

**LOADER BACKHOE
851EX - CENTER PIVOT**

CASE
CONSTRUCTION



**THE DAWN
OF A NEW ERA**

www.casece.com

**EXPERTS FOR THE REAL WORLD
SINCE 1842**

PRO SERIES LOADER BACKHOE

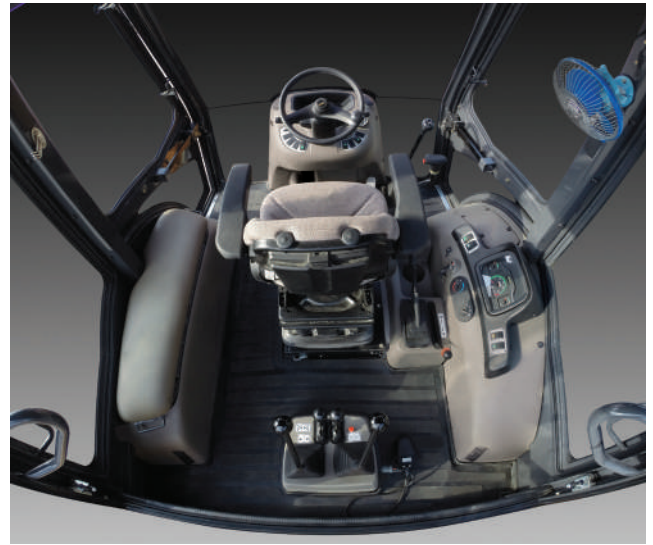
CASE 851EX



EXCELLENT VISIBILITY

Get the complete picture

Best-in-class spacious Operator Station 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 Station 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 extendahoe allows the operator to increase overall Loader Backhoe capacity, keeping the same strength of the standard dipper. The CASE Loader Backhoe with Extendahoe 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.



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

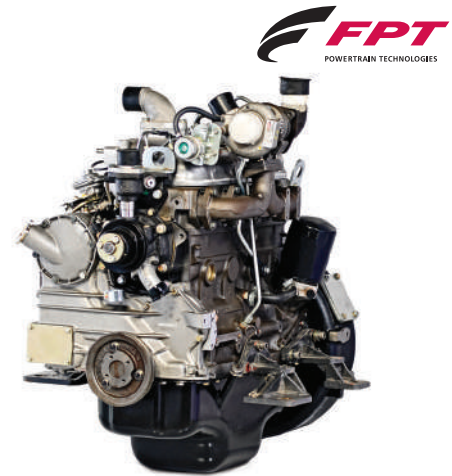
The power shuttle transmission provides four speeds, forward and reverse. Hydraulically shifted clutches allow on-the-go direction and travel speed shifts. Modulation valves deliver smooth speed and directional shifts. 4WD improves performances especially with the loader or when job site conditions are muddy and extra traction is mandatory. The new 2-cylinder steering front axle is mounted above the center pivot and can oscillate to ± 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 highpower 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.





APPLICATIONS

Many customers will find the CASE Loader Backhoe 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 Loader Backhoe 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 on 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.



ROADS AND BRIDGES

Valuable partner

The CASE Loader Backhoe is an ideal asset in any road construction site - from large scale super-highway 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 Loader Backhoe have power capacity to complete it with a minimal operating costs.



AGRICULTURE

Wide field

CASE continues to be the preferred choice for palm oil plantations and mills across all the Southeast Asia customers, especially for the low fuel consumption, the easy serviceability and the high versatility in maintaining plantations roads and digging canals.

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 speed
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

Tyre Size

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

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

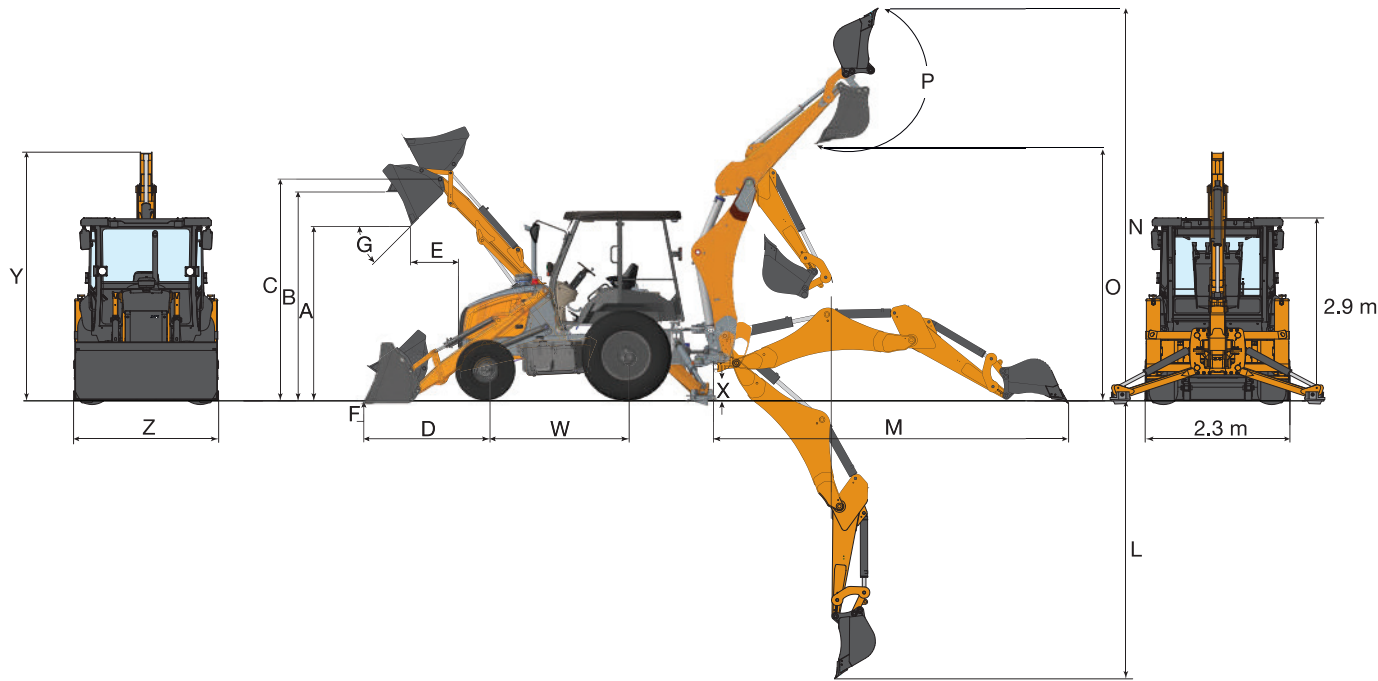
OPTIONAL BUCKETS

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

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

BOTTOM DUMP BUCKET

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

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

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

OVERALL DIMENSIONS AND WEIGHTS

	Overall operating weight	7711 kgs
W	Wheel base	2.2 m
X	Minimum ground clearance	0.4 m
Y	Overall height (Transport Position)	3.8 m
Z	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
- Full covered Engine Hood
- Extended Dipper (EXTENDAHOE)
- Ripper Tooth
- Wood Log Grapple
- Limestone Scraper
- Grammer Operator Seat

www.casece.com

EXPERTS FOR THE REAL WORLD
SINCE 1842

CASE
CONSTRUCTION



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

Corporate Identity Number: U29240DL1998PTC344616

CASE NEW HOLLAND CONSTRUCTION EQUIPMENT (INDIA) PRIVATE LIMITED

Level-4, Rectangle-1, D-4

District Center, Commercial Complex

Saket, New Delhi - 110017

Contact No.: 011-66544151 | Email: caseindia@cnhind.com

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

