

# 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.

#### **EXTENDAHOE**

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

#### **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.



### 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.

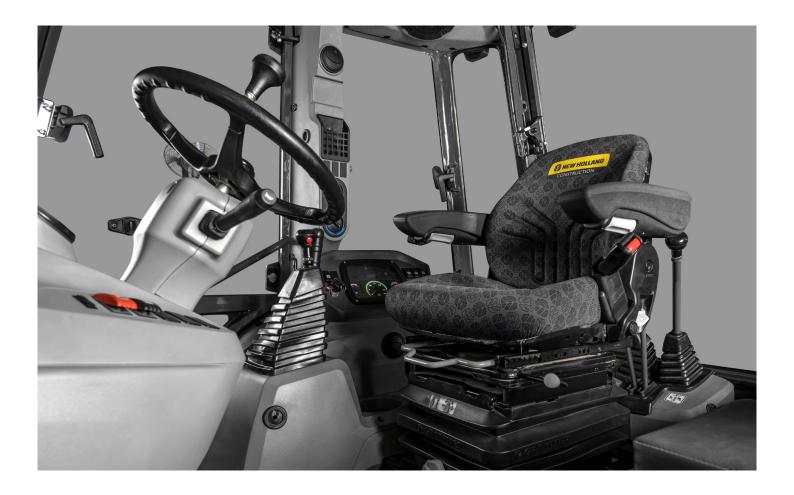
#### STRAIGHT LOADER ARM

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 I2V 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 midsize 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**

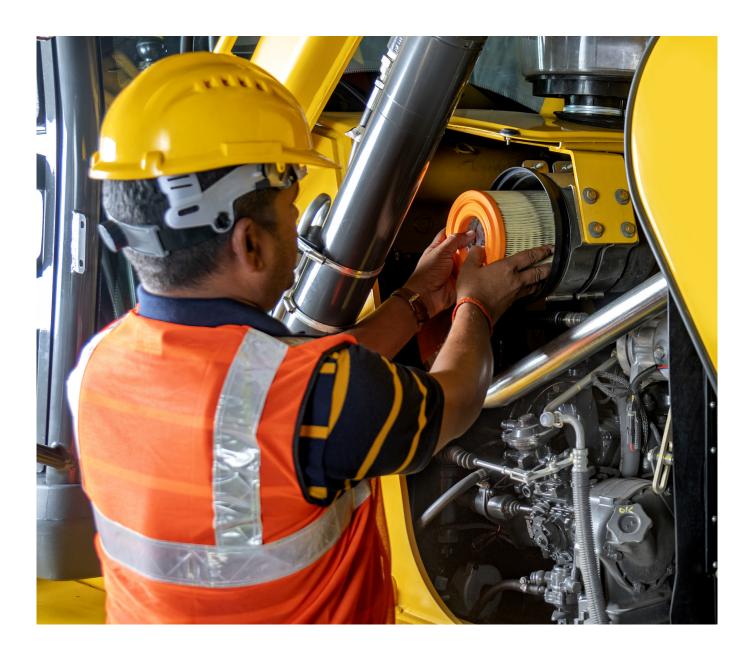
#### More speed, less fatigue

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-inclass 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

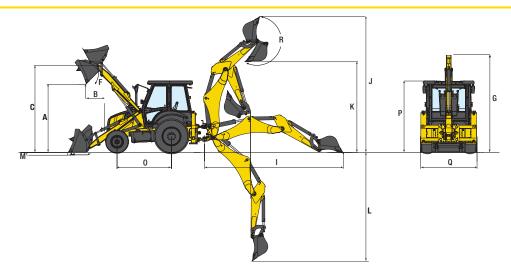
Manufactured to the highest quality standards on FPT Industrial's cuttingedge dedicated assembly line, the S8000 engine incorporates components sourced from world-leading manufacturers, ensuring unmatched quality, reliability, and durability. Stringent testing and quality checks are systematically carried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

#### **Engineered for fuel efficiency**

The Charge Air Cooler in the \$8000 engine enhances air induction, significantly boosting fuel efficiency in critical operations such as backhoe digging and travel.



