

**THE ALL NEW**  
**PRO SERIES**  
**851EX**

**CASE**  
CONSTRUCTION



**GIVE YOUR BUSINESS  
THE PRO-EDGE.**

CaseCE.com  
**EXPERTS FOR THE REAL WORLD**  
**SINCE 1842**

# **PRODUCTIVE, PROGRESSIVE AND PROFITABLE.** **THE ALL NEW PRO SERIES.**

## **TIME TO GET THE PRO-ADVANTAGE.**

**The demands of your business are no longer the same. The all new PRO series of CASE Loader Backhoes comes with the PROMise of better PROductivity & higher PROfits for you. We've changed our machines to stay in sync with the rapidly changing scenarios. All in order to give you the PRO-advantage.**



### **01 Optimized Powertrain**

Now, get even better fuel efficiency with all your PRO Series Loader Backhoes because of optimized powertrain.

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### **02 Bigger Buckets**

Get benefits of increased productivity, thanks to the bigger bucket sizes that allow more load lifting per bucket.

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### **03 Ergonomic Design**

Comfortable operation is ensured with ergonomic seat, better lever position with lesser effort, higher storage space and an optimized tool kit.

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### **04 Heavy Duty Structure**

Everything in your new PRO Series machine is heavy duty, from tanks to rims to fenders to overall structure.

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### **05 Longer, Deeper, Farther**

Help your business grow faster with the PRO Series's longer reach, deeper dig & the capability to go farther.

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# PRO SERIES LOADER BACKHOE CASE 851EX



## **EXCELLENT VISIBILITY**

### **Get the complete picture**

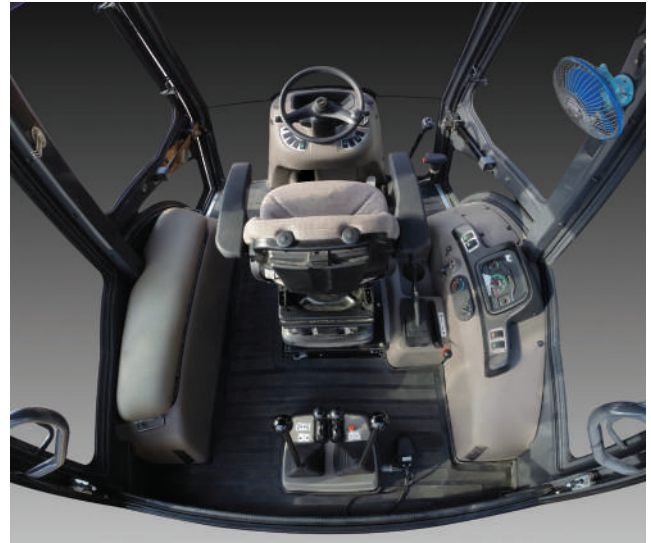
Best-in-class spacious cabin with large glazed windows provide outstanding all round visibility and superior on-site safety.



## **EASY ACCESS**

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

The ergonomic layout of controls, storage space and buddy seat enhances operator comfort and productivity. Easy access to the cab is guaranteed with conveniently placed grab rails, walk-up steps and large platform.



## **EXTENDAHOE**

### **Extend your business**

The Extindahoe allows the operator to increase overall Loader Backhoe capacity, keeping the same strength of the standard dipper. The CASE Loader Backhoe with Extindahoe can reach the capacity of a mid-class excavator, but with higher flexibility and better transportability. The inner sliding makes the periodical free play setting easy to apply without any special tool or rotating requirement.



## **HIGHEST PRODUCTIVITY**

### **Longest heritage in Backhoe design**

The new CASE 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 robust structures will enhance the reliability and the durability of CASE machines.



## **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 Loader Backhoe machine design. To improve serviceability, the machine layout has been optimized to provide an easy access to all main components.



