

1150L / 2050M
CRAWLER DOZER

CASE
CONSTRUCTION



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SPECIFICATIONS

1150L CRAWLER DOZER

ENGINE

Model	FPT Diesel Engine / Tier III
Cylinders	6
Displacement	6,7 L
Fuel injection	Direct common rail
Fuel filter	Screw-on, with screen
Cooling	Liquid
Engine speeds	RPM
High idle - no load	2200 +/- 50
Rated - full load	2200
Low idle	800 +/- 25

Horsepower SAEJ1349

Net	118 hp (88 kW) @ 2200rpm
Gross	130 hp (97 kW) @ 2200rpm

Engine lubrication

Forced lubrication with oil jet piston refrigeration system

Pump operating angle ratings

Side-to-side	45°
Fore and aft	45°

Radiator

Core size area	0.61 m ²
Rows of tubes	4

Fan

Diameter	660 mm
Propeller	Belt mechanical drive

TRANSMISSION COOLING

Type	Heat exchange
Core size	0.54 m ²

ELECTRICAL SYSTEM

Alternator	65 amps
Batteries(2)	2x 12 V in series, maintenance free. 750 A CCA at -18°C

POWER TRAIN

Dual path hydrostatic

Pump	Variable axial piston
Motor	Variable bent axis piston
Max. drawbar pull	214 kN
Transmission	Single lever control electronic straight tracking
Oil filter	4 micron, spin-on, replaceable

Travel speeds

Forward	0 - 9.7 km/h
Reverse	0 - 9.7 km/h

SAHR Parking brake

(Spring Applied Hydraulically Released)

Steering brakes Hydrostatic

Final drive 2 helical gear reductions
to planetary reduction

Reduction ratio 61.4:1

HYDRAULICS

Pump flow @ 2200 RPM	132 L/min
Max pressure	207 bar
Lift cylinder PAT	nr.2
Bore diameter	108 mm
Rod diameter	50.8 mm
Stroke	445 mm
Angle cylinder PAT	nr.2
Bore diameter	127 mm
Rod diameter	63.5 mm
Stroke	381 mm
Tilt cylinder PAT	nr.1
Bore diameter	127 mm
Rod diameter	63.5 mm
Stroke	120 mm

OPERATOR ENVIRONMENT

Cab ROPS/FOPS with air-conditioning - single joystick for speed and direction - adjustable seat upholstered with cloth and air suspension - 50,8 mm (2") retractable seatbelt - adjustable arm rests - two foot rests - rear view mirror - three windshield wipers - a dome light - 12 V connector for accessories - padded roof - floor mats.

Warning lights

Air filter, - alternator - failure diagnosis indicator - engine cooling fluid temperature - engine oil pressure - hydraulic filter - low fuel - emergency brake on - maintenance service indicator - transmission filter - transmission load pressure.

Indicators

Battery voltage - fuel level - digital hour meter/ tachometer/diagnosis/ service reminder - transmission oil temperature - transmission speed indicator - cooling fluid temperature.

Audible alarms

Engine cooling fluid temperature - engine oil pressure - low fuel - hydraulic/hydrostatic system oil temperature.

OPERATING WEIGHT

Unit equipped with a cab, full fuel tank, 77 kg operator, frontal pull hook, track guides, PAT blade.

	WEIGHT (KG)
Extra Long Tracks (XLT)	13625 kg
ADD-ON WEIGHTS	WEIGHT (KG)
Drawbar	66 kg
Ripper	1043 kg
Roller protection	134 kg

BLADE

Variable blade pitch - adjustable	55° to 60°
Lift speed - per second	483 mm
Cutting edge	Reversible, replaceable
- Width	203.2 mm
- Length	2158 mm
- Thickness	19.1 mm

UNDERCARRIAGE

Track adjustment	by grease injection
Frame	Two-tier chassis, manufactured in structural steel
Track link pitch	175.4 mm
Track shoe height	51 mm
Pin diameter	36.6 mm
Bushing diameter	62 mm
Track shoes per side	43
Track rollers per side	7
Carrier rollers per side	2
Track roller rail diameter	190 mm

TRACK ON GROUND

Shoe width	508 mm
Tracks on ground	26323 cm ²

RIPPER

Max. penetration	478 mm
Width	1711 mm
Cut width	1635 mm
Max. ground clearance	424 mm
Max. number of shanks	3
Tooth spacing w/3 teeth	785 mm
Hydraulic cylinder	Double-acting
Diameter	102 mm
Stroke	254 mm
Rod	51 mm

SERVICE CAPACITY

Fuel Tank	300 L
Engine oil w/ filter	16.4 L
Engine oil w/o filter	15.6 L
Engine cooling system	25.5 L
Hydraulic reservoir	98.4 L
Final drive - per side	14.2 L
Track rollers - each	0.330 L
Front idlers - each	0.460 L
Carrier rollers - each	0.275 L



