



ENGINE		
Model	FPT F5H FL463 B*F001	
Emissions Certification	Tier 4 Final	
Туре	4-stroke	
Cylinders	4	
Bore/Stroke	3.9 x 4.3 in (99 x 110 mm)	
Displacement	207 in ³ (3.4 L)	
Fuel injection	High pressure, common rail injection	
Fuel	Diesel	
Fuel filter	Spin on, Beta (4) = 20	
Air filter w/ war	Dry type element ning restriction indicator	
Exhaust aftertreatment: Particulate Matter	r Catalyst – PM Catalyst	
Radiator: Core type	All aluminum	
Fan: Style	Direct drive	
Lubrication/cooling oil pu Style	ump: Integral	
Engine oil: Pump: Deep sump plate cooler w/ pressurized under-piston nozzles Pump operating angle ratings: Side-to-side Rated 35° Fore and aft Rated 35°		
Oil filtration	Spin on, full flow	
Engine speeds Rated – full load Low idle High idle – no load	RPM 2500 950 2500	
Horsepower @ 2500 RPI Gross Net	M: 58 hp (43 kW) 55 hp (41 kW)	
Peak torque @ 1400 RPM Gross Net	M: 181 lb·ft (245 N·m) 181 lb·ft (245 N·m)	

NOTE: Gross horsepower and torque per SAE J1349. Net horsepower and torque per SAE J1349.

DRIVETRAIN		
Transmission H	ydrostatic transmission	
Pump relief	6,092 psi (42 000 kPa)	
Pump flow @ 2500 RPM	26.4 gpm (100 L/min)	
Differential: Open standard/limited slip optional		
Front axles: Differential ratio Planetary ratio	3.67 6.00	
Final axle ratio Gear box: 1st ratio		
Planetaries	Outboard	
Service brakes: Master cylinder hydraulically actuated, caliper on front axle		
Parking brake: Mechanical, caliper on front axle		
Travel speeds	Forward Reverse mph (kph) mph (kph)	
1st Low 2nd High	3.1 (5.0)3.1 (5.0)12.4 (20.0)12.4 (20.0)	

ELECTRICAL Voltage

Alternator	120 amp
Batteries	95 AHR, 900 CCA

12 Volts

OPERATOR ENVIRONMENT

Base and Deluxe Cab w/ heater; Key start; Articulated power steering w/ tilt column; Full adjustable, cloth suspension seat; Foot throttle; Single joystick w/ electronic speed shift control F/N/R switch and proportional loader control; Cup holder; Retractable seat belt; Storage tray on Deluxe Cab; Sun screen – front; Opening side window; Dome light; Wipers – front and rear; 12-volt auxiliary power; Lighter cigar and ashtray; Pocket cellular phone; Coat hook; External rearview mirrors; Loader control lockout.

Electronic information center Displays/Gauges: Vehicle speed; Hourmeter; Floating functionality on; Clock; Vehicle directions; Gear number engaged; PM Catalyst icons. Indicator lights: Main hydraulic enabled; Turn light - left and right; Rear work lamps; Work lamps; Main high beam; Side lights; Stop; Warning signal; Rabbit; Hand brake; Brake fluid level; Quick coupler on; Ride Control on; Creep speed; PM Catalyst; Low fuel level; Clogging air filter; Engine oil pressure; Glow plug; Alternator changing. Audible alarms: Caution alarm; Critical alarm; Backup alarm.

Horn

NOTE: If equipped w/ option.

21F COMPACT WHEEL LOADER

OPERATING WEIGHT

XT:

Unit equipped w/ ROPS/FOPS cab w/ heater, standard counterweight, 12.5-18 PRMPT Dunlop Tires, front and rear fenders, 0.9 yd³ (0.7 m³) general purpose bucket w/ edge, full fuel, 165 lb (75 kg) operator:

10,913 lb (4 950 kg)

Z-Bar:

Unit equipped w/ ROPS/FOPS cab w/ heater, standard counterweight, 12.5-18 PRMPT Dunlop Tires, front and rear fenders, 0.9 yd³ (0.7 m³) general purpose bucket w/ edge, full fuel, 165 lb (75 kg) operator: 11.272 lb (5 113 kg)

