

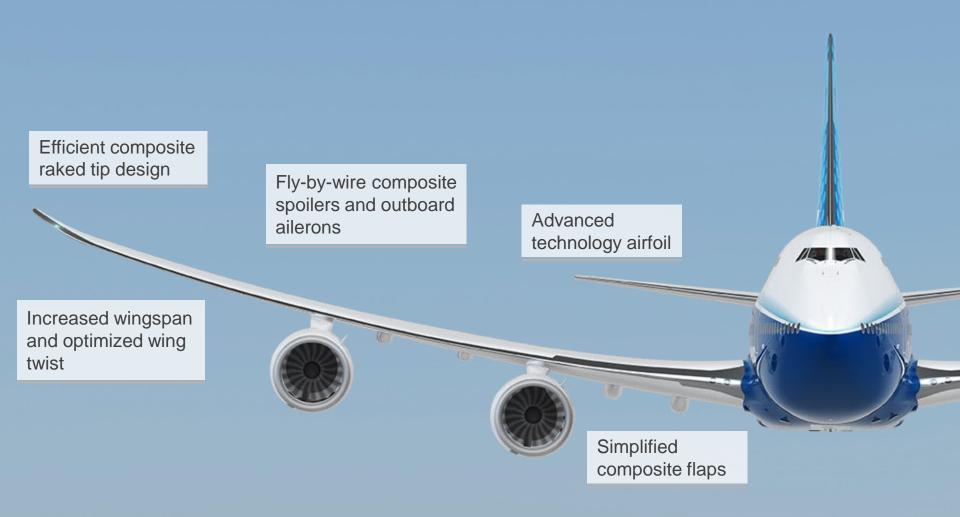


747-81

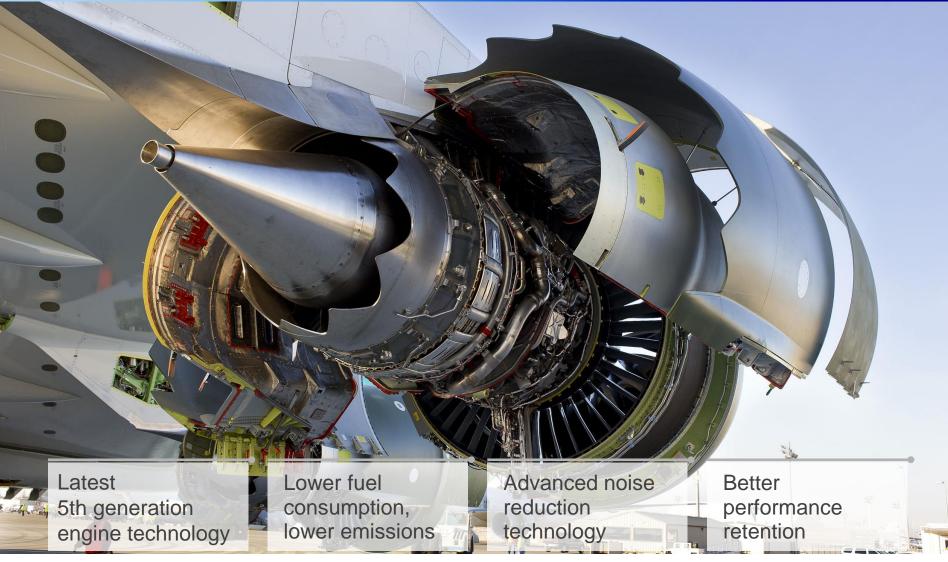
## Advanced technology for improved performance



