

1850K SERIES 3 LT/XLT/LGP CRAWLER DOZER TIER III CERTIFIED

ENGINE

Model	Case Family IV 667TA/EED (LT and XLT), Tier III certified Case Family IV 667TA/EBF (LGP), Tier III certified	
Cylinders	6	
Bore/Stroke	4.1 in x 5.2 in (104 x 132 mm)	
Displacement	409 in ³ (6.7 L)	
Fuel injection	Direct	
Fuel	Diesel	
Fuel filter	spin-on with in-line strainer	
Air intake	Cross-flow	
Cooling	Liquid	
Engine speeds (rpm)		
High idle - no load	2100±70	
Rated - full load	2000	
Low idle	780/920	
Horsepower per SAE J1349 LT, XLT		
Net	184 (137 kW) @ 2000 rpm	
Gross	194 (145 kW) @ 2000 rpm	
Peak torque @ 1400 rpm		
Net	634 lb-ft (860 N-m)	
LGP		
Net	199 (148 kW) @ 2000 rpm	
Gross	210 (157 kW) @ 2000 rpm	
Peak torque @ 1400 rpm		
Net	702 lb-ft (952 N-m)	
Engine lubrication -		
Pump	Deep sump plate cooler with pressurized under-piston nozzles	
Pump operating angle ratings		
Side-to-side	45°	
Fore and aft	45°	
Oil filtration	Replaceable, spin-on full-flow cartridge	

ENGINE COOLING

Radiator -		
Core size area	1193 in ² (0.77 m ²)	
Rows of tubes	6	
Fan -		
Diameter	30 in. (762 mm)	
Ratio	1.1:1	

ELECTRICAL SYSTEM

System voltage	24
Alternator	65 amp
Batteries (2)	12-volt, low-maintenance, 650 cold-cranking amps @ 0° F (-18° C)

POWERTRAIN

Torque converter	Single-stage	
Diameter	15 in (381 mm)	
Stall ratio	2.28	
Drawbar pull* -		
1st	65,200 lb (290 kN)	
2nd	37,000 lb (165 kN)	
3rd	21,000 lb (93 kN)	
Transmission	Countershaft modulated full powershift	
Steering	Hydrostatic differential steering	
Oil filter	25 micron absolute, spin-on replaceable	
Travel speeds* -		
Forward	mph (km/h)	
1st	2.7 (4.3)	
2nd	4.1 (6.7)	
3rd	6.8 (10.9)	
Reverse		
1st	3.2 (5.2)	
2nd	5.2 (8.4)	
3rd	8.1 (13.0)	
Parking brakes	Heavy-duty, spring-applied, hydraulic pressure release	
Brakes	Multi-disc, spring-applied, hydraulic pressure release, oil cooled; applied by depressing center floor brake pedal	
Final drive	Double reduction	

* LT and XLT configuration

HYDRAULIC SYSTEM

Equipment and steering pump	variable piston pump - load sensing
Max. pump flow	65.8 gpm (249 L/min) @ 2000 rpm

CYLINDERS

Lift cylinders (2)		
Bore diameter	3.74 in (95 mm)	
Rod diameter	2.36 in (60 mm)	
Stroke	49.2 in (1250 mm)	
Tilt cylinder (1)		
Bore diameter	5.51 in (140 mm)	
Rod diameter	2.76 in (70 mm)	
Stroke	4.96 in (126 mm)	

UNDERCARRIAGE

Track adjustment	Hydraulic	
Frame	Oscillating suspension	
Length of track on ground		
XLT, LGP	126 in (3200 mm)	
LT	106.3 in (2700 mm)	
Track link pitch	8 in (203 mm)	
Track shoe height	2.8 in (71.5 mm)	
Track shoes per side -		
LT	40	
XLT & LGP	45	
Track rollers per side -		
LT	7	
XLT & LGP	8	
Carrier rollers per side	2	

TRACK

LONG TRACK

22 in (559 mm) closed grousers and CLT
24 in (610 mm) closed grousers and CLT

EXTRA LONG TRACK

22 in (559 mm) closed grousers and CLT
24 in (610 mm) closed grousers and CLT

LGP

30 in (762 mm) closed grousers and CLT
36 in (915 mm) closed grousers and CLT

OPERATOR ENVIRONMENT

ROPS canopy
Joystick lever with forward/reverse detents and up/down shift button
Adjustable armrest
Foot rests
Retractable seat belt, 3 in (76 mm)
Vinyl suspension seat w/ fore/aft and height adjustment
Center brake pedal

INSTRUMENTATION

Warning lights:
Engine coolant
Air filter
Battery
Brakes
Engine oil pressure
Low fuel level
Hydraulic filter
Transmission pressure
Transmission temperature
Indicator lights (green):
Front work lights on
Rear work lights on
Display lights on
Gauges:
Fuel level
Tachometer
Water temperature
Audible warnings:
Engine oil pressure
Transmission pressure
Engine coolant
Transmission temperature
Brakes
Digital display (5 digits):
Displays engine hours upon start up and then gear selected

