





ACROSS HISTORY



1842 J.I. CASE company

is founded.



1959

CASE introduces industry's first diesel-powered loader backhoe.



1999

Fiat Group acquires

merges it with New

Case Corporation and

Holland N.V. to create

CNH Global, a world leader in farm machinery

and construction equipment.



2013

CASE introduces fuel efficient FPT engines in its India product range

2010



2017

CASE celebrates FPT S8000 Engine.



175 years of history. EX Series launched in India, powered by



1940

1980

2000



CASE produces the first factoryintegrated

1957



1989-90

CASE introduced its first loader backhoe in India.



2005

CASE manufactures the 500,000th loader backhoe.



2020

CASE presents 580 EV, industry's first Fully Electric award winning loader backhoe.



2021

CASE presents FX series loader backhoes with FPT BS4 engine and class leading operator station.



FX SERIES

LOADER BACKHOES

CASE presented the world with its first ever factory-integrated Loader Backhoe. Over the years, many other industry firsts were added to these wonder machines. Now, CASE presents its latest offering in Loader Backhoes, the FX Series. Boasting of a BS4 engine and class leading operator station, FX Series is a revolutionary step towards an extended care for the people and environment, something that has always been part of the CASE DNA.

The world-class manufacturing facility at Pithampur is in sync with the vision of Make in India for the world. The facility takes the pride of manufacturing machines that are in turn exported to 25 countries.





MAIN REASONS

TO CHOOSE FX SERIES



A LEGACY OF HIGH PERFORMANCE

Efficient CEV-IV compliant FPT engine with high power and torque density coupled with proven transmission provides best-in-class dozing, stockpiling and travel capability.



IMPROVED OPERATOR STATION

Electronic hand throttle and foot accelerator pedal, increased storage spaces, one touch idle, intuitive side cluster, comfortable and multi-adjustable operator seat in a spacious world-class cabin improve productivity for every operator.

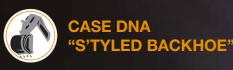


HIGH VISIBILITY

Sloping bonnet, new side quarter windows, newly positioned work lamps and New Gen Low Glare Cabin interiors improve all around visibility.



The improved FNR lever location supports fast directional change, improving site manoeuvrability and productivity.



The new backhoe represents the continuity of CASE DNA. The S'tyled boom provides higher reach and better digging depth.



STRAIGHT

The CASE straight loader arm ensures better work visibility, loading performance and good site manoeuvrability. It also ensures less daily maintenance time



BIGGER AND BETTER

With the new FX series you can reach further and dig more per cycle. The backhoe offers class leading forces, various bucket sizes and dipper options.



IMPROVED FUEL EFFICIENCY

Advanced hydraulic system along with VVP provides fuel savings of ~12-14%. With the new ECO mode and Auto idling feature, fuel savings go up to 20%



TECHNICAL

High operating weight for best-in-class travel stability, leading breakout forces for the toughest terrains and improved ease of use with the new age controls.



BETTER STRUCTURE

Robot welded boom, dipper and chassis. Long lasting axles, pins & bushes and protected hoses.



ENHANCEI Safety

New age inclined pillar cabin provides better travel safety. Engine Protection Shutdown protects against unplanned breakdown and AV warning system makes operations safer.

3

BS4

FOR THE ENVIRONMENT

BS4 ADVANCED EMISSION NORMS

BS4 (CEV) Regulation

In this revolutionary engine, particulate matter emission (PM) will be reduced by 16 times, Hydro Carbons (HC) and Nitrous Oxide (NOx) emission will also go down by seven times. It banks upon Diesel Oxidation Catalysts (DOC) to reduce harmful emissions dramatically. Using Superior technology, AD-BLUE: 32.5% Urea Solution is injected into Selective Catalyst Reduction (SCR) with a rate <10% of fuel consumption, which leads to reduced NOx emissions.

