

Flight-Resource

A Division of  McFarlane®

World's Largest MT-Propeller Distributor

Cessna 170, 172 & 175

MT Propeller Performance Test Results

STC # SA02245CH

1955 C170B Engine: Lycoming O-360-A1A, 180+HP @ 2700 rpm

Ambient conditions: 1000 MSL and 75F aircraft at #2450 lbs

Propellers Tested:

- MT 2-Blade 83" Composite (Expedition)
- MT 2-Blade 80" Composite (Ultra)
- MT 3-Blade 78" Composite (Ultra)
- Hartzell 2-Blade 76" Aluminum
- Hartzell 2-Blade 80" Composite (Trailblazer)

Weight:

- | | |
|---|-----------|
| • MT 2-Blade 80" w/ Spinner (Ultra) | 42 pounds |
| • MT 2-Blade 83" Composite (Expedition) | 45 pounds |
| • Hartzell 2-Blade 80" Comp (Trailblazer) | 46 pounds |
| • MT 3-blade 78" w/ Spinner (Ultra) | 54 pounds |
| • Hartzell 2-Blade 76" Aluminum | 64 pounds |

Static Thrust @ 2700rpm:

- | | |
|---|------------|
| • MT 2-Blade 80" Composite (Ultra) | 785 pounds |
| • MT 3-blade 78" Composite (Ultra) | 775 pounds |
| • MT 2-Blade 83" Composite (Expedition) | 770 pounds |
| • Hartzell 2-Blade 80" Comp (Trailblazer) | 764 pounds |
| • Hartzell 2-Blade 76" Aluminum | 672 pounds |

Rate of Climb: (Timed full power climb at 80mph IAS to 8000')

- | | |
|---|--------------|
| • MT 2-Blade 80" Composite (Ultra) | 1086 avg FPM |
| • Hartzell 2-Blade 80" Comp (Trailblazer) | 1034 avg FPM |
| • MT 2-Blade 83" Composite (Expedition) | 1025 avg FPM |
| • MT 3-blade 78" Composite (Ultra) | 1000 avg FPM |
| • Hartzell 2-Blade 76" Aluminum | 910 avg FPM |

NOTE:

The MT 3-blade had the shortest ground roll to 'wheels off' by 20' of all props tested even though the ROC for the Ultra was higher overall.

Max Power Cruise: (24" MAP, 8000' DA, 2400 RPM 10.2 GPH)

- | | |
|---|-------------|
| • MT 2-Blade 80" Composite (Ultra) | 143 MPH TAS |
| • Hartzell 2-Blade 80" Comp (Trailblazer) | 142 MPH TAS |
| • MT 2-blade 83" Composite (Expedition) | 139 MPH TAS |
| • MT 3-blade 78" Composite (Ultra) | 135 MPH TAS |
| • Hartzell 2-Blade 76" Aluminum | 127 MPH TAS |

No RPM Restricted Ranges with the MT Propellers!!

To learn more about this prop

866-717-1117

www.Flight-Resource.com

For other products

800-544-8594

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