

PRELIMINARY

ENGINE

Model	Case F4HFE613F Tier 4 Interim Certified
Cylinders	6
Displacement	409 in ³ (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	1100 +/- 25
Horsepower @ 2000 RPM – SAE J1349:	
Net	127.4 hp (95 kW)
Gross	138 hp (103 kW)

Engine lubrication:

Pump	Deep sump plate cooler w/ pressurized under-piston nozzles
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Pump operating angle ratings:

Side-to-side	35°
Fore and aft	45°
Oil Filtration	Replaceable, spin-on full flow cartridge

Radiator:

Core size area	412 in ² (0.26 m ²)
Rows of tubes	25

Fan:

Diameter	26.0 in (660 mm)
Ratio	0.96:1

POWERTRAIN

Dual path hydrostatic:	
Pump	Variable axial piston
Motor	Variable bent axis piston
Max. drawbar pull*	48,000 lb (213.5 kN)
Transmission	Single lever control electronic straight tracking
Oil filter	4-micron, spin-on, replaceable
Travel speeds*:	
Forward	5.8 mph (9.3 kph)
Reverse	5.8 mph (9.3 kph)
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	638 in ² (0.41 m ²)

NOTE: *Measured using standard track chain. Increase travel speeds by 4% and reduce drawbar pull by 4% w/ the optional CELT track chain.

ELECTRICAL

Alternator	120 amp
Batteries	2 x 12-volt, low-maintenance 925 cold-cranking amps @ 0° F (-18° C)

OPERATOR ENVIRONMENT

ROPS/FOPS canopy; Vinyl suspension seat w/ back adjustment; Retractable 2 in (51 mm) seat belt; Adjustable armrests; Foot rests; Rearview mirror; Tool storage; Headliner; Floor mat; Seat tilts for access.

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 hourmeter/ tachometer/diagnostic/service reminder; 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.

OPERATING WEIGHT

Unit equipped w/ ROPS, full fuel tank, 170 lb (77 kg) operator, side shield, track guides, backup alarm, horn, lights and rear retrieval hitch.

Long track	31,134 lb (14 122 kg)
Wide track	32,174 lb (14 594 kg)
Low ground pressure	32,632 lb (14 804 kg)

Add-on weights:

Drawbar	146 lb (66 kg)
Ripper – 3 shank	2,264 lb (1027 kg)
Winch	2,099 lb (952 kg)
Front counterweight	952 lb (432 kg)
Cab	1,710 lb (776 kg)

CELT chain – per track:

20 in (508 mm)	5,019 lb (2276 kg)
22 in (559 mm)	5,341 lb (2422 kg)
26 in (660 mm)	5,715 lb (2592 kg)
30 in (762 mm)	6,178 lb (2802 kg)

Center rock guard	295 lb (134 kg)
Sweeps	139 lb (63 kg)
Dual batteries	174 lb (79 kg)

HYDRAULICS

Pump flow @ 2200 RPM @ 2,830 psi (195 bar):
34.9 gpm (132 L/min)

Lift cylinder	Two (2)
Bore diameter	4.25 in (108.0 mm)
Rod diameter	2.00 in (50.8 mm)
Stroke	19.21 in (488.0 mm)

Angle cylinder	Two (2)
Bore diameter	4.50 in (114.3 mm)
Rod diameter	2.50 in (63.5 mm)
Stroke	18.33 in (465.7 mm)

Tilt cylinder	One (1)
Bore diameter	5.00 in (127.0 mm)
Rod diameter	2.50 in (63.5 mm)
Stroke	5.84 in (148.3 mm)

SERVICE CAPACITY

Fuel tank	85.0 gal (322.0 L)
Engine oil w/ filter	17.3 qt (16.4 L)
Engine oil w/o filter	16.5 qt (15.6 L)
Engine cooling system	7.0 gal (26.5 L)
Hydraulic reservoir	30.75 gal (116.4 L)
Final drive – per side	15.0 qt (14.2 L)
Track rollers – each	0.29 qt (0.275 L)
Front idlers – each	0.237 qt (0.225 L)
Carrier rollers – each	0.353 qt (0.334 L)
DEF tank	14.0 gal (52.0 L)

OTHER SPECIFICATIONS

Undercarriage:

Track adjustment	Hydraulic
Frame	Pivot shaft and oscillating equalizer beam suspension

Length of track on ground	102 in (2.59 m)
Track link pitch	6.9 in (175 mm)
Track shoe height	2.07 in (52.5 mm)
Pin diameter	1.44 in (36.58 mm)

Bushing diameter:

CLT track	2.44 in (62 mm)
CELT track	3.1 in (79 mm)

Track shoes per side	43
Track rollers per side	7
Carrier rollers per side	2
Track roller rail diameter	7.48 in (190 mm)

Track on ground:

Shoe area:	
20 in (508 mm)	4,080 in ² (26 323 cm ²)
22 in (559 mm)	4,490 in ² (28 965 cm ²)
26 in (660 mm)	5,301 in ² (34 199 cm ²)
30 in (762 mm)	6,120 in ² (69 484 cm ²)

OTHER SPECIFICATIONS (cont.)

Track:

Long track:

20 in (508 mm) closed grousers and CLT
 20 in (508 mm) open grousers and CELT
 22 in (559 mm) closed grousers and CLT
 22 in (559 mm) open grousers and CELT

Wide track:

22 in (559 mm) closed grousers and CLT
 22 in (559 mm) open grousers and CELT
 26 in (660 mm) closed grousers and CLT
 26 in (660 mm) open grousers and CELT
 30 in (762 mm) closed grousers and CLT
 30 in (762 mm) open grousers and CELT

Track (continued):

Low ground pressure:

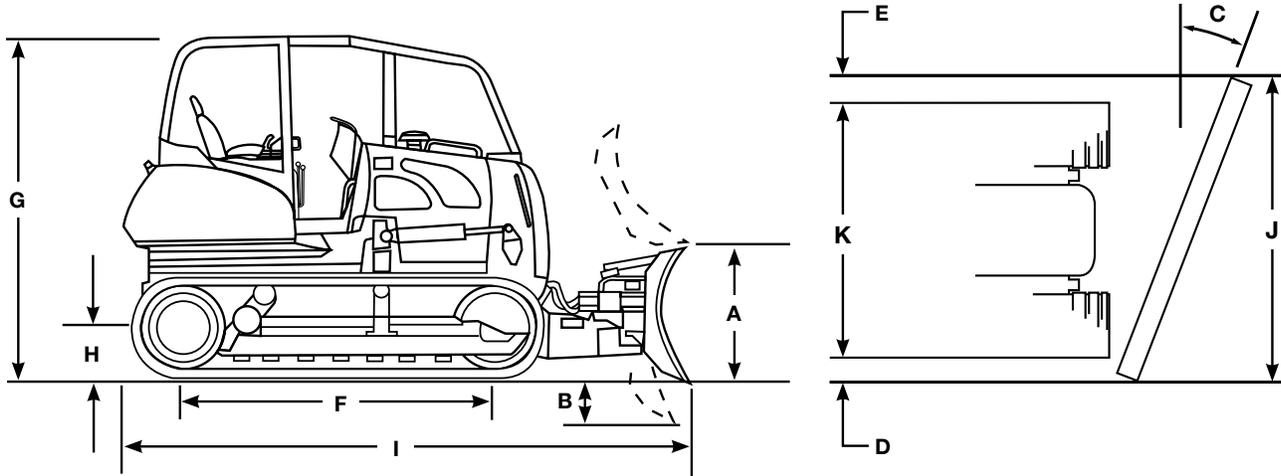
30 in (762 mm) closed grousers and CLT
 30 in (762 mm) open grousers and CELT

Blade:

Variable blade pitch	55° +/- 5°
Lift speed – per second	17 in (503 mm)
Cutting edge	Reversible, replaceable
Width	8.0 in (203.2 mm)
Thickness	0.8 in (19.1 mm)

Ripper:

Max. penetration	18.8 in (478 mm)
Width	67.4 in (1711 mm)
Cut width	64.4 in (1635 mm)
Max. ground clearance	16.7 in (424 mm)
Max. number of shanks	3
Tooth spacing: w/ 3 teeth	30.9 in (785 mm)
Hydraulic cylinder	Double-acting
Diameter	4.0 in (102 mm)
Stroke	10.0 in (254 mm)
Rod	2.0 in (51 mm)



