

770EX | 770EX MAGNUM | 851EX







AT THE HEART OF THE NEW EX SERIES

S8000: a world of applications. Since its launch the S8000 engine family has met with unequalled success. It has built a strong reputation for performance, economy and reliability with more than 600,000 units at work throughout the world in a wide variety of applications:



AGRICULTURAL EQUIPMENT

COMMERCIAL VEHICLES

GENERATORS

IRRIGATION PUMPS

MARINE APPLICATIONS



A legacy of high performance

Case knows that power and performance are critical to the success of a machine. The new generation \$8000 engine, developed by Fiat Powertrain Technologies Industrial (FPT Industrial), is a 3.9-liter 4 cylinders engine, turbo charged after cooled with a mechanical injection system. The S8000 provides outstanding performances such as faster response time and up to 10% better fuel economy. It is ARAI certified as BS3 thanks to its EGR technology.

The very first generation of the S8000 engine family was born in 1967. Launched as Series 800, it already showed the exceptional versatility that made it an extraordinary success. Since the first models entered production over 45 years ago, the S8000 engine family has undergone a continuous evolution, introducing a multiplicity of innovations to constantly increase power, performance and efficiency.



FPT Industrial: technological partner

Fiat Powertrain Industrial – known around the world as FPT Industrial – is one of the world's leading players in the development and production of engines, axles and transmissions for on-road, off-road, marine and power generation applications.

The 3 versions of S8000 engines for the 76 hp, 86 hp and 96 hp Case loader backhoes are manufactured on a dedicated state of- the-art fabrication and assembly line in Greater Noida, where advanced testing equipment puts every engine though rigorous quality checks at every key stage of production. Working closely with world leading components suppliers, we can guarantee that our engines are built to the highest quality standards, which ensure outstanding reliability and durability.







Serviceability

The EX Series has been designed to optimize serviceability. The tilting hood provides operators with fast and easy access to service points for daily maintenance.

Extraordinary fuel efficiency

The S8000 engine is equipped with a Charge Air Cooler to improve and optimize air induction. This solution provides outstanding fuel consumption during both production and travel, and especially on backhoe digging applications.



FUEL CONSUMPTION	l/hr
Trenching	3.97
Truck Loading	4.23

Values can vary due to working conditions and operator skills

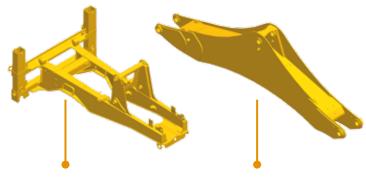
THE EXPERT PRODUCTIVE PARTNER







Large box-section structures with thick, multi-plate fabrications, castings, and forgings are used in high-stress areas such as the boom nose, boom foot, boom cylinder, and stick foot to improve durability.



The robotically welded two-piece structural frame design provides a rugged and reliable foundation for the machine that improves stability, performance, and serviceability.



Axles

The axles are designed to handle extreme applications resulting in reliable performance and extended life. The new 2-cylinder steering front axle is mounted above the center pivot and can oscillate to ± 13 degrees, so that all four wheels stay on the ground ensuring great stability even on the roughest terrains.



Transmission

The power shuttle transmission provides four speeds forward and reverse. Hydraulically shifted clutches allow on-the-go direction and travel speed shifts. Control valves deliver smooth speed and directional shifts.

4WD option improves mobility and loader performance where job site conditions are muddy and extra traction is mandatory.



EXCEPTIONAL ALL ROUND VISIBILITY AND COMFORT



A comfortable operator is a confident and productive one

The EX Series features, the largest cab in the industry, offering a comfortable working space for both the operator and a possible helper. All EX Series backhoe loaders share the same spacious and ergonomic cab design.

Enter the cab to see and feel how the EX Series cab sets a new benchmark in operator comfort. Visibility is excellent to the rear and to the bucket edge. The large size glazed windows and narrow cab columns put you in command with clear, all-round visibility. The very good view to the attachment and corners improves comfort and jobsite safety, for greater productivity

This spacious cab has redesigned ergonomics to offer better operator comfort. All the controls have been specially positioned to offer easy access and faster control. The large window improves air ventilation in the cab and facilitates communication to the back of the machine. The cabin has a large buddy seat along with storage compartments, mobile charger, document holder, bottle holder and radio.





