

# CRAWLER DOZER

# CASE

CONSTRUCTION

SINCE 1842.

## 1150M

### ENGINE

|                               |   |
|-------------------------------|---|
| Brand                         | FPT   |
| Model                         | F4HFA613L*E003  |
| Type                          | Turbo charged, water cooled. 4-stroke cycle diesel engine. Electronic fuel injection with crank case shield. Tier 2 certified |
| Cylinders                     | 6   |
| Bore and stroke               | 4.09 x 5.2 in (104 x 132 mm)  |
| Displacement                  | 408.86 in <sup>3</sup> (6,7 l)  |
| Direct injection              | Common Rail   |
| Fuel                          | Diesel  |
| Fuel filter                   | Spin-on w/ in-line strainer   |
| Cooling System                | Liquid  |
| Engine rotations - rpm        |   |
| High - neutral without load   | 2,200 +/- 50  |
| Nominal - full load           | 2,200   |
| Low idle                      | 1,100 +/- 25  |
| Power @ 2,200 rpm - ISO 14396 |   |
| Gross (SAE J1349)             | 138 hp (103 kW)   |
| Net (SAE J1349)               | 127.4 hp (95 kW)  |
| Torque @ 1,400 rpm            |   |
| Gross                         | 466 lbf.ft (632 Nm)   |
| Net                           | 450 lbf.ft (610 Nm)   |
| Engine lubrication            |   |
| Pump                          | Deep sump plate cooler w/ pressurized under-piston nozzles  |
| Operating angle               |   |
| Sideways                      | 35°   |
| Longitudinal                  | 45°   |
| Oil filter                    | Replaceable, spin-on full-flow cartridge  |
| Radiator                      |   |
| Fins per inch                 | 10.16   |
| Fan propeller                 | Diameter 26.0 in (660 mm)   |

### POWER TRAIN

|                        |   |
|------------------------|---|
| Dual path hydrostatic: |   |
| Pump                   | Variable axial piston   |
| Motor                  | Variable bent axis piston   |
| Maximum traction force | 48,000 lbf (213.5 kN)   |
| Transmission           | Commanded by a single electronically controlled lever   |
| Oil filter             | Replaceable cartridge with filtering up to 4 micron with a 100 mesh suction screen  |
| Displacement speeds    |   |
| Forward                | 5.8 mph (9.3 km/h)  |
| Reverse                | 5.8 mph (9.3 km/h)  |
| Parking brake          | SAHR (Applied through spring actuation, released hydraulically)   |
| Steering brakes        | Hydrostatic   |
| Final command          | 2 helical gear reductions and a planetary reduction   |
| Reduction ratio        | 61.4:1  |
| Transmission cooling   |   |
| Type                   | Oil to air  |
| Core area              | 498 in <sup>2</sup> (0.32 m <sup>2</sup> )  |
| NOTE:                  | Measured using standard track chain. Increases travel speeds by 4% and reduces drawbar pull by 4% with the optional Max Life track chain. |

### ELECTRIC SYSTEM

|            |   |
|------------|---|
| Alternator | 120 A   |
| Batteries  | 2x 12V in series, maintenance free<br>925 CCA @ 80F |
| Voltage    | 24 V  |

### HYDRAULIC SYSTEM

|  |                        |
|--|------------------------|
| Pump flow @ 2,200 rpm with 2,830 psi (195 bar) | 36.5 gpm (138.5 l/min) |
| PAT lifting cylinders                          | 2                      |
| Diameter of the cylinder                       | 4.25 in (108 mm)       |
| Diameter of the cylinder rod                   | 2 in (50,8 mm)         |
| Stroke   | 19.21 in (488.0 mm)    |
| PAT angling cylinders                          | 2                      |
| Diameter of the cylinder                       | 4.50 in (114.3 mm)     |
| Diameter of the cylinder rod                   | 2.5 in (63,5 mm)       |
| Stroke   | 18.33 in (465.7 mm)    |
| PAT inclination cylinder                       | 1                      |
| Diameter of the cylinder                       | 5 in (127 mm)          |
| Diameter of the cylinder rod                   | 2.5 in (63,5 mm)       |
| Stroke   | 5.84 in (148.3 mm)     |

