

BACKHOE LOADER
770EX MAGNUM

CASE
CONSTRUCTION



HIGH ON PRODUCTIVITY.
HIGHEST FUEL EFFICIENCY.

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EXPERTS FOR THE REAL WORLD
SINCE 1842

SPECIFICATIONS

770 EX MAGNUM

ENGINE

Engine model code _____ 8040.45.731
 Type _____ TCA
 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
 Low idle speed (at no load) _____ 950

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

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

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
 Differential lock _____ Electrical/Mechanical

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 _____ 4600 mm
 Without Brake _____ 5550 mm

Tread width

Front _____ 1884 mm
 Rear _____ 1697 mm

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) _____ 1.0 Cum.
 Width _____ 2277 mm
 Weight _____ 400 kg

Backhoe buckets

Heaped capacity (SAE capacity) _____ 0.26 Cum.
 Width _____ 762 mm
 Weight _____ 240 kg

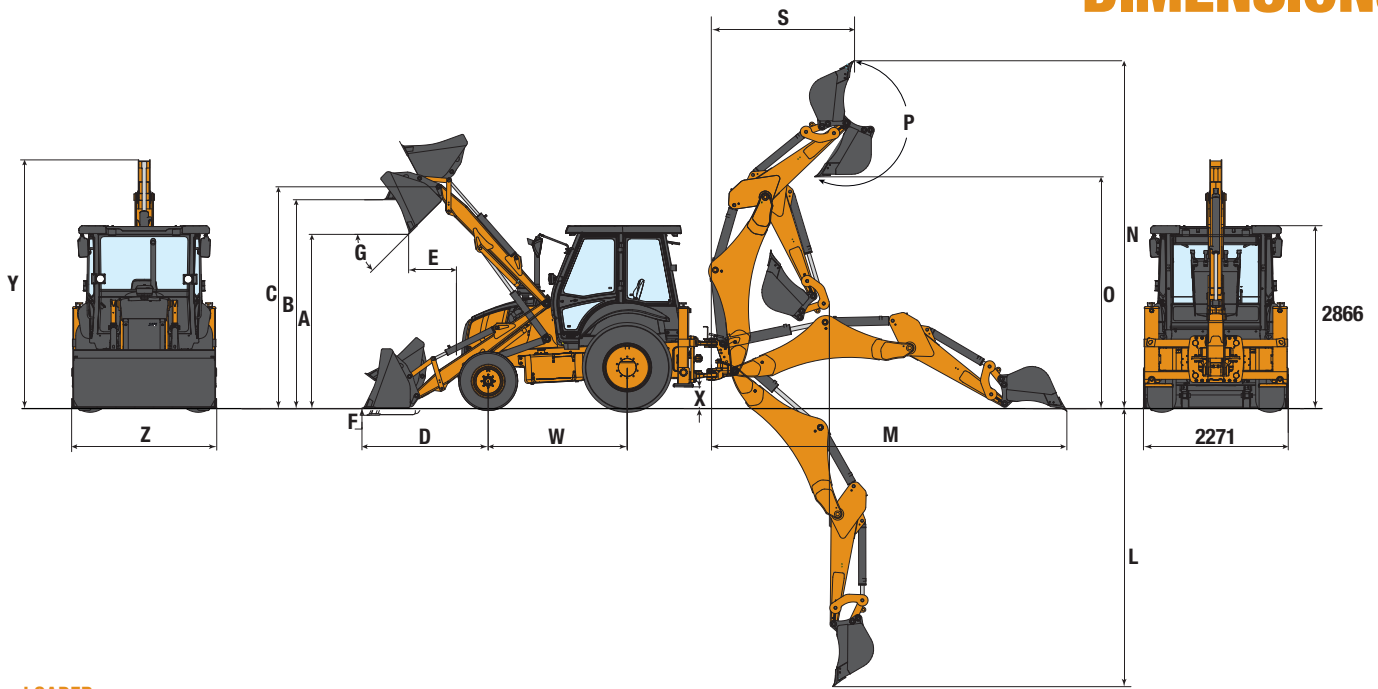
OPTIONAL BUCKETS

	Capacity (SAE 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

SERVICE CAPACITIES

Engine Oil	11 Ltr
Transmission Oil	22 Ltr
Rear Axle Oil	17 Ltr
Hydraulic Oil	110 Ltr
Fuel Tank	129 Ltr
Coolant	20 Ltr