Visibility

The 6 post cab with plenty of floor to ceiling windows provides excellent visibility to improve both operator performance and jobsite safety.





Controls

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.

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Specifications

Specifications	770EX	770EX MAGNUM	851EX	
ENGINE				
Engine model code		8040.45		
Туре		TCA		
Bore		104 mm		
Stroke		115 mm		
Displacement		3.91		
Compression ratio		18.3:1		
Horsepower - rated at 2200 RPM	76 hp	86 hp	96 hp	
Maximum torque at 1300 RPM	332 Nm	402 Nm	420 Nm	
Engine speeds	,			
Rated speed, full load		2200		
Low idle speed (at no load)		950		
POWER TRAIN	-			
Transmission - Standard				
Model		CARRARO 2WD TLB1		
Туре	Power Sh	uttle with 4 forward and 4 reverse to	ravel gears	
Gear	Forward (speed kmpl	1)	Reverse (speed kmph)	
1st	6.2		7.4	
2nd	10		12	
3rd	20.7		Not Recom.	
4th	39.2		Not Recom.	
Transmission - Optional		,		
Model		CARRARO 4WD TLB1		
Туре	Power Shu	Power Shuttle with 4 forward and 4 reverse travel speeds		
Gear	Forward (speed kmpl	1)	Reverse (speed kmph)	
1st	6.2		7.4	
2nd	10		12	
3rd	20.7		Not Recom.	
4th	39.2		Not Recom.	
Front axle				
2 Wheel Drive (Standard)				
Model		CNH PS1300		
Туре		Steering		
4 Wheel Drive (Optional)				
Model		Carraro 26.17		
Туре	Steering			
Rear axle				
Make & Model	CARRARO 28.32M			
Туре	Rigid			
Brakes	1			
Service Brakes				
Туре		Wet multi-discs		
No. of discs		6		
Parking Brakes				
Туре	1	Manual, with lever		

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TYRE SIZE				
Recommended				
Standard - Front		9.0x16 - 16 PR		
Standard - Rear		16.9x28 - 12 PR		
Heavyduty - Front		12.5x18 - 12 PR		
Heavyduty - rear		14x25 - 20 PR		
HYDRAULIC SYSTEM				
Туре		Gear pump		
Flow rate	123 lpm @2200 RPM	123 lpm @2200 RPM	151 lpm @2200 RPM	
Pressure	190 Bar	210 Bar	210 Bar	
STEERING				
Туре		Power Steering		
System pressure		140 Bar		
Displacement		125 cc		
Turning radius (Outside of the Bucket)				
With Brake		4600 mm		
Without Brake	5550 mm			
Tread width				
Front		1884 mm		
Rear		1697 mm		

Buckets

Loader buckets

Loudoi buoitoto	
Туре	Standard
Heaped capacity (SAE capacity)	1.0 Cum.
Width	2277 mm
Weight	400 kg
Backhoe buckets	
Heaped capacity (SAE capacity)	0.26 Cum.
Width	762 mm
Weight	240 kg

Optional buckets

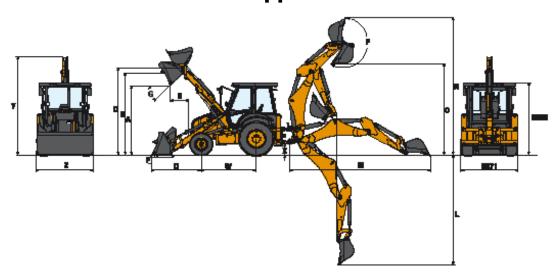
	Capacity (SAE I)
Loader HD	630
Loader HD	760
Loader GP	900
Loader GP	1000
Loader coal handling	1200
Loader Garbage handling (without teeth)	1500
Bull Clam	1000
Backhoe Trenching	80
Backhoe Trenching	120
Backhoe Trenching	180
Backhoe Trenching	260
Backhoe Trapezoidal	300
Ditch Cleaning (without teeth)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

Service capacities

Engine Oil	11 Ltr
Transmission Oil	16 Ltr
Rear Axle Oil	18 Ltr
Hydraulic Oil	130 Ltr
Fuel Tank	142 Ltr
Coolant	20 Ltr

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General Dimensions Standard Dipper



