

**BACKHOE LOADER  
770EX MAGNUM**

**CASE**  
CONSTRUCTION



**HIGH ON PRODUCTIVITY.  
HIGHEST FUEL EFFICIENCY.**

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**EXPERTS FOR THE REAL WORLD**  
**SINCE 1842**

# MAIN REASONS TO CHOOSE THE 770EX MAGNUM



## EXCELLENT VISIBILITY

Excellent visibility for all operations with loader or backhoe.  
Fully openable front and rear glasses for excellent cab ventilation.



## EASY ACCESS

Traditionally CASE backhoe Loader are recognized for easy components as well as cab accessibility.  
All the controls are easy to reach for maximum performances and safety.



## STRAIGHT LOADER ARM

Above any limit the CASE loader ensure highest loading capacity in the market combined with best in class tipping height.  
The self leveling mechanism during the lifting phase makes the operator more productive, precise and provides better driving comfort.



## FAST LOADING CYCLE

The return to dig mode (Standard option) guarantees precise automatic loader repositioning and easy to control loading operations.



## HIGH EFFICIENCY

The S8000 FPT engine with high power and torque density provides the best-in-class performances in any application either with backhoe or front loader.





### EXTENDAHOE

Improved backhoe operation:

The extendahoe is the perfect solution for working conditions where the digging depth is crucial.

It enlarges the backhoe capacity making the CASE backhoe loader comparable with a middle size excavators.



### HIGHEST PRODUCTIVITY

“S-tyled backhoe”: The new Backhoe represents the continuity of CASE DNA.

Performances: lifting capacity, digging depth, digging force raises a new standard on this machine segment.

High productivity thanks to closed center hydraulic system and high flow oil pump.



### EASY MAINTENANCE

All the main check point can be easily reached from the ground.

The front tilting engine hood and the perfect components layout ensures fast routine operations.



### EAGLE EYE TELEMATICS

You get real-time performance metrics, idle-time analytics, scheduled maintenance intervals and programmable security alerts sent to any computer, anytime, anywhere.



### POWERSHUTTLE TRANSMISSION WITH TORQUE CONVERTER

The power shuttle transmission with torque converter allows smooth cycles and stall free operations.

The electro hydraulic reversing as well as the cutoff button ensures comfortable and fast travelling.

# THE FEATURES



## EXCELLENT VISIBILITY

### Face all the grounds

Best-in-Class Spacious Cabin and large glazed windows provide outstanding all round visibility and superior operator comfort.



## EASY ACCESS

### A place for everything and everything in its place

The ergonomic layout of operator controls enhances operator comfort and productivity. Easy access to the cab with ergonomically placed grab rails, walk-up steps and large platform.



## EXTENDAHOE

### Extend your business!

The extendahoe allows the operator to increase overall backhoe loader capacity keeping the same strength of the standard dipper. The CASE backhoe loader with extendahoe can reach the capacity of a middle class excavator, but with higher flexibility and better transportability. The inner sliding makes the periodical free play setting easy to be done without special tooling requirements.



## HIGHEST PRODUCTIVITY

### Decades of heritage in backhoe design

The new backhoe's 'S'tyled boom will boost your productivity. The boom delivers excellent breakout forces. The heavy duty front axle further boosts productivity especially when working in rough terrains. The Heavy Duty structures will enhance the reliability and the durability of your machine.



## EASY MAINTENANCE

### Check points easily reachable

CASE knows that the easier it is to perform routine maintenance, the more likely it will get done. The easy serviceability due to the large access area available when opening the new tiltable front engine hood, is a hallmark of CASE Backhoe Loader machine design. To improve serviceability, the machine layout has been optimized to provide an easy access to all main components.





# THE EXPERT PRODUCTIVE PARTNER



## EAGLE EYE TELEMATICS

### Machine under control

CASE brings to you a revolutionary technology, “EAGLE EYE” for enhancing the performance and efficiency of your machine. This is an Asset Monitoring system that combines Internet, Cellular and GPS technologies.