## OPERATOR COMPARTMENT

### Cab

Optional ROPS cab  
Single lever control for speed, steering and direction  
Cloth air suspension seat w/ back adjustment  
Retractable 3 in (76,2mm) seat belt;  
Adjustable armrest  
Two foot rest  
Rearview mirror  
Two door windshield wipers  
Dome light  
12-volt accessory outlet  
Headliner  
Floor mat

### 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  
Fuel level  
Digital hour meter  
Tachometer  
Diagnosis  
Service reminder  
Transmission oil temperature  
Transmission speed indicator  
Cooling fluid temperature

### Audible warnings

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

## CAPACITIES

|                           |                    |
|---------------------------|--------------------|
| Fuel Tank                 | 85.1 gal (322.0 L) |
| Engine oil with filter    | 17.3 qt (16.4 L)   |
| Engine oil without filter | 16.5 qt (15.6 L)   |
| Engine cooling system     | 7.4 gal (28 L)     |
| Hydraulic tank            | 51.0 gal (193 L)   |
| Final drive – per side    | 16.5 qt (15.6 L)   |
| Track rollers – each      | 0.26 qt (0.25 L)   |
| Front idlers – each       | 0.35 qt (0.33 L)   |
| Carrier rollers – each    | 0.26 qt (0.25 L)   |

## OPERATING WEIGHT

Unit equipped w/ cab, full fuel and hydraulic tanks, 170 lb (77 kg) operator, SALT chain, front pull hook, rear retrieval hitch, track guides, backup alarm, horn, lights, track shoe and blade.

|            |                       |
|------------|-----------------------|
| Long track | 31,134 lb (14 122 kg) |
| Wide track | 32,174 lb (14 594 kg) |

### Add-on weights:

|                     |                     |
|---------------------|---------------------|
| Drawbar             | 146 lb (66 kg)      |
| Ripper 3 Shank      | 2,377 lb (1 078 kg) |
| Winch               | 2,448 lb (1 110 kg) |
| Front Counterweight | 948 lb (430 kg)     |
| Sweeps              | 139 lb (63 kg)      |

## OTHER SPECIFICATIONS

### UNDERCARRIAGE

|                                    |   |
|------------------------------------|---|
| Adjustment of tracks               | Hydraulic   |
| Frame                              | Pivot shaft and oscillating equalizer beam suspension |
| Length of the tracks on the ground |   |
| SALT                               | 8' 6" (2 600 mm)                                      |
| Track pitch                        |   |
| Distance between the shoes         | 6.91" (175,5 mm)                                      |
| Grouser height                     | 2.17" (55,00 mm)                                      |
| Pin diameter                       | 1.44" (36,58 mm)                                      |
| Bushing diameter                   |   |
| SALT                               | 62.2 mm (2.45")                                       |
| Number of shoes                    | 43  |
| Rollers                            |   |
| Lower (each side)                  | 7   |
| Upper (each side)                  | 2   |
| Diameter of the lower rollers      | 7.99 in (203 mm)                                      |
| Diameter of the upper rollers      | 5.51 in (140 mm)                                      |

