

# DOZER

## XLT/WT/LGP

**CASE**  
CONSTRUCTION  
**SINCE 1842.**

# 2050M

## MOTOR

Model	FPT F4HFE613J
Emissions Certification	Tier 4 Final Certified
Cylinders	6
Displacement	409 in <sup>3</sup> (6.7 L)
Fuel injection	Common rail
Fuel	#2 Diesel
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	2000
Low idle	800 +/- 25
Horsepower @ 2000 RPM – SAE J1349:	
Net	214 hp (160 kW)
Gross	232 hp (173 kW)
Engine lubrication:	
Pump	Deep sump plate cooler w/ pressurized under-piston nozzles
Pump operating angle ratings:	
Side-to-side	35°
Fore and aft	45°
Oil filtration	Replaceable, spin-on full-flow cartridge+
Radiator:	
Fins per inch	10
Fan:	
Type	Variable speed/ Auto reversing/Hydraulic driven
Diameter	27.6 in (700 mm)

## DRIVETRAIN

Dual path hydrostatic:	
Pump	Variable axial piston
Motor	Variable bent axis piston
Max. drawbar pull	81,000 lb (360 kN)
Transmission	Single lever control – electronic straight tracking
Transmission oil filter	4 micron at beta 75, replaceable w/ 100 mesh suction screen
Travel speeds:	
Forward	6.1 mph (9.8 kph)
Reverse	6.1 mph (9.8 kph)
Parking brakes	Heavy-duty, spring-applied, hydraulic pressure release
Steering brakes	Hydrostatic
Final drive	2 helical gear reduction to planetary output
Ratio	48.75:1
Transmission cooling:	
Type	Tube and fin
Core size	510.1 in <sup>2</sup> (0.33 m <sup>2</sup> )

## ELECTRICAL

Alternator	120 amp
Battery	(2) 12-volt, low-maintenance 1200 cold-cranking amps @ 0° F (-18° C)
Electrical System	24 Volts

## OPERATOR ENVIRONMENT

Fully enclosed ROPS cab; Single lever control for speed, steering and direction; Cloth air suspension seat w/ back adjustment; Retractable 3 in (76 mm) seat belt; Adjustable armrest; Two foot rest; Rearview mirror; Two door windshield wipers; Dome light; 12-volt accessory outlet; Headliner; Floor mat; Rear Wiper; Radio; Heat/AC.

### Warning lights:

Air filter; Alternator; Diagnostic fault indicator; Engine coolant temperature; Engine oil pressure; Hydraulic filter; Low fuel level; DEF fluid level; Park brake engaged; Service soon indicator; Transmission filter; Transmission charge pressure.

### Gauges:

Battery voltage; Fuel level; Digital hour meter/ tachometer/diagnostic/service reminder; Transmission oil temperature; Transmission speed indicator; Water temperature; Diesel Exhaust Fluid (DEF) level.

### Audible warnings:

Engine coolant temperature; Engine oil pressure; Low fuel level; Transmission charge pressure; Temperature/ hydraulic temperature.

## OPERATING WEIGHT

Unit equipped w/ cab, full fuel tank, 170 lb (77 kg) operator, rear retrieval hitch, track guides, PAT blade.

Extra long track	45,414 lb (20 599 kg)
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Wide track	46,891 lb (21 269 kg)
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Low ground pressure	48,773 lb (22 123 kg)
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Add-on weights:

Drawbar	146 lb (66 kg)
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Ripper – 3 shank	4,145 lb (1 880 kg)
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Winch	5,512 lb (2 500 kg)
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Ultra-Life chain:

24 in (610 mm)	320 lb (145 kg)
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28 in (711 mm)	251 lb (114 kg)
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30 in (762 mm)	295 lb (134 kg)
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36 in (914 mm)	302 lb (137 kg)
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Full rock guard	505 lb (229 kg)
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Sweeps	139 lb (63 kg)
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## HYDRAULICS

Pump flow @ 2200 RPM @ 2,830 psi (19 512 kPa)	40.4 gpm (153 L/min)
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Lift cylinder w/ PAT	Two (2)
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Bore diameter	4.50 in (114.3 mm)
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Rod diameter	2.50 in (63.5 mm)
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Stroke	19.21 in (488.0 mm)
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Angle cylinder w/ PAT	Two (2)
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Bore diameter	4.50 in (114.3 mm)
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Rod diameter	2.50 in (63.5 mm)
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Stroke	19.79 in (502.7 mm)
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Tilt cylinder w/ PAT	One (1)
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Bore diameter	5.00 in (127.0 mm)
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Rod diameter	2.50 in (63.5 mm)
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Stroke	5.84 in (148.4 mm)
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Lift cylinder – Bulldozer	Two (2)
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Bore diameter	3.68 in (93.5 mm)
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Rod diameter	2.25 in (57.2 mm)
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Stroke	35.67 in (906 mm)
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Tilt cylinder – Bulldozer	One (1)
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Bore diameter	4.50 in (114.3 mm)
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Rod diameter	2.50 in (63.5 mm)
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Stroke	3.89 in (98.9 mm)
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## SERVICE CAPACITIES