## **Performance**

Improved cycle time - 5% in Loader operation | Smart Telematics

# THE PRODUCTIVE PARTNER.

## PRO SERIES LOADER BACKHOE



### EAGLE EYE TELEMATICS

#### Your machine in your 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

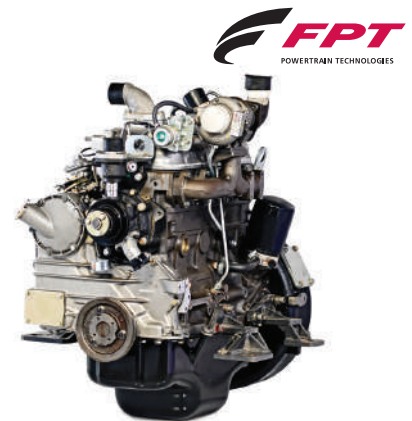
The power shuttle transmission provides four speeds, forward and reverse. Hydraulically shifted clutches allow on-the-go direction and travel speed shifts. Modulation valves deliver smooth speed and directional shifts. 4WD improves performances especially with the loader or when job site conditions are 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 the toughest of 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. 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.



### 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 and best-in-class tipping height.



### Comfort Aesthetic

New Gear Lever design for less effort | Improved Cabin frame, high quality fit & finish

## **APPLICATIONS**

# **PRO SERIES LOADER BACKHOE**

### **THERE'S A CASE LOADER BACKHOE FOR EVERY REQUIREMENT.**

CASE's wide range of Loader Backhoes ensures that you've a solution for every need. Engineered to perform anywhere, on any terrain, every machine is designed to deliver in the best possible manner. Whether be it rural terrain or urban geographies, from roads to bridges, CASE machines have always proved to be the best-in-class. What's more, these easy to use machines have a wide range of applications. Also, being reliable, productive, fuel efficient, easy to maintain and with a very low operating cost, CASE machines continue to remain the Experts for the Real World Since 1842.



### **Technical upgrades for better performance of machine**

Reliable electrical parts for nonstop performance | Highly precise hydraulic system | Robust structure to perform in extreme conditions

# PRO SERIES LOADER BACKHOE SPEC SHEET

## ENGINE

Engine model..... FPT S8000  
 Type.....Turbocharged  
 Bore x stroke.....104 x 115 mm  
 Displacement.....3.9 L  
 Compression ratio.....18.3:1  
 Horsepower at 2200 RPM.....96 hp  
 Maximum torque at 1300 RPM.....420 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

## POWERTRAIN

### 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 gears  
 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 Brakes

Type.....Manual with lever

## HYDRAULIC SYSTEM

Type.....Gear pump  
 Flow rate.....151 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 L  
 Transmission oil.....22 L  
 Rear axle oil.....17 L  
 Hydraulic oil.....110 L  
 Fuel tank.....129 L  
 Coolant.....20 L

## TYRE SIZE

### Recommended

Standard - front.....9.0 x 16 - 16 PR  
 Standard - rear.....16.9 x 28 - 12 PR  
 Heavyduty - front.....12.5 x 18 - 12 PR  
 Heavyduty - rear.....14 x 25 - 20 PR

### Tyre Size

## BUCKETS

### Loader Buckets

Type.....Standard  
 Heaped capacity (SAE capacity).....1.2 cu m  
 Width.....2.3 m  
 Weight.....485 kg

### Backhoe Buckets

Heaped capacity (SAE capacity).....0.30 cu m  
 Width.....0.9 m  
 Weight.....248 kg