11,272 ID (5 113 K

HYDRAULICS

Pump – steering/implement: Open-centered pressure/flow compensated		
Fixed gear type: Max. 17.7 gpm @ 2500 RI (Max. 67 L/min @ 2500 RI		
Loader control valve: Open-center, Hydraulic Loader Control w/ single lever includes: Forward/Neutral/ Reverse switch, Floating switch, Low/High Travel mode switch, Auxiliary Function Roller		
Loader auxiliary steering: Hydraulic orbital center-pivot articulating w/ on-demand oil flow		
Main relief pressure 3	,336 psi (23 000 kPa)	
Filtration: 15-micron, full flow replaceable cartridges on return line		
SERVICE CAPACITIES		

22.7 gal (86.0 L)
10.6 gal (40.0 L)
14.0 gal (53.0 L)
2.2 gal (8.2 L)
2.5 gal (9.5 L)
1.8 gal (7.0 L)
3.4 gal (13.0 L)

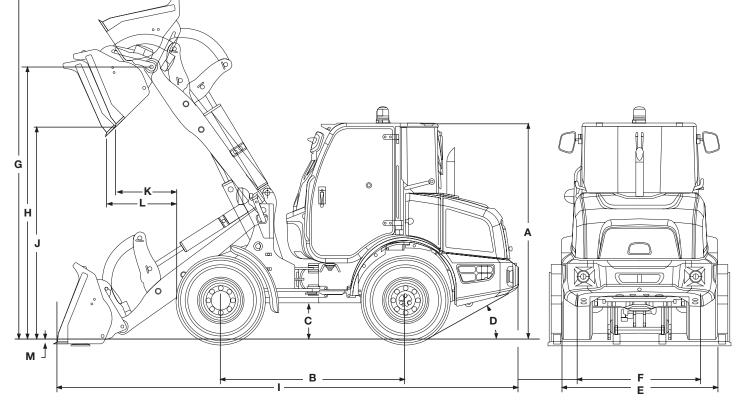
NOTE: *1.72 gal (6.5 L) antifreeze + 1.72 gal (6.5 L) water.

OTHER SPECIFICATIONS	5
Lift cylinder – XT	One (1)
Bore diameter	4.0 in (101.6 mm)
Rod diameter	2.0 in (50.8 mm)
Stroke	23.6 in (600.0 mm)
Dump cylinder – XT:	
Bore diameter	4.0 in (101.6 mm)
Rod diameter	2.0 in (50.8 mm)
Stroke	15.4 in (391.0 mm)

Lift cylinder – Z-Bar	Two (2)		
Bore diameter	2.8 in (70.2 mm)		
Rod diameter	2.0 in (50.8 mm)		
Stroke	28.7 in (728.0 mm)		
Dump cylinder – Z-Bar:	Z-Bar:		
Bore diameter	3.3 in (82.6 mm)		
Rod diameter	1.8 in (44.5 mm)		
Stroke	19.4 in (491.5 mm)		
Loader: XT: Parallel loader linkage Single control for lift and tilt Positive hold float Hydraulic attachment coupler:			

Skid steer compatible/horizontal pin compatible

7. Рот	
Z-Bar:	
Z-Bar loader linkage	
Single control for lift and tilt	
Positive hold float	
Hydraulic attachment coupler:	
Skid steer compatible/horizontal	
pin compatible	
Cycle time:	
XT:	
Raise w/ rated bucket load	4.6 sec
Dump w/ rated bucket load	1.4 sec
Lower – empty 3.8 s	
Z-Bar:	
Raise w/ rated bucket load	6.3 sec
Dump w/ rated bucket load	1.7 sec
Lower – empty	3.8 sec



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

DIMENSIONS	
A. Height to top of ROPS cab	96.8 in (2 458 mm)
B. Wheelbase	81.7 in (2 075 mm)
C. Ground clearance under shaft	17.5 in (444 mm)
Ground clearence under axles	12.6 in (321 mm)
D. Angle of departure	28°
Width:	
E. Overall without bucket	68.5 in (1 740 mm)
F. Centerline tread	55.1 in (1 400 mm)
Turning radius – outside	146.5 in (3 721 mm)
Turning angle:	
From center	40°
Total angle	80°
Rear axle oscillation – total	18°

