

B80C - BACKHOE LOADERS



**COMFORT AND
PERFORMANCE
FOR YOUR JOB**



MAIN REASONS TO CHOOSE THE NEW C-SERIES

New Holland backhoe loaders stand out for their versatility in design and construction. Leveraging advanced technology, these machines deliver robust performance with outstanding fuel efficiency. The highly reliable S8000 FPT engine, renowned for its best-in-class power and torque density, optimizes fuel consumption during operation. The redesigned cab prioritizes operator comfort through enhanced ergonomics and introduces a fresh interior and exterior styling.

IN-LINE BACKHOE DESIGN

The high lifting capacity, digging depth and digging force of the backhoe resulting from the in-line design is coupled with a closed center hydraulic system and high-flow oil pump to deliver high productivity.

EXTENDAHOE

The Extendahoe increases the backhoe's capacity to match a mid-size excavator and is ideal when digging depth or the ability to dig away from the machine are needed.

HIGH EFFICIENCY

The S8000FPT engine ensures a powerful and fuel-efficient performance in backhoe and front loader applications by delivering high torque.

POWERSHUTTLE TRANSMISSION WITH TORQUE CONVERTER

Experience seamless cycles and stall-free operation through the powershuttle transmission with a torque converter. Enjoy swift and comfortable travel facilitated by the electrohydraulic reversing and cut-off button.





NEW CAB DESIGN

The large cab is meticulously crafted to offer the operator a comfortable workspace with abundant storage for all essentials. Additionally, the styling, fit, and finish have undergone an update.

SAFE AND EASY MAINTENANCE

The front tilting engine hood provides easy access to the main check points, laid out to facilitate fast maintenance operations.

STRAIGHT LOADER ARM

The loader's exceptional loading capacity and tipping height raise the bar on productivity. The self-levelling function of the bucket improves the operator's productivity, precision and comfort when lifting the bucket.

FAST LOADING CYCLE

Loading operations are easy and efficient with the return-to-dig function that automatically repositions the loader with precision.

A NEW WORLD OF OPERATOR COMFORT



NEW CAB DESIGN

FEATURES

- Greater operator comfort in the cab with improved ergonomics, and restyled interior and exterior. **NEW!**
- Improved accessibility to the cab through redesigned front and left-hand consoles. **NEW!**
- Quiet work environment with reduced noise levels. **NEW!**
- Optimized storage capacity with best-in-class features, providing operators with dedicated spaces for work essentials and to keep lunch and drinks cool. **NEW!**
- Maximized productivity and safety with excellent all-round visibility in any job site and conditions. **NEW!**
- Superior operator comfort with a mechanical suspended seat.
- Ideal internal climate with the powerful Air Conditioning system and fully openable windows.



- Improved driving safety with the new speedometer on the front console. **NEW!**
- Cell-phone holder on the right-hand pillar within easy reach of the operator. **NEW!**
- It's easy to charge the operator's mobile devices and stay connected with the 12V and USB ports on the right-hand console. **NEW!**

BIG PERFORMANCE, LOW OPERATING COSTS

EXTENDAHOE

Extends capacity, flexibility, ease of transport

Equipped with the Extendahoe, New Holland backhoe loaders match the strength of a standard dipper while raising their capacity to that of a mid-size excavator. This feature not only enhances flexibility but also simplifies transportation, providing a significant advantage.

BACKHOE DESIGN

High-performance backhoe design

The backhoe is designed for high digging ability, lifting capacity and breakout force. Ultrasound inspection ensures the high quality of the welding of the durable and reliable boom and dipper. The closed center hydraulic system and high-flow oil pump deliver fast cycles when excavating and loading.



EFFORTLESS LOADING

More speed, less fatigue

The return-to-dig function automatically repositions the bucket flat to the ground, ready for a new cycle, enabling the operator to get the job done faster with far less fatigue.

STRAIGHT LOADER ARM

Maximum productivity

The innovative systems integration approach optimizes line routings in the straight loader arm design, ensuring exceptional visibility and best-in-class tipping height to meet the most demanding requirements for loading applications.



SAFE AND FAST MAINTENANCE

Easy accessibility of service points on one side

New Holland backhoe loaders are designed for effortless access to key components. The tiltable front engine hood creates a spacious access area, facilitating easy serviceability. Furthermore, all fuses and relays are conveniently located in the cab, streamlining maintenance operations for greater efficiency.