# **SPECIFICATIONS**



M	ODELS		B80C					
			STRAIGHT L	OADER ARM	TOOL CARRIER LOADER ARM			
LOADER (4WD CONFIGURATION)			STD BUCKET	4XI BUCKET	STD BUCKET	4XI BUCKET		
Α	Maximum dump height under bucket @ 45°	mm	2720	2745	2640	2652		
В	Dump Reach @ full height	mm	760	669	855	835		
С	Maximum height pin	mm	35	580	3420			
F	Dump angle	۰	45		45			
Μ	Below ground level digging depth	mm	110	100	150	164		
	Maximum lifting capacity @ full height	kg	3425		3934	3572		
	Loader breakout force	daN	61	92	5703	5747		
	Bucket breakout force	daN	61	29	7352	7586		

			IN-LINE CYLINDER					
ВАСКНОЕ			STD DIPPER	EXT. DIPPER	STD DIPPER	EXT. DIPPER		
	Backhoe type	ft	14'		15'			
	Swinging angle	0				180		
1	Maximum reach from swing center	mm	5657	6739	5927	7024		
J	Maximum operating height	mm	5489	6220	5675	6405		
Κ	Maximum loading height	mm	3644	4387	3820	4548		
L	Maximum digging depth	mm	4400	5584	4700	5892		
R	Bucket rotation	٥	204					
	Bucket breakout force	daN	5606	5616		5616		
	Dipper breakout force	daN	4286	2931	3780	2696		
OVE	ERALL DIMENSIONS							
G	Boom height (transport position)	mm				3800		
0	Wheel base	mm	2175					
Р	Cab height	mm	2830					
Q	Overall width with std loader bucket	mm				2277		
	Minimum ground clearence	mm				380		
Operating weight range Kg		Kg	7730 - 8290					

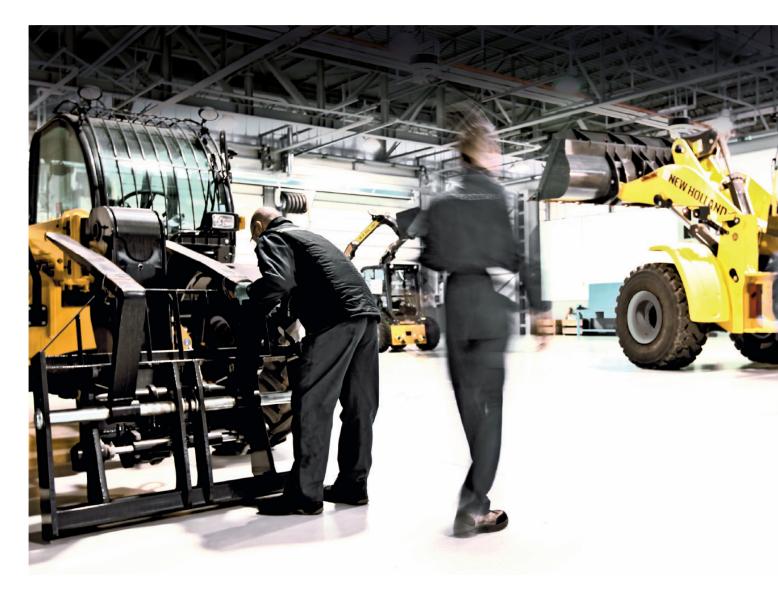
Operating weight is subject to machine configuration and attachment options

OPTIONAL LOADER BUCKETS		OPTIONAL BACKHOE BUC	OPTIONAL BACKHOE BUCKETS		
TYPE	CAPACITY (SAE LTR)	TYPE	CAPACITY (SAE LTR)		
Standard bucket w/t bolt on teeth	1000	Backhoe trenching	80		
4xI bucket w/t bolt on teeth	1000	Backhoe trenching	120		
6 x I bucket w/t bolt on teeth	1000	Backhoe trenching	180		
Standard bucket w/t bolt on teeth	1100	Backhoe trenching	260		
Standard bucket w/t bolt on teeth	1200	Backhoe trenching	300		