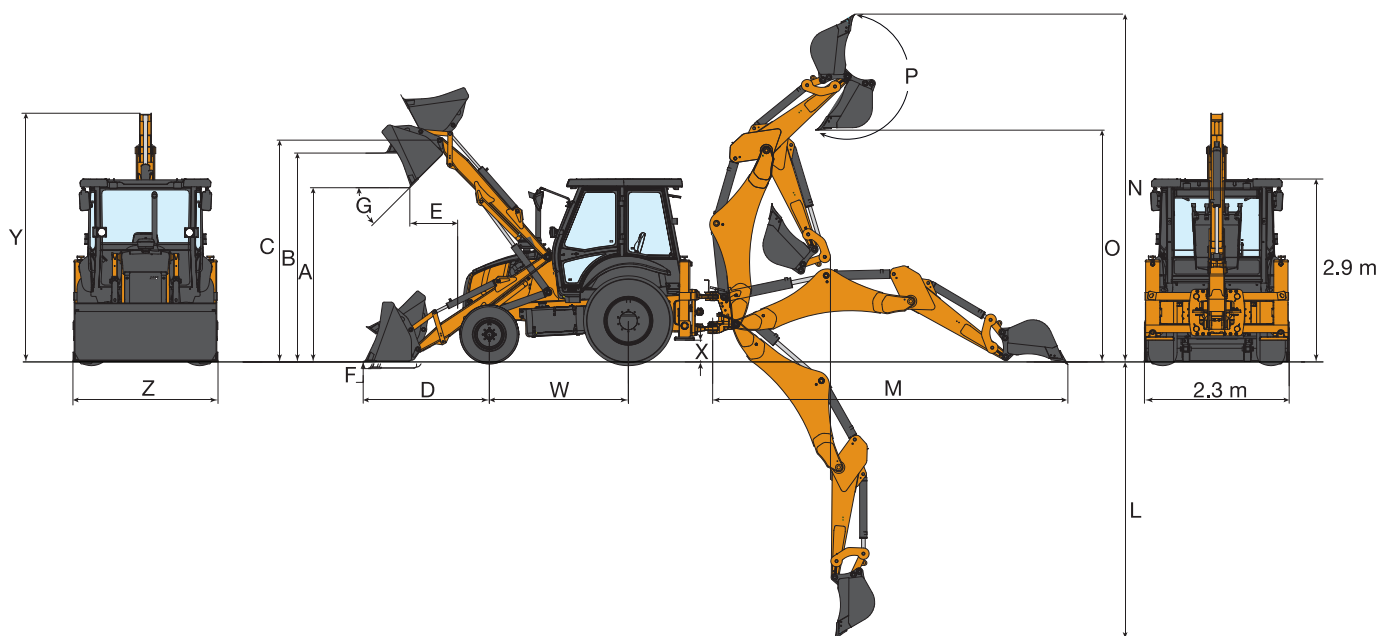
## OPTIONAL BUCKETS

### 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

# PRO SERIES LOADER BACKHOE

## SPEC SHEET



### LOADER

<b>A</b> Dump height	2.7 m
<b>B</b> Load over weight	3.3 m
<b>C</b> Hinge pin height	3.6 m
<b>D</b> Reach at ground	2.1 m
<b>E</b> Reach at full height-bucket dumped	0.9 m
<b>F</b> Below ground level-dig depth	0.1 m
<b>G</b> Dump angle	45°
<b>Bucket capacity</b>	1.2 cu m
<b>Loader bucket breakout force</b>	6570 kgf
<b>Pay load</b>	2050 kg
<b>Maximum lifting capacity @ max height</b>	3700 kg

### BOTTOM DUMP BUCKET

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

<b>Bucket width outside</b>	2.3 m
<b>Width of dozer blade</b>	2.3 m
<b>Maximum clamp opening</b>	0.9 m
<b>Bucket capacity (SAE HEAPED)</b>	1.0 cu m
<b>Dump height</b>	2.7 m

### 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

### BACKHOE

<b>L</b> Max. Dig depth	4.7 m
<b>M</b> Reach ground level to swing center	5.9 m
<b>N</b> Max. Working height	5.7 m
<b>O</b> Max. Load over height	3.8 m
<b>P</b> Bucket rotation	204°
<b>Bucket breakout force</b>	5630 kgf
<b>Dipper digging force</b>	3950 kgf
<b>Max. Lift capacity</b>	1530 kgf
<b>Safe working load @ 3.2 meter radius</b>	1100 kg

### OVERALL DIMENSIONS AND WEIGHTS

<b>Overall operating weight</b>	8230 kg
<b>W</b> Wheel base	2.2 m
<b>X</b> Minimum ground clearance	0.4 m
<b>Y</b> Overall height (Transport Position)	3.8 m
<b>Z</b> Width over bucket (Transport Position)	2.8 m

### 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 (EXTENDAHOE)
- Ripper Tooth
- Wood Log Grapple
- Limestone Scraper
- Full covered Engine Hood
- Grammer Operator Seat

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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)

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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. Disclaimer: 2.5% variation on parameters may occur and is acceptable by the industry norms

**CASE** Customer Assistance  
**1800 4199 770**