This system helps you keep an eye on every significant detail such as:

- Real Time Location of the Machine
- Operating hours
- Cumulative Hour Meter Reading
- Warning Text Alerts for Critical Parameters



## POWERSHUTTLE TRANSMISSION WITH TORQUE CONVERTER

### Smooth riding

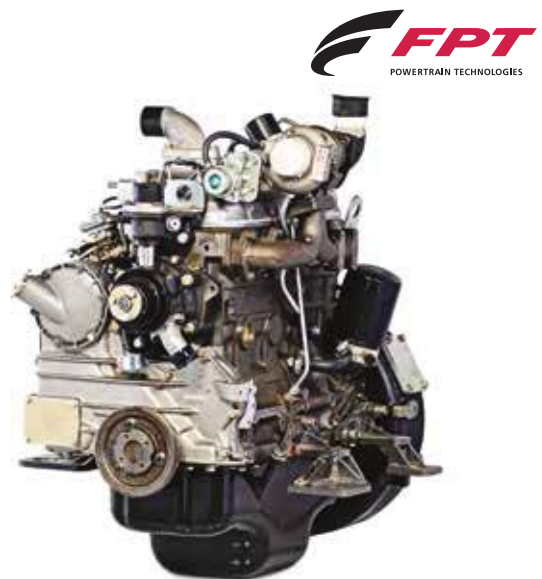
The power shuttle transmission provides four speeds forward and reverse. Hydraulically shifted clutches allow on-the-go direction and travel speed shifts. Modulation valves deliver smooth speed and directional shifts. 4WD improves performances especially with the loader or when job site conditions are muddy and extra traction is mandatory. The new 2-cylinder steering front axle is mounted above the center pivot and can oscillate to  $\pm 8$  degrees, so that all four wheels stay on the ground ensuring great stability even in toughest conditions and with highest front loads.



## HIGH EFFICIENCY

### A legacy of high performance

The new generation engine, developed by FPT Industrial, provides outstanding performance like faster response time and up to 10% better fuel economy thanks to its Internal EGR Technology.



## FAST LOADING CYCLE

### Get the job done easily with the RTD function

The standard return-to-dig-option automatically sets the bucket back to digging position, flat to the ground. Operator's life gets easier and long operating days more comfortable.



## STRAIGHT LOADER ARM

### Lowest operating costs ever

CASE engineers used an innovative systems integration approach to design and improve loader arm design to meet customer needs in loading applications. The straight loader arm design with optimized line routings provides excellent visibility, best-in-class tipping height.

# APPLICATIONS

Many customers will find the CASE 770EX MAGNUM backhoe loader to be the optimal choice. With its high capacity for power, versatility and reliability combined with minimal ownership and operating costs, it will support you in a wide variety of applications. For more information, please contact your dealer.



## URBAN

### Light construction

Light construction projects, such as small buildings, local utility lines or local road networks, typically require machines capable of doing a high variety of jobs and switching between tasks quickly. The CASE 770EX MAGNUM is ideally suited to these jobs: reliable, fuel efficient, productive, easy to service and versatile, it can do it all with low operating costs. The standard unit is hydraulic hammer ready: this further extends the variety of applications to include work hard road surfaces or frozen earth.



## LANDSCAPING

### Environment care

CASE builds some of the most reliable, responsive, and comfortable landscaping equipment in the industry. Whatever the task, from landscape and hardscape installation to ground keeping, you can depend on CASE to help your team work faster, not harder.





# TAILORED MADE SOLUTIONS



## ROADS AND BRIDGES

### Valuable partner

The CASE 770EX MAGNUM is an ideal asset in any road construction site - from large scale superhighway projects right down to local road building jobs. Equipped with a 4x1 bucket, it can load and spread material with ease, while the backhoe can tackle digging tasks with a standard wide bucket or install kerbstones using a narrow trench bucket. Loading, excavating, transportation – whatever the task, the CASE 770EX MAGNUM has power capacity to complete it with a minimal operating costs.



## AGRICULTURE

### Wide field

Backhoe loaders are increasingly popular among farmers due to their exceptional versatility. They can carry out construction work such as the erection of cowsheds and barns or repair and construction of rural roads and pure agricultural tasks such as delivery forage to stables or fertilizer onto fields. This results in high operating efficiency and low production costs. The CASE 770EX MAGNUM stands out as one of the most efficient backhoes for agriculture applications in the industry.



# SPECIFICATIONS

## 770EX MAGNUM

### ENGINE

Engine model code \_\_\_\_\_ FPT S8000  
Type \_\_\_\_\_ Turbocharged  
Bore x stroke \_\_\_\_\_ 104 x 115 mm  
Displacement \_\_\_\_\_ 3.9 L  
Compression ratio \_\_\_\_\_ 18.3:1  
Horsepower - rated at 2200 RPM \_\_\_\_\_ 86 HP  
Maximum torque at 1300 RPM \_\_\_\_\_ 402 NM  
**Engine speeds**  
Rated speed, full load \_\_\_\_\_ 2200 RPM  
Low idle speed (at no load) \_\_\_\_\_ 950 RPM

