

Mooney Specification and Performance Guide

Models Model Names	M20 none	M20A none	M20B, C@ Mark 21, Ranger, 200 Aerostar	M20E Super 21, Chaparral, 201 Aerostar	M20F Executive 220 Aerostar	M20G Statesman
Prices (See separate price table)						
Years produced 77 1968-69	1955-57	1958-60	1962-76	1964-76	1967-	
External Dimensions						
Wingspan, ft.	35.0	35.0	35.0	35.0	35.0	35.0
Wing area, sq. ft.	167	167	167	167	167	167
Length overall, ft.	23.2	23.2	23.2	23.2	24.3	24.3
Height overall, ft.	8.4	8.4	8.4	8.4	8.4	8.4
Wheel track, ft.	9.2	9.2	9.2	9.2	9.2	9.2
Wheelbase, ft.	5.4	5.4	5.4	5.4	5.99	5.99
Tire size, mains	6.00-6	6.00-6	6.00-6	6.00-6	6.00-6	6.00-6
Tire size, nosewheel	5.00-5	5.00-5	5.00-5	5.00-5	5.00-5	5.00-5
Weights and Loadings						
Maximum weight, lb.	2450	2450	2575	2575	2740	2525
Std. empty weight, lb.	1450	1475	1525	1600	1622	1585
Std. useful load, lb.	1000	975	1050	975	1118	940
Std. payload, full fuel, lb.	712	687	750	675	746	640
Fuel capacity, gal.	48	48	524	52	64	52
Baggage capacity, lb.	120	120	120	120	120	120
Seats	4	4	4	4	4	4
Wing loading, lb./sq. ft.	14.7	14.7	15.4	15.4	16.4	15.1
Power loading, lb./hp	16.3	13.6	14.3	12.9	13.7	14.0
Power Units						
Engine manufacturer, model	Lycoming 0-320	Lycoming 0-360-A1A	Lycoming 0-360-A1D	Lycoming 10-360-A1D	Lycoming 10-360-A1D	Lycoming 0-360-A1D
Horsepower/rpm	150/2700	180/2700	180/2700	200/2700	200/2700	180/2700
TBO, hours	2000	2000	2000	2000	2000	2000
Propellers						
Manufacturer (all const. speed)	Hartzell	Hartzell	Hartzell	Hartzell	Hartzell	Hartzell
Performance¹						
Maximum speed, mph	171	190	190	197	184	178
Cruise speed, 75% power, optimum alt., mph	165	180	182	187	179	169
Economy cruise, 55% power, 0,000 ft., mph	n.a.	n.a.	164	168	148	n.a.
Range, 75% power, mph	n.a.	n.a.	860	700	951	578
Range, 55% power, mph	n.a.	n.a.	957	882	1004	n.a.
Service ceiling, ft.	17,200	20,000	17,500	19,500	17,900	17,000
Stall speed, gear/flaps out, mph	57	57	57	57	62	57
Rate of climb, sea level	900	1150	800	1100	1330	875
Takeoff ground roll, ft.	850	775	815	1760	895	815
Takeoff over 50-ft. obstacle, ft.	1150	1050	1250	1300	1385	1250
Landing over 50-ft. obstacle, ft.	1100	1100	1550	1550	1786	1670
Landing ground roll, ft.	600	600	595	595	640	595