


M O O N E Y



T L S *B r a v o*

TLSBravo

TLSBravo. The Performance Thoroughbred.

More than any other aircraft, the TLSBravo offers the ultimate in personal travel. As the fastest turbo-intercooled production aircraft in its class, the TLSBravo offers our highest definition of The Personal Airliner.

TLSBravo performance totally dominates the competition. With a mid-weight cruise of 220 KTAS at FL250 and a 1,230 fpm climb, the TLSBravo reaches heights of performance once reserved only for the turbine fleet. With a 2 hour, 30 minute block time for a full cabin mission of 500 nm, the TLSBravo easily fills most travel needs. A 1,060 nm max range completes its mission profile array.

Twin batteries, alternators, and vacuum systems provide an unparalleled level of systems redundancy. Oxygen and speed brakes are standard as well. Optional known ice certification is available for complete mission flexibility. The Classic and Classic/Plus avionics packages together with an enhanced interior provides quiet, comfortable passage for all--above the weather--in the comfort and safety of Mooney's performance flagship.

Standard Features

Cabin Features

Cabin Access Step
Four Headrests
Side Armrests, Front & Rear
Pilot Armrest
Carpet, Floor & Baggage Area
Carpeted Side Panels
Storage Pockets
Heating & Windshield Defrost System w/Blower
Reclining Front & Rear Seats
Vertically Adjusting Seats, Pilot & Co-Pilot
Removable Rear Seats for Cargo
Baggage Door w/Inside Release Handle
Multiple Cabin Fresh Air Vents
Leather Wrapped Control Yokes

Inertia-Reel Shoulder Harness, Pilot & Co-Pilot
Seat Belts & Shoulder Harness, Rear Seats
Assist Strap
Two Baggage Tie-Down Straps & Hooks
Console-Mounted Chart Storage
Hat Shelf & Coat Hook

Expanded Window Area
Tinted Windshield & Windows
Sun Visors
Ash Tray
Cigarette Lighter
Sound-Dampening Composite Interior

Control Features

Push-Pull Vernier Primary Engine Controls
Dual Flight Controls
Push-Pull Tube-Actuated Flight Control System
Manual Full-Tail Elevator Trim w/Indicator
Electric Rudder Trim w/Indicator
Electrically Operated Wing Flaps, Pre-set for Cruise, Takeoff and Landing

Electrically Operated Infinite-Range Cowl Flaps
Electrically Operated Retractable Landing Gear w/Airspeed Safety Bypass Switch
Ratchet/Pull Cable Emergency Gear System
Rudder Pedals, Pilot & Co-Pilot
Direct Nosewheel Steering
Parking Brake
Speed Brakes
Dual Brakes

Electric System

Dual 10 Amp-Hour Batteries, 24 Volts
Dual 70 Amp Alternators, 28 Volts
Voltage Regulator w/High & Low Warning Lights
Protective Pop-Out Circuit Breakers
Annunciator Lights w/Press to Test Switch
Key-Operated Ignition Switch

Auxiliary Power Plug
Wing-Mounted Dual Landing & Taxi Lights
Wing-Tip Recognition Lights
Navigation Lights
Cabin Lights, Front & Rear
Strobe Light System
Rotating Beacon

Fuel System

Two Integral (Wet) Wing Tanks
Engine-Driven Fuel Pump
Electric Auxiliary/Boost Fuel Pump Automatically Engaged at Full Throttle
Wing Tank Gascolators & Quick Drains

Fuel Drain Sampler Cup
Electric Fuel Quantity Gauges
Mechanical Fuel Quantity Gauges, Each Wing
Fuel Selector Valve & Drain Control
Shadin Fuel Flow System

Instruments

True Airspeed Indicator (Knots)
Sensitive Altimeter w/Blind Encoder
Attitude Indicator
Directional Gyro
Vertical Speed Indicator
Turn Coordinator
Magnetic Compass
Manifold Pressure Gauge
Tachometer
Turbine Inlet Temperature Gauge (TIT)
Cylinder Head Temperature Gauge
Alternator Ammeter/Voltmeter

