

# DASH 8-400



**BUILDING ON THE SUCCESS AND POPULARITY** of the Dash 8-100/200/300 aircraft, the Dash 8-400 entered into service with significant enhancements including new engines, a modernized cockpit, and improved aerodynamics. Seating up to 90 passengers, the Dash 8-400 is the highest capacity turboprop on the market today and has the lowest unit cost. In addition to passenger configurations, the Dash 8-400 is highly versatile with the ability to serve as a freighter, firefighting aircraft, missionized aircraft, and more.

With superior performance characteristics, the Dash 8-400 can operate in challenging conditions including on unpaved runways, in hot and high environments, and in remote communities where airport infrastructure may be lacking. It also offers 40% more range and 30% faster cruise speeds compared to conventional turboprops, making it the most productive turboprop on the market. Since its launch, more than 630 Dash 8-400 aircraft have joined the fleets of over 75 owners and operators worldwide.

## EXTERNAL DIMENSIONS



32.83 m / 107 ft 9 in

8.34 m / 27 ft 4 in



28.42 m / 93 ft 3 in



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# DASH 8-400 SPECIFICATIONS

<b>MODEL</b>	Variant	400, 401, 402	
<b>POWERPLANT</b>	Engines	PW150A	
	Normal Take-Off Power	4,580 shp	
	Maximum Take-Off Power	5,071 shp	
	Maximum Cruise Power	3,947 shp	
	Flat-rated to (outside air temperature, sea level (SL))	37.4 °C	
	Propellers	Dowty R408	
<b>INTERIOR</b>	Configuration: Standard (all series)	82 seats @ 30 inch pitch	
	Configuration: Optional	Dual-class 74 seats; variety of single-class up to 90 seats	
	Stowage: Overhead Bin	4.05 m <sup>3</sup>	143 ft <sup>3</sup>
	Stowage: Underseat	3.4 m <sup>3</sup>	120.2 ft <sup>3</sup>
	Baggage Compartment: Volume	Up to 11.6 m <sup>3</sup>	Up to 411 ft <sup>3</sup>
	Baggage Compartment: Loading	Up to 1,724 kg	Up to 3,800 lb
	<b>DESIGN WEIGHT</b>	Maximum Takeoff Weight (MTOW)	29,574 kg
Maximum Landing Weight (MLW)		28,123 kg	62,000 lb
Maximum Zero Fuel Weight		26,308 kg	58,000 lb
Typical Operational Weight Empty		17,885 kg	39,429 lb
Maximum Structural Payload		8,424 lb	18,571 lb
Standard Fuel Capacity		5,318 kg	11,724 lb
<b>PERFORMANCE</b>	Maximum Cruise Speed	667 km/hr	360 kt
	Take-Off Field Length (International Standard Atmosphere (ISA), SL, MTOW)	1,277 m	4,188 ft
	Take-Off Field Length (ISA, SL, 200 nm mission)	1,163 m	3,814 ft
	Landing Field Length (ISA, SL, MLW)	1,268 m	4,160 ft
	Full Passenger Range (102 kg / 225 lb per passenger)	2,037 km	1,100 nm
	Maximum Cruise Altitude	7,620 m	25,000 ft
	Trip Fuel: 200 nm mission	696 kg	1,534 lb
	Trip Time: 200 nm mission	51 min	
	Trip Fuel: 500 nm mission	1,478 kg	3,259 lb
	Trip Time: 500 nm mission	110 min	
<b>NOISE AND EMISSION</b>	Noise Certification Standard (all series)	ICAO Annex 16, Volume 1, Chapter 14	
	Cumulative Margin to Chapter 14 limit, Enhanced High Gross Weight (EHGW)	8.3 EPNdB (25.3 EPNdB margin to Chapter 3 limit)	
	CO <sub>2</sub> Emission: 200 nm mission	2,199 kg	4,847 lb
	CO <sub>2</sub> Emission Intensity per available-seat-mile (ASM)	0.26 lb/ASM	
	CO <sub>2</sub> Emission Intensity per available-seat-kilometre (ASK)	72.4 g/ASK	

NOTE: Airfield performance figures are based on the Basic Gross Weight (BGW) variant. Maximum range figures are based on the Design Weight Increase (DWI). 200 nm and 500 nm missions are based on the Enhanced High Gross Weight (EHGW) variant with 82 passengers.

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