

PA-34-220T Seneca III

The Seneca III is a twin engine, all metal, retractable undercarriage, 6 seat aircraft powered by two turbocharged 220 HP Continental engines. The Seneca III is particularly suitable for initial twin training and considered to be a very safe platform for training pilots in asymmetric operations. PA-34 aircraft are equipped with Auto-Pilot and Flight Director, colour radar, and Garmin GTN 750 Communication and Navigation suit that includes GPS, ADSB, Transponder and TCAS making it a very capable advanced navigation and instrument flight training aircraft.



The following table indicates the technical description and specifications of the BAE Systems PA-34 Seneca aircraft:

Item	Details
Aircraft Manufacturer	Piper Aircraft
Aircraft Model	PA-34-220T Seneca III
Year of Manufacturer	1991
Engine Make & Model	Six Cylinder Teledyne Continental (x2) TSIO 360KB
Propeller Make & Model	2 Blade Constant Speed counter rotating Hartzell propellers BHC-C2YF-2CKUF/FC8459-8R with un-feathering accumulators
Avionics and Instrument fit	Air driven Attitude Indicator Remote Indicating Compass {King KI-229} Horizontal Situation Indicator {King KI525A} Electric Compass System {King KCS-55A} Electric Turn Indicator Audio {King KMA-24H} Dual Automatic Direction Finder {King KR-87} Garmin GTN 750 Communication and Navigation suit that includes GPS, ADSB, Transponder and TCAS Emergency Locator Transmitter Pointer 3000 Distance Measuring Equipment {King KN-62A} Marker Beacon Receiver {King KR-21} Bendix RDS-82 colour radar

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The following table indicates the performance specifications of the Company PA-34 Seneca aircraft:

Description	Details
Max TO Weight Max LD Weight	2155 kgs 2047 kgs
Cruising Speeds	Max TAS of 191 knots at 10,000', ISA conditions Normal cruising TAS of 179 knots at 10,000', ISA conditions
Stall Speed	Stalling speeds at 2155 kgs: Flaps up, power idle: 67 KIAS Flaps full, power idle: 64 KIAS
Rate of Climb	Sea level: 1,400 FPM (Sea Level, ISA temp) @ 5000': 1,400 FPM, at max AUW One engine inop 240 FPM, at 2155 kgs One engine inop 465 FPM. at 1,820 kgs
Cruise Range	760nm with fixed reserve of 45 minutes @ 65% power
Altitude Ceiling	Not equipped to operate above 10 000 ft
Runway Requirements	The PA-34 requires approx 650m to reach 50 ft from a standing start on take-off. Landing distance required is 610m
Grass Strip Capable	The PA-34 is capable of operating into and out of rough grass landing areas
Crosswind Limitations	Demonstrated crosswind limit is 17 Knots