BLADE

Blade cutting edge	55°
Lift speed (per second)	8.3 in (212 mm)
Cutting edge	Reversible and replaceable
Width	8.0 in (203 mm)
Thickness	0.75 in (19 mm)

RIPPER

Max. penetration	21 in (540 mm)
Width	83.9 in (2130 mm)
Cut width	74.8 in (1900 mm)
Ground clearance (at carry)	19.8 in (503 mm)
Points	Replaceable
Number of shanks	3
Tooth spacing	36.3 in (922 mm)
Hydraulic cylinder (2-double-acting)	
Diameter	3.94 in (100 mm)
Stroke	18.9 in (480 mm)
Rod	2.20 in (56 mm)
Weight	4,431 lbs (2010 kg)

SERVICE CAPACITIES

Fuel tank	106 gal (401.2 L)
Engine oil w/filter	20 qt (19 L)
Engine oil w/o filter	16.8 qt (16 L)
Engine cooling system	26.4 qt (25 L)
Hydraulic reservoir	122.6 qt (118 L)
Final drive (per side)	34.9 qt (33 L)

OPERATING WEIGHTS

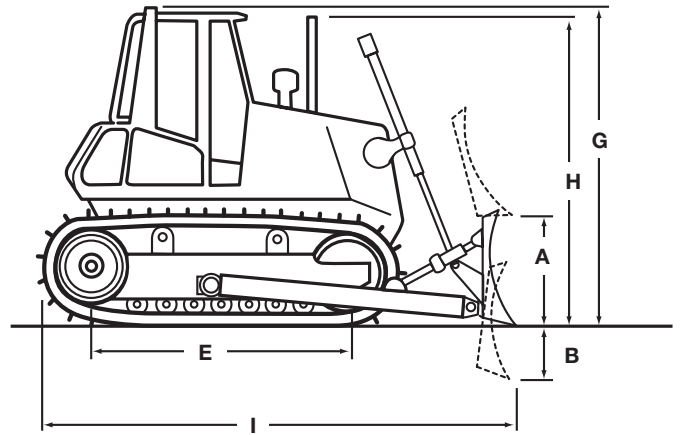
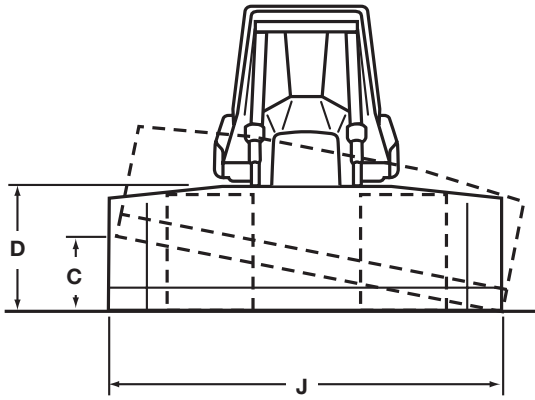
Unit equipped with ROPS, full fuel tank, 175 lb (79 kg) operator, semi U blade and 22 in (560 mm) grousers

Long Track	44,269 lbs (20 080 kg)
Extra Long Track	46,649 lbs (21 159 kg)
LGP*	49,450 lbs (22 430 kg)

Add-on weights –

Ripper	4,431 lbs (2010 kg)
Cab	661 lbs (300 kg)
24 in grousers on LT	330 lbs (150 kg)
24 in grousers on XLT	375 lbs (170 kg)

* Unit equipped with ROPS, full fuel tank, straight blade and 36 inch grousers.



DIMENSIONS

BLADE	Long Track (LT) Semi U	Extra Long Track (XLT) Semi U	Low Ground Pressure (LGP) Straight PT
A. Blade lift above ground	43 in (1100 mm)	46 in (1160 mm)	46 in (1160 mm)
B. Blade depth below ground	18.5 in (472 mm)	21 in (534 mm)	21 in (534 mm)
C. Blade tilt, each end	33 in (838 mm)	33 in (838 mm)	33 in (838 mm)
D. Blade height	56 in (1425 mm)	56 in (1425 mm)	43.7 in (1110 mm)
Blade capacity	7.3 yd ³ (5.6 m ³)	7.3 yd ³ (5.6 m ³)	4.8 yd ³ (3.7 m ³)
TRACKS			
Track gauge	75 in (1905 mm)	75 in (1905 mm)	82 in (2082 mm)
Max. shoe width	24 in (609 mm)	24 in (609 mm)	36 in (914 mm)
E. Length of track on ground	106.3 in (2700 mm)	126 in (3200 mm)	126 in (3200 mm)
Ground pressure	8.6 psi (60.3 kpa)	7.5 psi (52.8 kpa)	5.4 psi (37.6 kpa)
DIMENSIONS			
G. Height to top of ROPS	127 in (3226 mm)	127 in (3226 mm)	127 in (3226 mm)
H. Height to top of exhaust	125 in (3175 mm)	125 in (3175 mm)	125 in (3175 mm)
Ground clearance w/drawbar	15 in (381 mm)	15 in (381 mm)	15 in (381 mm)
I. Length – blade straight			
with drawbar	216 in (5487 mm)	223 in (5675 mm)	223 in (5675 mm)
with ripper	253 in (6420 mm)	262 in (6655 mm)	262 in (6655 mm)
J. Width –			
with blade straight over track	134.6 in (3420 mm) 98.8 in (2510 mm)	134.6 in (3420 mm) 98.8 in (2510 mm)	154 in (3900 mm) 118 in (2997 mm)