Oil Temperature Gauge
Oil Pressure Gauge
Fuel Pressure Gauge
Panel-Mounted OAT Gauge
Flight Hour Recorder
Digital Electric Clock w/Timer
Internally Lighted Instruments w/Rheostat
Glareshield Wash Lights w/Rheostat
Gear Warning Horn
Stall Warning Horn

Power Plant

Lycoming TIO-540-AF1B, 270 BHP
AiResearch TAO413 Turbocharger w/Density-Differential Pressure Control System
Dual Pressurized Magneto Ignition, Shielded Ignition Harness
Lightweight Electric High-Speed Starter
Dry-Type Paper Air Filter
Constant-Speed, Three-Blade Propeller

Fuel Injection System
High Volume Dry Vacuum Pump w/Regulator
Full-Flow Oil Filter
Alternate Induction Air System
Dyna-Focal Engine Mounts
Oil Quick Drain
Air/Oil Separator
High Efficiency Intercooler

Other Features

Tubular Steel, Welded Fuselage Cabin
One Piece, Single Spar Wing
Knee-Action Landing Gear w/Rubber Disc Shock Absorbers
115 Cu. Ft. Oxygen System w/Masks & Overhead Outlets
Chrome Disc Brakes
Dual Static Ports w/Drain
Alternate Static Air Source
Heated Pitot Tube
Wing Jack-Points/External Tie-Downs
Emergency Locator Transmitter
Cabin, Baggage Door & Ignition Locks

Chrome-Plated Collapsible Tow Bar
Epoxy Polyimide & Conversion Coat Anti-corrosion Treatment Applied Prior to Assembly
AcryGlo Polyurethane Finish
Anti-Skid Wing Walk
Wheel Covers
Dual Nav/Com Antennas
Avionics Blower System
Standby Vacuum System
Static Wicks
Pilot Operating Handbook
Fire Extinguisher
Michelin Air® Tires



TLSBravo Specifications and Performance Data

Engine Lycoming TIO-540-AF1B

TBO 2,000 hrs

Propeller McCauley, 3-blade, Constant Speed,
75" Diameter

Seats 4

Length 26'9" (815 cm)

Height 8'4" (254 cm)

Gross Weight 3,368 lbs (1,528 kg)

Empty Weight 2,268 lbs (1,030 kg)

Wing Span 36'1" (11 m)

Wing Loading 19.3 lb/ft² (94.3 kg/m²)

Max Cruise Speed

200 KTAS at 13,000 ft

220 KTAS at 25,000 ft

Range and Endurance (w/Reserve)

1,070 nm/6.7 hrs at 13,000 ft

1,050 nm/6.0 hrs at 25,000 ft

Rate of Climb 1,230 fpm at sea level

Max Operating Altitude (Certified) 25,000 ft (7,620 m)

Horsepower 270 BHP

Power Loading 12.47 lb/hp (5.66 kg/hp)

Wing Area 175 ft²

Wing Aspect Ratio 7.4

Max Ramp Weight 3,368 lbs (1,528 kg)

Max Takeoff Weight 3,368 lbs (1,528 kg)

Max. Useful Load 1,100 lbs (500kg)

Max Landing Weight 3,200 lbs (1,452 kg)

Max Usable Fuel 89 gal (337 l)