Superior Technology to Boost Efficiency

The all new FPT BS4 (CEV) 74 hp (55 kW) engine is 6% more fuel efficient and offers better response time owing to ECU. At the same time, its 97 hp (72 kW) variant is 6%



FPT ELECTRONIC ENGINE

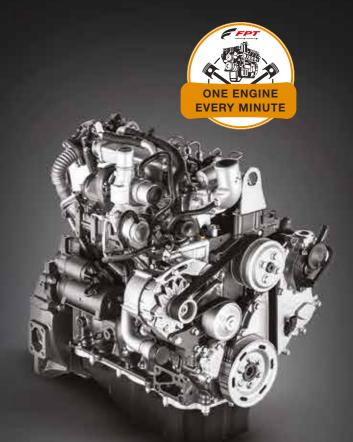
The New FX series offers FPT Electronic engine, which accurately controls the fuel injection to optimize the power delivery compared to mechanically controlled BS3 engines.

Upgrades and Advantages

FPT BS4 engine offers high performance with better power and torque management, better driveability and improved fuel efficiency.

Aftermarket Support

BS4 engines are highly dependable as they are designed and proven in Indian conditions. To ensure field readiness for the new generation engines, the vast network of dealers and support staff have been trained and certified for addressing BS4 engine technology.



NEW GENERATION HYDRAULICS

Variable Displacement Pump

New generation hydraulics with VVP optimizes hydraulic oil flow as per load and improves fuel consumption up to 14%, which combined with ECO MODE and AUTO IDLE offer up to 20% better fuel economy and potential savings worth ₹2.2 lakh annually. It also offers faster cycle time compared to gear pump, thereby improving the productivity.



Displacement Pump



Up то 14%* **Fuel Savings With** Variable Pump



Fx Series Offers Up To 20% Fuel Savings

Automatically limits the peak engine rpm both in Backhoe and Loader function depending on the seat position.



One Touch Idle

If no hydraulic operations are active, Engine comes to idle rpm (950 rpm) after a predefined time, thereby reducing the wastage of fuel.



*T&C apply

Under standard test conditions when compared to earlier model



COMFORTABLE AND PRODUCTIVE OPERATOR STATION

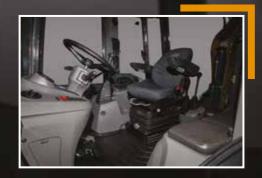


- The new gen MID analogue gauges showing critical machine parameters
- Digital screen for setting machine parameters/ diagnostics
- Audio and visual warning system, which alerts the operator in case any of the critical parameters are outside the acceptable range
- Engine protection shutdown
- On-cluster controls ECO mode, Auto idle, Electronic RPM knob, 2WD/4WD selector and Electrical side shift
- Pillar mounted HVAC controls and mobile holder with net (Optional)
- Additional storage spaces on rear side and floor area with new bottle holder



FRONT – Travel and Loader Controls

- New parking brake mechanism easy to access and operate vs ground placed setup
- Relocated FNR Lever can be operated without removing the hand off the steering
- · Large cushioned steering wheel
- Operator seat position Seat position shifted towards steering wheel to have better control of steering, foot pedals and front dashboard
- Electronic accelerator pedal low effort and high accuracy
- · Low effort loader lever



LEFT – Entry and Exit

- LH door accessible from the operator seat
- Improved leg clearance turning from Loader to Backhoe and vice versa
- Larger buddy seat with lockable storage compartment
- Large side windows with easy open lever and auto latch mechanism



REAR - Backhoe Controls

- New side quarter window gives better
- Improved efforts of rear sliding door
- Backhoe lever mounted horn
- Low effort backhoe and stabilizer levers

UNMATCHED

PRODUCTIVITY

Rear Quarter Window

Provides all round rear visibility and enhanced productivity. Reduced blind spots add to the safety of surroundings.

New Improved FNR Lever

The new FNR lever is close to the steering wheel, which ensures easier accessibility. It can be operated with hands on the steering wheel, making operations more efficient.

Large Cushioned Steering Wheel

Increased steering size from 340mm to 380mm offers lower effort of operation with better control and manoeuvrability.

Backhoe and Loader Lever Effort

Get comfortable and fatigue-free machine operations with the improved backhoe and loader levers. This ease and comfort increase the machine work hours for the operators, thereby enhancing productivity.

High Profile Bucket*

New spill proof loader bucket improves bucket spill ratio, thereby enhancing loader productivity.

Increased Swing Tower Ground Clearance

Improvement in ground clearance by 2 inches enhances













EASY

MAINTENANCE

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 the main components.



CASE GENUINE LUBRICANTS

POWER. PROTECTION. PERFORMANCE.

