

M-SERIES CRAWLER DOZERS
1150M | 1650M | 2050M

CASE
CONSTRUCTION



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M-SERIES

CRAWLER DOZERS

1150M SPECIFICATIONS

ENGINE

Model	FPT F4HFE613F*A002
Cylinders	6
Displacement	6.7 l
Fuel injection	Direct
Fuel filter	Spin-on w/ in-line strainer
Air intake	Cross-flow
Cooling	Liquid
Engine speeds	RPM
High idle – no load	2200 +/- 50
Rated – full load	2200
Low idle	1100 +/- 25
Horsepower SAE J1349:	
Engine rated net power	127 hp - 95 kW @2200 rpm
Engine max net power	138 hp - 103 kW @2200 rpm
Engine peak power	151 hp-113 kW @1800 rpm
Rated net torque	610 Nm
Max net torque	632 Nm

Engine lubrication

Pump _____ Deep sump plate cooler w/ pressurized under-piston nozzles

Pump operating angle ratings:

Side-to-side _____ 35°

Fore and aft _____ 45°

Radiator:

Core size area (Water Radiator) _____ 0.32 m²

Rows of tubes _____ 25

Fan

Diameter _____ 660 mm

Ratio _____ 0,96:1

POWERTRAIN

Dual path hydrostatic

Pump _____ Variable axial piston

Motor _____ Variable bent axis piston

Max. drawbar pull* _____ 213,5 kN

Transmission _____ Single lever control electronic straight tracking

Oil filter _____ 2 micron, spin-on, replaceable

Travel speeds*

Forward _____ 0 – 9.3 km/h

Reverse _____ 0 – 9.3 km/h

Parking brakes _____ Heavy-duty, spring-applied, hydraulic pressure release

Steering brakes _____ Hydrostatic

Final drive _____ 2 helical gear reduction to planetary output

Ratio _____ 61.4:1

TRANSMISSION COOLING

Type _____ Oil to air

Core size _____ 0.18 m²

ELECTRICAL SYSTEM

Alternator _____ 120 amps

Batteries (2) _____ 12-volt, low-maintenance
925 cold-cranking amps @ -18°C

OPERATOR ENVIRONMENT

ROPS/FOPS cab; Pneumatically suspended seat; Seat belt; Adjustable armrests; Foot rests; Tool storage area; Headliner; Floor mat; Mirror; Noise level 79dbA.

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:

Ad Blue Level; Battery voltage; Digital hourmeter/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; Rear wiper for cab; Internal mirror; Radio.

HYDRAULICS

Pump flow @ 2200 RPM _____ 138.5 l/min

Max pressure _____ 195 bar

Lift cylinder™ _____ nr. 2

Bore diameter _____ 108 mm

Rod diameter _____ 50.8 mm

Stroke _____ 488 mm

Angle cylinder _____ nr. 2

Bore diameter _____ 114.3 mm

Rod diameter _____ 63.5 mm

Stroke _____ 465.7 mm

Tilt cylinder _____ nr. 1

Bore diameter _____ 127 mm

Rod diameter _____ 63.5 mm

Stroke _____ 148.3 mm

SERVICE CAPACITY

Fuel tank _____ 322 l

Ad Blue tank _____ 52 l

Engine oil w/ filter _____ 16.4 l

Engine oil w/o filter _____ 15.6 l

Engine cooling system _____ 28 l

Hydraulic reservoir _____ 193 l

Final drive (per side) _____ 15 l

Track rollers (ea) _____ 0.25 l

Front idlers (ea) _____ 0.33 l

Carrier rollers – each _____ 0.25 l

UNDERCARRIAGE

Track adjustment	Hydraulic
Frame	Oscillating equalizer beam suspension and pivot shaft
Track link pitch	175 mm
Track shoe height	55 mm
Pin diameter	36.58 mm
Bushing diameter	
"Heavy-Duty" track	62 mm
"Max-Life" track	79 mm
Track shoes per side	43
Track rollers per side	7
Carrier rollers per side	2
Track roller rail diameter	203 mm
Track on ground	
Shoe area	
559 mm	29050 cm ²
660 mm	34323 cm ²
762 mm	39627 cm ²

PAT BLADE

Variable blade pitch	55° +/- 5°
Lift speed – per second	503 mm
Cutting edge	Reversible, replaceable
Width	203.2 mm
Thickness	19.1 mm

RIPPER

Max. penetration	499 mm
Width	1711 mm
Cut	1635 mm
Max. ground clearance	403 mm
Max. number of shanks	3
Tooth spacing	
w/3 teeth	785 mm
Hydraulic cylinder	Double-acting
Diameter	102 mm
Stroke	254 mm
Rod	50.8 mm

OPERATING WEIGHT

Operating weight includes cab, full fuel and hydraulic tanks, 170 lb (77 kg) operator, "Heavy-Duty" chain, front pull hook, rear retrieval hitch, track guides, back up alarm, horn, lights, track shoe, C-frame and blade width as noted.