21F XT 0.92 yd ⁶ GP (0.7 m ²) GP Bucket with Bolt-on Edge Bucket with Bolt-on Edge Bucket with Bolt-on Edge Decket with Bolt-on Edge Decket with Bolt-on Edge Decket with Bolt-on Edge Decket with a - outside 1.05 yd ⁶ (0.6 m ²) 0.78 yd ⁶ (0.6 m ²) 1.05 yd ⁶ (0.8 m ²) Bucket with - outside 74.8 in (1900 mm) 80.7 in (2.050 mm) Bucket weight - includes coupler and added components 9.94 lb (410 kg) 946 lb (429 kg) G. Operating height - fully raised 159.3 in (4.046 mm) 1159.1 in (4.041 mm) H. Hinge pin height - fully raised 122.6 in (3.113 mm) 122.6 in (3.133 mm) Dump angle - fully raised 24.4 * 44* J. Dump height - fully raised, 45° dump 90.0 in (2.287 mm) 89.6 in (2.276 mm) K. Bucket reach - fully raised, 45° dump 90.0 in (2287 mm) 38.3 in (974 mm) J. Dump height - fully raised, 45° dump 36.3 in (172 mm) 5.0 in (127 mm) L. Bucket reach - 7 ft 0 in (2.13 m) height, 45° dump 3.853 lb/g ⁴ (2.268 kg/m ³) 3.299 lb/g ⁴ (1.958 kg/r ⁴) Diperating load - ISO 3.527 lb (1.600 kg) 3.452 lb (1.566 kg) 3.452 lb (2.568 kg/m ³) 3.299 lb/g ⁴ (1.958 kg/r ⁴) Juff capacity: Full height 5.287 lb (2.398 kg) 5.163 lb (2.62 kg) 6.051 lb (3.200 kg	PERFORMANCE SPECS		
ISO bucket capacity – struck 0.65 yd ³ (0.5 m ³) 0.78 yd ⁴ (0.6 m ³) Heaped 0.92 yd ² (0.7 m ³) 1.05 yd ⁴ (0.8 m ³) Bucket width – outside 74.8 in (1 900 mm) 80.7 in (2 050 mm) Bucket weight – includes coupler and added components 90 41 b (410 kg) 944 b (242 kg) G. Operating height – fully raised with spillguard 159.3 in (4 046 mm) 159.1 in (4 041 mm) H. Hinge pin height – fully raised 122.6 in (3 113 mm) 122.6 in (3 113 mm) 122.6 in (3 133 mm) L. Overall length – bucket level on ground 211.9 in (5 382 mm) 212.3 in (5 393 mm) Dump angle – fully raised, 45° dump 90.0 in (2 287 mm) 89.6 in (2 276 mm) K. Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump 38.3 in (974 mm) 38.3 in (974 mm) M. Dig depth 5.0 in (127 mm) 5.0 in (127 mm) 5.0 in (127 mm) Operating load – ISO 3,6527 lb (1600 kg) 3,452 lb (1 566 kg) Maximum material density – ISO 3,853 lb/yd ⁴ (2 286 kg/m ³) 3,299 lb/yd ⁴ (1 958 kg/m ³) Tipping load – ISO 3,653 lb /2 48 kg) 5,163 lb (2 342 kg) 6,184 lb (3 000 kg) Maximum material density – ISO 3,853 lb (2 691 kg)	21F XT	0.92 yd³ GP (0.7 m³) GP	1.05 yd³ GP (0.8 m³) LM
Heaped 0.92 yd ³ (0.7 m ³) 1.05 yd ³ (0.8 m ³) Bucket width – outside 74.8 in (1 900 mm) 80.7 in (2 050 mm) Bucket weight – includes coupler and added components 904 lb (410 kg) 946 lb (429 kg) G. Operating height – fully raised with spillguard 159.3 in (4 046 mm) 159.1 in (4 046 mm) H. Hinge pin height – fully raised with spillguard 212.6 in (3 113 mm) 122.6 in (3 113 mm) I. Overall length – bucket level on ground 211.9 in (5 382 mm) 212.3 in (5 393 mm) Dump height – fully raised, 45° dump 90.0 in (2 287 mm) 89.6 in (2 276 mm) J. Dump height – fully raised, 45° dump 31.4 in (798 mm) 31.9 in (600 mm) L. Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump 38.3 in (974 mm) 38.3 in (974 mm) M. Dig depth 5.0 in (127 mm) 5.0 in (127 mm) 0.7 mm) Operating load – ISO 3,853 lb/yd ² (2 286 kg/m ²) 3,299 lb/yd ³ (1 958 kg/m ²) Tipping load – ISO 3,853 lb/yd ² (2 286 kg/m ²) 3,299 lb/yd ³ (1 958 kg/m ²) Tipping load – ISO 3,653 lb (2 200 kg) 6,163 lb (2 324 kg) Straight 5,287 lb (2 398 kg) 5,638 lb (2 342 kg) M		Bucket with Bolt-on Edge	Bucket with Bolt-on Edge