Especially formulated for CASE equipment, to keep them healthy and young for superior performance.



SAFER OPERATIONS LONGER WORK LIFE

Audio Visual Warning System

Quick information for serviceability that enhances the life of machine components, thus, reducing maintenance costs.

Machine error diagnostics prevent any major failures resulting in

Machine error diagnostics prevent any major failures resulting in higher productivity and extended work hours.

Engine Protection Shut Down

This feature will optionally allow the Vehicle Control Module (VCM) to shut down the engine if any of the critical operating parameters are out of the acceptable range like engine oil pressure, coolant temperature, transmission oil temperature, low DEF level and high DEF consumption etc. This will ensure that machine is protected against any major failure/breakdown and is failsafe for any unplanned expenses for the machine owner.



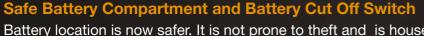
Backhoe Lever Mounted Horn

Excavator like horn mounted on the backhoe lever, improve, the safety of the surroundings.



Jump Start

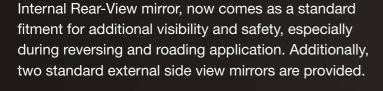
In case battery gets over-discharged, this feature allows operator to short the battery with external power source and start the engine.



Battery location is now safer. It is not prone to theft and is housed in a dust free environment that gives better life to the machine and results in lowered maintenance costs. Battery cut off switch is easy to use and secured.



Rear View Mirror







PEACE OF MIND EASE OF MAINTENANCE



CASE Machines are designed to exceed expectations, CASE Care helps to keep your machine performing at its peak.



As a customer of CASE Construction, you deserve the additional peace of mind of knowing that your product is covered, in case of an unexpected return. CASE Protect removes the burden of cost and the inconvenience of mechanical failure once your manufacturer's warranty has expired.





A robust dealer network, a fully stocked central warehouse and our well-connected depots help us in the smooth and on-time delivery of parts and services, thus, decreasing downtime and maximizing productivity and efficiency of your machine.

APPLICATIONS AND ATTACHMENTS

Complete Solutions for Every Need and Application

Brick Kiln | Crusher Application | Road and General Construction Municipal Solid Waste Management | Trenching and Pipe-laying













Attachments

Rock Breaker | Auger (Drill) for Plantation, Fencing and Light Pole | 4-in-1 and 6-in-1 BDB buckets **Bucket Options**

Backhoe - 0.08, 0.12, 0.18, 0.22 m³. Loader - 1.0, 1.1, 1.2 m³.





















PALLET FORK







-	
THUMBS	

ENGINE		FPT		
Engine Model	F5HFL463A*W F5BFL413A*W			
Emission Compliant	Tier 4B			
Engine Displacement (L)	3.4			
Engine Air Intake Type	Turbocharged			
Engine Gross Power @2200 rpm	55 kW (74 hp)		72 kW (97 hp)	
Engine Max. Torque @1400 rpm (Nm)	325 Nm		453 Nm	
HYDRAULIC SYSTEM				
System Type	Open	Centre	Closed	Centre
Pump Type	Gear	Variable	Gear	Variable
		Displacement		Displacement
Pump Flow (lpm) @rated rpm	123	143	154	156
System Relief Pressure (bar)	195		210	
LOADER GENERAL DIMENSIONS				
A - Dump Height (m)	. •		66	
B - Load Over Height (m)	3.3			
C - Hinge Pin Height (m)			3.6	
D - Hinge Pin Forward Reach (m) E - Reach at Ground (m)	4	0.5		08
F - Max. Reach at Full Height (m)		98 1 10 (2WD)		
G - Max. Reach at Full Height-Bucket		1.19 (2WD),		
Dumped (m)	0.	76	0.	84
H - Below Ground Level-Dig Depth (m)		0.	11	
I - Rollback at Ground (degree)		3	3	
J - Dump Angle (degree)	45			
Bucket Capacity Std. (m³)	1	.1	1	.2
Bucket Breakout Force (kgf/ kN)	5805/ 56.9	6250/61.3		/ 54.1
				.29 (BDB)
Loader Arm Breakout Force (kgf/ kN)	4750/ 46.6	5115/50.2		/ 48.4).2 (BDB)
Max. Lifting Capacity @Max. Height	3515		3700	J.Z (DDD)
BACKHOE GENERAL DIMENSIONS	0010		0.00	
	4.2 m /1.4ff)		4.C m /1.Eff)	
Dipper Configuration K - Max. Dig Depth (m)	4.3 m (14ft) 4.40	4.6 m (15ft) 4.70		
L - Reach Ground Level to Swing Center (m)		5.90		
M - Reach-Ground Level to Rear Wheel				
Centre (m)	6.95	6.95 7.23		
N - Reach at Full Height to Slew Centre (m				
O- Max. Working Height (m)	5.5	5.7		
P - Max. Load Over Height (m)	0.00	3.8		
Bucket Capacity (m³) Q - Bucket Rotation (degree)	0.26	0.30		
Bucket Breakout Force (kgf/ kN)	5206 / 51.0 5616 / 55.1			
Dipper Tearout Force (kgf/ kN)	3031/29.72			
Max. Lift Capacity (kg)	1330		1530	
Safe Working Load (kg) @3.2m Radius	1000	1100		
OVERALL DIMENSIONS AND WEIGHTS	S			
Max. Operating Weight (kg)	7600	7920	81	00
Transport Length (m)	5.88	5.96		06
R - Width Over Stabilizer (m)		2.:		
S - Width Over Bucket (m)	2.30			
Track Width- Rear (m)		1.70		
Track width- Front (m)		1.88 (2WD),	1.90 (4WD)
T - Wheelbase (m)		2.		
U - Minimum Ground Clearance (m)	0.38			
V - Height to Top of Cabin (m)	2.83			
W - Overall Transport Height (m)		3.8	35	
			+	F D

