

Cessna 170, 172 & 175

MT Propeller Performance Test Results

Flight Resource, LLC for STC # SA02245CH

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

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

Propellers Tested:

MT MTV-15-B/210-58. 83" 2-blade composite prop. (Constant speed)
MT MTV-9-B/200-52. 79" 2-blade composite prop. (Constant speed)
McCauley 1A200DFA 82/42. 82" 2-blade aluminum prop. (Fixed pitch)
Hartzell HC-C2YK-1A 76" 2-blade aluminum prop. (Constant Speed)
Hartzell HC-C2YK-1BF 80" 2-blade aluminum prop. (Constant Speed)

Weight:

MT 2-blade w/spinner 83"	45 pounds
MT 3-blade w/ spinner 79"	54 pounds
McCauley 2-blade w/spinner	48 pounds
Hartzell 2 blade w/spinner 76"	64 pounds
Hartzell 2 blade w/spinner 80"	72 pounds

Static Thrust:

MT 3-blade 79"	815 pounds
MT 2-blade 83"	799 pounds
Hartzell 2 blade 80"	784 pounds
McCauley 2-blade (2450 RPM)	674 pounds
Hartzell 2 blade 76"	672 pounds

RPM Restrictions

MT 2 or 3-blade	NO
76" Hartzell	YES

Blade Life Limits

McCauley	YES
Hartzell	YES
MT 2 or 3-blade	NO

Blade Protection from Water Erosion

Hartzell or McCauley	NO
MT 2 or 3 blade	YES