

DAHER-SOCATA TBM 700 B

Characteristics

Seating	1+5/6
Wing Loading (lbs)	34
Power Loading (lbs)	9.4

Capacity

Fuel (lbs)	1,947
Usable Fuel (lbs)	1,887
Usable Oil (quarts)	6.0

External Dimensions (ft)

Overall Length	34ft 11in
Overall Height	14ft 4in
Wing Area (ft ²)	194
Span	41ft 7in

Internal Dimensions (ft)

Cabin Length (Bulkhead to Bulkhead)	14ft 11in
Cabin Height	4ft
Cabin Width	3ft 11in

Power

Engine	P&WC PT6A-64
Output (shp)	700
Inspection Interval	3,500

Weights (lb)

Max Ramp	6,614
Max Takeoff	6,579
Max Landing	6,250
Zero Fuel (lbs)	6,001
Empty Weight	4,427
Max Payload	1,574
Useful Load (lbs)	2,187
Available Payload w/Max Fuel	300
Available Fuel w/Max Payload	613
Baggage Capacity	330

Limits

Vmo	266
-----	-----

Va	158
Vle	178
Crosswind	20
PSI	6.2

Airport

Max Weight

TO (SL Conditions)	1,378
TO (SL Conditions) *50ft obst	2,133
TO (5,000' elev. @ ISA + 10) *50ft obst	3,149.5

Min Weight

Landing (SL Conditions)	1,030
Landing (SL Conditions) *50ft obst	2,135
Vso	60

Climb

Time to Climb (min./Attitude ISA)	
Max Initial Climb Gradient (ft/min) ISA 1Eng	1,875
Max Initial Climb Gradient (ft/nm) ISA 1Eng	876

Ceilings (ft)

Service Ceiling	30,000
Sea-Level Cabin Pressure	14,390

Cruise

Long Range (Mid Weight)

Long Range Speed TAS	242
Long Range Fuel Flow	245
Long Range Altitude	FL 290

Long Range Specific Range (nm/lb)	0.99
High Speed (Mid Weight)	
High Speed TAS	300
High Speed Fuel Flow	370
High Speed Altitude	FL 260
High Speed Specific Range (nm/lb)	0.81
Missions	
200nm	
Cruise TAS	281
Flight Time	0.81
Cabin Payload with required fuel	1456
400nm	
Cruise TAS	300
Flight Time (w/o reserves)	1.47
Cabin Payload with required fuel	1255
800nm	
Cruise TAS	294
Flight Time (w/o reserves)	2.87
Cabin Payload with required fuel	895
1000nm	
Cruise TAS	294
Flight Time (w/o reserves)	3.55
Cabin Payload with required fuel	680
1200nm	
Cruise TAS	294
Flight Time (w/o reserves)	4.23
Cabin Payload with required fuel	464

Source: <http://www.newavex.com/tbm-learning-center/aircraft-comparison/compare-models/>