

Bobcat 751 Specs

bobcat 751 specs are essential information for construction professionals, equipment operators, and equipment enthusiasts looking to understand the capabilities and features of this popular compact loader. The Bobcat 751 is renowned for its durability, versatility, and performance in various construction, landscaping, and agricultural applications. Whether you're considering purchasing, renting, or simply want to know more about its technical details, this comprehensive guide will cover all the crucial specifications and features of the Bobcat 751.

Overview of Bobcat 751

The Bobcat 751 is a compact loader that was manufactured by Bobcat Company, a leading manufacturer of construction equipment. Known for its robust design and reliable performance, the 751 model has been a favorite among small to medium-sized projects. It features a compact footprint, making it ideal for working in tight spaces while still offering impressive lifting capabilities.

Engine Specifications

A critical component of any loader is its engine. The Bobcat 751 is equipped with a powerful yet efficient engine designed for durability and performance.

Engine Model and Type

1. Model: Kubota D1703
2. Type: 3-cylinder, diesel-powered engine
3. Cooling System: Liquid-cooled
4. Fuel System: Direct injection

Engine Power and Performance

1. Gross Power: Approximately 22.5 horsepower (16.8 kW)
2. Net Power: Slightly less, around 20-22 HP depending on the specific model year and configuration
3. Displacement: 1.7 liters (103.7 cubic inches)
4. Cooling Capacity: Adequate for sustained operation under load

Operational Capabilities

Understanding the operational limits and capabilities of the Bobcat 751 helps operators plan their work and ensure safety and efficiency.

Rated Operating Capacity

1. Lift Capacity: Around 1,250 pounds (567 kg)
2. Operating Load Capacity: Up to 1,015 pounds (460 kg) at full height
3. Note: Always refer to the specific model's load chart for precise figures

Lift Height and Reach

1. Maximum Lift Height: Approximately 7 feet 8 inches (2.34 meters)
2. Maximum Reach at Full Height: About 36 inches (91 cm)

Bucket Capacity and Dimensions

1. Standard Bucket Capacity: 0.4 to 0.6 cubic yards
2. Bucket Width Options: Typically 60-78 inches, depending on attachment
3. Maximum Bucket Width: Around 78 inches for standard models

Physical Dimensions and Weight

The size and weight of the Bobcat 751 influence its maneuverability and transportability.

Dimensions

1. Length (with standard bucket): Approximately 10 feet 8 inches (3.25 meters)
2. Width: Around 4 feet 8 inches (1.42 meters)
3. Height: About 6 feet 6 inches (1.98 meters)

Weight

1. Operating Weight: Approximately 3,200 pounds (1,450 kg)

Traction and Axle Specifications

Proper traction and axle configuration are vital for stability and performance during loading and lifting tasks.

Axle Type

1. Type: Mechanical drive with planetary gears
2. Drive System: 4-wheel drive for enhanced traction

Wheels and Tires

1. Standard Tire Size: 10-16.5 or 12-16.5 depending on the model
2. Tire Type: Radial or bias ply, suitable for various terrains

Hydraulic System

Hydraulics power the lifting and attachment functions of the Bobcat 751, making it versatile for different attachments.

Hydraulic Pump

1. Type: Gear pump
2. Flow Rate: Approximately 8 gallons per minute (30.3 L/min)

Hydraulic Capacity

1. Hydraulic System Operating Pressure: Around 2,200 psi (15.2 MPa)
2. Hydraulic Cycles: Fast and responsive for efficient operation

Attachments Compatibility

1. Bearings: Compatible with buckets, forks, grapples, and other attachments
2. Quick Attach System: Available for easy switching between tools

Additional Features and Considerations

Beyond raw specifications, several features enhance the usability and safety of the Bobcat 751.