Fuel tank	107.0 gal (405.0 L)
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Engine oil w/ filter	17.3 qt (16.4 L)
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Engine oil w/o filter	16.5 qt (15.6 L)
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Engine cooling system	8.0 gal (30.28 L)
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Hydraulic reservoir	55.0 gal (210.0 L)
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Final drive – per side	26.4 qt (25.0 L)
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Track rollers – each	0.376 qt (0.356 L)
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Front idlers – each	0.349 qt (0.330 L)
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Carrier rollers – each	0.328 qt (0.310 L)
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DEF tank	14.0 gal (52.0 L)
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## OTHER SPECIFICATIONS

Undercarriage:

Track adjustment	Hydraulic
Frame	Pivot shaft and oscillating equalizer beam suspension

Length of track on ground	128 in (3.25 m)
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Track link pitch	7.99 in (202.9 mm)
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Track shoe height	2.81 in (71.5 mm)
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Pin diameter	1.75 in (44.5 mm)
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Bushing diameter:

SALT HD track	2.87 in (72.9 mm)
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Ultra Life track	2.87 in (72.9 mm)
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Track shoes per side	45
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Track rollers per side	8
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Carrier rollers per side	2
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Track roller rail diameter	8.94 in (227 mm)
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Track on ground:

Shoe area:

24 in (610 mm)	5,233 in <sup>2</sup> (33 760 cm <sup>2</sup> )
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24 in (610 mm)	6,134 in <sup>2</sup> (39 575 cm <sup>2</sup> )
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28 in (711 mm)	7,157 in <sup>2</sup> (46 171 cm <sup>2</sup> )
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30 in (762 mm)	7,668 in <sup>2</sup> (49 469 cm <sup>2</sup> )
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36 in (914 mm)	9,201 in <sup>2</sup> (59 363 cm <sup>2</sup> )
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Track:

Extra long track:

24 in (610 mm) closed grousers and SALT HD
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24 in (610 mm) open grousers and Ultra Life
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Wide track:

28 in (711 mm) closed grousers and SALT HD
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28 in (711 mm) open grousers and Ultra Life
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30 in (762 mm) closed grousers and SALT HD
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30 in (762 mm) open grousers and Ultra Life
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Low ground pressure:

36 in (914 mm) closed grousers and SALT HD
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36 in (914 mm) open grousers and Ultra Life
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Blade:

Variable blade pitch	55° – 60°
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Lift speed – per second	19.0 in (483 mm)
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Cutting edge – PAT	Reversible, replaceable
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Width	10.0 in (254 mm)
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Thickness	0.8 in (20 mm)
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Ripper:

Max. penetration	18.6 in (472.5 mm)
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Width	76.3 in (1 937 mm)
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Cut width	74.4 in (1 890 mm)
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Max. ground clearance	23.7 in (601.7 mm)
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Max. number of shanks	3
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Tooth spacing:

w/ 3 teeth	33.6 in (854.3 mm)
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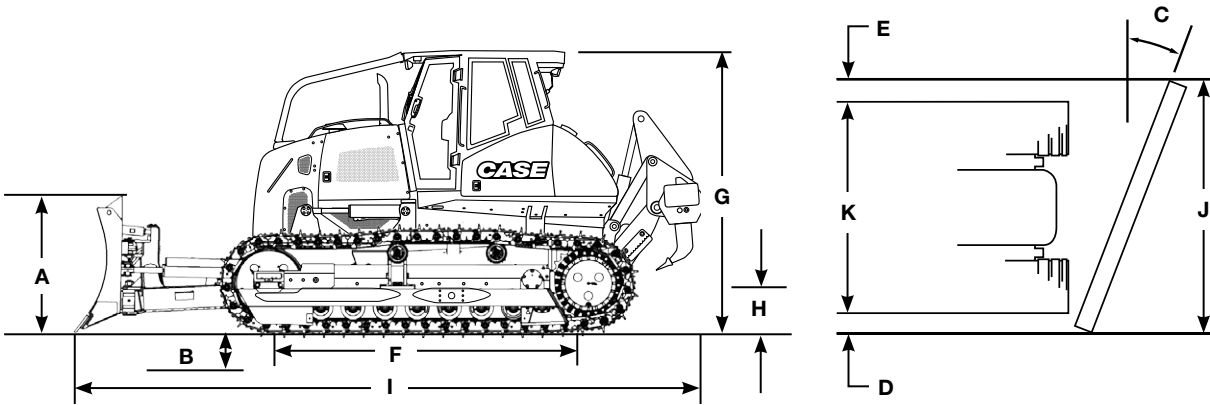
Hydraulic cylinder

Double-acting
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Diameter	6.14 in (156 mm)
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Stroke	23.5 in (597 mm)
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Rod	2.75 in (70 mm)
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Line drawings are for illustrative purpose only and may not be exact representation of unit.