	Weight (kg)	Add-on weights	Weight (kg)	"Max-Life" chains	Add-on weight (kg)
Long Track	14122	Drawbar	66	22" (560 mm)	71
Wide Track	14594	Ripper (3 shank)	1078	26" (660 mm)	69
Low Ground Pressure	14804	Front counterweight	430	30" (760 mm)	68
				Full Rock Guard	281
				Sweeps	63

TRACK AND SHOE OPTIONS

LT (Long Tracks)

	Weight (kg)
560 mm closed grousers and "Heavy-Duty"	2320
560 mm open grousers and "Max-Life"	2391

WT (Wide Tracks)

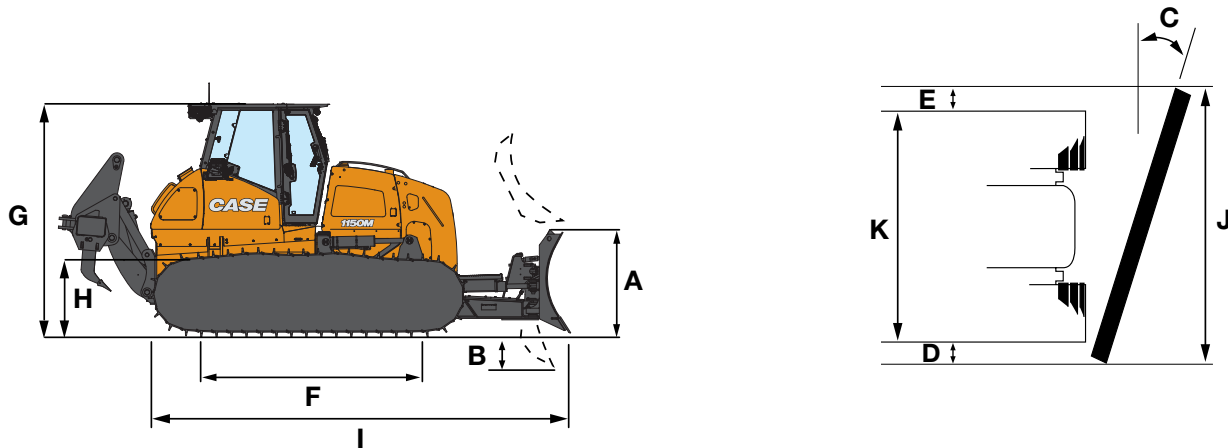
	Weight (kg)
560 mm closed grousers and "Heavy-Duty"	2320
560 mm open grousers and "Max-Life"	2391
660 mm closed grousers and "Heavy-Duty"	2542
660 mm open grousers and "Max-Life"	2611

LGP (Low Ground Pressure)

	Weight (kg)
760 mm closed grousers and "Heavy-Duty"	2766
760 mm open grousers and "Max-Life"	2834

M-SERIES CRAWLER DOZERS

1150M GENERAL DIMENSIONS



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

	LT (Long Track)	WT (Wide Track)	LGP (Low Ground Pressure)
BLADES			
Blade width	3048 mm		3355 mm
Blade width in transport position	2819.4 mm		3111 mm
SAE blade capacity	2.88 m ³		3.18 m ³
A Blade height		1120 mm	
Blade lift above ground		926 mm	
B Blade depth below ground		518 mm	
C Blade angle both directions		25°	
Blade tilt, each end (up to 8.3°)	430 mm		450 mm
D Cast reach track coverage	408 mm	419 mm	317 mm
E Cut reach track coverage	20 mm	31 mm	-71 mm
TRACKS			
Track gauge	1829 mm		2032 mm
Max shoe width	560 mm	660 mm	760 mm
F Track on ground		2600 mm	
Area of track on ground	2.90 m ²	3.43 m ²	3.96 m ²
Ground pressure	0.47 kg/cm ² *	0.41 kg/cm ² **	0.36 kg/cm ² ***
DIMENSIONS			
G Height to top of cab		2956 mm	
H Ground clearance		322 mm	
I Length			
- Blade straight with drawbar		5088 mm	
- Blade straight with ripper		6191 mm	
J Blade angled	2819.4 mm		3111 mm
K Over track	2388 mm	2692 mm	2794 mm

*with 560 mm shoes

** with 660 mm shoes

***with 760 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.