SPECIFICATIONS

1150L CRAWLER DOZER

ENGINE

Model	FPT Engine
Cylinders	6
Displacement	6,7 L
Fuel injection	Direct common rail
Fuel filter	Screw-on, with screen
Air in take	Cross-flow
Cooling	Liquid
Engine speeds	RPM
High idle - no load	2200 +/- 50
Rated - full load	2200
Low idle	800 +/- 25

Horsepower SAE J1349

Net	214 hp (160 kW) @ 2200rpm
Gross	232 hp (173 kW) @ 2200rpm

Engine lubrication

pump	Deep sump plate cooler w/ pressurized under-piston nozzles
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Pump operating angle ratings

Side-to-side	35°
Fore and aft	45°

Radiator

Core size area	0.33 m ²
Rows of tubes	2

Fan

Diameter	700 mm
Ratio	hydraulically driven

TRANSMISSION COOLING

Type	Oil to air
Core size	0.31 m ²

ELECTRICAL SYSTEM

Alternator	120 amps
Batteries(2)	12 Volt, low maintenance 1000 cold-cranking amps @ -18°C

POWER TRAIN

Dual path hydrostatic

Pump	Variable axial piston
Motor	Variable bent axis piston
Max. drawbar pull	360 kN
Transmission	Single lever control electronic straight tracking
Oil filter	4 micron, spin-on, replaceable

Travel speeds

Forward	0 - 9.3 km/h
Reverse	0 - 9.3 km/h

Parking brakes Heavy-duty

(Spring Applied Hydraulically Released)

Steering brakes Hydrostatic

Final drive	2 helical gear reductions to planetary
ratio	48.75:1

BLADE

Variable blade pitch - adjustable	55° +/- 60°
Lift speed - per second	483 mm
Cutting edge	Reversible, replaceable
Width (PAT)	254 mm
Width (Bulldozer HSU)	200 mm
Thickness	20 mm

RIPPER

Max. penetration	581 mm
Width	2159 mm
Cut width	1938 mm
Max. ground clearance	518 mm
Max. number of shanks	3
Tooth spacing w/3 teeth	930 mm
Hydraulic cylinder	Double-acting
Diameter	133.4 mm
Stroke	597 mm
Rod	70 mm

OPERATOR ENVIRONMENT

ROPS/FOPS cab- pneumatically suspended seat - w/ back adjustment
- seat belt - adjustable armrests - foot rests - tool storage area
- headliner floor mat - tilting seat platform - noise level 78dba.

Warning lights - air filter alternator - diagnostic fault indicator - engine
coolant temperature - engine oil pressure - hydraulic filter - low fuel
level - park brake engaged - service soon indicator - transmission filter
- transmission charge pressure.

Gauges

Battery voltage - digital hour meter/tachometer diagnostic/service
reminder - fuel level - transmission oil temperature - transmission
speed indicator water temperature.

Audible warnings - engine coolant temperature - engine oil pressure
- low fuel level - transmission charge pressure - transmission/hydraulic
temperature.

HYDRAULICS

Pump flow @ 2200 RPM	153 L/min
Max pressure	248 bar
Lift cylinder PAT	nr.2
Bore diameter	114 mm
Rod diameter	63.5 mm
Stroke	428.8 mm

Angle cylinder PAT	nr.2
Bore diameter	114.3 mm
Rod diameter	63.5 mm
Stroke	502.7 mm
Tilt cylinder PAT	nr.1
Bore diameter	127 mm
Rod diameter	63.5 mm
Stroke	148.4 mm

Lift cylinder Bull Dozer

Bore diameter	82.6 mm
Rod diameter	50.8 mm
Stroke	1000 mm

Tilt cylinder Bull Dozer

Bore diameter	114.3 mm
Rod diameter	63.5 mm
Stroke	126 mm

TRACK AND SHOE OPTIONS

XLT (EXTRA LONG TRACKS)

610 mm	closed grousers and CLT
610 mm	open grousers and CLT

SERVICE CAPACITY

Fuel Tank	405 L
Engine oil w/ filter	16.4 L
Engine oil w/o filter	15.6 L
Engine cooling system	30.28 L
Hydraulic reservoir	210 L
Final drive - per side	25 L
Track rollers - each	0.275 L
Front idlers - each	0.225 L
Carrier rollers - each	0.334 L

OPERATING WEIGHT

Operating weight includes:

Cab	Front pull hook
Full fuel tank	Rear retrieval hitch
Hydraulic tanks	Track guides
Operator	170 lb (77kg)
CLT chain	Horn
Lights	Track shoe
C frame	Blade width as noted

WEIGHT (KG)

Extra Long Tracks	20599 kg PAT 20592 kg Semi-U
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ADD-ON WEIGHTS

WEIGHT (KG)

Drawbar	66
Ripper (3 shank)	1355
Winch	2500

CELT CHAIN - PER TRACK

WEIGHT (KG)

24 (610 mm)	1789
Additional weight vs CLT - per track	43
Center rock guard	306
Sweeps	63

UNDERCARRIAGE

Track adjustment	Grease injection
Frame	Oscillating equalizer beam suspension and pivot shaft