## DIMENSIONS

	Extra Long Track (XLT) with Semi-U	Extra Long Track (XLT) with PAT	Low Ground Pressure (LGP) with Straight PT	Low Ground Pressure (LGP) with PAT	Low Ground Pressure (LGP) with Semi-U
Blade width	134.7 in (3 422 mm)	142 in (3 607 mm)	154 in (3 900 mm)	157.5 in (4 064 mm)	157 in (3 988 mm)
SAE blade capacity	7.29 yd <sup>3</sup> (5.57 m <sup>3</sup> )	6.32 yd <sup>3</sup> (4.83 m <sup>3</sup> )	4.94 yd <sup>3</sup> (3.78 m <sup>3</sup> )	7.12 yd <sup>3</sup> (5.54 m <sup>3</sup> )	7.98 yd <sup>3</sup> (6.10 m <sup>3</sup> )
<b>A.</b> Blade height	56 in (1 418 mm)	53.8 in (1 366 mm)	43.5 in (1 105 mm)	53.9 in (1 369 mm)	53 in (1 349 mm)
Blade lift above ground	49 in (1 237.7 mm)	44.5 in (1 130 mm)	46 in (1 169 mm)	44.5 in (1 130 mm)	48.4 in (1 228 mm)
<b>B.</b> Blade depth below ground	21.5 in (546.8 mm)	21.4 in (542.8 mm)	20.0 in (507.8 mm)	21.4 in (542.8 mm)	21.6 in (548 mm)
<b>C.</b> Blade angle both directions	–	25°	–	25°	–
<b>D.</b> Cast reach	17.3 in (438.9 mm)	22.7 in (576.4 mm)	14.3 in (363 mm)	18.6 in (472.1 mm)	16.2 in (411 mm)
<b>E.</b> Cut reach	17.3 in (438.9 mm)	5.7 in (145.7 mm)	14.3 in (363 mm)	1.7 in (43.0 mm)	16.2 in (411 mm)
Blade tilt, each end	17 in (433 mm)	21.7 in (550 mm)	16.2 in (411 mm)	21.7 in (550 mm)	15.7 in (400 mm)
Track gauge	76 in (1.94 m)	76 in (1.94 m)	89 in (2.26 m)	89 in (2.26 m)	89 in (2.26 m)
Maximum shoe width	24 in (609 mm)	24 in (609 mm)	36 in (914 mm)	36 in (914 mm)	36 in (914 mm)
<b>F.</b> Length of track on ground	128 in (3.25 m)	128 in (3.25 m)	128 in (3.25 m)	128 in (3.25 m)	128 in (3.25 m)
Area of track on ground	7,161 in <sup>2</sup> (4.62 m <sup>2</sup> )	7,161 in <sup>2</sup> (4.62 m <sup>2</sup> )	9,107 in <sup>2</sup> (5.88 m <sup>2</sup> )	9,107 in <sup>2</sup> (5.88 m <sup>2</sup> )	9,107 in <sup>2</sup> (5.88 m <sup>2</sup> )
Ground pressure	7.33 psi (0.51 bar)	7.33 psi (0.51 bar)	5.35 psi (0.36 bar)	5.35 psi (0.36 bar)	5.35 psi (0.36 bar)
<b>G.</b> Height to top of ROPS cab	10 ft 4 in (3 150 mm)	10 ft 4 in (3 150 mm)	10 ft 4 in (3 150 mm)	10 ft 4 in (3 150 mm)	10 ft 4 in (3 150 mm)
Height to top of exhaust	9 ft 4 in (2 870.7 mm)	9 ft 4 in (2 870.7 mm)	9 ft 4 in (2 870.7 mm)	9 ft 4 in (2 870.7 mm)	9 ft 4 in (2 870.7 mm)
<b>H.</b> Ground clearance	16.1 in (408.2 mm)	16.1 in (408.2 mm)	16.1 in (408.2 mm)	16.1 in (408.2 mm)	16.1 in (408.2 mm)
Length:					
Blade straight with drawbar	17 ft 7 in (5 359 mm)	19 ft 4 in (5 902 mm)	19 ft 3 in (5 867 mm)	19 ft 4 in (5 902 mm)	19 ft 6 in (5 980 mm)
<b>I.</b> Blade straight with ripper	22 ft 5 in (6 833 mm)	24 ft 2 in (7 366 mm)	22 ft 9 in (6 934 mm)	24 ft 2 in (7 366 mm)	24 ft 1 in (7 353 mm)
Width:					
Blade straight	11 ft 2 in (3 404 mm)	11 ft 8 in (3 556 mm)	12 ft 8 in (3 861 mm)	13 ft 3 in (4 039 mm)	13 ft 1 in (3 988 mm)
<b>J.</b> Blade angled	–	10 ft 9 in (3 287 mm)	12 ft 1 in (3 690 mm)	11 ft 9 in (3 625 mm)	–
<b>K.</b> Over track	8 ft 3 in (2 515 mm)	8 ft 3 in (2 515 mm)	10 ft 4 in (3 150 mm)	10 ft 4 in (3 150 mm)	10 ft 4 in (3 166 mm)