LOADER		770EX	770EX MAGNUM	851EX
A Dump height	mm	2732		
B Load over height	mm	3275		
C Hinge pin height	mm		3478	
D Reach at ground	mm		1980	
E Reach at full height-bucket dumped	mm		751	
F Below ground level-dig depth	mm		106	
G Dump angle	0		45	
Loader bucket breakout force	kgf	5720	6570	6570
Bucket capacity	Cum.	1.0		
Pay load	kg	1760 1900 1900		
Maximum lifting capacity @ max height	kg	3425 3700 3700		
BACKHOE				
L Max.dig depth	mm	4363		
M Reach ground level to swing center	mm	5574		
N Max working height	mm	5455		
O Max load over height	mm	3636		
P Bucket rotation	0	204		
Bucket breakout force	kgf	5000	5630	5630
Dipper digging force	kgf	3725	4300	4300
Loading reach	mm	2232	2232	2232
Safe working load @ 3.2 mtr radius	kg	1000	1100	1100

BOTTOM DUMP BUCKET

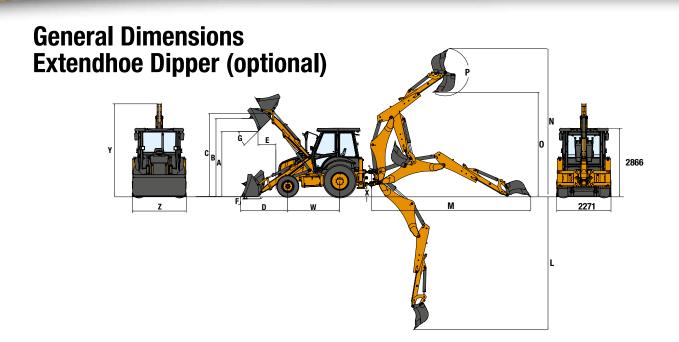
This multipurpose bucket is ideal for digging, loading, dozing, backfilling, grading and grab operation.

backining, grading and grab operation.		
Bucket width Outside	mm	2265
Width of dozer blade	mm	2280
Maximum Clamp Opening	mm	977
Bucket capacity (SAE HEAPED)	Cu.m	1.0
Dump height	mm	2710

OVERALL DIMENSIONS AND WEIGHTS

Overall operating weight *	kgs	7710
W Wheel base	mm	2181
X Minimum ground clearence	mm	399
Y Overall height (Transport)	mm	3901
Z Width over bucket (Transport)	mm	2277

 $^{^{\}star}$ Operating weight with 1 Cum loader bucket and 0.26 Cum backhoe bucket, standard dipper, 80 Kg operator and full fuel tank.



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Loader bucket breakout force	kgf	5720	6570	6570
Bucket capacity	Cum.	1.0		
Pay load	kg	1760 1900 1900		
Maximum lifting capacity @ max height	kg	3425 3700 3700		
BACKHOE				
L Max.dig depth	mm	5583		
M Reach ground level to swing center	mm	6695		
N Max working height	mm	6195		
O Max load over height	mm	4376		
P Bucket rotation	0	204		
Bucket breakout force	kgf	5000	5630	5630
Dipper digging force	kgf	3725	4300	4300
Loading reach	mm	2232	2232	2232
Safe working load @ 3.2 mtr radius	kg	1000	1100	1100

Standard equipment

a) Instrumentation:

- Speedometer
- RPM meter
- · digital hour counter
- fuel level indicator
- Engine coolant temperature gauge
- Switches for operating the working lamps, cabin fan, declutch,& hazard lamps

b) Electrical & Lights

- 2 Head lights in front with Parking lights & direction indications
- Cabin lamps
- Fai
- 2 rear working lamps for backhoe operation
- Spacious battery box on RH side for easy access and maintenance

Optional equipment

4-Wheel Drive (4x4 Traction)

Rockbreaker

Lifting arrangement

Extending type dipper

1.1 Cum and 1.2 Cum loader bucket with teeth

Bottom dump bucket

Ripper Tooth

Backfill blade

Heavy duty tyres -14X25 - 20 PR

Dozer blade

Lime Stone scraper

Wood log grapple







Parts and Service

Wide network of customer support across India.

In India, Case equipment are sold and serviced by more than 60 dealers at more than 180 touch points to serve the needs of our customers. 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/en in



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.

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Specifications subject to change without notice due to product upgradation.



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