

**LOADER BACKHOE
770**

CASE
CONSTRUCTION



**HIGH ON PRODUCTIVITY
HIGHEST FUEL EFFICIENCY**

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SINCE 1842

LOADER BACKHOE

SPEC SHEETS

ENGINE

Make.....Kirloskar Oil Engines Ltd.
Model.....4R1040TC BS-III
No. of Cylinders.....4 Cylinders, Inline
Displacement.....4160 cc
Type.....4 Stoke, Turbo charged Water Cooled, Diesel Engine
Gross Power.....76 hp@2200 RPM as per ISO 3046
Electrical System.....12 V DC
Battery.....130 Ah rating
Alternator.....65 A rated output

TRANSMISSION

Single stage hydrokinetic type torque converter shuttle ranger with 4 speed synchromesh gearbox.
Travel Speeds with 16.9X28 rear tyres

Gear	Forward	Reverse
1 st	4.8	5.8
2 nd	7.8	9.3
3 rd	16.6	Not recommended
4 th	29.7	Not recommended

AXLES & BRAKES

Front Axle.....Heavy Duty oscillating 20 Deg type Steering axle
Rear Axle.....Rigid with planetary drives
Wheel Base.....2200 mm (2WD) / 2175 mm (4WD)

Tread width

Front.....1880 mm
Rear.....1760 mm
Brakes.....Oil immersed wet disc brakes on rear wheels hydraulically actuated

SERVICE REFILL CAPACITIES

Hydraulic system capacity (Main).....142 L
Fuel Tank.....122 L
Engine Coolant Water.....18 L
Engine Oil.....9.5 L
Transmission.....16 L
Axle.....22 L

STEERING

Steering.....Hydraulic actuation with independent Hydraulic Circuit
Steering Gear Pump Max. output @2200 RPM.....22 LPM
Turning Radius with brake.....3217 mm Outside Tyre
Turning Radius without brake.....4488 mm Outside Tyre
Turning Radius without brake.....5500 mm Outside Bucket

HYDRAULIC SYSTEM

Gear Pump Max. output @2200 RPM.....123 LPM
System Pressure.....190 Bar

BACKHOE

Max. reach from centre line of machine

Side Shift.....6126 mm
Swing arc.....180°
Bucket Rotation.....204°
Loading reach at max. height.....2357 mm
Max. height.....5386 mm
Max. dump height.....3550 mm
Max. reach from pivot @ ground level.....5582 mm
Max. dig depth.....4335 mm
Max. lift capacity (No bucket fitted as per SAE J31).....1315 kgs

Breakout force

Dipper.....3725 kgf
Bucket.....5093 kgf

OVERALL DIMENSIONS AND WEIGHTS

Overall operating weight.....7500 kgs
Ground clearance.....333 mm
Overall width of side shift machine for transport.....2320 mm
Overall height, transport position.....3887 mm
Overall length transport position with standard Bucket without teeth.....5884 mm

BOTTOM DUMP BUCKET

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

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

LOADER

Bucket reach flat on ground.....1518 mm
Grading angle.....115°
Digging depth bucket flat on ground.....39 mm
Dumping angle.....43°
Max. Loader Break Out Force.....6807 kg
Lift Capacity @Max. height.....3425 kg
Max. Payload.....1760 kg



