

Flight-Resource

A Division of  McFarlane

World's Largest MT-Propeller Distributor

MT Propeller Performance Test Results

Comparing

83" 2 & 3-Blade 'Expedition' Series Props

Test Plane: Cessna 206 w/ IO-520-F

Comparison equivalent for Cessna 210 w/ same motor

Ambient conditions: 1000 MSL and 70F - Aircraft weight at 3600 lbs

Propellers Tested:

- MT 83" 2 blade 'Expedition' Series Composite Propeller
- MT 83" 3 blade 'Expedition' Series Composite Propeller
- McCauley D3A3C401 86" 3 blade aluminum propeller
- Hartzell F8468A-6R 82" 3 blade aluminum propeller

Propeller Weights w/ Spinner:

- | | |
|------------------------------|-----------|
| • MT 2-blade w/spinner | 45 pounds |
| • MT 3-blade w/spinner | 56 pounds |
| • McCauley 3-blade w/spinner | 78 pounds |
| • Hartzell 3-blade w/spinner | 82 pounds |

Static Thrust:

- | | |
|--------------------|-----------------------------------|
| • MT 3-blade | 1190 pounds @2700 rpm |
| • MT 2-blade | 1155 pounds @2700 rpm |
| • McCauley 3-blade | 1110 pounds @2600 rpm (1090@2700) |
| • Hartzell 3-blade | 1055 pounds @2700 rpm |

Take-off distance over 50' obstacle:

- | | |
|--------------------|-----------|
| • MT 2-blade | 1752 feet |
| • MT 3-blade | 1697 feet |
| • McCauley 3-blade | 1825 feet |
| • Hartzell 3-blade | 1900 feet |

Climb performance: (1000 MSL & 70F)

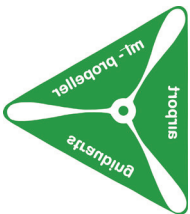
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|--------------------|---------|
| • MT 2-blade | 920 fpm |
| • MT 3-blade | 980 fpm |
| • McCauley 3-blade | 875 fpm |
| • Hartzell 3-blade | 800 fpm |

Cruise performance: (8000 feet 22"mp & 2400 rpm)

- | | |
|--------------------|---------------|
| • MT 2-blade | 141 knots TAS |
| • MT 3-blade | 137 knots TAS |
| • McCauley 3-blade | 134 knots TAS |
| • Hartzell 3-blade | 133 knots TAS |

NOTE: No motor mount change required with the MT!

mt-propeller



To learn more about this prop

866-717-1117

www.Flight-Resource.com

For other products

800-544-8594

www.McFarlaneAviation.com