Operator Comfort and Controls

1. Comfortable seat with adjustable settings
2. Joystick or foot pedal controls for easy operation
3. Visibility: Large windows and ergonomic design for clear sightlines

Safety Features

1. Rollover protective structure (ROPS)
2. Falling object protective structure (FOPS)
3. Backup alarm and lights

Maintenance and Serviceability

1. Accessible engine and hydraulic components
2. Easy-to-reach filters and fluid ports
3. Regular maintenance schedules to extend lifespan

Performance Summary

The Bobcat 751 strikes a balance between power, size, and versatility. Its compact design allows for operation in confined spaces, while its robust engine and hydraulic systems provide reliable performance for lifting, loading, and other tasks. - Engine: Kubota D1703, 3-cylinder diesel - Rated Capacity: ~1,250 pounds - Lift Height: ~7.8 feet - Operating Weight: ~3,200 pounds - Dimensions: Approximately 10.8 ft long, 4.8 ft wide, 6.6 ft high - Traction: 4-wheel drive with suitable tires

Conclusion

Understanding the **bobcat 751 specs** is crucial for maximizing its efficiency and ensuring safe operation. Its combination of engine power, lifting capacity, and maneuverability makes it an invaluable asset for construction, landscaping, and agricultural tasks. When considering the Bobcat 751, always refer to the specific model year's detailed specifications and load charts to ensure it meets your project requirements. For optimal performance, regular maintenance and proper attachment use are recommended. Whether you're operating in tight urban environments or open rural areas, the Bobcat 751 remains a dependable choice for versatile compact loading needs. Keywords: Bobcat 751 specs, Bobcat 751 engine, Bobcat 751 dimensions, Bobcat 751 hydraulic system, Bobcat 751 load capacity, compact loader specs, Bobcat 751 review

Bobcat 751 Specs: An In-Depth Analysis of the Classic Compact Loader

The Bobcat 751 specs have long been a point of interest for construction professionals, equipment enthusiasts, and small business owners seeking a reliable and versatile compact loader. As part of Bobcat's renowned line of skid-steer loaders, the 751 model has established itself as a durable workhorse capable of handling a wide variety of tasks. Whether you're considering purchasing a used unit or simply want to understand its capabilities, a comprehensive understanding of the Bobcat 751 specifications can help inform your decision and maximize its utility.

Introduction to the Bobcat 751

The Bobcat 751 was produced during the late 1990s and early 2000s, representing a significant milestone in Bobcat's lineup of compact loaders. Known for its robust construction and user-friendly features, the 751 has become a reliable choice for projects requiring maneuverability, power, and efficiency in tight spaces. To truly appreciate what the Bobcat 751 offers, let's delve into its detailed specifications.

Overview of Key Specifications

The Bobcat 751 specs encompass various aspects of its design, including engine performance, lift capacity, dimensions, and operational features. These specifications are crucial for operators to understand the machine's capabilities and limitations.

Engine Specifications

Engine Model and Power

1. Engine Type: Kubota D1403, 4-cylinder diesel engine
2. Gross Power: Approximately 34.3 horsepower (25.6 kW)
3. Net Power: Slightly less, around 31-33 horsepower, depending on the specific configuration and testing standards

Engine Features

1. Water-cooled diesel engine designed for fuel efficiency and durability
2. Turbocharged versions available in some configurations
3. Meets emission standards relevant during its production period

Operating Capacity & Load Limits

Rated Operating Capacity

1. Rated Operating Capacity (ROC): 1,050 lbs (476 kg)
2. This is the maximum weight the machine can safely lift at full height without compromising stability

Tipping Load

1. Tipping Load: Approximately 2,100 lbs (954 kg)
2. The tipping load indicates the maximum load the machine can handle before tipping over during lifting

Breakout Force

1. Breakout Force: Around 2,000 lbs (907 kg)
2. This measures the force exerted at the bucket edge during digging or lifting

Hydraulic System Specifications

1. Hydraulic Pump Flow Rate: Approximately 12.3 gallons per minute (46.5 liters per minute)
2. Hydraulic System Operating Pressure: 3,000 psi (20.7 MPa)
3. Hydraulic Capacity: Sufficient for attachments like buckets, forks, and augers

Dimensions and Weight

Overall Dimensions

1. Length: About 93 inches (236 centimeters)
2. Width: 55 inches (139.7 centimeters) (including bucket)
3. Height: 67 inches (170 centimeters) to the top of the cab