## 747-8 New wing design inspired by the 787

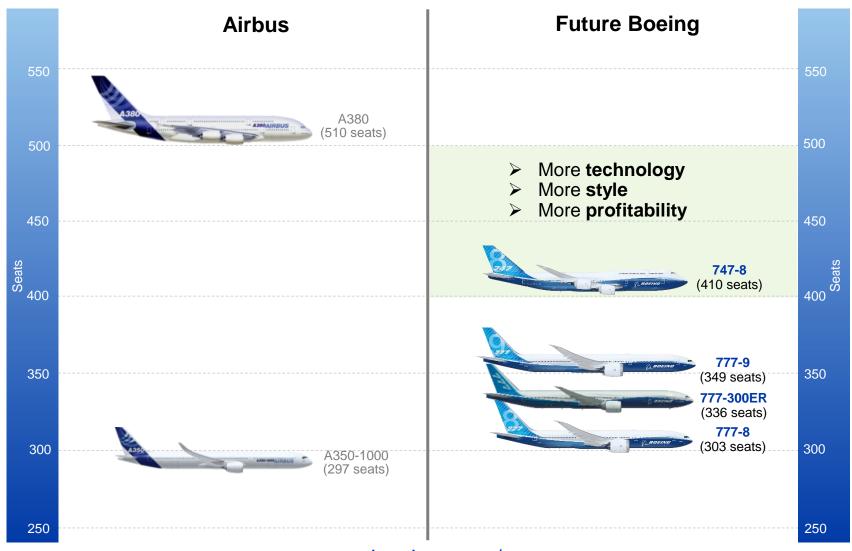


## 787 generation engines improve fuel efficiency

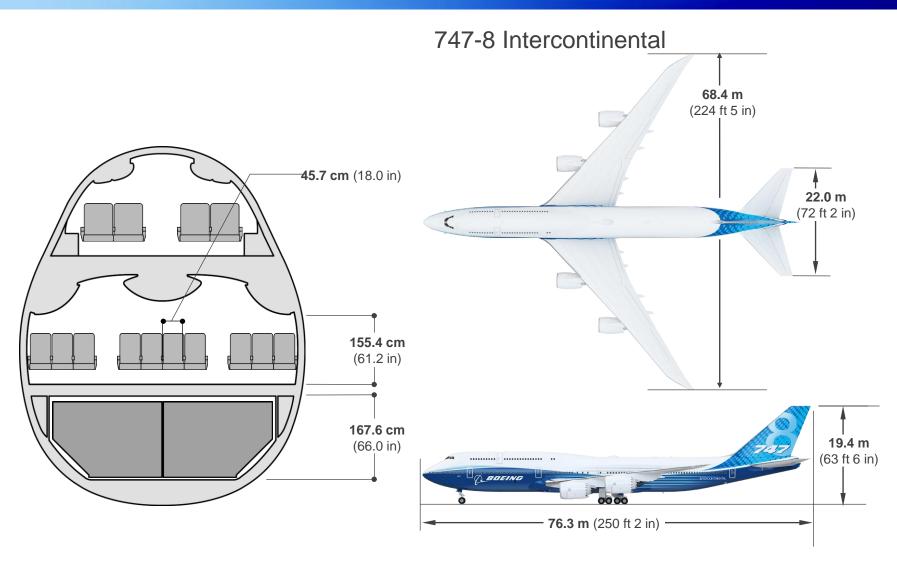


### The Boeing widebody airplane family

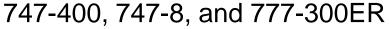
747-8 Intercontinental is in a class of its own

