

PRELIMINARY

ENGINE

Model	Case F5HFL413J Tier 4 Interim Certified
Cylinders	4
Displacement	207.5 in ³ (3.4 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	92 hp (69 kW)
Gross	96 hp (72 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:	
Core size area	417 in ² (0.26 m ²)
Rows of tubes	25
Fan:	
Diameter	10.1 in (257 mm)
Ratio	1.1:1

POWERTRAIN

Dual path hydrostatic:	
Pump	Variable axial piston
Motor	Variable bent axis piston
Max. drawbar pull*	42,813 lb (190.4 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 release disc
Steering brakes	Hydrostatic
Final drive	2 helical gear reduction to planetary output
Ratio	61.4:1
Transmission cooling:	
Type	Oil to air
Core size	270.2 in ² (0.17 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
Battery	12-volt, low-maintenance 950 cold-cranking amps @ 0° F (-17.8° C)

OPERATOR ENVIRONMENT

ROPS cab; Single lever control for speed, steering and direction; Cloth suspension seat w/ back adjustment; Retractable 2 in (51 mm) seat belt; Adjustable armrests; Foot rests; Rearview mirror; Tool storage; 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; Transmission temperature.

Gauges:

Battery voltage; Fuel level; Digital hour meter/ 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; Temperature/hydraulic temperature.

OPERATING WEIGHT

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

Long track	20,100 lb (9117 kg)
Wide track	21,100 lb (9571 kg)
Low ground pressure	21,500 lb (9752 kg)

Add-on weights:

Drawbar	29 lb (38 kg)
Ripper	1,400 lb (635 kg)
Winch	1,001 lb (454 kg)
Front counterweight	827 lb (375 kg)
Cab	1,710 lb (779 kg)

CELT chain – per track:

18 in (457 mm)	3,334 lb (1512 kg)
20 in (508 mm)	3,559 lb (1614 kg)
24 in (610 mm)	3,969 lb (1800 kg)
28 in (711 mm)	4,384 lb (1988 kg)

Center rock guard	340 lb (154 kg)
Sweeps	139 lb (63 kg)
Dual batteries	146 lb (66 kg)

HYDRAULICS

Pump flow @ 2000 RPM @ 3,000 psi (207 bar):
20.3 gpm (78.8 L/min)

Lift cylinder	Two (2)
Bore diameter	3.50 in (88.9 mm)
Rod diameter	1.75 in (44.4 mm)
Stroke	14.26 in (362.1 mm)

Angle cylinder	Two (2)
Bore diameter	3.50 in (88.9 mm)
Rod diameter	1.75 in (44.4 mm)
Stroke	5.39 in (137.0 mm)

Tilt cylinder	One (1)
Bore diameter	3.50 in (88.9 mm)
Rod diameter	1.75 in (44.4 mm)
Stroke	14.56 in (369.9 mm)

SERVICE CAPACITY

Fuel tank	50.0 gal (189.0 L)
Engine oil w/ filter	8.45 qt (8.0 L)
Engine oil w/o filter	7.65 qt (7.3 L)
Engine cooling system	5.75 gal (21.8 L)
Hydraulic reservoir	23.75 gal (89.9 L)
Final drive – per side	15.0 qt (14.2 L)
Track rollers – each	0.19 qt (0.18 L)
Front idlers – each	0.42 qt (0.4 L)
Carrier rollers – each	0.25 qt (0.24 L)

OTHER SPECIFICATIONS

Undercarriage:

Track adjustment	Hydraulic
Frame	Rigid suspension
Length of track on ground	89.2 in (2266 mm)
Track link pitch	6.73 in (171 mm)
Track shoe height	2.06 in (52.3 mm)
Pin diameter	1.32 in (33 mm)

Bushing diameter:

CLT track	2.24 in (57 mm)
CELT track	3.0 in (76.2 mm)

Track shoes per side 39

Track rollers per side 6

Carrier rollers per side 1

Track roller rail diameter 7.48 in (190 mm)

Track on ground:

Shoe area:

18 in (457 mm)	3,212 in ² (20 720 cm ²)
20 in (508 mm)	3,603 in ² (23 246 cm ²)
24 in (610 mm)	4,285 in ² (27 645 cm ²)
28 in (711 mm)	5,043 in ² (35 535 cm ²)

OTHER SPECIFICATIONS (cont.)

