

CASE
CONSTRUCTION



CRAWLER DOZERS
3550



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Specifications

Engine

The engine complies with 97/68/EC standards TIER 2

Net flywheel power (ISO14396):

-at rpm 2100 _____ 224 kW/300 hp

-at rpm 1800 _____ 257 kW/345 hp

Make and model _____ CUMMINS QSM11

Type _____ turbocharged, aftercooled, direct injection, 4-cycle Diesel

Number of cylinders _____ 6

Bore x stroke _____ 125 x 147 mm

Displacement _____ 10.82 l

Governed _____ 2100 rpm

Maximum torque _____ 162 daNm at 1400 rpm

Lubrication _____ full pressure by gear pump

The machine may be operated up to 2500 m altitude without derating

Electrical system

Voltage _____ 24 V

Battery _____ 2

Rating (total) _____ 180 Ah - 650 A cc

Type _____ maintenance free

Starter _____ 9.5 kW

Alternator _____ 70 A

Master switch for electrical system.

Torque converter

Type _____ single stage, rotating housing

Torque multiplication _____ 2.3 : 1

Transmission

Type _____ full PowerShift, countershaft, constant mesh

Control modulation 5 modulation valves (2 for direction +3 for shifting)

Control _____ Touch-shift buttons for upshift and downshift

Rotational direction control for forward, neutral and reverse.

Automatic shifting:

AUTO SHIFT allows the operator to pre-select the 1st speed for

forward and 2nd speed for reverse at directional change.

Both automatic features can be selected through specific buttons.

Clutches _____ multiple disc, hydraulic

Lubrication _____ full pressure

Speeds and drawbar pull*

Fwd.

1° _____ 4.1 km/h - 57685 daN

2° _____ 6.8 km/h - 32965 daN

3° _____ 10.6 km/h - 16329 daN

Rev.

1° _____ 5.0 km/h - 47212 daN

2° _____ 8.3 km/h - 26812 daN

3° _____ 12.7 km/h - 13084 daN

* Drawbar tractive effort depends on adhesion coefficient, rolling resistance and machine operating weight.

Safety device: a lever in the lock position inhibits transmission control lever and engine starting; it automatically engages parking brakes

Steering (powersteering)

Hydrostatic steering with an epicycloidal unit and hydraulic motor.

Epicycloidal reduction gears on both sides replace steering clutches.

A hydraulic motor makes the epicycloidal reduction gear solars rotate in the opposite direction to generate different speeds in the output gear carriers and therefore steering. Counter-rotation is obtained if the hydraulic motor is actuated with the machine motionless.

Control: finger tip levers located on the left side of the operator.

Brakes

SERVICE BRAKES

Spring applied, hydraulically released, multi-disc oil bath brakes.

Foot pedal piloted control.

PARKING BRAKES

Service brakes are automatically applied when the transmission safety lever is applied or when the engine is cut out.

Final drives

Type double stage: _____ one single reduction
_____ the second planetary type

Total ratio _____ 15.6 : 1

Lubrication _____ splash

Track

Box section track frames. Oscillating type.

Hydraulic track adjusters. Sprockets with bolt-on segments, anti-packing tooth profile

Track bushing with greater diameter at the rolling area

Outer sprocket guard, front and rear track guards, full track roller guards

Disc idlers, track rollers, carriers rollers, are permanently lubricated and sealed

Sealed and lubricated track

Split master link

Track rollers (per track) _____ 7

Carrier rollers (per track) _____ 2

Number of shoes _____ 44

Length of track on ground _____ 3243 mm

Gauge _____ 2134 mm

Track shoes width _____ 610 / 711 mm

Shoe grouser height _____ 84 mm

Carriage oscillation _____ 255 mm

Track shoes	Ground contact area	Ground pressure
610 mm	39565 cm ²	0.907 kg/cm ²
711 mm	46115 cm ²	0.778 kg/cm ²

Hydraulic system

Closed-centre Load Sensing system designed for precise and responsive control, plus efficient simultaneous operations. It utilises a feedback loop from the implement valve to the pump to monitor the hydraulic power. The pump flow is regulated to only what is needed, thus reducing the engine power requirement for the hydraulics and fuel consumption and at the same time increasing the machine production.

Control system _____ pilot operated
 Pump _____ variable displacement piston pump
 Capacity at rated speed _____ 350 l/min
 Relief valve pressure _____ 200 bar
 Spool type control valve _____ (four spools with safety lock device)
 Actuation (blade) _____ single lever
 Dozer circuit _____ raise, hold, lower, float
 Tilt circuit _____ left, hold, right
 Auxiliary circuit for ripper or other attachments
 Power Steering device
 Double acting cylinder control
 Blade, with quick drop and travel limit valves _____ 2
 Bore x stroke _____ 70 x 1255 mm
 Tilt (HSU) _____ 1
 Bore x stroke _____ 90 x 180 mm
 Hydraulic oil level sight gauge reservoir.