Operating Weight

1. Operating Weight: Approximately 4,200 lbs (1,905 kg)
2. This weight offers a good balance between stability and maneuverability, making it suitable for a variety of terrains

Ground Clearance and Turning Radius

1. Ground Clearance: Approximately 8 inches (20.3 centimeters)
2. Turning Radius: Roughly 9.5 feet (2.9 meters), allowing for tight turns in confined spaces

Performance & Operational Features

Travel Speed

1. Maximum Travel Speed: Approximately 7.5 miles per hour (12 km/h)
2. Sufficient for quick repositioning on job sites

Hydraulic Flow & Attachment Compatibility

1. Designed to operate a wide range of attachments, including buckets, forks, brushes, and augers
2. Hydraulic flow rate supports efficient attachment operation

Control Features

1. Simple joystick or lever controls for ease of operation
2. Optional cab enclosures and ROPS (Roll-Over Protective Structure) for safety

Attachments and Versatility

The Bobcat 751's specifications support a versatile array of attachments, making it suitable for various tasks:

1. Buckets: Standard, light material, and specialized buckets
2. Augers: For drilling holes
3. Forks: For pallet handling

- 4. Grapples: For debris removal
- 5. Hydraulic hammers: For breaking concrete or rocks

Understanding the machine’s hydraulic capacity and lift limits is essential when selecting attachments to ensure safe and efficient operation.

Maintenance and Durability

The Bobcat 751's rugged design and straightforward maintenance procedures contribute to its longevity. Key points include:

- 1. Easy access to engine and hydraulic components
- 2. Durable steel construction for heavy-duty use
- 3. Regular oil changes and filter replacements essential for longevity

Summary of the Bobcat 751 Specs in a Nutshell

Feature Specification
Engine Kubota D1403, 34.3 HP diesel
Operating Capacity 1,050 lbs (476 kg)
Tipping Load 2,100 lbs (954 kg)
Breakout Force 2,000 lbs (907 kg)
Hydraulic Flow Rate 12.3 GPM
Operating Weight 4,200 lbs (1,905 kg)
Dimensions (L x W x H) 93" x 55" x 67"
Max Travel Speed 7.5 mph
Ground Clearance 8"

Final Thoughts

The Bobcat 751 specs highlight a compact, powerful, and versatile machine capable of handling a broad scope of construction, landscaping, and industrial tasks. Its robust engine, respectable lift capacity, and hydraulic capabilities make it a favorite among users needing a dependable loader in tight spaces. While newer models may offer advanced features and increased efficiencies, the Bobcat 751 remains a testament to durability and practicality.

When considering the Bobcat 751 for your project, always ensure that its specifications align with your operational needs, especially regarding load capacities, attachment compatibility, and site conditions. Proper maintenance and understanding of its capabilities will ensure that this classic loader continues to serve effectively for years to come.

In conclusion, the Bobcat 751 is an iconic piece of equipment whose specifications have stood the test of time, offering a balance of power, agility, and reliability. Whether for small-scale construction or landscaping projects, understanding its detailed specs ensures you can leverage its full potential while maintaining safety and efficiency on your job site.

Questions & Answers About bobcat 751 specs

No	Question	Answer
1	What is the maximum lifting capacity of the Bobcat 751 skid-steer loader?	The Bobcat 751 has a maximum rated operating capacity of approximately 1,050 pounds (476 kg).
2	What are the engine specifications for the Bobcat 751?	The Bobcat 751 is equipped with a Kubota D722 diesel engine producing around 15.5 horsepower, designed for durability and efficiency.
3	What are the dimensions and weight of the Bobcat 751?	The Bobcat 751 measures approximately 70 inches in length, 43 inches in width, and 77 inches in height, with a operating weight of about 2,500 pounds.
4	What attachments are compatible with the Bobcat 751?	The Bobcat 751 supports a variety of attachments including buckets, forks, augers, and trenchers, making it versatile for different tasks.
5	What is the typical fuel consumption and efficiency of the Bobcat 751?	The Bobcat 751's diesel engine offers moderate fuel efficiency, averaging around 1.5-2 gallons per hour depending on workload and operation conditions.

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