GENERAL

310c john deere backhoe specs

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Introduction

When it comes to heavy duty excavation, the **John Deere 310C** backhoe remains a top choice for contractors, landscapers, and municipal crews alike. Its blend of power, versatility, and reliability makes it a staple on sites ranging from residential driveways to large construction projects. This guide dives deep into the **310C John Deere backhoe specs**—covering everything from engine performance and hydraulic capacity to attachment options and maintenance tips—so you can determine whether this machine meets your operational needs.

Key Highlights of the John Deere 310C

- Powerful 7.0 L engine delivering 170 hp at the shaft
- Advanced hydraulic system with 1,600 /lb/min flow at 3,000 /psi
- Compact footprint: 12.8 /ft wheelbase, 9.2 /ft overall width
- Maximum digging depth: 14 /ft, reach: 19 /ft
- Built in 3 point hitch for attachments (e.g., trenching, grading, pallet forks)
- Durable cab with ergonomic controls and climate controlled seat

Engine & Powertrain

Engine Overview

The 310C is powered by a **John Deere 7.0 L 4 stroke diesel engine** that produces 170 horsepower at the shaft and 1,350 lb ft of torque at 1,800 rpm. This engine is tuned for both high performance and fuel efficiency, featuring a turbocharged induction system and a 3 stage intercooler. The result is a machine that can handle demanding excavation tasks while keeping operating costs in check.

Transmission & Drivetrain

Coupled with the engine is a **5 speed manual gearbox** that offers smooth gear changes and precise control. The transmission is matched with a **hydraulic power steering system** that reduces operator fatigue during long shifts. The 310C's drivetrain includes a **3 speed transfer case** that allows for low range gearing when maximum torque is required for heavy digging or when operating in tight spaces.

Fuel Capacity & Range

With a 200 liter (52 gallon) fuel tank, the 310C can operate for up to 8 hours on a single fill, depending on workload and terrain. This generous capacity means fewer refueling stops and more productive time on the job site.

Hydraulic System Specifications

Hydraulic Pump & Flow

The 310C's **hydraulic pump** delivers a maximum flow of 1,600 /lb/min at 3,000 /psi, which is more than adequate for both digging and lifting operations. The pump is driven by the engine via a **hydraulic motor** that ensures consistent performance even under high load.

Hydraulic Lines & Valves

All hydraulic lines are rated for 4,000 /psi, with a standard 3/8 inch line diameter. The machine includes a **dual stage hydraulic system** that allows the operator to select between high flow and low flow modes, optimizing performance for different tasks such as trenching or bucket work.

Hydraulic Attachments Compatibility

Thanks to the 3 point hitch and integrated hydraulic lines, the 310C can easily swap out attachments such as a **pallet fork, trenching bucket, or grading blade**. Each attachment is engineered to fit the 310C's hydraulic flow specifications, ensuring that performance remains consistent across configurations.

Physical Dimensions & Weight

Overall Size

The 310C measures 12.8 ft in length, 9.2 ft in width, and 6.5 ft in height. The wheelbase is 8.5 ft, giving it a stable stance during heavy digging. These dimensions make the 310C suitable for confined job sites while still offering ample reach and depth.

Operating Weight

With an operating weight of 4,300 lb, the 310C strikes a balance between stability and maneuverability. The machine's weight is distributed evenly across the front and rear wheels, minimizing ground pressure and reducing the risk of soil compaction.

Load Capacity

The 310C can handle a bucket capacity of up to 1.1 m³ (about 39 ft³). The front bucket's lifting capacity is 1,200 lb, while the backhoe arm can lift up to 1,400 lb. These figures enable the operator to move substantial volumes of soil or debris in a single pass.

Cab & Operator Comfort

Ergonomic Controls

The cab is designed with the operator's comfort in mind. Controls are positioned within easy reach, and the steering wheel is adjustable for both left hand and right hand drive configurations. The throttle and hydraulic controls feature a "push to lock" function to prevent accidental activation.

Climate Control & Visibility

Air conditioned ventilation keeps the cab cool on hot days, while a high definition display provides clear visibility of the work area. Large windows and a rearview mirror offer a 360 degree view, enhancing safety during operation.

Seat & Suspension

The seat is fully adjustable, with lumbar support and a reclining feature to reduce fatigue. A pneumatic suspension system absorbs road vibrations, ensuring a smoother ride even on uneven terrain.

Attachment Options & Versatility

Standard Attachments

- Front bucket (1.1 /m³)
- Backhoe arm (1.5 /m)
- 3 point hitch

Optional Attachments

- Trenching bucket
- Grading blade
- Pallet fork
- Skid steer attachments

Each attachment is engineered to match the 310C's hydraulic flow and torque requirements, ensuring that the machine's performance remains consistent regardless of the tool in use.

Maintenance & Service Recommendations

Routine Checks

1. Oil levels: Check every 200 hours or at the end of each shift.
2. Hydraulic fluid: Inspect for contamination and change every 400 hours.
3. Air filter: Replace every 200 hours or as needed in dusty environments.
4. Coolant: Flush every 2,000 hours or when temperature rises above 200 /°F.

Major Service Intervals

- Engine oil change: Every 1,000 hours.
- Hydraulic filter replacement: Every 800 hours.
- Transmission fluid: Every 1,200 hours.
- Brake inspection: Every 1,500 hours.

Common Issues & Troubleshooting

Low hydraulic pressure: Check for leaks, filter blockage, or a failing pump.

Engine overheating: Verify coolant levels, radiator condition, and thermostat operation.

Cab noise: Inspect the suspension system and wheel bearings.

Comparisons with Other John Deere Backhoes

John Deere 330C vs. 310C

The 330C offers a slightly larger bucket (1.3 /m³) and higher engine horsepower (190 /hp), making it suitable for larger projects. However, the 310C's smaller footprint and lighter weight make it more adaptable to tight spaces.

John Deere 290C vs. 310C

The 290C is a more compact model with a 140 hp engine and a 1.0 m³ bucket. While it's ideal for small jobs, the 310C provides a better balance of power and versatility for medium size projects.

Buying Guide: Is the 310C Right for You?

Assess Your Project Size

If you frequently work on sites that require a moderate digging depth (up to 14 ft) and reach (up to 19 ft), the 310C offers a perfect match.

Consider Site Accessibility

For urban or suburban sites with limited space, the 310C's compact dimensions give it an advantage over larger backhoes.

Factor in Attachment Needs

Evaluate the attachments you'll use most often. If you need a trenching bucket or grading blade, make sure the 310C's hydraulic system can support those tools.

Budget & Operating Costs

While the initial purchase price may be higher than some competitors, the 310C's fuel efficiency and low maintenance requirements can offset costs over the machine's lifespan.

Conclusion

The **John Deere 310C backhoe**stands out as a versatile, reliable, and efficient machine for a wide range of excavation tasks. Its robust engine, advanced hydraulic system, and ergonomic cab create a platform that delivers consistent performance while keeping operator fatigue to a minimum. Whether you're a contractor looking to expand your fleet or a municipal operator seeking a dependable machine for daily use, the 310C's specs and versatility make it a compelling choice. By understanding its capabilities, maintenance needs, and how it compares to other models, you'll be well prepared to decide if this backhoe aligns with your project goals and budget.

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