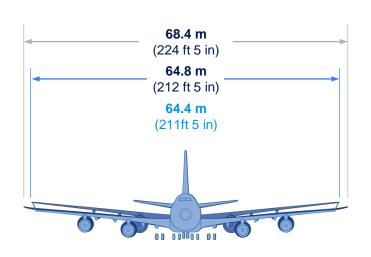


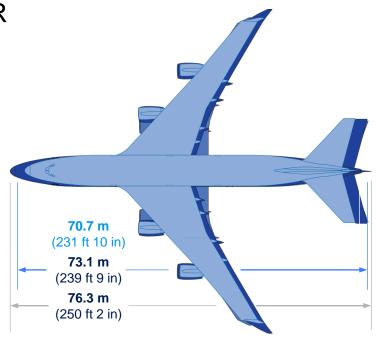
### 747-8 cross section and dimensions



### Size comparison



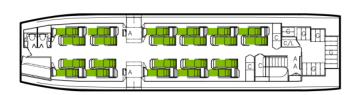




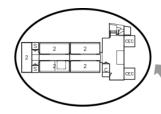


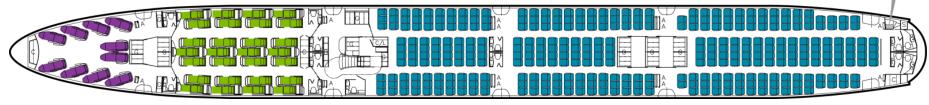
#### 747-8 Intercontinental

10 first-class seats50 business-class seats350 standard-economy seats



Overhead cabin crew rest

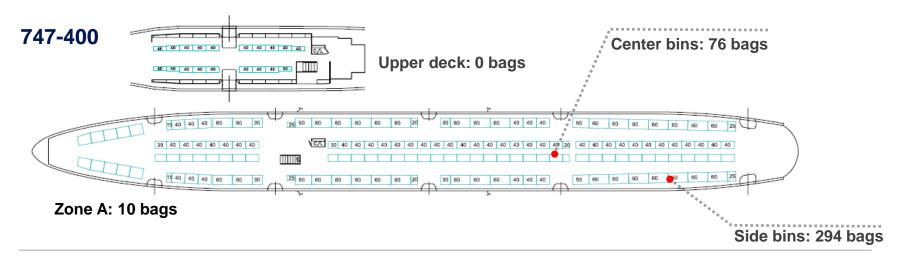


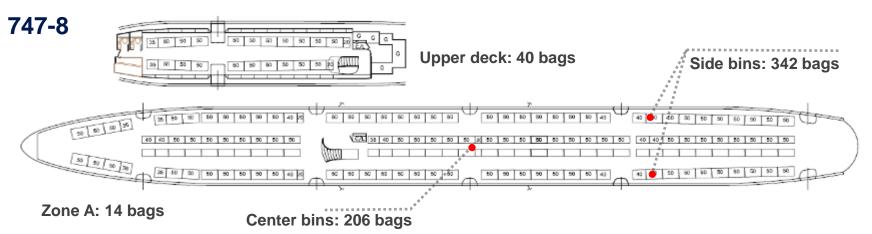


410 passengers

### 747-8 carries 58% more bags overhead than 747-400 StartupBoeing

#### A place for everyone's bag

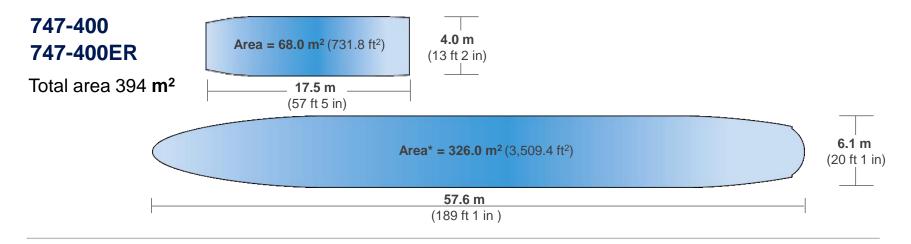




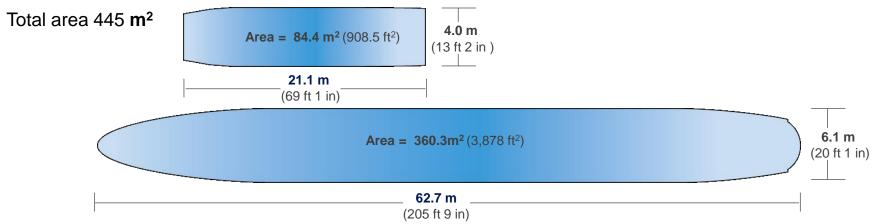
## Increased cabin area for greater passenger comfort

