Product Type	**double decker bus**

double decker bus	**Key Specifications of Double-Decker Buses:**
	
	1. Dimensions:
	
	• **Length:** The length of a double-decker bus can vary depending on the model and country, but typically ranges from **10 to 15 meters** (33 to 49 feet).
	• **Width:** Typically about **2.5 meters** (8.2 feet), which is the standard width for buses.
	• **Height:** The height is usually between **4 meters** (13 feet) and **4.5 meters** (14.8 feet), with the upper deck adding extra height compared to a single-decker bus.
	
	2. Passenger Capacity:
	
	• **Seating Capacity:** A typical double-decker bus can carry around **70 to 100 passengers**, depending on the model and configuration.
	  ○ Lower deck seating: Around **35-45 passengers**.
	  ○ Upper deck seating: Around **35-55 passengers**.
	• **Standing Capacity:** Many buses also have standing room, allowing the total capacity to reach higher numbers, especially on routes with high demand.
	
	3. Engine and Powertrain:
	
	• **Engine Type:** Most modern double-decker buses are powered by **diesel engines**, but electric and hybrid versions are becoming increasingly popular.
	  ○ **Diesel Engine:** Typically, these buses use **4- or 6-cylinder diesel engines** for reliable performance.
	  ○ **Electric/Hybrid Options:** Some cities are adopting electric double-decker buses to reduce emissions and increase fuel efficiency.

	• **Horsepower:** Modern engines usually provide between **200 to 300 horsepower**, allowing the bus to reach speeds of around **50-60 mph** (80-100 km/h) on highways. *4. Chassis and Suspension:* • **Chassis:** Double-decker buses often use a **low-frame chassis** design to allow for a taller upper deck. Many are based on heavy-duty truck chassis. • **Suspension:** The suspension is designed for both stability and comfort, with **air suspension** or **leaf springs** on many models to provide a smooth ride. • **Braking System:** These buses are typically equipped with **disc brakes** and **air brakes** for safety, especially when carrying heavy loads or traveling at high speeds. *5. Safety Features:* • **Fire Safety:** Modern double-decker buses are equipped with **fire-resistant materials** and **fire suppression systems**. • **Emergency Exits:** Double-decker buses feature **multiple emergency exits**, including rear doors, front doors, and emergency windows on the upper deck. • **CCTV Surveillance:** Many buses are equipped with **CCTV cameras** to ensure safety and security of passengers. • **Anti-collision Systems:** Some modern buses come with **collision avoidance** technology, including cameras and sensors to assist with driving in tight spaces. • **Wheelchair Access:** Most modern double-decker buses have a **low-floor** design on the lower deck, making them more accessible for people with disabilities. Some have **lifts** or **ramps** to ensure full accessibility for all passengers.

	6. Fuel Efficiency: • **Fuel Efficiency:** Diesel-powered double-decker buses typically have fuel consumption in the range of **7 to 9 miles per gallon** (3 to 3.8 km per liter). Electric and hybrid versions offer improved efficiency, with lower operating costs and reduced emissions. *7. Interior and Features:* • **Seating Configuration:** Seats are usually arranged in rows with **two seats per row** on both the lower and upper decks. Seats can be cushioned for comfort and designed to maximize space. • **Climate Control:** Modern double-decker buses typically have **air conditioning** for both decks to ensure passenger comfort, especially in hot climates. • **Accessibility:** The lower deck is typically designed with **wheelchair spaces** and may have **priority seating** for elderly or disabled passengers. • **Entertainment:** Some buses, especially in tourist cities, offer **audio guides** or **Wi-Fi** for passengers. **USB charging ports** are also becoming more common. *8. Transmission:* • **Transmission Type:** Double-decker buses generally use **manual or automatic transmissions** with a preference for **automated manual transmission (AMT)** in newer models for ease of driving and fuel efficiency.