M-SERIES CRAWLER DOZERS 2050M





TECHNOLOGY THAT PAYS

CaseCE.com

EXPERTS FOR THE REAL WORLD

SINCE 1842

CASE CRAWLER DOZERS

MILESTONES



EXPERTS FOR THE REAL WORLD

SINCE 1842

- 1842 CASE is founded.
- 1946 Allis-Chalmers is the first manufacturer to introduce a torque converter on Dozers. In the 30s, they had invented permanently lubricated track rollers and sealed and lubricated tracks.
- 1951 First CASE Dozer made in cooperation with ATC and promoted under Terratrack brand.
- 1956 CASE acquires ATC and is the first manufacturer to introduce tracks counter rotation on the 1000 Series Terratrack Dozer.
- 1974 FIAT acquires Allis-Chalmers and in the 70's introduced the exclusive **EQUISTATIC** geometry on bulldozer machines. In the late 90s, CASE launched its exclusive **CASE EXTENDED LIFE TRACK** undercarriage.
- 2008 CASE introduced the **DUAL PATH** hydrostatic transmission on the K-Series.
- 2013 CASE is the first to introduce SCR technology on the M-Series dozer.
- 2014 CASE started to build L-Series Dozers in Belo Horizonte plant.

BOOST YOUR PRODUCTIVITY

POWER AND EFFICIENCY

Drawbar pulling leadership: The hydrostatic transmission and the common rail engine deliver the best-in-class pulling capacity and controllability. All the working parameters can be customized by the driver for excellent machine controllability and faster cycle times.

Productivity boosting electronics: The new cab controls offer a wide choice of electronic settings and automated functions that make the driver's job easier. Together with the **lowest noise level** in the market, they minimise fatigue on long working days.

Customise your dozer: The M-Series offers a wider choice of attachments such as blades, tracks, rippers, or winches. You can easily specify the configuration that perfectly meets your needs.

Quick maintenance: The fully openable side panels enable you to service the M-Series from the ground, while the wide belly plates provide perfect accessibility for extraordinary maintenance.

NEXT GENERATION ENGINE

The state-of-the-art common rail engine delivers top performance in load response, max torque, power and fuel economy. The combustion is optimised for maximum efficiency, occurring at high temperatures and using 100% fresh, cool air, as the air intake is separated from the exhaust.

The turbocharged engine with an Air-to-Air intercooler relies on well-proven multi injection technology to maximize torque back-up and fuel efficiency with reduced engine noise and vibrations.



NEVER ENDING POWER

The powerful FPT Industrial engine ensures high torque back-up under load. When the tractive effort grows and the rpm tends to drop, the engine power grows up to 16% till 1800 rpm. The result is constant performance and higher pulling capacity. In addition, the ability to work with high torque at lower engine rpm reduces engine wear.



DRAWBAR PULLING LEADERSHIP

DUAL PATH HYDROSTATIC TRANSMISSION

The innovative Hydrostatic Transmission offers the Best-in-Class Pulling capacity coupled with excellent maneuverability. The triple reduction final drives ensure high torque on the ground, reducing the working pressure of the entire system and improving its overall efficiency.



"V" SHAPE COOLING PACKAGE

The cooling package of the 2050M has been redesigned and fitted with a hydrostatic reversible fan. In the new design, the radiators are mounted with no overlap, so that each radiator receives fresh air, maintaining constant fluid temperatures. The hydrostatic fan continuously adapts its speed to match the real cooling demand, reducing power absorption. The reversing mode reduces maintenance needs and lengthens cleaning intervals.

CASE EXTENDED LIFE TRACK

The CASE Extended Life Track(CELT), standard on the 2050M is built with a single piece Sprocket ring with a special Tooth profile & open shoes. This feature substantially improves durability, especially in highly abrasive conditions.