### TRACK

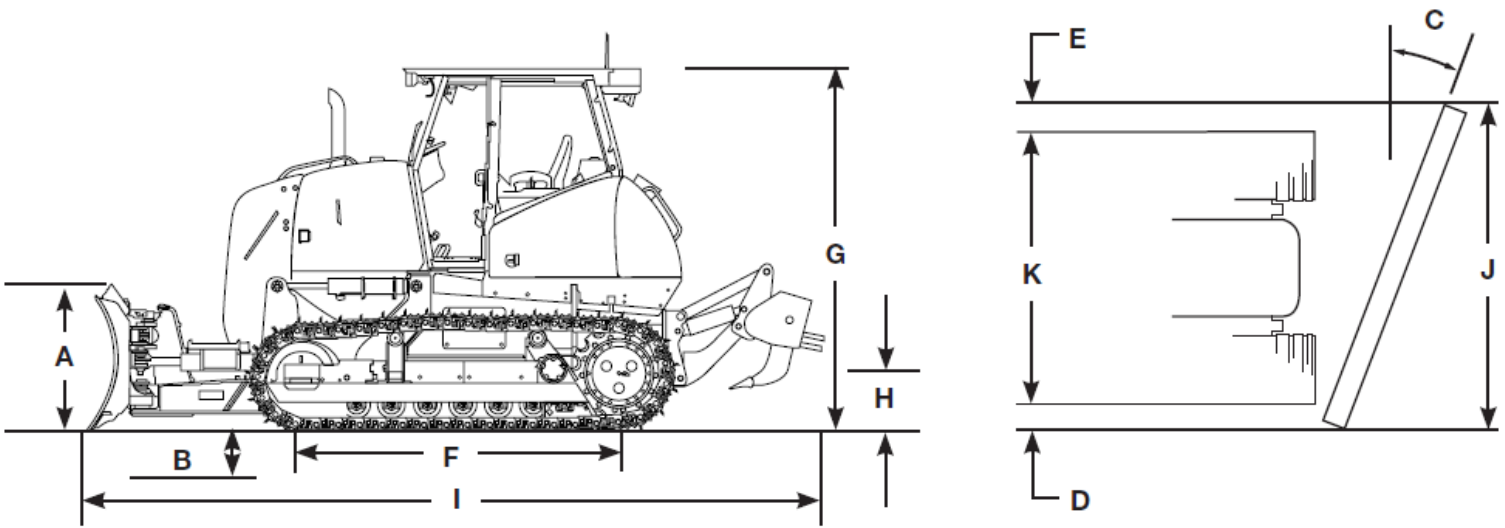
|                |   |
|----------------|---|
| Shoe area:     |   |
| 22 in (559 mm) | 4,506 in <sup>2</sup> (29 068 cm <sup>2</sup> ) |
| 26 in (660 mm) | 5,320 in <sup>2</sup> (34 320 cm <sup>2</sup> ) |
| 30 in (762 mm) | 6,142 in <sup>2</sup> (39 624 cm <sup>2</sup> ) |

### BLADE

|                                  |                          |
|----------------------------------|--------------------------|
| Variable blade inclination       | 55° a 60°                |
| Lifting speed                    | 503 mm/sec (19,8 in/sec) |
| Reversible and replaceable blade |                          |
| Width                            | 8 in (203,2 mm)          |
| Thickness                        | 0,8 in (19,1 mm)         |
| Length                           | 85 in (2158 mm)          |

### RIPPER

|                                    |                    |
|------------------------------------|--------------------|
| Maximum penetration                | 20 in (499 mm)     |
| Width                              | 67.4 in (1 711 mm) |
| Cutting width                      | 64.4 in (1 635 mm) |
| Maximum free space over the ground | 16.0 in (403 mm)   |
| Maximum number of teeth            | 3                  |
| Tooth spacing w/ 3 teeth           | 30.9 in (785 mm)   |
| Double action hydraulic piston     |                    |
| Diameter                           | 4 in (101,6 mm)    |
| Stroke                             | 10 in (254 mm)     |
| Diameter of the rod                | 2 in (50,8 mm)     |



