

CASE
CONSTRUCTION



CRAWLER DOZERS 2550



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Specifications

Engine

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

Net flywheel power (DIN 6270) _____ 177 kW/237 hp
 Net flywheel power (SAE J1349) _____ 177 kW
 Net flywheel power (ISO 9249) _____ 177 kW
 Net flywheel power (CEE 80/1269) _____ 177 kW
 Make and model _____ Cummins 6CTAA 8.3
 Type _____ turbocharged aftercooled, direct injection,
 4-cycle diesel emissioned Euromot 2

Number of cylinders _____ 6
 Bore x stroke _____ 114 x 135 mm
 Displacement _____ 8.3 l
 Governed rpm _____ 2200
 Maximum torque at 1400 rpm _____ 115 kgm
 Lubrication _____ full pressure by double gear pump
 Engine will maintain specified power rating up to 2500 m

Electrical system

Voltage _____ 24 V
 Battery _____ 2
 Rating (total) _____ 180 Ah
 Type _____ maintenance free
 Starter _____ 7.5 kW
 Alternator _____ 70 A
 Master switch for electrical system
 Additional starter switch: engine start is from ground level when the operator compartment is tilted
 Emergency current socket 24 V

Torque converter

Type _____ single stage, rotating housing
 Torque multiplication _____ 3.28 : 1

Transmission

Type _____ "Full PowerShift", countershaft, constant mesh
 Control modulation _____ five trimmer valve, one per clutch pack
 Control _____ pilot, single lever, semi-open pattern
 Clutches _____ multiple disc, hydraulic
 Lubrication _____ full pressure

Speeds and drawbar pull*

Fwd.
 1° _____ 3.7 km/h
 2° _____ 6.1 km/h
 3° _____ 10.9 km/h
Rev.
 1° _____ 4.4 km/h
 2° _____ 7.2 km/h
 3° _____ 12.6 km/h

* 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 and braking

STEERING

Hydraulically released, spring applied, oil cooled, multiple disc clutches
 Combined steering and braking
 Control _____ pilot, two levers, located to the operator's left
 Control modulation _____ hydraulic retarder
 for re-engagement of steering clutches

Friction surfaces each clutch _____ 22
 Total friction area each clutch _____ 7612 cm²

BRAKES - SERVICE

Hydraulically released, spring applied, contracting band oil bath type
 Control _____ pilot, one pedal
 Total friction area _____ 1604 cm²

BRAKE - PARKING

Automatic actuation on service brakes with safety transmission lever in lock position or with engine stop

Final drives

Type _____ double reduction
 Ratio _____ 1 : 12.4
 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, carrier rollers are permanently lubricated and sealed
 Labyrinth sealed or sealed and lubricated track available
 Split master link
 Track rollers (per track) _____ 7
 Carrier rollers (per track) _____ 2
 Number of shoes _____ 41
 Length of track on ground _____ 2973 mm
 Gauge _____ 2070 mm
 Track shoes width _____ 550 mm

Track shoes	Ground contact area
550 mm	32705 cm ²
600 mm	35675 cm ²
700 mm	41620 cm ²

Hydraulic system

Reservoir	closed
Pump	gear type
Capacity at governed rpm	212 l/min
Relief valve pressure	190 bar
Control valve	monobloc, three balanced spools with safety lock
Actuation (blade)	single lever
Dozer circuit	raise, hold, lower, float
Tilt circuit	left, hold, right
Auxiliary circuit	for ripper or other attachment
Double acting cylinder control	
Blade, with quick drop and travel limit valves	2
Bore x stroke	110 x 1302 mm
Tilt (HSU)	1
Bore x stroke	160 x 140 mm
Tilt (HA)	1
Bore x stroke	140 x 124 mm
Hydraulic oil level sight gauge reservoir	

Capacities

Lube oil	22 l
Coolant	65 l
Fuel tank	500 l
TRANSMISSION, oil	
Torque converter and transmission	35 l
Steering and braking	65 l
Final drive (each)	46 l
Hydraulic system	105 l

