

**CASE**  
CONSTRUCTION

**CASE 770**  
LOADER BACKHOE



*We make machines that build the nation*

## Specifications

### Engine

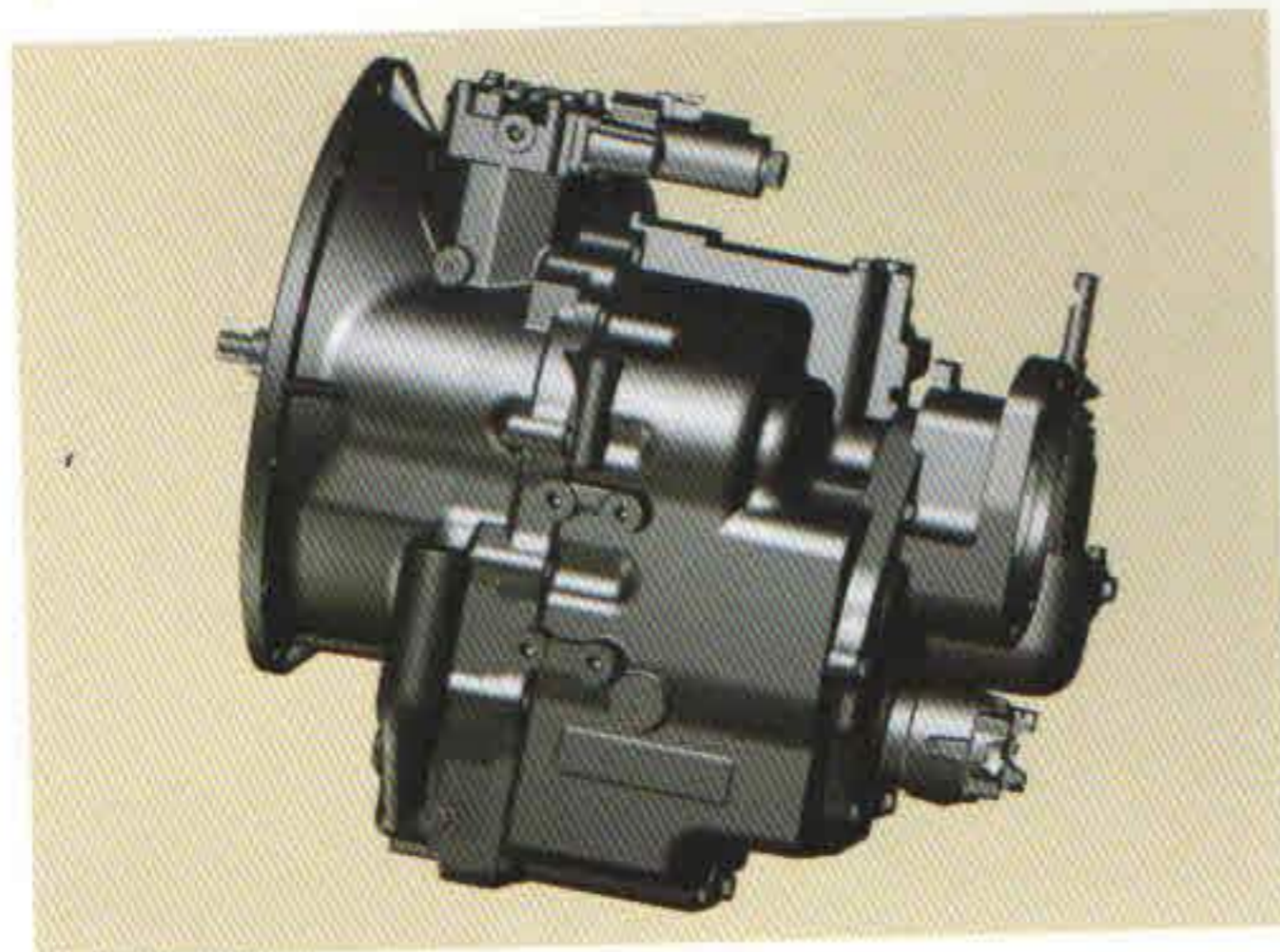
Make	: Kirloskar Oil Engines Ltd.
Model	: 4R1040TC BS-III
No. Of Cylinders	: 4 Cylinders, Inline
Displacement	: 4160 cc
Type	: 4 Stroke, Turbo charged Water Cooled, Diesel Engine
Gross Power	: 76HP @ 2200 RPM as per ISO 3046
Maximum torque	: 300 Nm @ 1400 RPM
Electrical System	: 12 V DC
Battery	: 130 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
I	4.8/5.8
II	7.8/9.3
III	16.6/Not Recommended
IV	29.7/Not Recommended



Modular Transmission



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



Heavy Duty Axle

### Service refill capacities

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

### Steering

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

### Hydraulic System

Gear Pump Max. output @ 2200 RPM	: 121 lpm
System Pressure	: 190 Bar

Buckets	Capacity (SAE L)	Width (mm)	Wt. (kg)
Loader HD	630	1532	230
Loader HD	760	2277	308
Loader GP	900	2277	365
Loader GP	1000	2277	400
Loader coal handling	1200	2277	435
Loader Garbage handling (without teeth)	1500	2277	480
Bull Clam	1000	2300	560
Trenching	80	305	117
Trenching	120	457	141
Trenching	180	610	161
Trenching	243	762	184
Trapezoidal	300	305	200
Ditch Cleaning (without teeth)	300	895	205