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

## DIMENSIONS

|                                       | Long Track (LT)                              | Wide Track (WT)                              |
|---------------------------------------|--|--|
| Blade width                           | 120 in (3 048 mm)                            | 132 in (3 353 mm)                            |
| SAE blade capacity                    | 3.77 yd <sup>3</sup> (2.88 m <sup>3</sup> )  | 4.16 yd <sup>3</sup> (3.18 m <sup>3</sup> )  |
| Blade height                          | 44.1 in (1 119 mm)                           | 44.1 in (1 119 mm)                           |
| <b>A.</b> Blade lift above ground     | 36.4 in (926 mm)                             | 36.4 in (926 mm)                             |
| <b>B.</b> Blade depth below ground    | 20.4 in (518 mm)                             | 20.4 in (518 mm)                             |
| <b>C.</b> Blade angle both directions | 25°  | 25°  |
| <b>D.</b> Cast reach                  | 16 in (408 mm)                               | 14.5 in (368 mm)                             |
| <b>E.</b> Cut reach                   | 0.8 in (20 mm)                               | -0.8 in (-20 mm)                             |
| Blade tilt, each end – up to 8.3°     | 16.9 in (430 mm)                             | 17.7 in (450 mm)                             |
| Track gauge                           | 72 in (1.83 m)                               | 80 in (2.03 m)                               |
| Maximum shoe width                    | 20 in (508 mm)                               | 26 in (660 mm)                               |
| <b>F.</b> Length of track on ground   | 102.4 in (2 600 mm)                          | 102.4 in (2 600 mm)                          |
| Area of track on ground               | 4,095 in <sup>2</sup> (2.64 m <sup>2</sup> ) | 5,320 in <sup>2</sup> (3.43 m <sup>2</sup> ) |
| Ground pressure                       | 7.60 psi (0.53 bar)                          | 6.05 psi (0.42 bar)                          |
| <b>G.</b> Height to top of cab        | 10 ft 0 in (2 956 mm)                        | 10 ft 0 in (2 956 mm)                        |
| <b>H.</b> Ground clearance            | 12.7 in (322 mm)                             | 12.7 in (322 mm)                             |
| Length:                               |  |  |
| Blade straight with drawbar           | 16 ft 8 in (5 088 mm)                        | 16 ft 8 in (5 088 mm)                        |
| <b>I.</b> Blade straight with ripper  | 21 ft 0 in (6 191 mm)                        | 21 ft 0 in (6 191 mm)                        |
| Width:                                |  |  |
| Blade straight                        | 10 ft 0 in (3 048 mm)                        | 11 ft 0 in (3 355 mm)                        |
| <b>J.</b> Blade angled                | 9 ft 1 in (2 764 mm)                         | 9 ft 11 in (3 041 mm)                        |
| <b>K.</b> Over track                  | 7 ft 8 in (2 337 mm)                         | 8 ft 9 in (2 692 mm)                         |

NOTE: Ground clearance and overall height dimensions are with the grousers fully penetrated. Add 2.07 in (55.5 mm) if unit is on solid surface.

## STANDARD EQUIPMENT

### Operator Compartment

See page 2

### Engine

FPT F4HFA613L\*E003  
Automatic fan belt tensioner  
Integral engine oil cooling  
Fuel filter  
Dual element radial seal air cleaner  
120 amp alternator  
(2) 950 CCA 12-volt batteries  
Anti-sandblast radiator  
Engine side panels.

### Power Train

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  
Spring-applied hydraulic release parking brake

### Blade

55° – 60° variable pitch, with integral adjustment tool  
Single lever control for blade lift, angle and tilt

### Undercarriage

Hydraulic track adjusters  
Case Lubricated Track Chain  
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  
Low noise system configuration  
Low vibration system configuration

### Others

Anti-vandalism package  
Backup alarm  
Horn  
Work lights  
2 frontal  
1 rear  
Master disconnect switch  
Mirror  
Pre-cleaner  
Front pull hook  
Rear transmission guard)

## OPTIONAL EQUIPMENT

### Operator Compartment

Cab with heat, A/C, defroster, windshield wiper and lights  
Cab air quality system  
Rear wiper for cab  
Radio

### Hydraulics

4-spool hydraulic valve for field-installed ripper

### Rear mounted equipment

Ripper – 5 position with 3 shanks  
Hydraulic pump with PTO  
Rear tow hook  
Drawbar  
Drawbar with step

### Blades

120 in (3 050 mm)  
132 in (3 355 mm)

### Guards

Sweeps  
Center rock guard

### Screens

ROPS rear screen  
Cab rear screen  
ROPS side screen  
Radiator brush screen

### Others

Environmental drains  
Case Extended Life Track  
Additional work lights  
Front counterweight with pull hook  
Blade guidance ready – Trimble  
Blade guidance ready – Leica  
Blade guidance ready – Topcon  
Rearview mirror  
Cold start – grid heater: with dual 12-volt battery



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

CASE Corporation reserves the right to make improvements in design or changes in specifications at any time without incurring any obligation to install them on units previously sold. The specifications, descriptions, and illustrative materials contained here reflect correctly the data known up to the publication date, but are subject to changes with no previous notice. The illustrations may include optional equipment and accessories and may not include all standard equipment.

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