Best Rate of Climb Airspeed 105 KIAS

Max Rate of Climb Sea Level 1,230 fpm

Climb Gradient 703 ft/nm

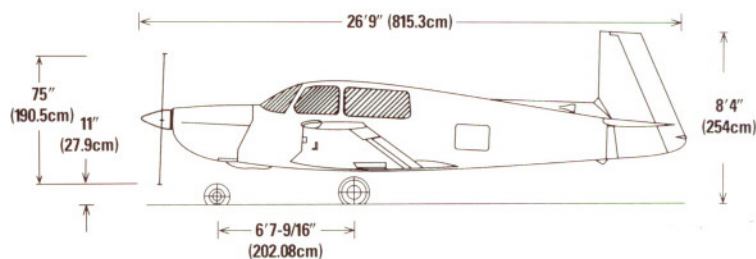
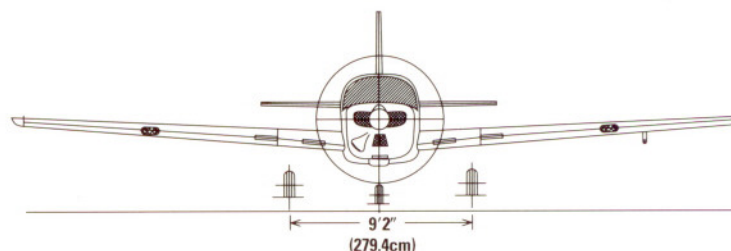
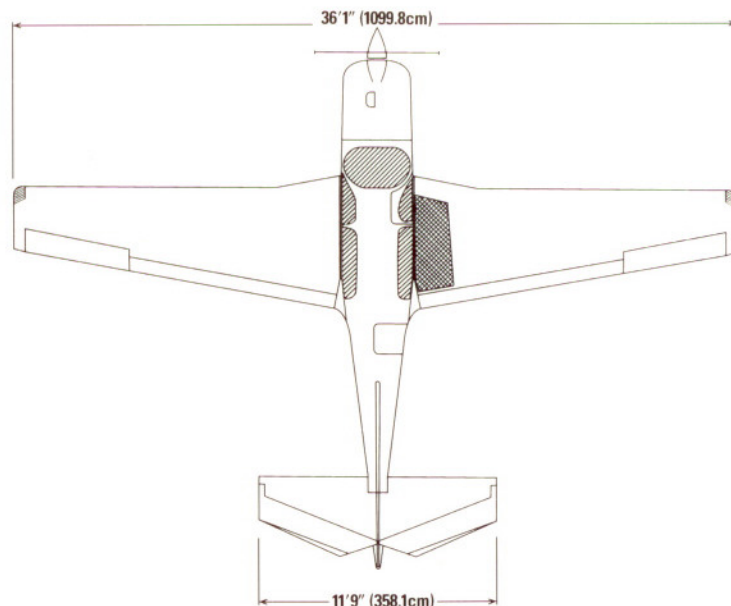
Stalling Speed, Clean 66 KIAS

Stalling Speed, Flaps/Gear Down 59 KIAS

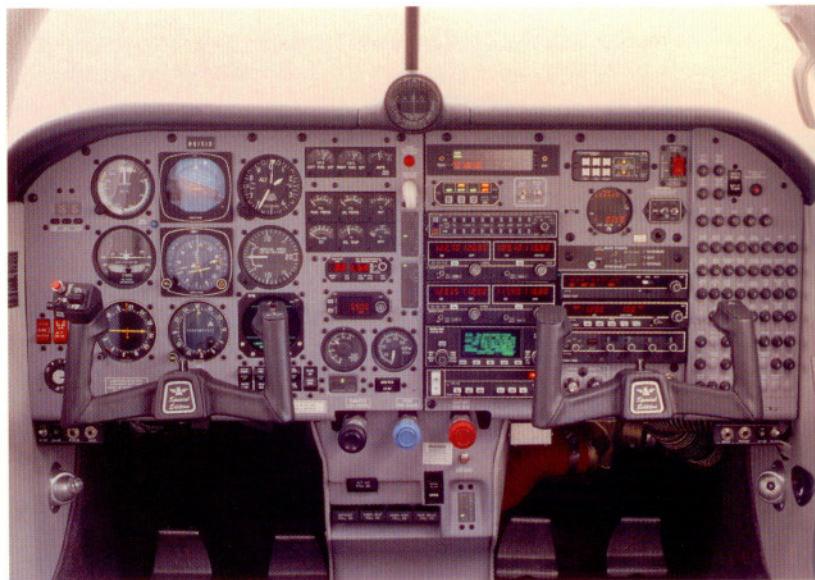
Max Gear Extension Speed 140 KIAS

Max Gear Extended Speed 165 KIAS

Flap Extension Speed 110 KIAS



All specifications and illustrations are based on the latest product information available at the time of publication and are subject to change. All speed and range performance data based upon mid-cruise weight.



MOONEY

The Personal Airliner

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