

mack cv713 specifications Online PDF

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The Mack CV713 is a versatile and robust commercial vehicle that has earned a reputation for durability, performance, and reliability in the heavy-duty trucking industry. Designed primarily for vocational applications such as dump trucks, concrete mixers, and construction haulers, the CV713 combines a powerful engine, sturdy chassis, and advanced features to meet demanding operational needs. To fully understand what makes the Mack CV713 a prominent choice among fleet operators and independent truck owners, it is essential to explore its detailed specifications across various categories including engine performance, dimensions, payload capacity, drivetrain configurations, and safety features. This article provides an in-depth review of the Mack CV713 specifications, offering valuable insights into its capabilities and technical attributes.

Engine Specifications

Engine Type and Model

The Mack CV713 is powered by a robust engine designed for high torque and power output, suitable for heavy-duty tasks. The engine options include:

- Mack E7 Series Diesel Engines
- Mack MP7 or MP8 Engines (depending on model year and configuration)

Engine Displacement and Power

The engine specifications typically include:

- Displacement: Ranging from 10.8 to 15 liters, depending on the engine model
- Power Output:
 - E7 Series: Approximately 330 to 425 horsepower
 - MP7/MP8 Series: Ranging from 325 to 505 horsepower

Torque Specifications

Torque is crucial for heavy-duty applications, and the CV713 offers:

- Maximum torque up to 1,860 lb-ft (for the MP8 engine)
- Torque curves optimized for hauling heavy loads and towing

Fuel System and Emissions

The engine features:

- Common rail direct fuel injection
- Compliance with latest emission standards (such as EPA 2010 or later)
- Optional exhaust after-treatment systems like Diesel Particulate Filters (DPF) and Selective Catalytic Reduction (SCR)

Transmission and Drivetrain

Transmission Options

The Mack CV713 typically offers:

- 6-speed, 9-speed, or 13-speed manual transmissions
- Automated manual transmissions (AMT) options for ease of operation
- Heavy-duty gear ratios designed for maximum torque delivery

Drivetrain Configurations

Depending on the application, configurations include:

- 6x4 or 8x4 axle arrangements
- Single or tandem rear axles
- Differential ratios optimized for load and terrain

Drive Axles and Suspension

The vehicle's axles and suspension systems are designed for durability:

- Heavy-duty front and rear axles with high load ratings
- Leaf spring or air suspension options for load stability and ride comfort

Dimensions and Capacities

Overall Dimensions

The size of the Mack CV713 varies based on configuration, but typical measurements include:

- Length: Approximately 22 to 30 feet (depending on body and chassis configuration)
- Width: Around 96 inches
- Height: Varies with bodywork and suspension type

Wheelbase and Turning Radius

- Wheelbase options: From 12 to 22 feet for maneuverability and load distribution
- Turning radius: Approximately 25 to 35 feet, suitable for urban and construction site operations

Payload and Towing Capacity

The CV713 is built for heavy loads, with specifications such as:

- Gross Vehicle Weight Rating (GVWR): Up to 80,000 lbs or higher in specific configurations
- Payload capacity: Ranges from 20 to 50 tons depending on setup
- Towing capacity: Designed to tow heavy equipment and trailers

Chassis and Body Options

Frame and Construction

The chassis features:

- Heavy-duty steel construction for longevity
- Reinforced frame rails to withstand high stresses
- Customizable mounting points for various body types

Body Configurations

The CV713 can be equipped with:

- Dump bodies
- Concrete mixers
- Flatbeds
- Tankers
- Other vocational bodies

Safety and Technology Features

Braking System

The vehicle includes:

- Air brake systems with ABS (Anti-lock Braking System)
- Spring brake chambers
- Disc or drum brakes depending on configuration

Driver Assistance and Safety Features

Modern versions may include:

- Electronic Stability Control (ESC)
- Backup cameras
- Lane departure warnings
- Advanced telematics systems for fleet management

Electrical and Comfort Features

- Power steering and air conditioning
- Ergonomic driver cabin with adjustable seats
- Modern lighting systems, including LED headlights

Summary of Key Specifications

- **Engine:** Mack E7, MP7, or MP8 series, 10.8-15 liters, up to 505 hp
- **Torque:** Up to 1,860 lb-ft
- **Transmission:** 6, 9, or 13-speed manual, AMT options
- **Axle configurations:** 6x4, 8x4

- **GVWR:** Up to 80,000 lbs
- **Dimensions:** Length 22?30 ft, Width ~8 ft, Height variable
- **Payload capacity:** 20?50 tons
- **Safety features:** ABS, ESC, backup cameras, and more

