING SYSTEM

### Standard Garmin Avionics Package

- GMA 340 AUDIO PANEL
- GNC 255A COM/NAV
- GTX 328 TDX
- ELT 406 MHZ
- ANTENNAS:
  - TRANSPONDER
  - VHF
  - ELT
  - MARKER BACON
- SPEAKERS
- MICROPHONE
- STICK PUSH-TO-TALK SWITCH-PILOT/COPILOT
- MIC & PHONE JACKS-PILOT/COPILOT

### 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 FIX
- PROPELLER SPINNER
- AIR FILTER
- OIL FILTER
- OIL AND WATER COOLERS
- CARBURETOR HEAT WITH MANUAL CONTROL
- THERMOSTAT VALVE

### Product support/documents

- MANUFACTURER'S FULL TWO YEAR LIMITED WARRANTY
- PILOT'S OPERATION HANDBOOK
- MAINTENANCE MANUAL
- PARTS CATALOG
- AIRCRAFT LOG BOOK
- ENGINE LOG BOOK

## STANDARD

**OPTIONALS**

Code	Description
<b>RADIO AND NAVIGATION EQUIPMENTS</b>	
<b>GARMIN</b>	
117A	GMA 35 Audio Panel with Antenna and inst. Only for GTN750 Exchange for Std. GMA340)
119	MD200 VOR Indicator Only for GNC255A
120B	GARMIN GTR225A Com 8.33 Khz with Ant. & Inst. <b>(From Nov. 2013 mandatory for EU)</b>
120C	GARMIN GTR225A COM 8.33 Khz with Antenna and Inst. (Exch for Standard GNC255A)
121	GTN 650 Com/Nav/Gps with Antennas, Triplex and inst. With GI106A Ind.
121A	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.
122A	GTN 750 Com/Nav/Gps with Antennas, Triplex & inst. With GI106A Ind.(Exch for Std. GNC255A)
125	GTX 330 Transponder mode S with Antenna and Inst. Exchange for Std. GTX23)
125A	GTX 330 Transponder mode S with Antenna and Inst. Exchange for Std. GTX328)
126A	GTX 33 Transponder mode S remote mounted with Antenna and Inst. (Requires option 122)
126B	GTX 33 Transponder mode S remote mounted with Ant. and Inst. (Requires option 122) Exch. For Std. GTX328
<b>BECKER</b>	
133A	RA3502 ADF with AN3500 Indicator
<b>BENDIX KING</b>	
137	KR 87 ADF with KI227 Indicator
139	DME KN63-14
<b>OTHERS</b>	
157	Two Head Sets
157A	BOSE A 20 Two Head Sets
<b>AIRCRAFT EQUIPMENTS</b>	
174	Tinted Windows
176	Toe Brakes
178	Central Quadrant with single throttle level (requires opt. 176)
182	Fuselage Cover
184 /E	Spinner Polished Alluminum Look
185	Battery Gill G25 (Exchange for standard battery)
201	Special paint two colors
<b>ENGINE EQUIPMENTS</b>	
187	Aux alternator

### TECNAM COLORS

Standard color, for more information please visit [www.tecnam.com](http://www.tecnam.com)



	528 VIVID BLUE		502 BLACK		547 GOLD				

SELECT YOUR STRIPE PACKAGE

Stripe 1



QUALITY AIRCRAFT SINCE 1948

**TECNAM**

Via Maiorise, snc - 81043 Capua (CE) ITALY  
Phone: 39 (0) 823 620134 - Fax: 39 (0) 823 622899  
[www.tecnam.com](http://www.tecnam.com) - [info@tecnam.com](mailto:info@tecnam.com)