

# 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 185F w/ IO-520-D

#### 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

#### Weight:

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

#### Take-off distance over 50' obstacle:

- |                    |           |
|--------------------|-----------|
| • MT 3-blade       | 1297 feet |
| • MT 2-blade       | 1352 feet |
| • McCauley 3-blade | 1389 feet |
| • Hartzell 3-blade | 1425 feet |

#### Climb performance: (Sea level 80F)

- |                    |          |
|--------------------|----------|
| • MT 3-blade       | 1136 fpm |
| • MT 2-blade       | 1097 fpm |
| • McCauley 3-blade | 1080 fpm |
| • Hartzell 3-blade | 950 fpm  |

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

- |              |               |
|--------------|---------------|
| • MT 2-blade | 150 knots TAS |
| • MT 3-blade | 146 knots TAS |
| • Hartzell   | 144 knots TAS |
| • McCauley   | 143 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](http://www.Flight-Resource.com)

For other products  
800-544-8594  
[www.McFarlaneAviation.com](http://www.McFarlaneAviation.com)