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 620 Dash 8-400 aircraft have joined the fleets of over 70 owners and operators worldwide.

EXTERNAL DIMENSIONS

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Dash 8-400 Aircraft Dimensions & Performance

MODEL	Variant	400, 401, 402			
POWERPLANT	Engine	PW 150A			
	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, Hamilton Standard	R408			
INTERIOR	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^3	143 ft^3		
	Stowage: Underseat	3.83 m^3	135.3 ft^3		
	Baggage Compartment: Volume	Up to 11.6 m^3	Up to 411 ft^3		
	Baggage Compartment: Loading	Up to 1,724 kg	Up to 3,800 lbs		
		BGW/IGW/HGW/EHGW		**UNDER STUDY**	
DESIGN WEIGHT	Maximum Take-Off Weight (MTOW)	29,574 kg	65,200 lbs	30,481 kg	67,200 lbs
	Maximum Landing Weight (MLW)	28,123 kg	62,000 lbs	29,030 kg	64,000 lbs
	Maximum Zero Fuel Weight	26,308 kg	58,000 lbs	27,669 kg	61,000 lbs
	Typical Operational Weight Empty	17,885 kg	4,265 ft	18,030 kg	39,750 lbs
	Maximum Structural Payload	8,459 kg	18,649 lbs	9,639 kg	21,250 lbs
	Standard Fuel Capacity	5,318 kg	11,724 lbs	5,318 kg	11,724 lbs
PERFORMANCE	Maximum Cruise Speed	667 km/hr		360 kts	
	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 lbs per passenger	2,037 km		1,100 nm	
	Maximum Cruise Altitude	7,620 m (Under Study: 8,230 m)		25,000 ft (Under Study: 27,000 ft)	
	Trip Fuel: 200 nm mission	696 kg		1,534 lbs	
	Trip Time: 200 nm mission	51 min			
	Trip Fuel: 500 nm mission	1,478 kg		3,259 lbs	
	Trip Time: 500 nm mission	110 min			
NOISE & EMISSION	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_2 Emission: 200 nm mission	2,199 kg	4,847 lbs		
	CO_2 Emission Intensity per available-seat-mile (ASM)	0.26 lbs/ASM			
	CO_2 Emission Intensity per available-seat-kilometre (ASK)	72.4 g/ASK			

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