

Mooney M20TN Acclaim Type S Model Guide

The Mooney M20TN Acclaim Type S is a four-seat, retractable-gear, all-metal piston single built 2006 to 2008 per the library record. It has a 280 hp Continental TSIO-550-G, a standard Garmin G1000 and Mooney's claimed 242 kt top speed. The Type S is a faster follow-on to the original Acclaim.

KEY TAKEAWAYS

- Mooney M20TN Acclaim Type S: certified top speed 242 kt true at FL250, with five aerodynamic changes over the original Acclaim.
- One magazine test flight saw 236 kt at FL250 and 222 kt at 17,500 ft, at about 21 gph lean of peak.
- Several FAA-approved service bulletins apply. Confirm each is complied with and logged for the serial number.
- Standard G1000 and GFC700. TKS ice protection, air conditioning and extra fuel tanks were options.

WHAT YOU GET

Four seats, G1000 with GFC700 autopilot, and a three-blade Hartzell prop. The engine is rated 280 hp with a recommended TBO of 2,000 hr. Maximum continuous manifold pressure is 30.4 inches. Cabin is 125 in long, 43.5 in wide and 43 in high. A 2008 listing shows 100 US gal of fuel, speed brakes and dual batteries.

PERFORMANCE IN PRACTICE

A magazine pilot got 236 kt at FL250 against a book figure of 240 kt in warm air. He also saw 230 kt at 21 gph at 50 degrees lean of peak, and 222 kt at 17,500 ft at about 21 gph. Climb was 800-plus fpm all the way up. Long-range tanks add 30 gal, and Mooney quotes 1,852 nm with them.

PRE-BUY CHECKS

Ask for proof of these bulletins: M20-309 (exhaust transition tube cracks, repeat every 100 flight hours), M20-312 (crankcase breather coking, 100 hr re-inspection), M20-311 (EGT probe holes), M20-316 (engine isolator mounts) and M20-299A (turbocharger replacement on listed serials). Check the turbo overhaul history and the logs.

SPECIFICATIONS

Engine Power Hp	280
Fuel Capacity Gal	100
Long Range Tank Extra Gal	30
Tks Fluid Gal	6.3
Max Continuous Manifold Pressure Inches	30.4
Cabin Length In	125
Cabin Width In	43.5
Cabin Height In	43

PERFORMANCE

Max Cruise Speed Kt	242
Tested Cruise FL250 Kt	236
Tested Cruise 17500ft Kt	222
Fuel Flow Lean Of Peak Gph	21
Climb Rate Fpm	800
Range Long Range Tanks Nm	1852

WEIGHT & BALANCE

Tks System Dry Lbs	37
Tks System Full Fluid Lbs	96

SAFETY NOTES

- M20-299A is mandatory before next flight on the listed M20TN serials: 31-0039, 31-0042, 31-0044, 31-0046, 31-0047, 31-0049, 31-0050, 31-0052, 31-0053, 31-0056 and 31-0057.
- M20-309 reports cracked or fatigued exhaust transition tubes. It requires inspection every 100 flight hours. Check that the logs show this.