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13% more cabin area than the 747-400

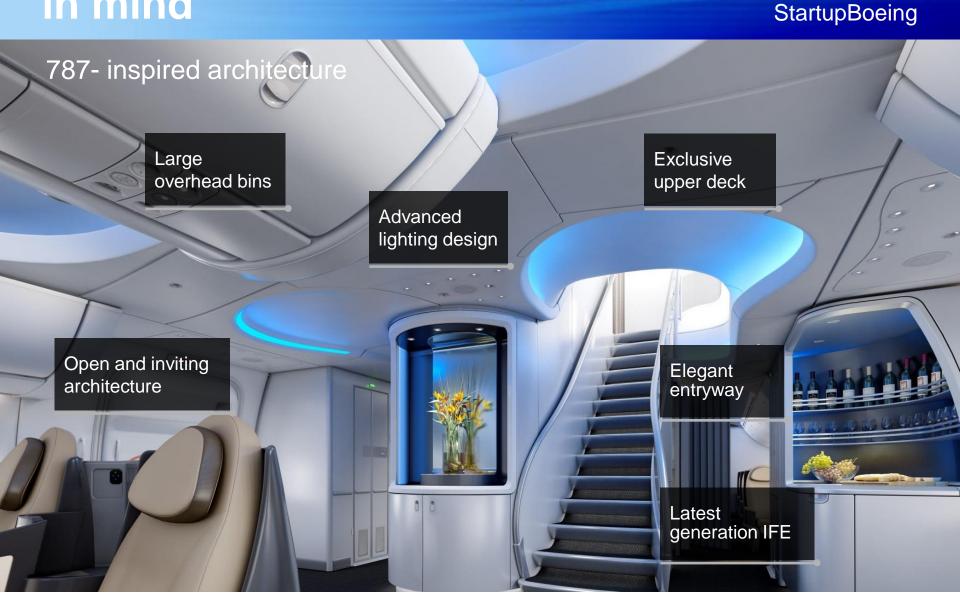


#### 747-8



<sup>\*</sup> Area measured at 25-in off the floor

## Interior design with the passengers in mind



# Unmatched and private first class experience



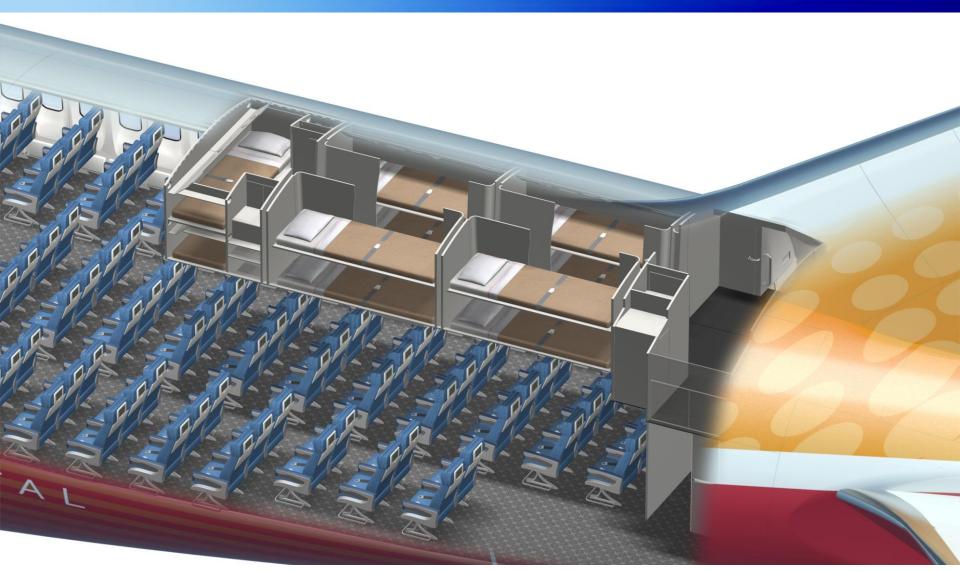






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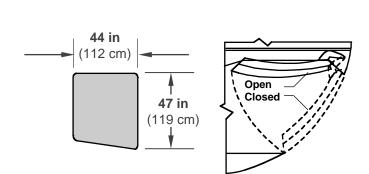