MODEL

770FX 770FX+ 851FX/ 851FX FX CP FX+ C

SERVICE CAPACITIES			
Engine Oil (L) - System	9.1		
Rear Axle (L)	17.1		
Hydraulic Oil (L) - System/ Replacement	107		
Transmission Oil (L) - System	18-2WD, 20-4WD		
DEF Tank Capacity (L)	21 (851FX/FX+)		
Fuel Tank (L)	129		
Coolant (L)	20		
POWER TRAIN			
Power Train Type	Power Shuttle with TC		
Transmission Make and Model	CARRARO 2WD/4WD TLB1		
AXLE			
Rear	CARRARO 28.32M		
Front	CARRARO 28.32M (2WD)		
Front	CNH PS1300 (4WD)		
Front Axle Oscillation (degree)	±21 (2WD), ±16 (4WD)		
STEERING			
Туре	Power Steering		
System Pressure (bar)	140		
Pump Displacement (cc)	125		
Turning Circle Outside Bucket-Braked (m)	9.2 (2WD), 9.8 (4WD)		
Turning Circle Outside Bucket-Not	11.1 (2WD), 11.2 (4WD)		
Braked (m)	11.1 (2WD), 11.2 (4WD)		
BRAKES			
Service	Wet Multi Discs, 4 Discs		
Parking	Manual with Lever		
TYRE			
2WD - Standard - Front	9.0 x 16 – 16 PR		
2WD - Standard - Front 2WD - Standard - Rear	16.9 x 28 – 12 PR		
2WD - Heavy Duty - Rear	14.0 x 25 – 20 PR		
4WD - Heavy Duty - Front	12.5 x 18 – 12 PR		
4WD - Standard - Rear	16.9 x 28 – 12 PR		
ELECTRICAL SYSTEM			
Battery	12 volts, 110 Ah		
TRAVEL SPEED	12 VOIG, 110 All		
THAVEE OF ELD			
	770FX/FX+: 5.7/9.1/19.5/34.9		
Forward (1st/2nd/3rd/4th) (km/ hr)			
Forward (1st/2nd/3rd/4th) (km/ hr)	851FX/FX+: 6.2/10.0/20.7/39.2		
	851FX/FX+: 6.2/10.0/20.7/39.2		
Forward (1st/2nd/3rd/4th) (km/ hr)	851FX/FX+: 6.2/10.0/20.7/39.2 770FX/FX+: 7.0/11.2/23.8/NR		
Forward (1st/2nd/3rd/4th) (km/ hr) Reverse (1st/2nd/3rd/4th) (km/ hr) OPTIONAL EQUIPMENT	851FX/FX+: 6.2/10.0/20.7/39.2 770FX/FX+: 7.0/11.2/23.8/NR 851FX/FX+: 7.4/12.0/24.8/NR		
Forward (1st/2nd/3rd/4th) (km/ hr) Reverse (1st/2nd/3rd/4th) (km/ hr)	851FX/FX+: 6.2/10.0/20.7/39.2 770FX/FX+: 7.0/11.2/23.8/NR		
Forward (1st/2nd/3rd/4th) (km/ hr) Reverse (1st/2nd/3rd/4th) (km/ hr) OPTIONAL EQUIPMENT Cabin	851FX/FX+: 6.2/10.0/20.7/39.2 770FX/FX+: 7.0/11.2/23.8/NR 851FX/FX+: 7.4/12.0/24.8/NR HVAC		