Capacities

Lube oil _____ 35 l
 Coolant _____ 37 l
 Fuel tank _____ 670 l
 TRANSMISSION, oil

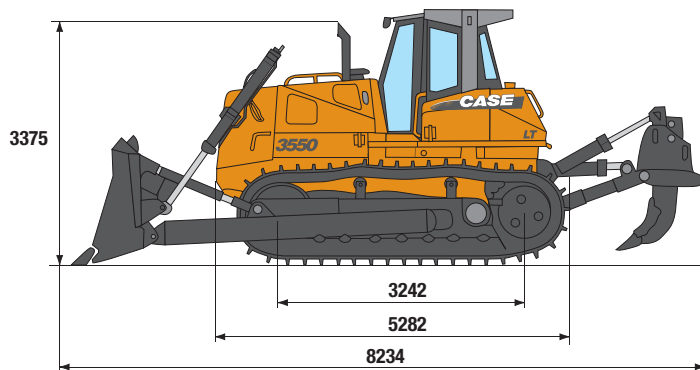
Torque converter and transmission _____ 49 l
 Rear transmission _____ 175 l
 Final drive (each) _____ 36 l
 Hydraulic system (incl Power Steering) _____ 145 l

Ripper

Model _____ Parallelogram variable pitch
 Shanks _____ 3/1
 Ripping depth _____ 750 mm /1195 mm
 Ripping width _____ 2400 mm
 Shank holders _____ 3/1
 Clearance, under tooth with ripper raised _____ 1750 mm/1020 mm
 Overall width _____ 2600 mm /1250 mm
 Weight (with shanks) _____ 5140 kg/ 3200 kg
 Double acting cylinder control
 Ripper lift cylinders - Bore x stroke _____ 90 x 533 mm
 Ripper pitch cylinders - Bore x stroke _____ 80 x 622 mm

General dimensions

Length of track on ground	3243 mm
Gauge	2134 mm
Overall Width Tractor (610 mm Shoes)	2744 mm
Overall Width Tractor (711 mm Shoes)	2845 mm
Length of Basic Machine	5285 mm



BLADE BLADE TYPE	HSU Semi-U	HSU-Desert Semi-U Desert	HU Full HU	HA Angle
Blade capacity SAE J1265	9.1 m ³	12.5 m ³	11.4 m ³	4.5 m ³
Overall length W/Blade	6326 mm	6326 mm	6626 mm	6062 mm
Overall length W/Blade & Ripper	8234 mm	8234 mm	8534 mm	7970 mm
Width of blade	3975 mm	3975 mm	4295 mm	4620 mm
Height of blade	1700 mm	1820 mm	1650 mm	1145 mm
Max tilt	900 mm	900 mm	975 mm	470 mm
Pitch	13°	13°	13°	10°
Digging depth	600 mm	600 mm	600 mm	685 mm
Lift above ground	1220 mm	1220 mm	1220 mm	1140 mm
Operating weight (with blade)	35900 kg	36000 kg	36180 kg	34360 kg
Op. weight (with blade & ripper)	39100 kg	39100 kg	39380 kg	37560 kg

Standard equipment

Alternator 70 A
Electrical system, 24 V
Horn
Air filter, Dry
Blade lift cylinders
Blower fan
Diagnostics
Exhaust pipe muffler
Foot pedal decelerator
Front pull hook
Integral 3+3 Power Shift Transmission (with automatic control)
Maintenance-free batteries
Power Steering Device
Protections: engine sump and drive wheel gearbox, sprocket, front and rear on track carriages, hinged engine side panels.
ROPS cab with heater

Rear implement control and piping
Reverse warning horn
Service lights: 4 front lights, 2 rear lights
Single lever hydraulic system control
Tool kit
Track tension hydraulic adjustment
Track frame 7 rollers

Options

Sound suppression, extern
Air cleaner, dust ejector
Fire extinguisher
(HSU) Semi-U blade complete with Equistatic device, push booms and tilt cylinder
(HU) Full U blade complete with Equistatic device, push booms and tilt cylinder
(HA) Angle blade complete with C frame and 1 tilt cylinder
Quick release valve
Parallelogram variable pitch 3-teeth Ripper
Parallelogram variable pitch 1-tooth Ripper

Radio
Rear implement control and piping
Rear draw bar
Roller protection
Rops cab with air conditioning

Standard and optional equipment shown can vary by country.



CNH INTERNATIONAL SA
Riva Paradiso 14
6902 Paradiso
SWITZERLAND



NOTE: Standard and optional fittings can vary according to the demands and specific regulations of each country. The illustrations may include optional rather than standard fittings - consult your Case dealer. Furthermore, CNH reserves the right to modify machine specifications without incurring any obligation relating to such changes.

Conforms to directive 98/37/CE **CE**