### 747-8 cabin crew rest similar to the 777 StartupBoeing

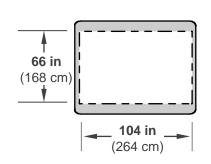


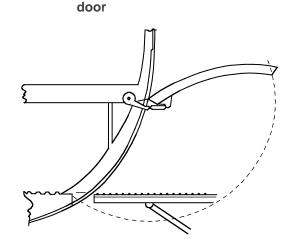
### Lower hold cargo door arrangement

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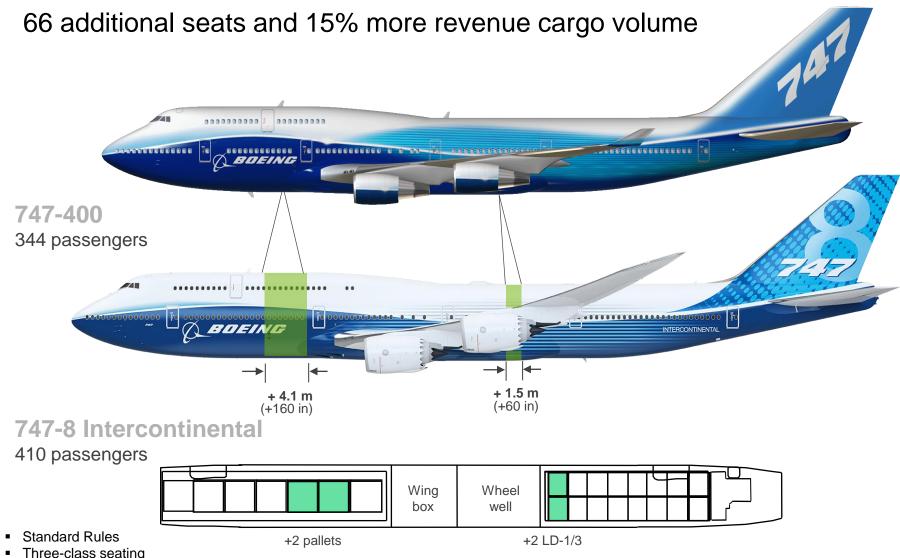


**Bulk cargo compartment door** 

Forward/aft cargo compartment door—view looking forward

### Strategically sized to maximize revenue

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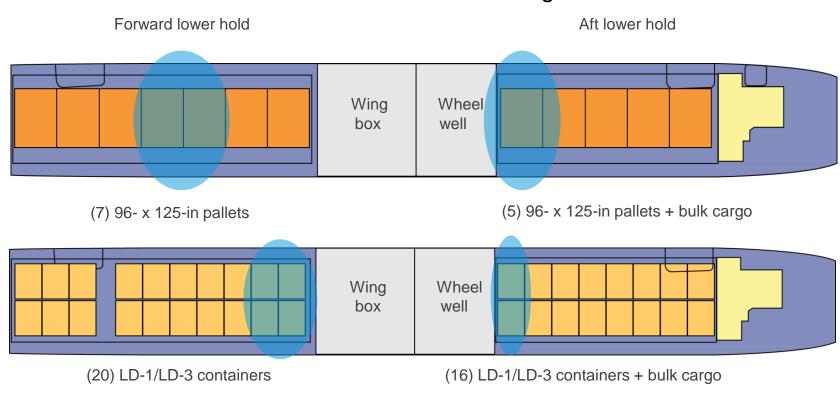


