

John Deere 6600 Combine Specs

john deere 6600 combine specs The John Deere 6600 Combine is a renowned piece of agricultural machinery that has served farmers worldwide for its durability, efficiency, and advanced features during its time. Known for its robust performance in harvesting various crops, the 6600 model is a testament to John Deere's commitment to innovation and quality in agricultural equipment. Understanding the specifications of the John Deere 6600 combine is essential for farmers, equipment enthusiasts, and collectors aiming to evaluate its capabilities, maintenance requirements, or historical significance. In this article, we will delve into the detailed specifications of the John Deere 6600 combine, exploring its engine, capacity, dimensions, and technological features that make it a notable model in the realm of harvesting machinery.

Overview of the John Deere 6600 Combine

The John Deere 6600 was introduced during the late 1970s and became a popular choice among mid-sized farms due to its versatility and reliability. It was part of the 6000 series, which aimed to improve harvesting efficiency and operator comfort. The 6600 model incorporated several technological advancements over its predecessors, including improved threshing systems and more spacious cabins. Its design emphasized ease of maintenance, fuel efficiency, and adaptability to different crops and harvesting conditions.

Engine Specifications

Engine Type and Power

The heart of the John Deere 6600 combine is its engine, which provides the necessary power for efficient harvesting.

1. **Engine Model:** John Deere 4045T
2. **Engine Type:** 4-cylinder, turbocharged diesel
3. **Displacement:** 4.5 liters (274 cubic inches)
4. **Maximum Power Output:** Approximately 105-115 horsepower (HP), depending on the specific configuration and market regulations
5. **Cooling System:** Liquid-cooled

This engine was well-regarded for its durability, fuel efficiency, and ease of maintenance, making it suitable for extended harvesting seasons.

Fuel Capacity and Consumption

Understanding the fuel capacity and consumption is vital for planning efficient harvest operations.

1. **Fuel Tank Capacity:** Around 60-70 gallons (227-265 liters)
2. **Fuel Consumption:** Varies based on crop density and operating conditions, but typically ranges between 3-5 gallons per hour (11-19 liters/hour)

These specifications allowed the combine to operate for extended periods without frequent refueling, enhancing productivity.

Threshing and Separating System

Threshing Drum and Concave

The threshing system is central to a combine's performance, affecting grain quality and throughput.

1. **Threshing Drum Diameter:** Approximately 20-24 inches (50-61 cm)
2. **Concave Adjustment:** Manual and hydraulic adjustments for different crops
3. **Thresher Type:** Rotor/axial flow (depending on configuration), designed for gentle yet effective separation

Grain Handling Capacity

Capacity determines how much crop the machine can process efficiently.

1. **Grain Tank Capacity:** Around 10-12 bushels (approximately 340-410 liters)
2. **Unloading Auger Capacity:** Up to 4-5 bushels per minute (136-170 liters per minute)
3. **Throughput:** Capable of harvesting approximately 10-15 acres per hour under optimal conditions

These features contributed to the efficient harvest of large fields with minimal downtime.

Header and Feeding System

Header Width and Options

The versatility of the John Deere 6600 was partly due to its adaptable header options.

1. **Standard Header Width:** Ranged from 13 to 18 feet (4 to 5.5 meters), depending on the crop and harvest needs
2. **Header Types:** Grain, flex, and corn headers available to optimize performance for different crops

Feeding System

Efficient crop feeding into the threshing drum is crucial.

1. **Feeder House:** Variable-speed, hydraulic-driven system for smooth crop intake
2. **Auger and Conveyor:** Designed to minimize crop loss and ensure uniform feed

Dimension and Weight

Details regarding the size and weight of the John Deere 6600 are essential for transportation and storage considerations.

1. **Overall Length:** Approximately 20-22 feet (6-6.7 meters)
2. **Width (with standard header):** 13-18 feet (4-5.5 meters)
3. **Height:** Around 10-12 feet (3-3.7 meters)
4. **Weight:** Typically between 15,000 and 18,000 pounds (6,800-8,200 kg)

These dimensions are approximate and vary depending on the specific header and configuration.

Operational Features and Technologies

Cab and Operator Comfort

The 6600 was equipped with features aimed at improving operator experience.

1. **Cab Design:** Spacious with good visibility
2. **Controls:** Ergonomically placed for ease of operation
3. **Air Conditioning:** Available as an option in later models

Technological Enhancements

While the 6600 was largely mechanical, it incorporated some technological features.

1. **Hydraulic Systems:** For header height adjustment and reel speed control
2. **Grain Loss Monitoring:** Basic sensors for minimizing crop loss
3. **Maintenance Indicators:** To alert operators of service needs

Maintenance and Serviceability

Understanding the maintenance requirements helps ensure longevity and optimal performance.