PRODUCTIVITY

BOOSTING ELECTRONICS



AGILE AND STRONG

The operator has full control of the massive power of the M-Series Dozer. The electrohydraulic joystick allows to customize the reversing and steering sensitivity for faster and more efficient cycles. The decelerator pedal can be used either to reduce the travel speed only or travel and engine speed.



AUTOMATIC BLADE FUNCTIONS

The advanced electronics functions enable the operator to specific functions in addition to the standard blade movements. The onboard computer can be set directly from the joystick; the blade reaction can be set choosing from 3 levels of sensitivity; the grading button immediately reduces the speed of the blade by 50% for more accurate soil contour; the shaking mode enables the operator to shed material quickly, especially when working with sticky soil.



UNMATCHED VISIBILITY

The M-Series cab is engineered for operator performance, comfort and safety. The new positioning, further forward on the machine, ensures complete blade visibility. The operator can work with confidence and more productively in every operation. The air suspended seat is easy to adjust, providing every operator with a perfect working position. The powerful air conditioning system combined with the best-in-class noise level provide an excellent working enviroment, reducing operator stress during long working days.

YOUR DOZER

FULLY INTEGRATED BLADE CONTROL

The M-Series is ready to work with the most common blade controls available in the market. The machine can be prepared in the factory for a specific configuration, ensuring perfect wire layout, visibility and component integration, guaranteeing that the high standard of reliability of every CASE product is maintained.



READY FOR EVERY TASK

A wide offering of implements and equipment can be installed in the new CASE Dozers such as 3 shank parallel ripper.

"Semi-U blade" with 2050M is offered for Indian market. All CASE dozers offer the patented "Equistatic" system that increases the tilting capability, while reducing the efforts on the pushbeams, increasing the overall frame reliability and reducing the overall wear of components.



EASY ACCESS

WITH THE TILTABLE SEAT



SIMPLE AND EASY

The hydrostatic transmission brings less complexity and lower maintenance requirements than a traditional one. Belly plates on the bottom of the machine provide excellent access to controls and transmission components. The final drive installation on the main dozer frame enables dismounting while leaving the hydrostatic components in place. The transmission can even be reached through the cab floor, so it can be serviced directly on the job site.



FAST REFUELING

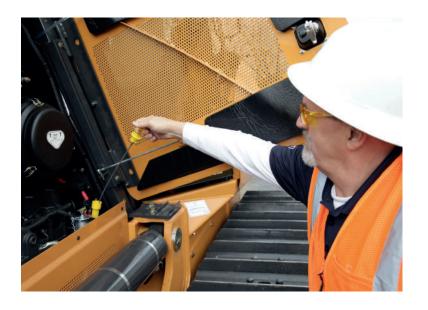
The refilling points (Fuel /Hydraulic Oil) are conveniently placed on the rear of the cab in a well-protected place. The daily maintenance can be done quickly, thanks to dedicated steps that make the access easier and safer.



GROUND ACCESS FOR SERVICING

The new single piece main frame enables you to service the main controls easily from the ground, simply opening the wide lateral shieldings. Oil levels, battery status, electric components, filters and the emergency cut-off switch are rationally grouped and clearly identified with colour coding.

With the M-Series, you can quickly get ready for your working day.