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### Additional cargo volume for more revenue-generating opportunity

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747-8 Intercontinental carries 15% more revenue cargo than the 747-400

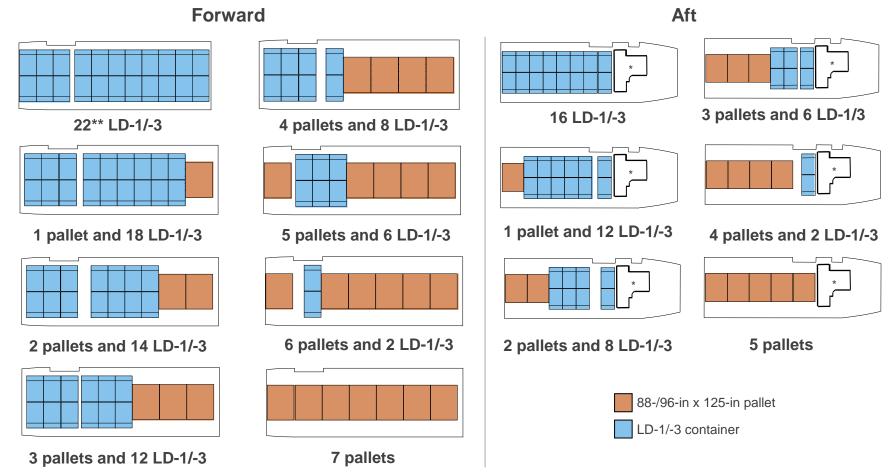


Additional volume versus 747-400

	Forward cargo volume m³ (ft³)	Aft cargo volume m³ (ft³)	Bulk cargo volume, m³ (ft³)	Total cargo volume, m³ (ft³)	Total cargo volume for passenger bags, m³ (ft³)	Revenue cargo volume after passenger bags, m³ (ft³)
747-400	<b>58.8</b> (2,075)	<b>69.4</b> (2,450)	<b>23.6</b> (835)	<b>151.8</b> (5,360)	<b>50.6</b> (1,789)	<b>101.2</b> (3,571)
747-8	<b>82.3</b> (2,905)	<b>79.3</b> (2,800)	<b>14.7</b> (520)	<b>176.3</b> (6,225)	<b>60.4</b> (2,132)	<b>115.9</b> (4,093)

### Flexible cargo arrangements increase revenue capabilities StartupBoeing

#### 747-8 Intercontinental lower hold cargo arrangements



<sup>\*</sup> Bulk cargo is14.7 m3 (520 ft3)

<sup>\*\*</sup> Uses nonstandard load arrangement; standard arrangement is 20 containers

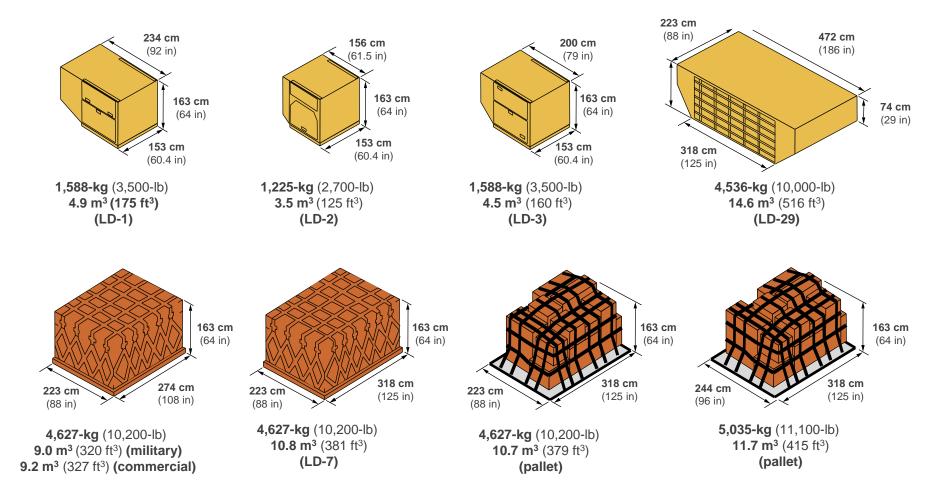
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### 747-8 lower hold capability