NOTE: Ground clearance and overall height dimensions are with the grousers fully penetrated. Add 2.19 in (56 mm) if unit is on solid surface.

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## STANDARD EQUIPMENT

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### OPERATOR ENVIRONMENT

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SEE PAGE 1

### ENGINE

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F4HFE613J  
Tier 4 Final Certified  
V-Shape Cooling package with  
hydraulic-driven reversing fan  
Integral engine oil cooling  
Fuel filter  
Dual element radial seal air cleaner  
120 amp alternator  
(2) 950 CCA 12-volt batteries  
Coolant Heated DEF Lines  
Hinged engine side panels

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### DRIVETRAIN

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Dual path infinitely variable, single-lever controlled  
hydrostatic drive, with electronic straight tracking  
and counter-rotation Final drive:  
Triple reduction; helical gear/planetary decelerator  
with hydrostatic  
drive retardation Automatic spring-applied parking  
brake

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### BLADE

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55° – 60° variable pitch  
Single lever electro-hydraulic control for blade lift,  
angle and tilt

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### UNDERCARRIAGE

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Hydraulic track adjusters  
Sealed and Lubricated Track Chain (SALT)  
Permanently lubricated track and carrier rollers  
Track adjuster guard  
Track guides – front and rear  
Robust Smooth One Piece Track Frames with  
Easy Clean-out  
Robust Rock Guards  
Enhanced Track Recoil System  
Central Grease point for Pivot Shaft and  
Equalizer Beam

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### OTHER

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Backup alarm  
Horn  
Work lights:  
2 front  
1 rear  
Ground Level Master disconnect switch  
Mirror  
Turbine Pre-cleaner  
Front pull hook  
Rear tow hook  
Environmental Drain  
Grid Heater/Cold Start  
Transport Protection  
Anti-vandalism package  
Rear Transmission guard

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## OPTIONAL EQUIPMENT

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### TELEMATICS

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CASE SiteWatch™ Telematics – includes  
hardware and a 3-yr Advanced data subscription

### PROCARE

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CASE ProCare – Full Machine Protection Factory  
Warranty (3-yr/3000-hr), Planned Maintenance  
(3-yr/2000-hr) and SiteWatch telematics

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### OPERATOR ENVIRONMENT

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Cab air quality system

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### OPERATOR ENVIRONMENT

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Cab air quality system

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### HYDRAULICS

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

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### REAR MOUNTED EQUIPMENT

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Ripper – 2 position with 3 shanks  
Drawbar  
Drawbar with step

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### BLADES

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PAT – 142 in (3 607 mm) High Visibility Blade  
48 in height  
PAT – 142 in (3 607 mm)  
54 in height  
PAT – 157.5 in (4 000.5 mm)  
54 in height  
Folding PAT – 160 in (4 064 mm)  
HS Straight (WT/LGP) – 154 in (3 900 mm)  
Semi-U – 135 in (3 422 mm)  
Larger Bull Dozer LGP  
Semi-U Blade – 157 in (3 988 mm)  
HS Straight (XLT) – 131 in (3 334 mm)

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### GUARDS

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CAB canopy brush guard  
Full length rock guards  
Sweeps  
Waste Handler Guarding Package

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### SCREENS

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Cab rear screen

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### OTHER

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CASE Ultra Life Track  
Additional work lights

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### PRECISION

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Factory Fit CoPilot  
Factory Fit 2D Laser  
Factory Fit 3D GNSS  
Universal Blade Guidance:  
Compatible with Leica, Trimble and Topcon  
Leica Blade Guidance Ready  
Trimble Blade Guidance Ready  
Topcon Blade Guidance Ready

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Fleet management and monitoring system by satellite or cell phone tracking.

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