M-SERIES

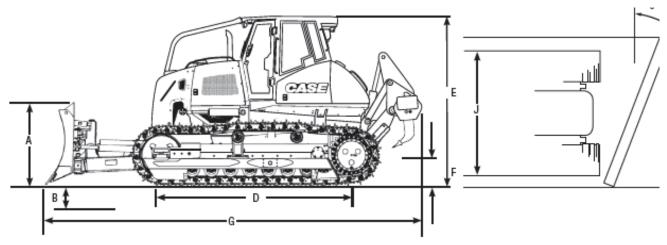
CRAWLER DOZERS

ENGINE	RIPPER	SERVICE CAPACITY
ModelFPT Industrial Engine	Max. penetration581 mm	Fuel tank405
F4HE96848*J101	Width2159 mm	Engine oil w/filter16.4
Cylinders6	Cut width1938 mm	Engine oil w/o filter15.6
Displacement 6,7 L	Max. ground clearance518 mm	Engine cooling system30.28
Fuel injectionDirect common rail	_	
Fuel filterScr-on, with screen	Max. number of shanks3	Hydraulic reservior210
Air intakeCross-flow	Tooth spacing w/3 teeth930 mm	Final drive - per side25
CoolingLiquid Engine speedsRPM	Hydraulic cylinderDouble-acting	Track rollers - each0.275
ligh idle - no load2200 +/- 50	Diameter133.4 mm	Front idlers - each0.225
Rated - full load2200	Stroke597 mm	Carrier rollers - each0.334
_ow idle800 +/- 25	Rod70 mm	
lorsepower SAE J1349	OPERATOR ENVIRONMENT	OPERATING WEIGHT
let214 hp (160 kW) @ 2200 rpm	ROPS/FOPS cab - pneumatically	Operating weight includes:
Gross232 hp (173 kW) @ 2200 rpm	suspended seat - w/back adjustment -	CabFront pull hoo
	seat belt - arm rests - foot rests - tool	Full fuel tankRear retrieval hitcl
Ingine lubrification	storage area - headliner floor mat - tilting	Hydraulics tanksTrack guide:
Pump Deep sump plate cooler	seat platform - noise level 78dbA.	Operator170 lb (77 kg
w/ pressurized under-piston nozzles		•
ump operating angle	Warning lights	CLT chainHor
atings	Air filter - alternator - diagnostic fault indicator - engine coolant temperature -	LightsTrack sho
ide-to-side35°	engine oil pressure - hydraulic filter - low	C- frameBlade width as note
Fore and aft45°	fuel level - park brake engaged - service	WEIGHT (KG
	soon indicator - transmission filter -	Extra Long Tracks20592 kg Semi-U
Radiator	transmission charge pressure.	
ore size area0.33 m²	Gauges	ADD-ON WEIGHTS WEIGHT (KG
Rows of tubes2	Battery voltage - digital hour	Drawbar6
	meter/tachometer diagnostic/service reminder - fuel level - transmission oil	Ripper(3 shank)135
	temperature - transmission speed	Winch
TRANSMISSION COOLING	indicator - water temperature.	WILIGITATION 250
ypeOil to air	Audible warnings	CELT CHAIN-PER TRACK WEIGHT (KG
Core size 0.31 m ²	Engine coolant temperature - engine oil	24" (610 mm)1789
	pressure - low fuel level - transmission	
LECTRICAL SYSTEM	charge pressure - transmission/hydraulic	Additional weights vs CLT- per track4
Alternator	temperature.	Center rock guard306
Batteries(2)12 Volt, low maintenance		Sweeps6
1000 cold-cranking amps @ -18° C	HYDRAULICS	
Ower Train Oual path hydrostatic	Pump Flow@2200 RPM153 L/ min	UNDERCARRIAGE
oumpVariable axial piston	Max. pressure248 bar	Track adjustmentGrease injection
NotorVariable axial piston	Lift cylinder Dozer	FrameOscillating equalizer bean
fax. drawbar pull	Bore diameter82.6 mm	suspension and pivot shat
ransmissionSingle lever control electronic	Rod diameter50.8 mm	Track link pitch
straight tracking	Stroke1000 mm	CLT track202.8 mn
oil filter4 micron, spin-on, replaceable	Tilt cylinder Dozer	CELT track202.8 mn
in interministration of the original or		Track shoe height73 mn
ravel speeds	Bore diameter114.3 mm	
forward0 - 9.3 km/h	Rod diameter63.5 mm	Pin diameter44.5 mn
Reverse 0 - 9.3 km/h	Stroke126 mm	Durchina Diameter
Parking brakes heavy-duty		Bushing Diameter
spring applied hydraulically	TRACK AND SHOE OPTIONS	CLT track72.7 mn
eleased)	XLT(EXTRA LONG TRACKS)	CELT track93 mm
steering brakes Hydrostatic	610mmclosed grousers and CLT	
inal drive 2 helical gear reductions	610mmopen grousers and CELT	Track shoes per side
to planetary		CLT/CELT track4
to planetally	TRACK ON CROUND	Track rollers per side
	TRACK ON GROUND	
	TRACK ON GROUND Shoe area	Carrier rollers per side
Ratio48.75:1	Shoe area	Carrier rollers per side
Ratio48.75:1		Carrier rollers per side
Ratio48.75:1 BLADE /ariable blade pitch - adjustable 55° +/- 5°	Shoe area	
Ratio	Shoe area	
Ratio	Shoe area	