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#### Containers and pallets

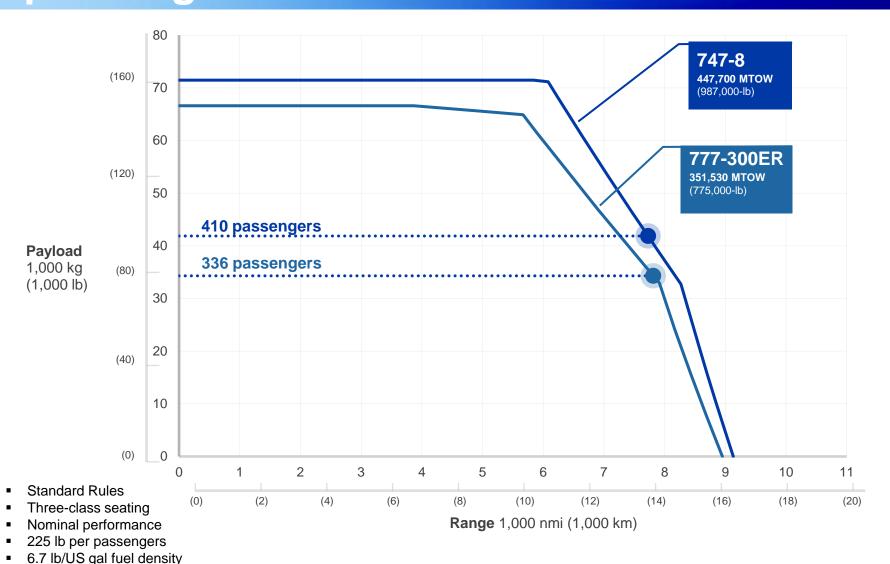


## 747-8 Intercontinental performance summary

		747-8
Passengers	(FC/BC/EC)	410 (10/50/350)
Cargo	pallets/containers <sup>2</sup>	7/16
Engines		GEnx-2B67
Boeing equivalent thrust/Flat-rated temperature	lb/°F	66,500 / 86
Maximum taxi weight	kg (lb)	<b>449,050</b> (990,000)
Maximum takeoff weight	<b>kg</b> (lb)	<b>447,700</b> (987,000)
Maximum landing weight	<b>kg</b> (lb)	<b>312,050</b> (688,000)
Maximum zero fuel weight	<b>kg</b> (lb)	<b>295,300</b> (651,000)
Operating empty weight	<b>kg</b> (lb)	<b>223,850</b> (493,500)
Fuel capacity	L (U.S. gal)	<b>238,610</b> (63,034)
Design range	(MTOW, full passenger payload) nmi (km)	<b>7,730</b> (14,310)
Cruise mach		0.86
Takeoff field length	(SL, 86°F, MTOW) <b>m</b> (ft)	<b>3,260</b> (10,650)
Initial cruise altitude	(MTOW, ISA + 10°C) ft (m)	<b>30,800</b> (9,350)
Landing field length	(MLW) <b>m</b> (ft)	<b>2,000</b> (6,550)
Approach speed	(MLW) kias	152
Fuel burn/seat 3,000 nmi	kg (lb)	<b>138.6</b> (305.6)
Fuel burn/seat 6,000 nmi	<b>kg</b> (lb)	<b>295.7</b> (652.0)