### ELECTRICAL SYSTEM

Battery \_\_\_\_\_ 12 volts, 130 Ah  
Alternator Output \_\_\_\_\_ 65A

### POWER TRAIN

#### Transmission - Standard

Model \_\_\_\_\_ CARRARO 2WD TLB1  
Type \_\_\_\_\_ 4 forward and 4 reverse travel gears  
with power Shuttle

#### Transmission - Optional

Make & Model \_\_\_\_\_ CARRARO 4WD TLB1  
Type \_\_\_\_\_ 4 forward and 4 reverse travel speeds  
with power Shuttle

Gear	Forward	Reverse
1st	6.2	7.4
2nd	10	12
3rd	20.7	Not Recommended
4th	39.2	Not Recommended

All speeds are in KMPH with standard tyres

### REAR AXLE

#### 2 Wheel Drive (Standard)

Make & Model \_\_\_\_\_ CARRARO 28.32M  
Type \_\_\_\_\_ Rigid

#### 4 Wheel Drive (Optional)

Model \_\_\_\_\_ CARRARO 28.32M  
Type \_\_\_\_\_ Rigid

### FRONT AXLE

#### 2 Wheel Drive (Standard)

Model \_\_\_\_\_ CNH PS1300  
Type \_\_\_\_\_ Steering  
Front Axle Oscillation \_\_\_\_\_ 21°

#### 4 Wheel Drive (Optional)

Model \_\_\_\_\_ Carraro 26.17  
Type \_\_\_\_\_ Steering  
Front Axle Oscillation \_\_\_\_\_ 16°

### BRAKES

#### Service Brakes

Type \_\_\_\_\_ Wet multi-discs  
No. of discs \_\_\_\_\_ 4

#### Parking Brake

Type \_\_\_\_\_ Manual, with lever

### HYDRAULIC SYSTEM

Type \_\_\_\_\_ Gear pump  
Flow rate \_\_\_\_\_ 123 lpm @2200 RPM  
Pressure \_\_\_\_\_ 210 Bar

### STEERING

Type \_\_\_\_\_ Power Steering  
System pressure \_\_\_\_\_ 140 Bar  
Displacement \_\_\_\_\_ 125 cc  
**Turning radius (Outside of the Bucket)**  
With Brake \_\_\_\_\_ 4.6 m  
Without Brake \_\_\_\_\_ 5.6 m  
**Tread width**  
Front \_\_\_\_\_ 1.9 m  
Rear \_\_\_\_\_ 1.7 m

### SERVICE CAPACITIES

Engine Oil \_\_\_\_\_ 9.1 Ltr  
Transmission Oil \_\_\_\_\_ 22 Ltr  
Rear Axle Oil \_\_\_\_\_ 17 Ltr  
Hydraulic Oil \_\_\_\_\_ 110 Ltr  
Fuel Tank \_\_\_\_\_ 129 Ltr  
Coolant \_\_\_\_\_ 20 Ltr

### TYRE SIZE

Recommended	Tyre Size
Standard - Front	9.0x16 - 16 PR
Standard - Rear	16.9x28 - 12 PR
Heavyduty - Front	12.5x18 - 12 PR
Heavyduty - rear	14x25 - 20 PR

### BUCKETS

#### Loader buckets

Type \_\_\_\_\_ Standard  
Heaped capacity (SAE capacity) \_\_\_\_\_ 1.1 Cu m  
Width \_\_\_\_\_ 2.3 m  
Weight \_\_\_\_\_ 470 kg

#### Backhoe buckets

Heaped capacity (SAE capacity) \_\_\_\_\_ 0.30 Cu m  
Width \_\_\_\_\_ 0.9 m  
Weight \_\_\_\_\_ 248 kg

