

Product Type	cement mixer truck
cement mixer truck	<p>General Specifications:</p> <ol style="list-style-type: none"> Truck Type: <ul style="list-style-type: none"> Chassis Type: Heavy-duty truck or semi-truck chassis with a specially designed drum mounted on the rear or front. Axle Configuration: Typically a 6x4 or 8x4 (six or eight wheels) for stability and higher load capacity. Engine: <ul style="list-style-type: none"> Engine Power: The engine power usually ranges from 200 to 500 horsepower depending on the truck's size and load capacity. Fuel Type: Typically diesel, though some models are equipped with alternative fuel options. Transmission: <ul style="list-style-type: none"> Manual or Automatic Transmission: For better control of heavy loads, manual transmissions are common, but automatic transmissions are also available. Mixing Drum: <ul style="list-style-type: none"> Drum Capacity: Cement mixer drums typically hold between 6 to 14 cubic meters of concrete, depending on the truck model and intended use. Drum Rotation Speed: The drum rotates at about 10-15 RPM (rotations per minute) to prevent the concrete from hardening. Drum Material: Made of high-strength steel to withstand abrasion from the concrete mixture. Drum Mixing Mechanism: Usually powered by a

hydraulic system connected to the truck engine or a separate power take-off (PTO).

5. **Weight and Load Capacity:**

- **Gross Vehicle Weight Rating (GVWR):** The GVWR of cement mixer trucks typically ranges between **26,000 to 60,000 lbs** depending on the truck size.
- **Payload Capacity:** This can vary but generally falls between **8 to 15 tons** of concrete.

6. **Dimensions:**

- **Length:** Generally between **20 to 30 feet** depending on the drum size and the chassis configuration.
- **Width:** Typically **8 feet** (96 inches).
- **Height:** Around **10 to 12 feet**.
- **Wheelbase:** Typically between **12 to 20 feet**, depending on the model.

7. **Hydraulic System:**

- **Hydraulic Pump:** Powers the drum's rotation and may also be used to control the discharge chute and other mechanisms.
- **Discharge Chute:** A hydraulically operated chute or conveyor system that is adjustable for directing the concrete to the desired area on the job site.

8. **Concrete Discharge:**

- **Chute Reach:** The discharge chute can typically extend up to **10-12 feet**, with some trucks offering additional chute extensions for easier concrete placement.
- **Discharge Time:** The truck can usually discharge its load

	<p>of concrete in 5-10 minutes, depending on the amount and the system used.</p> <p>9. Safety and Control Features:</p> <ul style="list-style-type: none">○ Tilt Mechanism: Many trucks feature a tilt system for easier unloading of concrete.○ Mixing Control: Some trucks come with electronic or manual controls to adjust the drum's mixing speed or the angle of the discharge chute.○ Safety Features: Include a backup camera, braking system, lights for night operations, and alert systems for the driver and site workers.○ Anti-lock Braking System (ABS): Helps prevent wheel lock-up and improves safety.
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