Track:

Long track:

18 in (457 mm) closed grousers and CLT
18 in (457 mm) open grousers and CELT
20 in (508 mm) closed grousers and CLT
20 in (508 mm) open grousers and CELT

Wide track:

20 in (508 mm) closed grousers and CLT
20 in (508 mm) open grousers and CELT
24 in (610 mm) closed grousers and CLT
24 in (610 mm) open grousers and CELT

Low ground pressure:

28 in (711 mm) closed grousers and CLT
28 in (711 mm) open grousers and CELT

Blade:

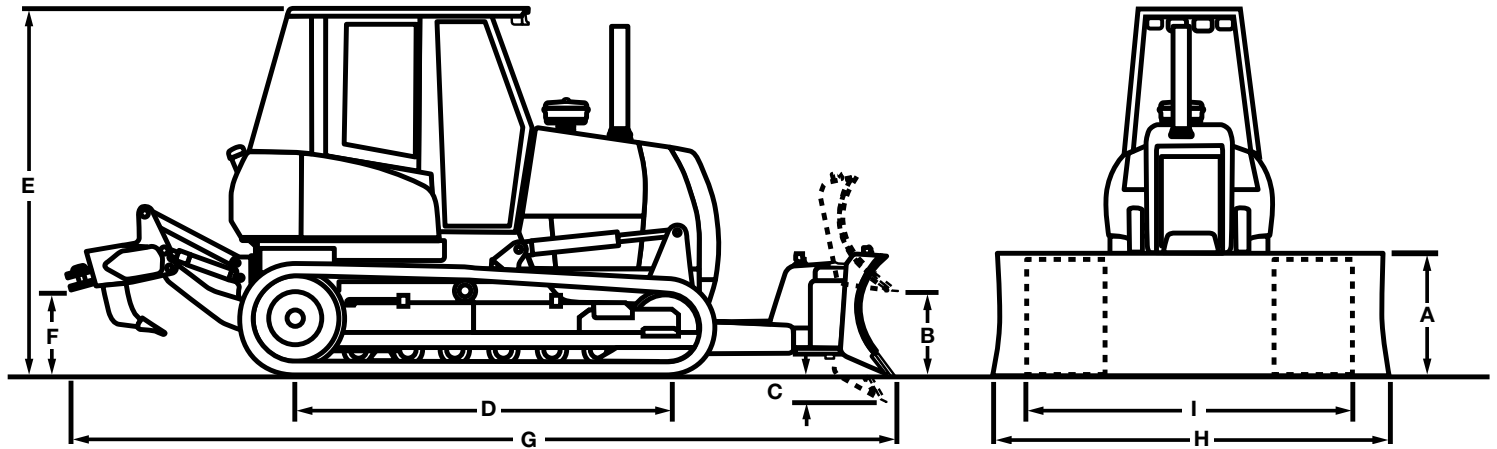
Variable blade pitch	56° +/- 4°
Lift speed – per second	19.7 in (500 mm)
Cutting edge	Reversible, replaceable
Width	8.0 in (203 mm)
Thickness	0.75 in (19 mm)

Ripper:

Max. penetration	14.2 in (361 mm)
Width	71.1 in (1806 mm)
Cut width	69.5 in (1765 mm)

Ripper (continued):