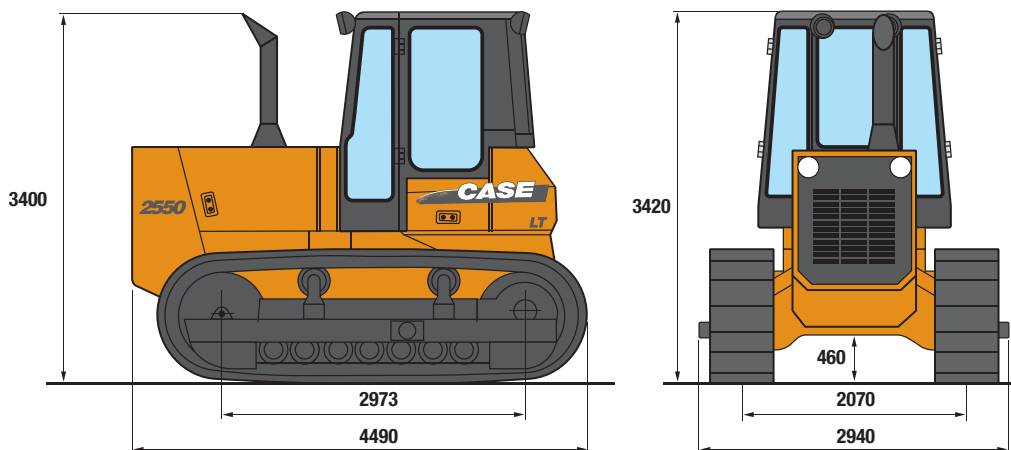
Ripper

Model	PD255
Type	parallelogram
Ripping depth	700 mm
Ripping width	2000 mm
Shanks	3
Shank holders	3
Clearance under tooth with ripper raised	685 mm
Clearance under tool beam with ripper lowered	305 mm
Hydraulic cylinders	2
Bore x stroke	125 x 590 mm
Weight (with three shanks)	3400 kg

Shipping weight

including ROPS canopy, blade lift cylinders, lubricants, coolant, 10% fuel 21850 kg

General dimensions



	Blade width	Blade height	Blade capacity SAE J1265	Max tilt	Max pitch	Digging dept	Max lift above ground	Overall length with blade***	Operating weight with ROPS	Operating weight with ROPS cab
Semi-U (HSU)	3800 mm	1500 mm	7.0 m ³	800 mm	11°	530 mm	1220 mm	5855 mm	26600 kg	27000 kg
Angle (HA)**	4460 mm	1100 mm	4.1 m ³	700mm	10°	560 mm	1300 mm	5800 mm	26000 kg	26400 kg

* Includes blade, standard shoes, fuel, lubricants and operator ** Max angulation ± 25° *** With ripper raised, add 1150 mm to dozer length

Standard equipment

Alternator 70 A
Electrical system, 24 V
Horn
Antifreeze
Air cleaner, dry type
Back-up alarm
Batteries, maintenance free
Control and piping for rear implement
Combined steering and braking
Decelerator
Electronic engine revolution indicator
Emergency current socket 24 V
Fan pusher
Guards: crankcase and transmission, track adjusters, sprocket, front and rear track frames
Hourmeter
Hood side panels, hinged
Hook, front and rear
Hydraulic track adjuster
Hydraulic: three spool valve, piping, blade lift cylinders

Instrument -Electronic Data Monitor-
- warning check level lights: engine oil, transmission oil, engine coolant
- warning pressure lights: engine oil, transmission oil
- warning temperature lights: engine coolant, transmission oil
- warning lights: air filter restriction, hydraulic oil filter
warning light: battery charge
- general malfunction warning light
- indicator: fuel level
- level sensor switch
Lights, two front and four on ROPS canopy
Muffler
Operator's compartment tiltable, hydraulic jack
Pilot control for transmission, steering and braking
Suspension seat, with cloth cover and seat belt
Single lever blade control
Track shoes, 550 mm
Track roller guards

Transmission, "Full PowerShift", three speeds forward and reverse
Warning lights: brake lining wear

Options

Air conditioning
Sound suppression, extern
Blades: Semi-U (HSU) complete with Equistatic compensator, push beams and tilt cylinder.
Angle blade (HA) complete with C-frame.
Angle blade with tilt cylinder.
Cab ROPS or Canopy ROPS
Cold weather starting aid
Diagnostic system
Heating system for ROPS cab
Ripper PD255, parallelogram, three shanks

Tool kit
Track, sealed and lubricated with split link
Track shoes: 600 mm, 700 mm
Air Cleaner Dust Ejector

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 