Forward (1st/2nd/3rd/4th) (km/ hr) Reverse (1st/2nd/3rd/4th) (km/ hr) OPTIONAL EQUIPMENT Cabin Drive	851FX/FX+: 6.2/10.0/20.7/39.2 770FX/FX+: 7.0/11.2/23.8/NR 851FX/FX+: 7.4/12.0/24.8/NR HVAC 4WD		
Forward (1st/2nd/3rd/4th) (km/ hr) Reverse (1st/2nd/3rd/4th) (km/ hr) OPTIONAL EQUIPMENT Cabin Drive Fenders	851FX/FX+: 6.2/10.0/20.7/39.2 770FX/FX+: 7.0/11.2/23.8/NR 851FX/FX+: 7.4/12.0/24.8/NR HVAC 4WD Front in 4WD		
Forward (1st/2nd/3rd/4th) (km/ hr) Reverse (1st/2nd/3rd/4th) (km/ hr) OPTIONAL EQUIPMENT Cabin Drive Fenders Loader Bucket	851FX/FX+: 6.2/10.0/20.7/39.2 770FX/FX+: 7.0/11.2/23.8/NR 851FX/FX+: 7.4/12.0/24.8/NR HVAC 4WD Front in 4WD Bottom Dump Bucket		
Forward (1st/2nd/3rd/4th) (km/ hr) Reverse (1st/2nd/3rd/4th) (km/ hr) OPTIONAL EQUIPMENT Cabin Drive Fenders Loader Bucket Dipper	851FX/FX+: 6.2/10.0/20.7/39.2 770FX/FX+: 7.0/11.2/23.8/NR 851FX/FX+: 7.4/12.0/24.8/NR HVAC 4WD Front in 4WD Bottom Dump Bucket Extendahoe		
Forward (1st/2nd/3rd/4th) (km/ hr) Reverse (1st/2nd/3rd/4th) (km/ hr) OPTIONAL EQUIPMENT Cabin Drive Fenders Loader Bucket Dipper Counterweight	851FX/FX+: 6.2/10.0/20.7/39.2 770FX/FX+: 7.0/11.2/23.8/NR 851FX/FX+: 7.4/12.0/24.8/NR HVAC 4WD Front in 4WD Bottom Dump Bucket Extendahoe Light/Heavy/NC 14ft & 15ft (4.3 m & 4.6 m)		
Forward (1st/2nd/3rd/4th) (km/ hr) Reverse (1st/2nd/3rd/4th) (km/ hr) OPTIONAL EQUIPMENT Cabin Drive Fenders Loader Bucket Dipper Counterweight	851FX/FX+: 6.2/10.0/20.7/39.2 770FX/FX+: 7.0/11.2/23.8/NR 851FX/FX+: 7.4/12.0/24.8/NR HVAC 4WD Front in 4WD Bottom Dump Bucket Extendahoe Light/Heavy/NC 14ft & 15ft (4.3 m & 4.6 m) 110 - 770FX		
Forward (1st/2nd/3rd/4th) (km/ hr) Reverse (1st/2nd/3rd/4th) (km/ hr) OPTIONAL EQUIPMENT Cabin Drive Fenders Loader Bucket Dipper Counterweight Dipper Option	851FX/FX+: 6.2/10.0/20.7/39.2 770FX/FX+: 7.0/11.2/23.8/NR 851FX/FX+: 7.4/12.0/24.8/NR HVAC 4WD Front in 4WD Bottom Dump Bucket Extendahoe Light/Heavy/NC 14ft & 15ft (4.3 m & 4.6 m)		