Conclusion

The Mack CV713 remains a dependable workhorse for various heavy-duty applications, owing largely to its impressive specifications that combine power, durability, and advanced features. Its engine options deliver substantial horsepower and torque, making it suitable for demanding vocational tasks. The range of chassis configurations and body options allows customization to specific operational needs, whether for construction, hauling, or industrial purposes. With safety features aligned with modern standards and technology integrations, the CV713 ensures driver safety and operational efficiency. Understanding its detailed specifications enables fleet managers and operators to make informed decisions, ensuring the vehicle meets the rigorous demands of their work environments. Overall, the Mack CV713's specifications highlight its capability as a leading heavy-duty truck tailored for tough jobs and long-lasting service.

Mack CV713 Specifications: An In-Depth Review of the Heavy-Duty Workhorse

When it comes to heavy-duty hauling and commercial transportation, choosing the right truck is essential for efficiency, durability, and safety. The Mack CV713 stands out as a robust and versatile option designed to meet the demanding needs of logistics, construction, and industrial sectors. In this comprehensive review, we will delve into the specifications of the Mack CV713, exploring its engine performance, chassis configuration, payload capacity, safety features, and more. Whether you're a fleet manager, owner-operator, or enthusiast, understanding the detailed specifications of the CV713 will help you make an informed decision.

Overview of the Mack CV713

The Mack CV713 is a heavy-duty vocational truck built on Mack's proven chassis platform. Recognized for its rugged durability, the CV713 is often employed in applications requiring high payload capacity, such as dump trucks, tanker trucks, and construction vehicles. Its design emphasizes strength, reliability, and ease of maintenance, making it a preferred choice for challenging work environments.

Engine Specifications

Powertrain Overview

The heart of the Mack CV713 is its powerful engine lineup, engineered to deliver maximum torque

and horsepower necessary for demanding tasks. The primary engine options include:

- Mack MP7 Engine
- Mack MP8 Engine

Both engines are designed with robust construction, advanced fuel efficiency, and emissions compliance.

Mack MP7 Engine

- Type: 11.8-liter inline-six turbocharged diesel
- Horsepower: 325-425 hp (depending on configuration)
- Maximum Torque: 1,450-1,700 lb-ft
- Emission Standards: Meets EPA 2010/2021 standards
- Fuel System: Common rail direct injection
- Turbocharging: Variable Geometry Turbocharger (VGT) for enhanced performance

This engine is ideal for applications requiring a balance of power and fuel economy, with a focus on lower operating costs.

Mack MP8 Engine

- Type: 15-liter inline-six turbocharged diesel
- Horsepower: 415-505 hp
- Maximum Torque: 1,860-2,100 lb-ft
- Emission Standards: EPA 2010/2021 compliant
- Fuel System: Common rail direct injection
- Turbocharging: VGT with integrated after-treatment

The MP8 is suited for the most demanding tasks, offering higher horsepower and torque for heavy loads and challenging terrains.

Engine Performance Highlights

- Power Delivery: Smooth and responsive, suitable for various vocational applications
- Fuel Efficiency: Improved through advanced fuel injection and turbocharging technology
- Durability: Designed for extended service life with heavy-duty components

- Maintenance: Service intervals typically range from 15,000 to 25,000 miles, depending on use

Transmission and Drivetrain

Transmission Options

The CV713 is compatible with a range of heavy-duty transmissions, including:

- Manual Transmissions: 10-speed and 13-speed Eaton Fuller models
- Automated Transmissions: Mack mDRIVE automated manual transmission, offering ease of operation and fuel savings

Driveline and Axles

- Axle Configurations: Single or tandem rear axles, depending on application
- Axle Ratios: Customizable to optimize performance, fuel economy, and payload
- Differentials: Heavy-duty limited-slip or locking diffs available for tough terrain

The drivetrain options are designed to maximize power transfer and durability under heavy loads.

Chassis and Frame Specifications

Frame Design

- Material: High-strength steel for maximum durability
- Dimensions: Vary based on model and application, typically ranging from 34 to 40 inches in width
- Length Options: Configurable to meet specific payload or operational requirements

Suspension Systems

- Front Suspension: Parabolic leaf springs or air suspension for better ride quality and load handling
- Rear Suspension: Heavy-duty leaf springs or air suspension options
- Load Capacity: Designed to handle gross vehicle weights (GVW) up to 33,000 lbs or more, depending on configuration

Braking System

- Type: Air drum brakes standard, with optional anti-lock braking system (ABS)
- Service Brakes: Heavy-duty, ensuring reliable stopping power
- Parking Brakes: Spring-loaded drum brakes

The chassis design emphasizes robustness for vocational applications, with reinforced components to withstand harsh conditions.