1. **Engine Oil Capacity:** Approximately 7-8 quarts (6.6-7.6 liters)
2. **Cooling System Maintenance:** Regular checks of coolant levels and radiator cleaning
3. **Greasing Points:** Multiple lubrication points for chains, bearings, and moving parts
4. **Filter Replacements:** Air, oil, and fuel filters are accessible for routine servicing

Regular maintenance is key to preserving the efficiency and lifespan of the combine.

Summary of Key Specs

To encapsulate the essential specifications:

1. **Engine:** John Deere 4045T, 105-115 HP
2. **Grain Tank Capacity:** 10-12 bushels
3. **Header Width:** 13-18 feet
4. **Overall Length:** 20-22 feet
5. **Weight:** 15,000-18,000 pounds
6. **Unloading Capacity:** 4-5 bushels per minute

These specifications highlight the balance of power, capacity, and versatility that made the John Deere 6600 a favored model among farmers.

Conclusion

The John Deere 6600 combine remains a significant model in the history of agricultural machinery. Its robust engine, efficient threshing system, adaptable headers, and operator-friendly features contributed to its reputation for durability and productivity. While technology has advanced considerably since its introduction, the 6600's specifications reflect a well-designed machine capable of handling a variety of harvesting tasks with efficiency. Whether for historical interest, restoration, or operational planning, understanding the detailed specs of the John Deere 6600 provides valuable insight into its capabilities and legacy in farming machinery.

John Deere 6600 Combine Specs: An In-Depth Review The John Deere 6600 combine is a legendary piece of agricultural machinery that has earned its reputation among farmers and equipment enthusiasts for its robust performance, innovative features, and reliable operation. As part of John Deere's 6000 series, the 6600 model has been celebrated for its efficiency in harvesting a variety of crops, including wheat, corn, soybeans, and

barley. This article delves into the comprehensive specifications of the John Deere 6600 combine, exploring its engine performance, harvesting capacity, features, design, and overall usability to help prospective buyers and agricultural professionals understand what makes this machine a noteworthy investment.

Overview of the John Deere 6600 Combine

The John Deere 6600 combine was produced during the late 1970s and early 1980s, representing a pivotal era in combine technology. Known for its durability and straightforward design, it became a favorite among farmers who needed a reliable machine capable of handling large-scale harvesting operations. Its design emphasizes ease of maintenance, fuel efficiency, and adaptability to various crops, making it a versatile choice for diverse farming needs.

Engine Specifications

Engine Type and Power Output

The core of the John Deere 6600 combine is its engine, which provides the power necessary for efficient harvesting. The engine specifications are as follows: - Engine Model: John Deere 4045T - Engine Type: Turbocharged four-cylinder diesel engine - Displacement: 4.5 liters - Horsepower: Approximately 125-145 HP (varies based on model year and configuration) - Rated RPM: 2200 RPM This engine design offers a balanced combination of power and fuel economy, enabling the combine to operate efficiently over long harvesting periods without excessive fuel consumption.

Performance and Fuel Efficiency

The 4045T engine is renowned for its durability and consistent performance. It features: - Good torque delivery at low RPMs, essential for heavy-duty harvesting tasks. - Turbocharging for enhanced power output and efficiency, especially during challenging conditions. - Compatibility with various fuel qualities, allowing flexibility in different regions. Pros: - Reliable engine with proven performance history. - Good fuel economy relative to its power output. - Ease of maintenance due to straightforward engine design. Cons: - Older engine technology may lack some modern emissions controls. - Parts availability could be limited depending on the region and age of the machine.

Harvesting Capacity and Performance

Grain Tank Capacity

The grain tank capacity of the John Deere 6600 is a critical factor in determining productivity: - Capacity: Approximately 6 to 8 bushels (around 200-270 liters) - The size allows for continuous operation with fewer stops for unloading, increasing efficiency during large harvests.

Threshing and Separation

The combine uses a rotor-based threshing system, which was advanced for its time: - Threshing System: Rotor with concaves - Adjustability: The rotor speed and concave clearance are adjustable to optimize threshing for different crop types. - Efficiency: The rotor design reduces grain damage and improves separation quality.

Cutting Width and Throughput

- Header Width: Typically equipped with 13-15 feet (4-4.6 meters) headers. - Throughput Rate: Capable of harvesting approximately 3-5 acres per hour, depending on crop conditions and operator skill. - Feeding Mechanism: Augers and conveyor belts ensure smooth crop flow into the threshing drum. Pros: - Adequate capacity for medium to large farms. - Flexible adjustment options for crop variability. - Good throughput efficiency for its era. Cons: - Smaller grain tank compared to modern combines, requiring more frequent unloading. - Less advanced threshing technology than contemporary models.