Max. ground clearance	17.4 in (442 mm)
Max. number of shanks	3
Tooth spacing: w/ 3 teeth	30.9 in (785 mm)
Hydraulic cylinder	Double-acting
Diameter	3.9 in (99 mm)
Stroke	8.4 in (213 mm)
Rod	1.75 in (44 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	96 in (2438 mm)	112 in (2845 mm)	120 in (3048 mm)
SAE blade capacity	1.69 yd³ (1.29 m³)	1.99 yd³ (1.52 m³)	2.14 yd³ (1.64 m³)
A. Blade height	33.0 in (838 mm)	33.0 in (838 mm)	33.0 in (838 mm)
B. Blade lift above ground	33.58 in (853 mm)	33.58 in (853 mm)	33.58 in (853 mm)
C. Blade depth below ground	20.91 in (531 mm)	20.91 in (531 mm)	20.91 in (531 mm)
Blade angle both directions	25°	25°	25°
Blade tilt, each end (up to 8.3°)	8.19 in (208 mm)	8.90 in (226 mm)	9.80 in (249 mm)
Track gauge	62 in (1.57 m)	70 in (1.78 m)	70 in (1.78 m)
Maximum Shoe width	20 in (508 mm)	24 in (610 mm)	28 in (711 mm)
D. Length of track on ground:			
CLT	89 in (2.26 m)	89.2 in (2.26 m)	89.2 in (2.26 m)
CELT	90 in (2.28 m)	90.1 in (2.28 m)	90.1 in (2.28 m)
Area of track on ground	3,603 in² (2.32 m²)	4,285 in² (2.32 m²)	5,043 in² (3.25 m²)
Ground pressure	5.36 psi (0.37 bar)	4.61 psi (0.32 bar)	4.04 psi (0.28 bar)
E. Height to top of cab with air conditioning	9 ft 1 in (2770 mm) 9 ft 1 in (2751 mm)	9 ft 1 in (2770 mm) 9 ft 1 in (2751 mm)	9 ft 1 in (2770 mm) 9 ft 1 in (2751 mm)
F. Ground clearance	14.0 in (355 mm)	14.0 in (355 mm)	14.0 in (355 mm)
Length:			
Blade straight with drawbar	14 ft 1 in (4284 mm)	14 ft 1 in (4284 mm)	14 ft 1 in (4284 mm)
G. Blade straight with ripper	16 ft 7 in (5086 mm)	16 ft 7 in (5086 mm)	16 ft 7 in (5086 mm)
Width:			
H. Blade straight	8 ft 0 in (2438 mm)	9 ft 4 in (2845 mm)	10 ft 0 in (3048 mm)
Blade angled	7 ft 5 in (2261 mm)	8 ft 8 in (2642 mm)	9 ft 3 in (2819 mm)
I. Over track	6 ft 10 in (2083 mm)	6 ft 10 in (2083 mm)	7 ft 6 in (2286 mm)

NOTE: Ground clearance and overall height dimensions are with the grousers fully penetrated. Add 2.07 in (52.5 mm) if unit is on solid surface.

STANDARD EQUIPMENT

OPERATOR ENVIRONMENT

See page 1

ENGINE

F5HFL413J

Tier 4 Interim Certified

Cold start aid – grid heater:
with dual 12-volt battery

Automatic fan belt tensioner

Integral engine oil cooling

Fuel filter

Dual element air cleaner

120 amp alternator

950 CCA 12-volt battery

Anti-sandblast radiator

Engine side panels

POWERTRAIN

Dual path infinitely variable, single-lever
controlled hydrostatic drive, with electronic
straight tracking, power turns and
counter-rotation

Final drive:

Triple reduction; helical gear/planetary
decelerator with hydrostatic drive retardation

Spring-applied hydraulic release parking brake

BLADE

52°–60° variable pitch,
with integral adjustment tool

Single lever control for blade lift, angle and tilt

UNDERCARRIAGE

Hydraulic track adjusters

Easy clean track covers

Case Lubricated Track Chain

Permanently lubricated track and carrier rollers

Track adjuster guard

Track guides – front and rear

Shock resistance idler mounting

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 heat, A/C, defroster, lights

Seat belt – 3 in (76 mm)

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

BLADES

96 in (2438 mm)

104 in (2642 mm)

112 in (2855 mm)

120 in (3058 mm)

124 in (3160 mm)

GUARDS

Sweeps

Center rock guard

SCREENS

Radiator brush screen

Sandblast screen

OTHER

Environmental drains

Case Extended Life Track

Additional work lights

Front counterweight

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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