Modular Transmission



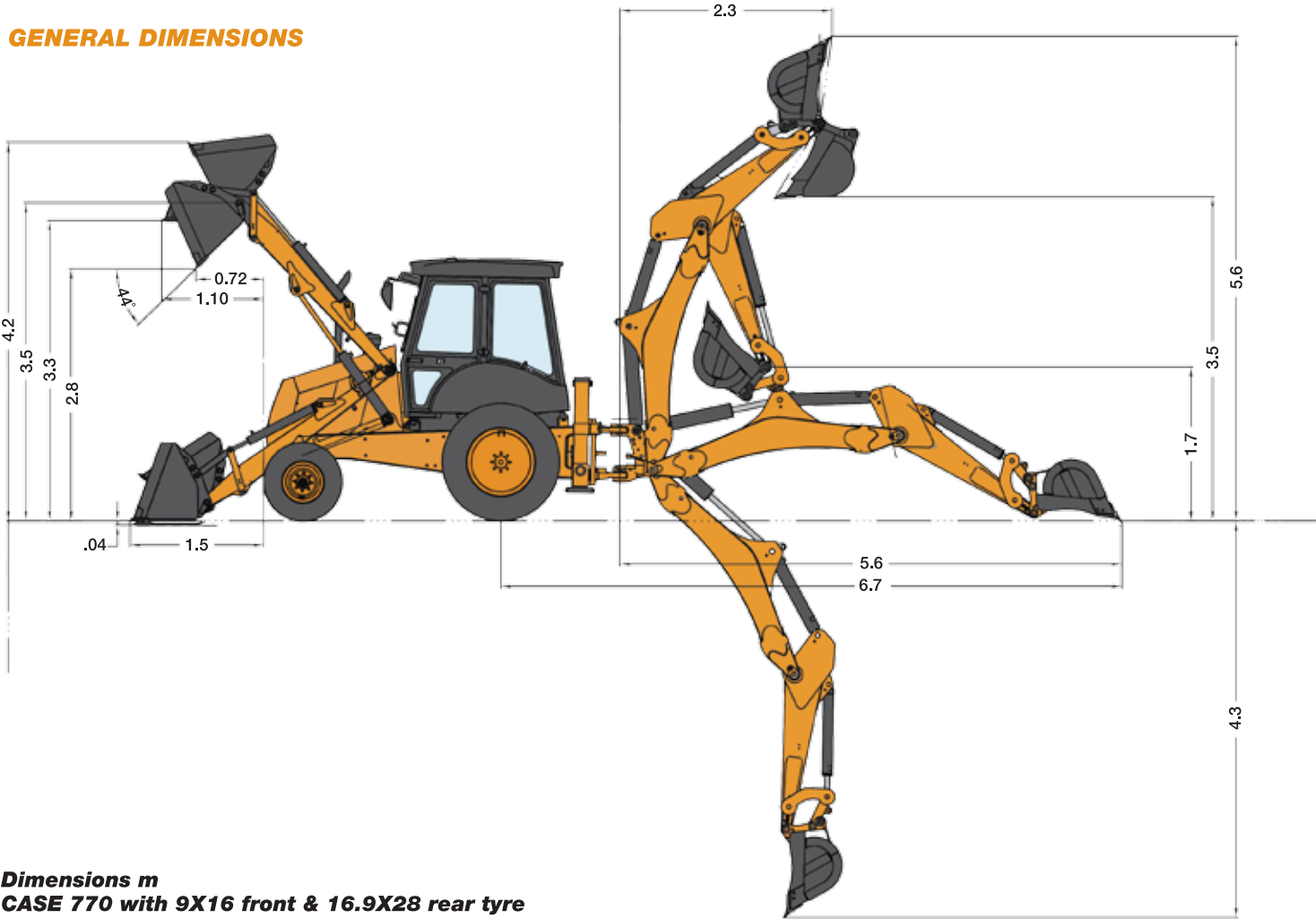
Heavy Duty Axle



LOADER BACKHOE

SPEC SHEETS

GENERAL DIMENSIONS



Dimensions m
CASE 770 with 9X16 front & 16.9X28 rear tyre

BUCKET	Capacity (SAE L)	Width	Weight
Loader HD	630	1532 mm	230 kg
Loader HD	760	2277 mm	308 kg
Loader GP	900	2277 mm	365 kg
Loader GP	1000	2277 mm	400 kg
Loader coal handling	1200	2277 mm	435 kg
Loader Garbage handling (without teeth)	1500	2277 mm	480 kg
Bull Clam	1000	2300 mm	560 kg
Trenching	80	305 mm	117 kg
Trenching	120	457 mm	141 kg
Trenching	180	610 mm	161 kg
Trenching	260	762 mm	218 kg
Trapezoidal	300	305 mm	200 kg
Ditch Cleaning (without teeth)	300	895 mm	205 kg

ATTACHMENTS

- Auger
- Multitine grab
- Clamshell

OPTIONAL

- Rock breaker
- Lifting arrangement
- Bottom dump bucket
- Ripper Tooth
- Backfill blade
- Heavy duty tyres -14X25 - 20 PR
- Dozer blade



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Corporate Identity Number: U29240MH1998PTC117183
CASE NEW HOLLAND CONSTRUCTION EQUIPMENT (INDIA) PRIVATE LIMITED
B1-207, 2nd Floor, Boomerang, Chandivali Farm Road
Near Chandivali Studio, Andheri (East)
Mumbai - 400072, Maharashtra, India
Email: caseindia@cnhind.com

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1800 4199 770