ENGINE  Make and Model  S8000 BS-3 Certified-8045.45.748  Injection system  Direct Injection, Turbo charged Intercooler  Emissions level  Tier 3  # of cylinders  Bore / Stroke  Displacement / Compression ratio  Rated Power Gross (ISO 14396)  Rated Power Net (ISO 14396)  Paximum torque (ISO 14396)  Engine speeds  TRANSMISSION  Type  Manual shift, 4 speed, Fully sync.  Model/Make 2WD  Model/Make 4WD  Carraro 2WD TLBI  Model/Make 4WD  Carrard 4WD TLBI  Forward travel speeds  7.4 - 12 - 24.8 - N/R* km  FRONT AXLE  Model/Make 2WD  CNH PS 1300  Oscillation 2WD  CNH PS 1300  Oscillation 2WD  CNH PS 1300  Oscillation 2WD  CAITARO ASSION  CIPP SI 300								
Injection system  Emissions level  Tier 3  # of cylinders  Bore / Stroke  Displacement / Compression ratio  Rated Power Gross (ISO 14396)  Rated Power Net (ISO 14396)  Maximum torque (ISO 14396)  Engine speeds  Transmission  Type  Manual shift, 4 speed, Fully sync.  Model/Make 2WD  Model/Make 4WD  FRONT AXLE  Model/Make 2WD  Direct Injection, Turbo charged Intercooler  Tier 3  Tier 3  Tier 3  # of cylinders  4  Bore / Stroke  104 mm x 115 mm  3.9 L  8.9 4 hp (72 kW) @ 2200 rpm  9.4 hp (70 kW) @ 2200 rpm  420 Nm @ 1300 rpm  1300 rpm  1300 rpm  1400 Nm @ 1300 rpm  1400 Nm @ 1300 rpm  1500 Carraro 2WD TLBI  1500 Carraro 2WD TLBI  1500 CARRAR AWD TLBI  1500 CARRAR AWD TLBI  1500 CNH PS 1300								
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)         97 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 TLB1           Model/Make 4WD         Carraro 4WD TLB1           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								
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Bore / Stroke Displacement / Compression ratio Asted Power Gross (ISO 14396) Rated Power Net (ISO 14396) Rated Power Net (ISO 14396) Pay hp (72 kW) @ 2200 rpm Rated Power Net (ISO 14396) Pay hp (70 kW) @ 2200 rpm Paximum torque (ISO 14396) Pay hp (70 kW) @ 1300 rpm Paximum torque (ISO 14396) Pay hp (70 kW) @ 1300 rpm Paximum torque (ISO 14396) Pay hp (70 kW) @ 1300 rpm Paximum torque (ISO 14396)								
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Rated Power Net (ISO 14396)  Maximum torque (ISO 14396)  Engine speeds  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  TRONT AXLE  Model/Make 2WD  CNH PS 1300								
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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         CNH PS 1300								
Forward travel speeds         6.2 - 10 - 20.7 - 39.2 km           Reverse travel speeds         7.4 - 12 - 24.8 - N/R* km           FRONT AXLE         CNH PS 1300								
Reverse travel speeds         7.4 - 12 - 24.8 - N/R* km           FRONT AXLE         Only 10 model/Make 2WD           Model/Make 2WD         CNH PS 1300								
FRONT AXLE  Model/Make 2WD  CNH PS 1300								
Model/Make 2WD CNH PS I300								
()scillation 7WI)								
Model/Make 4WD Carraro 26.17 M								
Oscillation 4WD								
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 I/min	145 I/min							
	205 bar							
SERVICE CAPACITIES								
Engine oil 8.6 l								
	201							
	8.91							
	17.1							
Hydraulic oil 107 I								
Fuel tank 129 I								
Coolant 20 I								
ELECTRICAL SYSTEM								
Voltage I2 V								
Battery Single: 130 Ah 720 A								
Alternator 120 A								
CAB								
Certification ROPS / FOPS								

<sup>\*</sup> Not Recommended





The New Holland dealer network is, in itself, the best guarantee of continued productivity for the machines it delivers to its customers. New Holland service technicians are fully equipped to resolve all maintenance and repair issues, with each and every service point providing the high standards they are obliged to observe under New Holland's stringent quality guidelines. The New Holland global parts network ensures fast, reliable, replacement parts for less downtime increased productivity and, of course, profitable operation for its customers.

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