### Backhoe

Max. reach from centre line of machine	
Side Shift	: 6126 mm
Swing arc	: 180 Deg
Bucket Rotation	: 204 Deg
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 J 31)	: 1315 kgs
Breakout force: Dipper	: 3725 kgf
Breakout force: 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 (Optional)

*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 deg
Digging depth bucket flat on ground	: 39 mm
Dumping angle	: 43° Deg
Max.Loader Break Out Force	: 6807 kg
Lift Capacity @ Max. height	: 3425 kg
Max. Payload	: 1760 kg

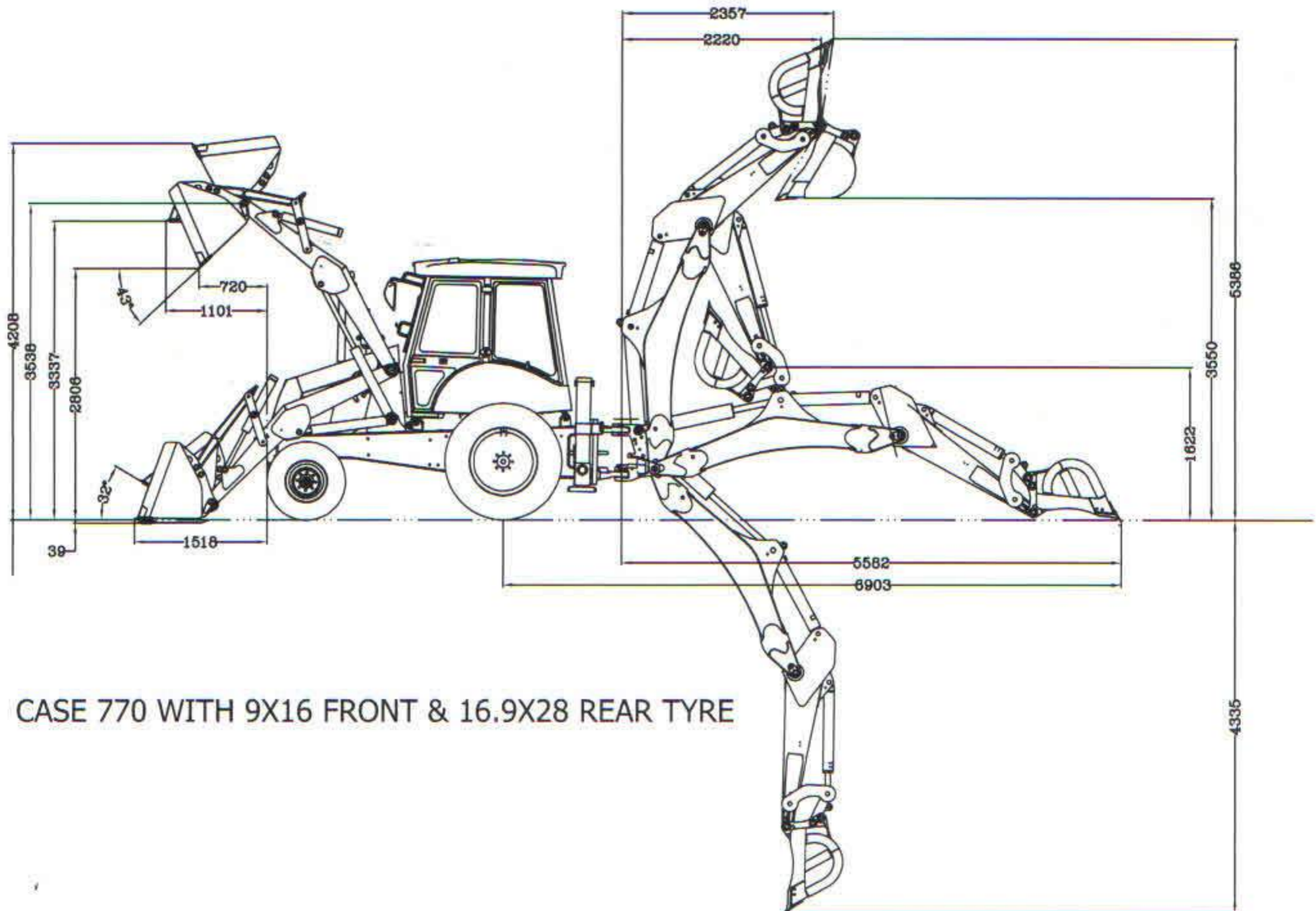
### Optional Equipment

- ★ 4-Wheel Drive (4x4 Traction)
- ★ Rockbreaker
- ★ Lifting arrangement
- ★ Extending type dipper
- ★ Bottom dump bucket
- ★ Ripper Tooth
- ★ Backfill blade
- ★ Heavy duty tyres -14X25-20 PR
- ★ Dozer blade
- ★ Lime Stone scraper
- ★ Wood log grapple

# CASE 770 LOADER BACKHOE SPECIFICATION SHEET

Dimensions in mm

Operating Data for CASE 770



CASE 770 WITH 9X16 FRONT & 16.9X28 REAR TYRE

For further information, contact:



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Specification subject to change without notice due to product upgradation