Bucket width – outside 74.8 in (1 900 mm) 80.7 in (2 050 mm) Bucket weight – includes coupler and added components 904 lb (410 kg) 946 lb (429 kg) G. Operating height – fully raised with spillguard 159.3 in (4 046 mm) 159.1 in (4 041 mm) H. Hinge pin height – fully raised with spillguard 122.6 in (3 113 mm) 122.6 in (3 113 mm) I. Overall length – bucket level on ground 211.9 in (5 382 mm) 212.3 in (5 393 mm) Dump angle – fully raised, 45° dump 90.0 in (2 287 mm) 89.6 in (2 276 mm) K. Bucket reach – fully raised, 45° dump 31.4 in (798 mm) 31.9 in (809 mm) L. Bucket reach – fully raised, 45° dump 5.0 in (127 mm) 38.3 in (974 mm) M. Dig depth 5.0 in (127 mm) 5.0 in (127 mm) 5.0 in (127 mm) Operating load – ISO 3.853 lb/yd³ (2 286 kg/m³) 3.299 lb/yd³ (1 988 kg/m²) 3.299 lb/yd³ (1 988 kg/m²) Tipping load – ISO 3.853 lb/yd³ (2 286 kg/m³) 3.299 lb/yd³ (1 988 kg/m²) 1.924 kg) Maximum material density – ISO 3.852 lb/gd sg/m³) 3.299 lb/yd³ (1 988 kg/m²) 1.924 kg) Ipping load – ISO: 5.287 lb (2 398 kg) 5.613 lb (2 342 kg) 1.84 lb (2 874 kg) 6	ISO bucket capacity – struck	, , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , ,
Bucket weight – includes coupler and added components 904 ib (410 kg) 946 ib (429 kg) G. Operating height – fully raised with spillguard 159.3 in (4 046 mm) 159.1 in (4 041 mm) H. Hinge pin height – fully raised 122.6 in (3 113 mm) 122.6 in (3 113 mm) I. Overall length – bucket level on ground 211.9 in (5 382 mm) 212.3 in (5 393 mm) Dump angle – fully raised 44* 44* J. Dump height – fully raised, 45° dump 90.0 in (2 287 mm) 89.6 in (2 276 mm) K. Bucket reach – fully raised, 45° dump 31.4 in (798 mm) 31.9 in (809 mm) L. Bucket reach – fully raised, 45° dump 33.3 in (974 mm) 38.3 in (974 mm) M. Dig depth 5.0 in (127 mm) 5.0 in (127 mm) Operating load – ISO 3,527 lb (1 600 kg) 3,452 lb (1 566 kg) Maximum material density – ISO 3,853 lb/yd ⁴ (2 286 kg/m ⁵) 3,299 lb/yd ⁴ (1 98 kg/m ⁵) Tipping load – ISO: 5.03 in (27 fb (2 398 kg) 5.163 lb (2 342 kg) Maximum material density – ISO 3,853 lb/yd ⁴ (2 286 kg/m ⁵) 3,299 lb/yd ⁴ (1 98 kg/m ⁵) Tipping load – ISO: 5.03 lb (2 691 kg) 5.625 lb (2 628 kg/m ⁵) Ground 6,	Heaped	0.92 yd ³ (0.7 m ³)	1.05 yd³ (0.8 m³)