- Standard Rules
- Three class seating

## 747-8 Intercontinental carries more passengers



### 747-8 same range as the A380 with less risk

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Full passenger payload

**747-8** 

**447,700-kg** (987,000-lb) **MTOW** 410 three-class passengers

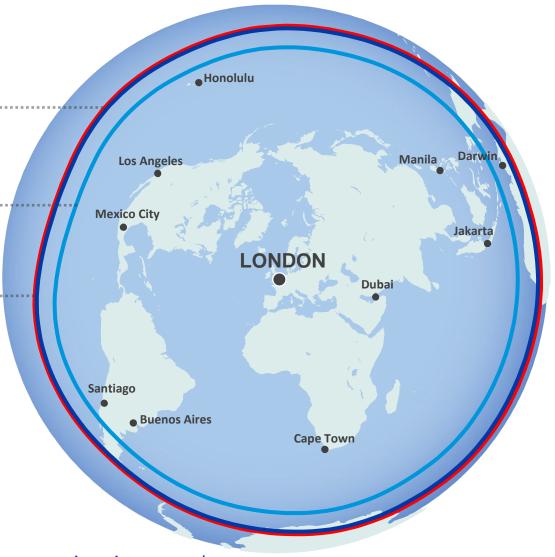
747-400

**396,900-kg** (875,000-lb) **MTOW** 344 three-class passengers

A380-800

**575,000-kg** (1,267,700-lb) **MTOW** 510 three-class passengers

- Standard Rules
- 85% annual winds
- Airways and traffic allowances included
- Range capability from London



## 747-8 advanced flight deck offers operational commonality



## 777 and 747-8 crew scheduling and flexibility

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Instrument format and location are virtually identical



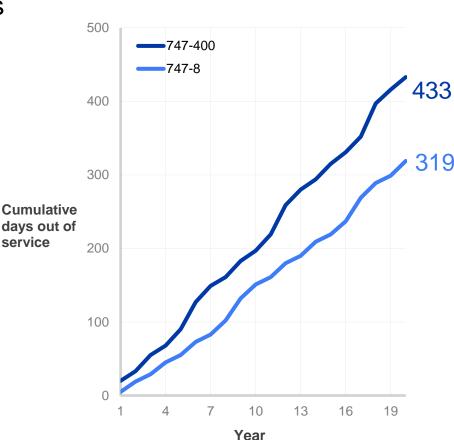
- STAR curriculums can be used for obtaining both Type Ratings.
- Similar Boeing flight deck configuration and flight crew procedures facilitate easy transition.1
- Comparable Takeoff and Landing currency enables crew scheduling flexibility.

### Proven airframe increases check intervals

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747-8 enables greater asset utilizations

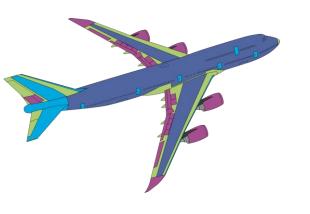
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	<b>747-400</b> original	<b>747-400</b> current	747-8					
A-check interval (typical duration)	<b>750 hrs</b> (2 days)	<b>1,000 hrs</b> (2 days)	<b>1,000 hrs</b> (1 day)					
C-check interval (typical duration)	<b>7,500 hrs 18 mo</b> (12 days)	<b>10,000 hrs 24 mo</b> (12 days)	<b>10,000 hrs 24 mo</b> (9 days)					
D-check interval (typical duration)	6 years (22 days)	8 / 8 / 6 / 6 years (22 days)	8 / 8 / 6 / 6 years (20 days)					



New material and system fine tuning reduces check duration Less maintenance tasks for a more capable airplane

Letter checks noted above for 747-8 are given for reference only. All tasks are parameter-driven.

### 747-8 is cleaner, quieter, and more efficient StartupBoeing







Advanced materials

New GEnX Engines New wing

18% reduction in carbon emissions and fuel used

Below CAEP/6 limits for NOx\*

Quieter than Chapter 4 requirements

