

DAHER-SOCATA

TBM 850

SOCATA, Aéroport de Tarbes-Lourdes-Pyrénées 65921 Tarbes cedex 9 - FRANCE
+33 (0) 562 417 300 / www.tbm850.com

Kind of operations : **Day Night VFR & IFR icing cond.** Data source : **MANUFACTURER** Year model : **2010**

Datasheet Status : **Complete** Start production year : **1991** Us Metric



Dimensions external (ft,inch/m) Dimensions internal (ft,inch/m)
Length : 34 / 9,2 / 10,60 Cabin size : With cockpit
Height : 14 / 2,9 / 4,34 Cabin length : 14 / 11,4 / 4,56
Wingspan : 41 / 6 / 12,65 Cabin width : 4 / 1,22
Park. Surface ft/m2: 440 / 134 Cabin height : 4 / 1,22

Landing performance Flaps landing %/position : **LDG**

Weight at landing lbs/kgs : 7024 / 3186
Landing ground roll ft/m sl @ 15 c° : 1840 / 561
Landing ground roll 50ft obst ft/m sl @ 15 c° : 2430 / 741

Service ceiling Service ceiling ft / m : 31000 / 9449

Powerplant/ Propeller/ De-icing/ Gear Engine (s) : 1 Type : Turbine

Manufacturer : PRATT & WHITNEY Engine Ident : PT6A-66D

Engine(s) de ice : Yes Turbo : Not apply Energy : Jet A1

Carbu.(s) de ice : Not apply Power hp / lbs : 850

Blade(s) de ice : Yes Total power hp / lbs : 850 / 0

Wings de ice : Yes Gear : Tricycle Type : Retractable

Blade(s) : 4 Propeller(s) : Cst speed, full feat & revers.

Empty weight Empty weight lbs / kgs : 4589 / 2082

Fuel Fuel cap. gal / l : 301 / 1139 usable 291,6 / 1104

Fuel cap. lbs / kgs : 2017 / 915 usable 1954 / 886

Weight Max Ramp weight lbs / kgs : 7430 / 3370

Max takeoff weight lbs / kgs : 7394 / 3354

Max landing weight lbs / kgs : 7024 / 3186

Load Max useful load lbs / kgs : 2841 / 1289

Max usable load with full fuel lbs / kgs : 824 / 373,76

Range example Range example nm / km : 1200 / 2224

isa, zero winds enroute, 4 people on board, NBAA IFR reserves.

Weight @ Toff : 7424 / 3367 Power in % : MAX CRUISE

Cruise alt ft/m : 31000 / 9449 Flight time Hr : 3,58

Takeoff performance Weight lbs/kgs : 7394 / 3354 Flaps position : TO

Takeoff : ground roll ft / m @ sl 15 c° : 2035 / 620

Tot.distance ov. 50 ft obst @ sl 15 c° : 2840 / 866

Rotation speed MTOW Rotation speed (vr) kts : 90 / 167

Rate of climb MTOW At SL 1 eng. ft / mn / m / mn : 2005 / 611,12

Rate of climb sea level all engines ft / mn / m / mn : -----

Cruise performance Cruise power in % or rpm : TRQ 115%

Weight @ Toff : 7100 / 3220 Cruise alt. ft / m : 26000 / 7925

Speed at cruise alt. kts/kph ktas (true air speed) : 317 / 587

Performance Maximum operating limit speed Knots type : KIAS

Sea level to 31000 VMO kts / kph : 266 / 493

Above (ft) ----- MMO mach ex.alt/ kts/ kph : -----

Maneuvering speed kts / kph (VA) : 158 / 293

Max structur. cruis. speed kts / kph (VNO) : 266 / 493

Never exceed speed kts / kph (VNE) : 266 / 493

Max landing gear extended speed kts / kph (VLE) : 178 / 330

Max LDG flaps extended speed kts / kph (VFE) : 122 / 226

Max speed sea level kts / kph : 241 / 447

Stall speeds No flaps at weight lbs : 7394 gear up kts (VS1) : 81

Stall speed no flaps at weight kgs : 3354 gear up kph (VS1) : 150

(Stall speed above datas also apply for fixed gear aircraft no flaps config.)

Seats & pressu. Crew (min) : 1 Pax (max vers.) : 5 Total : 6

Pressurization : Yes Cabin altitude at service ceiling (in ft) : 9350

Indicative price (Std avionics,no options, no v.a.t) : 3 014 850 \$

Warranty : Airframe : 7years -Engine : 5 years/ 2500 h -Avionics : 5 years



Direct operating cost /hour : 475,42 \$ / 400 h / year © Socata

Interior view



Cockpit view Main avionics : Garmin ©



Flight load factor limits No flaps: +3,5 g / -1,5 g Full flaps: +2g / no neg g