DIMENSIONS - PAT BLADE

BLADE	Long Track (LT) PAT	Extra Long Track (XLT) PAT	Low Ground Pressure (LGP) PAT
A. Blade lift above ground	45.2 in (1148 mm)	51.2 in (1300 mm)	49.6 in (1260 mm)
B. Blade depth below ground	30.1 in (764 mm)	31.5 in (800 mm)	31.5 in (800 mm)
C. Blade tilt, each end	18.9 in (480 mm)	18.9 in (480 mm)	22.4 in (569 mm)
D. Blade height	52.1 in (1323 mm)	52.1 in (1323 mm)	52.1 in (1323 mm)
Blade capacity	6.3 yd ³ (4.8 m ³)	6.3 yd ³ (4.8 m ³)	7.1 yd ³ (5.4 m ³)
TRACKS			
Track gauge	75 in (1905 mm)	75 in (1905 mm)	75 in (1905 mm)
Max. shoe width	24 in (609 mm)	24 in (609 mm)	36 in (914 mm)
E. Length of track on ground	106.2 in (2697 mm)	126.2 in (3205 mm)	126.2 in (3205 mm)
Ground pressure	8.8 psi (60.7 kpa)	7.9 psi (54.2 kpa)	6.6 psi (45.2 kpa)
DIMENSIONS			
G. Height to top of ROPS	127 in (3226 mm)	127 in (3226 mm)	127 in (3226 mm)
H. Height to top of exhaust	125 in (3175 mm)	125 in (3175 mm)	125 in (3175 mm)
Ground clearance w/drawbar	15 in (381 mm)	15 in (381 mm)	15 in (381 mm)
I. Length – blade straight			
with drawbar	221 in (5613 mm)	233 in (5918 mm)	233 in (5918 mm)
with ripper	258 in (6553 mm)	270 in (6858 mm)	270 in (6858 mm)
J. Width –			
with blade straight over track	142 in (3607 mm) 98.8 in (2510 mm)	142 in (3607 mm) 98.8 in (2510 mm)	160 in (4064 mm) 118 in (2997 mm)

STANDARD EQUIPMENT

OPERATOR'S COMPARTMENT

ROPS/FOPS canopy
ROPS headliner
Vinyl suspension seat w/fore/aft and height adjustment
Retractable seatbelt, 3 in (76 mm)
Adjustable armrests
Foot rests

ENGINE

Case Family IV 667TA 6.7L
Tier III certified
Decelerator
Automatic fan belt tensioner
Integral engine oil cooling
Fuel filter
Dual element radial seal air cleaner
70 amp alternator
12-volt battery
Anti-sandblast screens (2) for radiator
Side-by-side radiator/transmission coolers
Engine side panels

OPTIONAL EQUIPMENT

OPERATOR'S COMPARTMENT

Cab (w/heater, air conditioner, defroster, front & rear windshield washer/wiper, lights, cloth suspension seat, cigarette lighter and ashtray)
Air suspension seat

HYDRAULICS

Rear hydraulic function for field-installed ripper

POWERTRAIN

3F/3R modulated Powershift transmission
"Power steer" steering
Joystick control with F/R detents and up/down shift button
"AS" auto shift feature allows auto shift from 1F gear to 2R gear
"AL" auto load shifts down under load

BLADE

Single lever control for blade functions
Pilot-operated control
For optional PAT configuration
Single lever control with hoist function

UNDERCARRIAGE

Hydraulic track adjusters
Case lubricated track chain
Permanently lubricated track and carrier rollers
Track adjuster guard
Track guides (front and rear)

REAR MOUNTED EQUIPMENT

Ripper (3 shanks)
Retrieval hitch
Drawbar

BLADES

142.5 in (3620 mm) Semi-U
154 in (3900 mm) Straight PT
142 in (3607 mm) PAT
160 in (4064 mm) PAT

GUARDS

Sweeps
Center rockguard

OTHER

Backup alarm
Horn
Anti-vandalism package
Mirror
Pre-cleaner, turbo
Lights – 2 front, 2 rear
Bottom transmission guard
Bottom engine guard
Winch drive

SCREENS

Rear ROPS and cab
Forestry package (includes sweeps, rear screen, side screens, door screens, front screen and radiator screen)

OTHER

Cold start aid
Radio (cab only)

NOTE: All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.

NOTE: All engines meet current EPA emissions requirements.

IMPORTANT: CNH America LLC reserves the right to change these specifications without notice and without incurring any obligation relating to such change. CNH America LLC does not warrant the safety or reliability of attachments from other manufacturers.

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