HIGH VERSATILITY, HIGH PRODUCTIVITY



POWERSHUTTLE TRANSMISSION WITH TORQUE CONVERTER

Smooth operation

The C-Series backhoe loaders feature a powershuttle transmission with 4 forward and 4 reverse speeds. With the hydraulically shifted clutches, the operator can change direction and travel speed on the go, while the modulation valves ensure the changes are smooth. The 4WD models are designed to deliver a reliable performance in extreme applications over an extended life cycle, with the 4WD delivering all the necessary traction when working in muddy conditions.





POWER AND PERFORMANCE

Proven engine technology

S8000 engine, developed by FPT Industrial, is a proven powerhouse that delivers the essential power and rapid response demanded by the most challenging applications.

This 3.9-liter, 4-cylinder, turbocharged, after-cooled engine is equipped with a mechanical injection system, ensuring robust performance and contributing to the success of the C-Series backhoe loaders on any job site.

FPT Industrial: our Powertrain specialist partner

Manufactured to the highest quality standards on FPT Industrial's cutting-edge dedicated assembly line, the S8000 engine incorporates components sourced from world-leading manufacturers, ensuring unmatched quality, reliability, and durability. Stringent testing and quality checks are systematically carried out at each stage of the production process for every individual engine.

Engineered for fuel efficiency

The Charge Air Cooler in the S8000 engine enhances air induction, significantly boosting fuel efficiency in critical operations such as backhoe digging and travel.



ENGINE		B80C	
Make and Model	S8000 BS-3 Certified-8045.45.748		
Injection system	Direct Injection, Turbo charged Intercooler		
Emissions level	Tier 3		
# of cylinders	4		
Bore / Stroke	104 mm x 115 mm		
Displacement / Compression ratio	3.9 L		
Rated Power Gross (ISO 14396)	97 hp (72 kW) @ 2200 rpm		
Rated Power Net (ISO 14396)	94 hp (70 kW) @ 2200 rpm		
Maximum torque (ISO 14396)	420 Nm @ 1300 rpm		
Engine speeds	2200 rpm (rated speed @ full load)		
TRANSMISSION			
Type	Manual shift, 4 speed, Fully sync.		
Model/Make 2WD	Carraro 2WD TLBI		
Model/Make 4WD	Carraro 4WD TLBI		
Forward travel speeds	6.2 - 10 - 20.7 - 39.2 km		
Reverse travel speeds	7.4 - 12 - 24.8 - N/R* km		
FRONT AXLE			
Model/Make 2WD	CNH PS 1300		
Oscillation 2WD	21°		
Model/Make 4WD	Carraro 26.17 M		
Oscillation 4WD	16°		
REAR AXLE			
Model/Make	Carraro 28.32 M		
BRAKES			
Service brakes	Hydraulic foot operated, 2 discs per side		
Parking brakes	Mechanically actuated caliper type brake pack on rear axle input shaft		
STEERING			
Type	Hydrostatic with integrated top valve		
System pressure / Displacement	140 bar / 125 cc		
Turning circle, diameter	2WD	4WD LH/RH	
with brake (outside wheels)	6 m	8.0 / 7.5 m	
without brake (outside wheels)	8.4 m	9.4 / 8.8 m	
TIRES			
	12.5 – 18, 12 PR Front tires		
	16.9-28, 12 PR Rear Tires		
Front	16" or 18"		
Rear	25" or 28"		
HYDRAULIC SYSTEM			
Type	Load sensing, closed center hydraulic system		
Flow @ 2200 rpm	145 l/min		
Pressure	205 bar		
SERVICE CAPACITIES			
Engine oil	8.6 l		
Transmission oil	20 l		
Front axle 4WD oil	8.9 l		
Rear axle oil	17.1 l		
Hydraulic oil	107 l		
Fuel tank	129 l		
Coolant	20 l		
ELECTRICAL SYSTEM			
Voltage	12 V		
Battery	Single: 130 Ah 720 A		
Alternator	120 A		
CAB			
Certification	ROPS / FOPS		
Air Conditioning	Optional		
Speedometer	Standard		

* Not Recommended



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Learn more at www.newholland.com

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