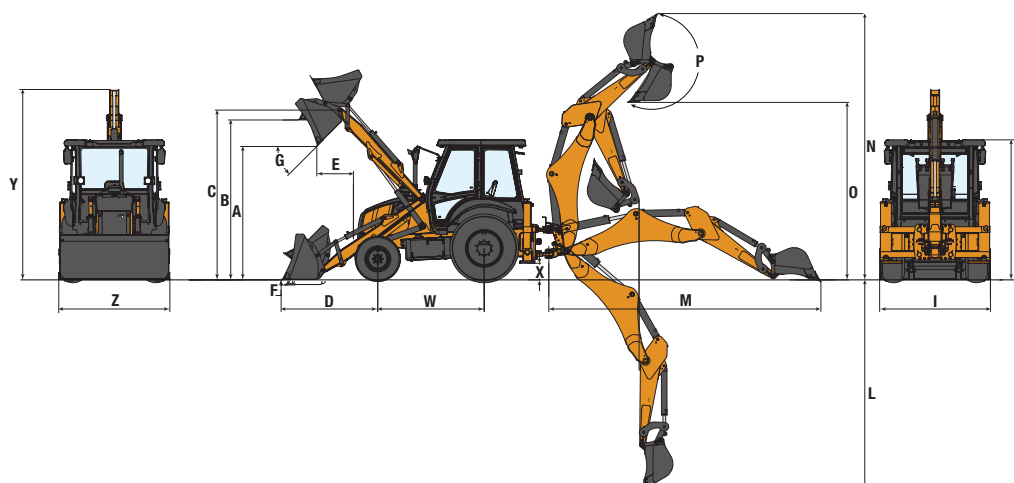
### OPTIONAL BUCKETS

	Capacity (SAE L)
Loader HD	630
Loader HD	760
Loader GP	900
Loader GP	1000
Loader coal handling	1200
Loader Garbage handling (without teeth)	1500
Bull Clam	1000
Backhoe Trenching	80
Backhoe Trenching	120
Backhoe Trenching	180
Backhoe Trenching	260
Backhoe Trapezoidal	300
Ditch Cleaning (without teeth)	300



# SPECIFICATIONS

## 770EX MAGNUM



### LOADER GENERAL DIMENSIONS

		770EX MAGNUM
A	Dump height	2732 mm
B	Load over height	3275 mm
C	Hinge pin height	3580 mm
D	Reach at ground	1486 mm
E	Reach at full height-bucket dumped	760 mm
F	Below ground level-dig depth	106 mm
G	Dump angle	45°
	Bucket capacity	1.1 cu m
	Loader bucket breakout force	6570 kgf
	Pay load	1925 kg
	Maximum lifting capacity @ max height	3700 kg

### BACKHOE GENERAL DIMENSIONS

		770EX MAGNUM
L	Max.dig depth	4547 mm
M	Reach ground level to swing center	5753 mm
N	Max working height	5593 mm
O	Max load over height	3774 mm
	Dipper Cylinder Diameter	100/110 mm
P	Bucket rotation	204°
	Bucket breakout force	4535/5630 kgf
	Dipper digging force	3250/4300 kgf
T	Max lift capacity	1470 kgf
	Safe working load @ 3.2 mtr radius	110/1470 kg

### OVERALL DIMENSIONS AND WEIGHTS

		770EX MAGNUM
	Overall operating weight	8230 kg
W	Wheel base	2230 mm
X	Minimum ground clearance	399 mm
Y	Overall height (Transport Position)	3840 mm
Z	Width over bucket (Trasnsport Position)	2300 mm

### BOTTOM DUMP BUCKET

This multipurpose bucket is ideal for (6 operations) diggin, loading, dozing, backfilling, grading and grab operation.

		770EX MAGNUM
	Bucket widht Outside	2265 mm
	Width of dozer blade	2300 mm
	Maximum Clamp opening	977 mm
	Bucket capacity (SAE HEAPED)	1.0 cu m
	Dump height	2710 mm

# STANDARD AND OPTIONAL



## STANDARD

- Speedometer, RPM Meter, Digital Hour Meter
- Fuel Level Indicator, Engine Coolant Gauge
- New Generation Electrical Switches
- 2 Front & 4 Rear Lights
- Direction Indicator, Parking Light
- Spacious Battery Box
- FM Radio
- Eagle Eye Telematics Solution
- Lifting Hook
- Licence Plate





## OPTIONALS

- 4 Wheel Drive (4X4 Traction)
- Heavy Duty Tyres (14X25-20PR)
- Bottom Dump Bucket (6 in 1 operation)
- Dozer & Backfill Blade
- Heat Ventilation and Air Conditioning (HVAC)
- Extended Dipper (Extend Hoe)
- Ripper Tooth
- Wood Log Grapple
- Limestone Scraper



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## PARTS AND SERVICE

Wide network of customer support across the world.

No matter where you work, we're here to support and protect your investment and exceed your expectations. You can count on Case and your Case dealer for full-service solutions-productive equipment, expert advice, flexible financing, genuine Case parts and fast service. We're here to provide you with the ultimate ownership experience. To locate a Case dealer or learn more about Case equipment or customer service, go to [www.casece.com](http://www.casece.com)

**CASE** Customer Assistance  
**18004199770**

**Corporate Identity Number: U29240MH1998PTC117183**

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**NOTE:** CASE provides specific outfits for various countries and many optional fittings (OPT). The illustrations on this or other leaflets may relate to standard or optional fittings. Please consult your CASE dealer for any information in this regard and any possible updating on components. CNH Industrial reserves the right to modify machine specifications without incurring any obligation relating to such changes.