Drive and Transmission System

The John Deere 6600 features a hydrostatic or mechanical drive system (depending on the model year), offering: - Power Transmission: Typically via a hydrostatic drive or a belt-driven system. - Drive Wheels: Large rubber tires providing good traction. - Speed Control: Variable speed settings allow the operator to adjust harvesting speed based on crop conditions. Features: - Smooth acceleration and deceleration. - Ability to operate at different speeds for optimal performance. Pros: - Flexible speed management improves harvesting efficiency. - Good traction and stability during operation. Cons: - Hydrostatic systems can be more maintenance-intensive. - Older transmission technology may not match modern efficiencies.

Cab and Operator Comfort

The operator's cabin on the John Deere 6600 is relatively basic compared to modern models but was designed with user comfort in mind for its time: - Visibility: Large windows for clear sightlines. - Controls: Mechanical levers for throttle, header height, and other functions. - Comfort Features: Limited padding and ventilation; no air conditioning in early models, though some later versions included basic amenities. Pros: - Simple layout makes operation straightforward. - Good visibility enhances safety and precision. Cons: - Limited comfort features; long hours may be tiring. - Noise levels can be high without modern soundproofing.

Maintenance and Durability

The John Deere 6600 is celebrated for its ruggedness: - Ease of Maintenance: Accessible engine components and straightforward design simplify repairs. - Durability: Constructed with high-quality materials, many units still operate effectively decades after manufacture. - Parts Availability: Replacement parts are generally available through vintage equipment suppliers and aftermarket vendors. Pros: - Long operational life with proper maintenance. - Cost-effective repairs due to simple design. Cons: - Older technology may require more frequent repairs. - Lack of modern diagnostic tools complicates troubleshooting.

Additional Features and Attachments

- Header Options: Compatible with various headers for different crops. - Feeding Systems: Augers and conveyor belts can be customized. - Straw Management: Adjustable chaff and straw choppers for residue management.

Conclusion and Final Thoughts

The John Deere 6600 combine remains a symbol of agricultural innovation and durability. While it may lack some of the technological advancements found in modern combines—such as GPS guidance, computerized controls, and advanced threshing systems—it offers a reliable, straightforward harvesting solution rooted in decades of proven performance. Key Takeaways: - The engine provides reliable power with moderate fuel economy. - Its capacity and throughput are well-suited for medium-sized farms. - Maintenance is manageable, and parts are accessible. - The operator environment is functional but lacks modern comfort features. Pros: -

Durable and dependable. - Economical to operate and maintain. - Versatile with multiple crop handling options.

Cons: - Outdated technology compared to contemporary models. - Smaller grain tank limits continuous operation. - Less operator comfort and convenience features.

In conclusion, the John Deere 6600 combine stands as a testament to classic agricultural engineering. For those seeking a vintage machine capable of reliable performance and willing to invest in proper maintenance, the 6600 offers a compelling option. Its specs reflect a balance of power, efficiency, and simplicity that continues to resonate with vintage equipment enthusiasts and small to medium-scale farmers alike.

Questions & Answers About john deere 6600 combine specs

No	Question	Answer
1	What is the engine horsepower of the John Deere 6600 combine?	The John Deere 6600 combine is equipped with a 6-cylinder diesel engine producing approximately 130 to 150 horsepower, depending on the specific model and configuration.
2	What is the grain tank capacity of the John Deere 6600 combine?	The John Deere 6600 typically features a grain tank capacity of around 220 to 300 bushels, allowing for extended harvesting without frequent unloading.
3	What are the key harvesting widths of the John Deere 6600 combine?	The combine can be fitted with various headers, commonly ranging from 13 to 20 feet, depending on the crop and operational needs.
4	Does the John Deere 6600 have any notable technological features?	Yes, the 6600 includes features like automatic crop setting adjustments, moisture sensors, and basic yield monitoring capabilities to optimize harvesting efficiency.
5	What is the fuel capacity of the John Deere 6600 combine?	The fuel tank capacity is approximately 60 to 80 gallons, supporting long hours of operation in the field.
6	Is the John Deere 6600 suitable for different crop types?	Yes, the 6600 is versatile and can harvest a variety of crops such as wheat, corn, soybeans, and oats, with appropriate header attachments.
7	What are the dimensions and weight of the John Deere 6600 combine?	The combine's length is about 25-30 feet, width varies with header size, and it weighs approximately 15,000 to 20,000 pounds, depending on configuration and attachments.

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