M-SERIES CRAWLER DOZERS

SPEC SHEETS

GENERAL DIMENSIONS



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

XLT (extra-long track)

TRACKS	
Track gauge	1940 mm
Max. shoe width	610 mm
D. Track on ground	3251 mm
Area of track of ground	4.0 m ²
Ground pressure	0.51 kg/cm ²
DIMENSIONS	
E. Height to top of cab	3103 mm
F. Ground 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
Blade Capacity SAE J1265	5.60m³
Undercarriage available	XLT
H. Blade width	3426 mm
Blade width in transport position	3426 mm
A. Blade height	1425 mm
Max. Tilt	+/- 433 mm
Max. Pitch	+/- 5°
C. Max. Angle	-
B. Digging depth	583 mm
Max. Lift above ground	1244 mm
M. Cast reach	438 mm
N. Cut reach	438 mm
J. Over track	2550 mm width
	610 mm shoes

610 mm shoes

STANDARD AND OPTIONAL

STANDARD

ENGINE

FPT Industrial engine NEF Family Integral engine oil cooling Fuel filter Dual element radial seat air cleaner 120 amp alternator 2 x 12 V batteries Engine side panels

BLADE

50°- 60° variable pitch with Integral Adjustment Tool, Single Lever, Electro-Hydraulic control for blade lift, angle, or tilt "Equistatic" device for dozer version

POWER TRAIN

Dual path infinitely variable, single-lever controlled Hydrostatic drive with Electronic Straight Tracking and Counter-rotation Forward/reverse ratio control 3 pre-selectable steering sensitivities 3 reversing sensitivities 3 blades sensitivities Blade Shaking Mode Fine grading mode Triple reduction final drive: helical gear/planetary Decelerator with hydrostatic drive retardation Automatic spring applied parking brake

UNDERCARRIAGE

Hydraulic track adjusters
Case Extended Life Track (CELT) Chain
Permanently lubricated (track and carrier
rollers/idlers
Track adjuster guard
Track guides - front and rear

OPERATOR ENVIRONMENT

Cab with heater, A/C, defroster, windshield wiper and lights
Seat belt
76 mm Internal mirror

OTHER

Reverse gear warning Horn Lights: 2 in front and 1 in rear Master disconnect switch Mirror Rear transmission guard

OPTIONAL

REAR MOUNTED EQUIPMENT

Ripper - 5 positions with 3 shanks Rear tow hook Rear drawbar

HYDRAULICS

4 spool hydraulic valve for field-installed ripper 3 spool hydraulic valve without plugs for fieldinstalled ripper 3 spool hydraulic valve with plugs

GUARDS

CAB canopy brush guard Center rockguard Sweeps

SCREENS

Cab rear screen Radiator brush screen

OPERATOR ENVIRONMENT

Environmental drain Grid heater Additional work lights Front pull hook Rear view mirror Rear wiper for cab

Standard and optional equipment shown may vary by country.

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PARTS

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NOTE: CASE provides specific outfits for various countries and many optional fittings (OPT).
The illustrations on this or other leaflets may relate to standard or optional fittings.

Please consult your CASE dealer for any information in this regard and any possible updating on components. CNH Industrial reserves the right to modify machine specifications without incurring any obligation relating to such changes.









