

PRELIMINARY INFORMATION

3.0 AIRPLANE PERFORMANCE

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3.2 Payload/Range

3.3 F.A.R. Takeoff Runway Length Requirements

3.4 F.A.R. Landing Runway Length Requirements

PRELIMINARY INFORMATION

3.0 AIRPLANE PERFORMANCE

3.1 General Information

The graph in Section 3.2 provides information on operational empty weight (OEW) and payload, trip range, brake release gross weight, and fuel limits for typical 787-8 airplanes. To use this graph, if the trip range and zero fuel weight (OEW + payload) are known, the approximate brake release weight can be found, limited by fuel quantity.

The graphs in Section 3.3 provide information on F.A.R. takeoff runway length requirements with typical engines at different pressure altitudes. Maximum takeoff weights shown on the graphs are the heaviest for the particular airplane models with the corresponding engines. Standard day temperatures for pressure altitudes shown on the F.A.R. takeoff graphs are given below:

PRESSURE ALTITUDE		STANDARD DAY TEMP	
FEET	METERS	°F	°C
0	0	59.0	15.00
2,000	610	51.9	11.04
4,000	1,219	44.7	7.06
6,000	1,829	37.6	3.11
8,000	2,438	30.5	-0.85
10,000	3,048	23.3	-4.81

For airplanes which are governed by the European Joint Airworthiness Authorities (JAA), the wet runway performance is shown in accordance with JAR-OPS 1 Subpart F, with wet runways defined in Paragraph 1.480(a)(10). Skid-resistant runways (grooved or PFC treated) per FAA or ICAO specifications exhibit runway length requirements that remove some or all of the length penalties associated with smooth (non-grooved) runways. Under predominantly wet conditions, the wet runway performance characteristics may be used to determine runway length requirements, if it is longer than the dry runway performance requirements.

The graph in Section 3.4 provides information on landing runway length requirements for different airplane weights and airport altitudes. The maximum landing weights shown are the heaviest for the particular airplane model.

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DATA TO BE PROVIDED
AT A LATER DATE

For more information about the data on this page please contact us at:

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OR

Fax: 425-237-8281

3.2.1 PAYLOAD/RANGE FOR LONG-RANGE CRUISE

MODEL 787-8 (GENERAL ELECTRIC ENGINES)

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3.2.2 PAYLOAD/RANGE FOR LONG-RANGE CRUISE

MODEL 787-8 (ROLLS-ROYCE ENGINES)

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3.3.1 F.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS - STANDARD DAY, DRY RUNWAY
MODEL 787-8 (GENERAL ELECTRIC ENGINES)

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3.3.2 F.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS
STANDARD DAY +27°F (STD + 15°C), DRY RUNWAY
MODEL 787-8 (GENERAL ELECTRIC ENGINES)

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3.3.3 J.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS – STANDARD DAY, WET RUNWAY
MODEL 787-8 (GENERAL ELECTRIC ENGINES)

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3.3.4 J.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS
STANDARD DAY +27°F (STD + 15°C), WET RUNWAY
MODEL 787-8 (GENERAL ELECTRIC ENGINES)

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3.3.5 F.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS - STANDARD DAY, DRY RUNWAY
MODEL 787-8 (ROLLS-ROYCE ENGINES)

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3.3.6 F.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS
STANDARD DAY + 27°F (STD + 15°C), DRY RUNWAY
MODEL 787-8 (ROLLS-ROYCE ENGINES)

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3.3.7 J.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS – STANDARD DAY, WET RUNWAY
MODEL 787-8 (ROLLS-ROYCE ENGINES)

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3.3.8 J.A.R. TAKEOFF RUNWAY LENGTH REQUIREMENTS
STANDARD DAY + 27°F (STD + 15°C), WET RUNWAY
MODEL 787-8 (ROLLS-ROYCE ENGINES)

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3.4.1 F.A.R. LANDING RUNWAY LENGTH REQUIREMENTS - FLAPS 30
MODEL 787-8, (GENERAL ELECTRIC ENGINES)

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3.4.2 F.A.R. LANDING RUNWAY LENGTH REQUIREMENTS - FLAPS 25
MODEL 787-8 (GENERAL ELECTRIC ENGINES)

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3.4.3 F.A.R. LANDING RUNWAY LENGTH REQUIREMENTS - FLAPS 30

MODEL 787-8 (ROLLS-ROYCE ENGINES)

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3.4.4 F.A.R. LANDING RUNWAY LENGTH REQUIREMENTS - FLAPS 25
MODEL 787-8 (ROLLS-ROYCE ENGINES)