

Mooney Specification and Performance Guide

Models	M20	M20A	M20B, C@	M20E	M20F	M20G
Model Names	<i>none</i>	<i>none</i>	<i>Mark 21, Ranger, 200 Aerostar</i>	<i>Super 21, Chaparral, 201 Aerostar</i>	<i>Executive 220 Aerostar</i>	<i>Statesman</i>
Prices (See separate price table)						
Years produced	<i>1955-57</i>	<i>1958-60</i>	<i>1962-76</i>	<i>1964-76</i>	<i>1967-77</i>	<i>1968-69</i>
External Dimensions						
Wingspan, ft.	<i>35.0</i>	<i>35.0</i>	<i>35.0</i>	<i>35.0</i>	<i>35.0</i>	<i>35.0</i>
Wing area, sq. ft.	<i>167</i>	<i>167</i>	<i>167</i>	<i>167</i>	<i>167</i>	<i>167</i>
Length overall, ft.	<i>23.2</i>	<i>23.2</i>	<i>23.2</i>	<i>23.2</i>	<i>24.3</i>	<i>24.3</i>
Height overall, ft.	<i>8.4</i>	<i>8.4</i>	<i>8.4</i>	<i>8.4</i>	<i>8.4</i>	<i>8.4</i>
Wheel track, ft.	<i>9.2</i>	<i>9.2</i>	<i>9.2</i>	<i>9.2</i>	<i>9.2</i>	<i>9.2</i>
Wheelbase, ft.	<i>5.4</i>	<i>5.4</i>	<i>5.4</i>	<i>5.4</i>	<i>5.99</i>	<i>5.99</i>
Tire size, mains	<i>6.00-6</i>	<i>6.00-6</i>	<i>6.00-6</i>	<i>6.00-6</i>	<i>6.00-6</i>	<i>6.00-6</i>
Tire size, nosewheel	<i>5.00-5</i>	<i>5.00-5</i>	<i>5.00-5</i>	<i>5.00-5</i>	<i>5.00-5</i>	<i>5.00-5</i>
Weights and Loadings						
Maximum weight, lb.	<i>2450</i>	<i>2450</i>	<i>25751</i>	<i>2575</i>	<i>2740</i>	<i>2525</i>
Std. empty weight, lb.	<i>1450</i>	<i>1475</i>	<i>1525</i>	<i>1600</i>	<i>1622</i>	<i>1585</i>
Std. useful load, lb.	<i>1000</i>	<i>975</i>	<i>1050</i>	<i>975</i>	<i>1118</i>	<i>940</i>
Std. payload, full fuel, lb.	<i>712</i>	<i>687</i>	<i>750</i>	<i>675</i>	<i>746</i>	<i>640</i>
Fuel capacity, gal.	<i>48</i>	<i>48</i>	<i>524</i>	<i>52</i>	<i>64</i>	<i>52</i>
Baggage capacity, lb.	<i>120</i>	<i>120</i>	<i>120</i>	<i>120</i>	<i>120</i>	<i>120</i>
Seats	<i>4</i>	<i>4</i>	<i>4</i>	<i>4</i>	<i>4</i>	<i>4</i>
Wing loading, lb./sq. ft.	<i>14.7</i>	<i>14.7</i>	<i>15.4</i>	<i>15.4</i>	<i>16.4</i>	<i>15.1</i>
Power loading, lb./hp	<i>16.3</i>	<i>13.6</i>	<i>14.3</i>	<i>12.9</i>	<i>13.7</i>	<i>14.0</i>
Power Units						
Engine manufacturer, model	<i>Lycoming</i>	<i>Lycoming</i>	<i>Lycoming</i>	<i>Lycoming</i>	<i>Lycoming</i>	<i>Lycoming</i>
Model	<i>0-320</i>	<i>0-360-A1A</i>	<i>0-360-A1D</i>	<i>10-360-A1D</i>	<i>10-360-A1D</i>	<i>0-360-A1D</i>
Horsepower/rpm	<i>150/2700</i>	<i>180/2700</i>	<i>180/2700</i>	<i>200/2700</i>	<i>200/2700</i>	<i>180/2700</i>
TBO, hours	<i>2000</i>	<i>2000</i>	<i>2000</i>	<i>2000</i>	<i>2000</i>	<i>2000</i>
Propellers						
Manufacturer (all const. speed)	<i>Hartzell</i>	<i>Hartzell</i>	<i>Hartzell</i>	<i>Hartzell</i>	<i>Hartzell</i>	<i>Hartzell</i>
Performance¹						
Maximum speed, mph	<i>171</i>	<i>190</i>	<i>190</i>	<i>197</i>	<i>184</i>	<i>178</i>
Cruise speed, 75% power, optimum alt., mph	<i>165</i>	<i>180</i>	<i>182</i>	<i>187</i>	<i>179</i>	<i>169</i>
Economy cruise, 55% power, 10,000 ft., mph	<i>n.a.</i>	<i>n.a.</i>	<i>164</i>	<i>168</i>	<i>148</i>	<i>n.a.</i>
Range, 75% power, mph	<i>n.a.</i>	<i>n.a.</i>	<i>860</i>	<i>700</i>	<i>951</i>	<i>578</i>
Range, 55% power, mph	<i>n.a.</i>	<i>n.a.</i>	<i>957</i>	<i>882</i>	<i>1004</i>	<i>n.a.</i>
Service ceiling, ft.	<i>17,200</i>	<i>20,000</i>	<i>17,500</i>	<i>19,500</i>	<i>17,900</i>	<i>17,000</i>
Stall speed, gear/flaps out, mph	<i>57</i>	<i>57</i>	<i>57</i>	<i>57</i>	<i>62</i>	<i>57</i>
Rate of climb, sea level	<i>900</i>	<i>1150</i>	<i>800</i>	<i>1100</i>	<i>1330</i>	<i>875</i>
Takeoff ground roll, ft.	<i>850</i>	<i>775</i>	<i>815</i>	<i>1760</i>	<i>895</i>	<i>815</i>
Takeoff over 50-ft. obstacle, ft.	<i>1150</i>	<i>1050</i>	<i>1250</i>	<i>1300</i>	<i>1385</i>	<i>1250</i>
Landing over 50-ft. obstacle, ft.	<i>1100</i>	<i>1100</i>	<i>1550</i>	<i>1550</i>	<i>1786</i>	<i>1670</i>
Landing ground roll, ft.	<i>600</i>	<i>600</i>	<i>595</i>	<i>595</i>	<i>640</i>	<i>595</i>

Manufacturer: Mooney Aircraft Corp., Box 72, Kerrville, TX 78029; Phone 1-830 896-6000

1. Mooney produced an M20D with fixed landing gear, but most have now been converted to C-models with retracting gear.
2. M20J wingtips were changed to 231-style in 1980, adding 1.1 sq. ft. to wing area.
3. M20B was limited to 2450 gross resulting in 925-lb. useful load, 637-lb. payload with full fuel.
4. M20C prior to 1965 had 48-gal. fuel capacity, slightly reduced range.
5. M20B was equipped with 0-360-A1A engine.
6. Lycoming engines reequipped with 1/2-inch valve stems had TBO extended to 2000 hours.
7. Lycoming engines reequipped with 1/2-inch valve stems had TBO extended to 1600 hours.
8. Performance data is all from manufacturer's original handbooks.