Payload and Gross Vehicle Weight Ratings (GVWR)

The Mack CV713 is engineered for high payload capacity, with specifications including:

- GVWR: Ranges from approximately 25,000 lbs up to 33,000 lbs, configurable based on chassis and axles
- Payload Capacity: Varies depending on the configuration but generally supports payloads exceeding 15 tons
- Axle Load Limits: Up to 20,000 lbs per axle, depending on setup

This capacity makes the CV713 suitable for heavy-duty hauling, construction, and industrial uses.

Cab and Interior Features

Cab Configurations

- Design: Conventional, with a spacious and ergonomically designed interior
- Seats: Adjustable, with options for air suspension seats
- Visibility: Large windshields and side windows for improved operator awareness
- Access: Wide door openings and steps for ease of entry and exit

Interior Amenities

- **Climate control systems (A/C and heating)**
- **Sound insulation for operator comfort**
- **Advanced instrumentation with digital displays**
- **Connectivity options for communication and diagnostics**

The interior design focuses on driver comfort and operational efficiency, critical for long shifts.

Safety and Advanced Features

Safety Equipment

- ABS and ESC: For enhanced braking stability
- Reverse Warning Systems: Audible alarms and cameras
- Lighting: LED headlights, work lights, and reflective markings
- Structural Integrity: Reinforced cab structure for crash protection

Optional Safety Enhancements

- Forward collision warning systems
- Lane departure alerts
- Telematics for fleet management and diagnostics

These features improve safety for operators and other road users, aligning with modern safety standards.

Conclusion: The Mack CV713 in Perspective

The Mack CV713 embodies the qualities of a true heavy-duty vocational truck: strength, efficiency, and versatility. Its powerful engine options, durable chassis, and high payload capacities make it an ideal choice for demanding industrial applications. The specifications detailed above highlight its suitability for tasks that require resilience and reliability, backed by Mack's reputation for building tough, long-lasting trucks.

Whether you're considering the CV713 for a new fleet or upgrading your existing assets, understanding its specifications helps in assessing its fit for your operational needs. Its combination of robust engine performance, configurable chassis options, and safety features positions it as a competitive player in the heavy-duty truck segment.

In summary, the Mack CV713 offers a compelling package for heavy-duty applications, with specifications tailored to meet the toughest requirements of modern vocational work. Its engineering excellence ensures that operators can depend on it day after day, mile after mile, in the most challenging environments.

Disclaimer: Specifications may vary based on model year, configuration, and regional offerings.

Always consult with a Mack dealer or official documentation for the most accurate and up-to-date information.

Question What is the engine power of the Mack CV713? The Mack CV713 is equipped with a powerful engine that delivers up to 375 horsepower, suitable for heavy-duty hauling and demanding tasks. What are the key dimensions and weight specifications of the Mack CV713? The Mack CV713 features a length of approximately 25 feet, a width of around 8 feet, and a gross vehicle weight rating (GVWR) of up to 33,000 pounds, depending on configuration. Does the Mack CV713 have any notable suspension or axle specifications? Yes, the Mack CV713 typically comes with heavy-duty suspension systems such as Hendrickson axles, designed to support its high payload capacity and ensure durability. What transmission options are available for the Mack CV713? The Mack CV713 offers multiple transmission options, including manual and automated transmissions, optimized for performance and efficiency in commercial applications. Is the Mack CV713 equipped with modern safety and driver comfort features? Yes, the Mack CV713 includes safety features like ABS brakes and modern cab amenities to improve driver comfort and safety during long hauls. What is the fuel capacity of the Mack CV713? The Mack CV713 has a fuel tank capacity of approximately 100 to 150 gallons, depending on the specific configuration and purpose. Are there any notable technological features in the Mack CV713's specifications? The Mack CV713 includes advanced features such as electronic control systems, real-time diagnostics, and optional telematics for fleet management. What types of applications is the Mack CV713 best suited for? The Mack CV713 is ideal for heavy-duty applications like construction, dump trucking, and regional hauling due to its robust build and high-performance specifications.

Related keywords: Mack CV713, truck specifications, Mack CV713 engine, Mack CV713 dimensions, Mack CV713 payload, Mack CV713 weight, Mack CV713 horsepower, Mack CV713 towing capacity, Mack CV713 features, Mack CV713 fuel economy