Track link pitch

CLT track	202.8 mm
CELT track	202.8 mm
Track shoe height	73 mm
Pin diameter	44.5 mm

Brushing diameter

CLT track	72.7 mm
CELT track	93 mm

Track shoes per side

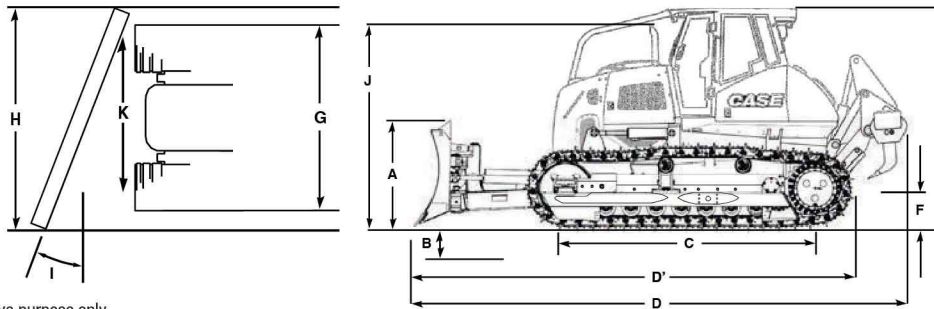
CLT/CELT track	45
Track rollers per side	8
Carrier rollers per side	2
Track roller rail diameter	187.6 mm

TRACK ON GROUND

Shoe area	
610 mm	39979 cm ²

1150L

GENERAL DIMENSIONS



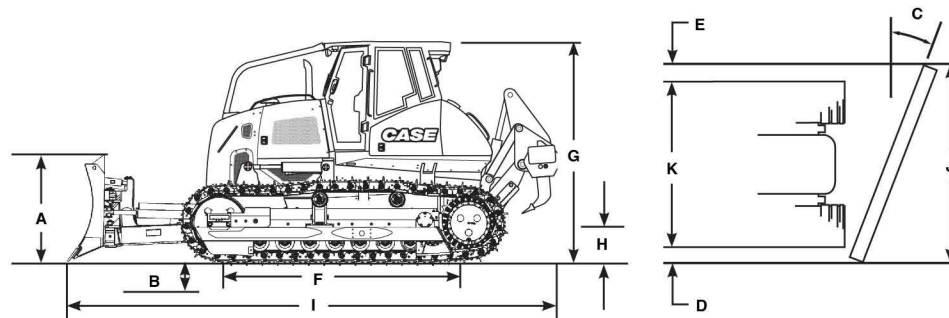
Line drawings are for illustrative purpose only and may not be exact representation of unit.

DIMENSIONS	XLT (extra-long track)
A. Blade height	1120 mm
B. Depth of the blade in the ground	483 mm
C. Length of the track on the ground	2590 mm
D'. Length of the blade in the straight position and ripper	5973 mm
D. With blade in the straight position and draw bar	5025 mm
E. Height to top of cab	2882 mm
F. Ground clearance	379 mm
G. Width to the ends of the tracks	2286 mm
H. Width of the blade at a maximum angle	2787 mm
Width of the blade fully placed on the ground	3048 mm

DIMENSIONS	XLT (extra-long track)
I. Blade angle of attack	25°
J. Height of the exhaust	2849 mm
K. Track Gauge	1778 mm
Width of the shoe	508 mm
Area of the track on the ground	26323 cm²
Pressure on the ground	0.47 kgf/cm²
SAE blade capacity	2.9 m³
Elevation of the blade over the ground	965 mm
Blade oscillation (up to 8.3°)	439 mm

NOTE: Ground clearance and overall height dimensions are with the grousers fully penetrated. Add 52.5 mm if unit is on solid surface.

2050M



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	XLT (extra-long track)
TRACKS	
Track gauge	1940 mm
D. Track on ground	610 mm
Area of track of ground	4,0 m²
Ground pressure	0.51 kg/cm²
DIMENSIONS	
E. Height to top of cab	3103 mm
F. Ground of clearance	362 mm
G. Length	
Blade straight with drawbar	5902 mm PAT
5387 mm Semi-U	
Blade straight with ripper	7383 mm PAT
6869 mm Semi-U	

BLADE DIMENSIONS	SEMI - U	PAT
Blade Capacity SAE J1265	5.60 m³	4.83 m³
Undercarriage available	XLT	XLT
H. Blade width	3426 mm	3606 mm
Blade width in transport position	3426 mm	3287 mm
A. Blade height	1425 mm	1369 mm
Max. Tilt	+/-433 mm	+/-550 mm
Max. Pitch	+/-5°	2.9 m³
C. Max. Angle	-	+/- 28°
B. Digging depth	583 mm	590 mm
Max. lift above ground	1244 mm	1130 mm
M. Cast reach	438 mm	576 mm
N. Cut reach	438 mm	146 mm
J. Over track	2550 mm width 610 mm shoes	2550 mm width 610 mm shoes

NOTE: Ground clearance and overall height dimensions are with the grousers fully penetrated. Add 52.5 mm if unit is on solid surface.


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