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

DIMENSIONS

	Long Track (LT)	Wide Track (WT)	Low Ground Pressure (LGP)
Blade width	120 in (3048 mm)	132 in (3353 mm)	132 in (3353 mm)
SAE blade capacity	3.76 yd ³ (2.88 m ³)	4.16 yd ³ (3.18 m ³)	4.16 yd ³ (3.18 m ³)
Blade height	44.0 in (1119 mm)	44.0 in (1119 mm)	44.0 in (1119 mm)
A. Blade lift above ground	44.5 in (1130 mm)	37.6 in (956 mm)	37.6 in (956 mm)
B. Blade depth below ground	21.2 in (539 mm)	23.2 in (590 mm)	23.2 in (590 mm)
C. Blade angle both directions	25°	25°	25°
Blade tilt, each end (up to 8.3°)	16.9 in (430 mm)	17.7 in (450 mm)	17.7 in (450 mm)
Track gauge	72.3 in (1.84 m)	80 in (2.03 m)	80 in (2.03 m)
Maximum shoe width	22 in (559 mm)	26 in (660 mm)	30 in (762 mm)
F. Length of track on ground	102 in (2.59 m)	102 in (2.59 m)	102 in (2.59 m)
Area of track on ground	4,490 in ² (2.90 m ²)	5,301 in ² (3.42 m ²)	6,120 in ² (3.95 m ²)
Ground pressure	6.37 psi (0.44 bar)	5.40 psi (0.37 bar)	4.72 psi (0.33 bar)
G. Height to top of ROPS	9 ft 8 in (2948 mm)	9 ft 8 in (2948 mm)	9 ft 8 in (2948 mm)
Height to top of cab	9 ft 8 in (2948 mm)	9 ft 8 in (2948 mm)	9 ft 8 in (2948 mm)
H. Ground clearance	13.0 in (330.5 mm)	13.0 in (330.5 mm)	13.0 in (330.5 mm)
I. Length:			
Blade straight with drawbar	16 ft 8 in (5088 mm)	16 ft 8 in (5080 mm)	16 ft 8 in (5080 mm)
Blade straight with ripper	20 ft 2 in (6150 mm)	19 ft 9 in (6020 mm)	19 ft 9 in (6020 mm)
Width:			
Blade straight	10 ft 0 in (3048 mm)	11 ft 0 in (3353 mm)	11 ft 0 in (3353 mm)
J. Blade angled	9 ft 1 in (2773 mm)	10 ft 1 in (3073 mm)	10 ft 1 in (3073 mm)
K. Over track	7 ft 9 in (2396 mm)	9 ft 10 in (2990 mm)	9 ft 10 in (2997 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 ENVIRONMENT

See page 1

ENGINE

F4HFE613F

Tier 4 Interim Certified

Automatic fan belt tensioner

Integral engine oil cooling

Fuel filter

Dual element radial seal air cleaner

120 amp alternator

(2) 925 CCA 12-volt batteries

Anti-sandblast radiator

Engine side panels

POWERTRAIN

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 electro-hydraulic control for blade lift, angle and tilt

UNDERCARRIAGE

Hydraulic track adjusters

Case Lubricated Track Chain

Permanently lubricated track and carrier rollers and idlers

Track adjuster guard

Track guides – front and rear

OTHER

Anti-vandalism package

Backup alarm

Horn

Work lights:

2 front

1 rear

Master disconnect switch

Mirror

Pre-cleaner

Front pull hook

Rear transmission guard

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

Cab:
with heater, A/C, defroster, windshield wiper and lights

Seat belt – 3 in (76 mm)

Rear wiper for cab

Internal mirror

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 (3050 mm)

132 in (3355 mm)

GUARDS

Sweeps

Center rock guard

SCREENS

ROPS rear screen

Cab rear screen

ROPS side screen

Radiator brush screen

OTHER

Environmental drains

Case Extended Life Track

Grid heater

Additional work lights

Front pull hook

Front counterweight with pull hook

Blade guidance ready – Trimble

Blade guidance ready – Leica

Blade guidance ready – Topcon

Rearview mirror



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

NOTE: All engines meet current EPA emissions requirements.

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