GENERAL DIMENSIONS



LOADER

A	Dump height	mm	2732
B	Load over height	mm	3275
C	Hinge pin height	mm	3580
D	Reach at ground	mm	1486
E	Reach at full height-bucket dumped	mm	760
F	Below ground level-dig depth	mm	106
G	Dump angle	°	45
	Loader bucket breakout force	kgf	6570
	Bucket capacity	Cum.	1.0/1.1
	Pay load	kg	1760/1925
	Maximum lifting capacity @ max height	kg	3700

BOTTOM DUMP BUCKET

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

	Bucket width Outside	mm	2265
	Width of dozer blade	mm	2300
	Maximum Clamp Opening	mm	977
	Bucket capacity (SAE HEAPED)	Cum.	1.0
	Dump height	mm	2710

BACKHOE

L	Max.dig depth	mm	4547
M	Reach ground level to swing center	mm	5753
N	Max working height	mm	5593
O	Max load over height	mm	3774
	Dipper Cylinder Diameter	mm	100/115
P	Bucket rotation	°	204
	Bucket breakout force	kgf	4535/5630
	Dipper digging force	kgf	3250/4300
	Loading reach	mm	2375
	Safe working load @ 3.2 mtr radius	kg	1100/1470

OVERALL DIMENSIONS AND WEIGHTS

	Overall operating weight	kgs	8230
W	Wheel base	mm	2230
X	Minimum ground clearance	mm	399
Y	Overall height (Transport)	mm	3840
Z	Width over bucket (Transport)	mm	2300

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, that is a hallmark of Case 770EX Magnum design. To improve serviceability the machine layout has been studied to provide an easy access to all main components.



DYNAMIC DESIGN

The renewed design of the machine provide a dynamic look that reflects the modern technologies incorporated on it. From bumper to bumper Case engineering has worked with maximum care to develop a state of the art machine that provide excellent performance in any condition.



FPT S8000 ENGINE

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

Best-in-class productivity

The new backhoe's 'S'tyled boom will boost your productivity. The boom delivers excellent breakout forces. It has superior working range to reach deeper dig depth than competitors. 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.

SUPERIOR COMFORT AND VISIBILITY

Day and night, our cab keeps operators productive. This spacious cab has redesigned ergonomics to offer better operator comfort. The large size glazed windows provide outstanding all-round visibility, it improves air ventilation to the operator and it makes easy communication to the back of the machine. All the controls have been specially positioned to offer easy access and faster control. The cabin has a large buddy seat along with storage compartments, mobile charger, document holder, bottle holder and radio.

STANDARD

a) Instrumentation:

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

b) Electrical & Lights

- 2 Head lights in front with Parking lights & direction indications
- Cabin lamps
- Fan
- 2 rear working lamps for backhoe operation
- Spacious battery box on RH side for easy access and maintenance
- New Carling electrical switches
- 4 Working light made standard in All TB80 machines

OPTIONALS

- 4-Wheel Drive (4x4 Traction)
- Rockbreaker
- Lifting arrangement
- Extending type dipper
- 1.1 Cum and 1.2 Cum loader bucket with teeth
- HVAC Cabin
- Bottom dump bucket
- Ripper Tooth
- Backfill blade
- Heavy duty tyres -14X25 - 20 PR
- Dozer blade
- Lime Stone scraper
- Wood log grapple

CASE NEW HOLLAND CONSTRUCTION EQUIPMENT (INDIA) PRIVATE LIMITED

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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.