G. Operating height – fully raised with spillguard 159.3 in (4 046 mm) 159.1 in (4 041 mm) H. Hinge pin height – fully raised 122.6 in (3 113 mm) 122.6 in (3 113 mm) 122.6 in (3 113 mm) L. Overall length – bucket level on ground 211.9 in (5 382 mm) 212.3 in (5 393 mm) Dump angle – fully raised 44° 44° J. Dump height – fully raised, 45° dump 90.0 in (2 287 mm) 89.6 in (2 276 mm) K. Bucket reach – fully raised, 45° dump 31.4 in (798 mm) 31.9 in (809 mm) L. Bucket reach – fully raised, 45° dump 38.3 in (974 mm) 38.3 in (974 mm) M. Dig depth 5.0 in (127 mm) 5.0 in (127 mm) Operating load – ISO 3,8527 lb (1 600 kg) 3,452 lb (1 566 kg) Maximum material density – ISO 3,853 lb/yd² (2 286 kg/m³) 3,299 lb/yd³ (1 958 kg/m³) Tipping load – ISO: 5 5 5 Straight 8,164 lb (3 703 kg) 7,994 lb (3 626 kg) 40° turn 7,055 lb (3 200 kg) 6,163 lb (2 342 kg) Maximum reach 5,933 lb (2 691 kg) 5,825 lb (2 42 kg) Ground 6,753 lb (3 063 kg) 6,164 lb (3 000 kg)	Bucket width – outside	74.8 in (1 900 mm)	80.7 in (2 050 mm)
H. Hinge pin height – fully raised 122.6 in (3 113 mm) 122.6 in (3 113 mm) I. Overall length – bucket level on ground 211.9 in (5 382 mm) 212.3 in (5 393 mm) Dump angle – fully raised 44° 44° J. Dump height – fully raised, 45° dump 90.0 in (2 287 mm) 89.6 in (2 276 mm) K. Bucket reach – fully raised, 45° dump 31.4 in (798 mm) 31.9 in (809 mm) L. Bucket reach – fully raised, 45° dump 38.3 in (974 mm) 38.3 in (974 mm) M. Dig depth 5.0 in (127 mm) 5.0 in (127 mm) Operating load – ISO 3,853 lb/yd ³ (2 286 kg/m ³) 3,492 lb (1 566 kg) Maximum material density – ISO 3,853 lb/yd ³ (2 286 kg/m ³) 3,299 lb/yd ³ (1 958 kg/m ³) Tipping load – ISO 3,853 lb/yd ³ (2 286 kg/m ³) 3,299 lb/yd ³ (1 958 kg/m ³) Tipping load – ISO 3,853 lb/yd ³ (2 286 kg/m ³) 3,299 lb/yd ³ (1 958 kg/m ³) Tipping load – ISO 3,624 lb (3 703 kg) 7,994 lb (3 626 kg) Ground 8,164 lb (3 703 kg) 5,993 lb (2 691 kg) 5,825 lb (2 642 kg) Ground 6,753 lb (3 063 kg) 6,164 lb (3 000 kg) Maximum reach 5,336 lb (2 691 kg) 5,825 lb (2	Bucket weight - includes coupler and added components	904 lb (410 kg)	946 lb (429 kg)
I. Overall length - bucket level on ground 211.9 in (6 382 mm) 212.3 in (5 393 mm) Dump angle – fully raised 44° 44° J. Dump height – fully raised, 45° dump 90.0 in (2 287 mm) 89.6 in (2 276 mm) K. Bucket reach – fully raised, 45° dump 31.4 in (798 mm) 31.9 in (809 mm) L. Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump 38.3 in (974 mm) 38.3 in (974 mm) M. Dig depth 5.0 in (127 mm) 5.0 in (127 mm) 0.0 in (127 mm) Operating load – 1SO 3,527 lb (1 600 kg) 3,452 lb (1 566 kg) Maximum material density – ISO 3,853 lb/yd³ (2 286 kg/m³) 3,299 lb/yd³ (1 958 kg/m³) Tipping load – ISO 3,853 lb/yd³ (2 286 kg/m³) 3,299 lb/yd³ (1 958 kg/m³) Tipping load – ISO Straight 8,164 lb (3 703 kg) 7,994 lb (3 626 kg) 6,905 lb (3 132 kg) Lift capacity; Full height 5,287 lb (2 398 kg) 5,163 lb (2 342 kg) Maximum reach 5,287 lb (2 398 kg) 5,163 lb (2 342 kg) Maximum reach 5,287 lb (2 398 kg) 5,163 lb (2 342 kg) 6,144 lb (3 000 kg) Breakout force with tilt cylinder 6,753 lb (3 063 kg)	G. Operating height – fully raised with spillguard	159.3 in (4 046 mm)	159.1 in (4 041 mm)
Dump angle – fully raised 44° 44° J. Dump height – fully raised, 45° dump 90.0 in (2 287 mm) 89.6 in (2 276 mm) K. Bucket reach – fully raised, 45° dump 31.4 in (798 mm) 31.9 in (809 mm) L. Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump 38.3 in (974 mm) 38.3 in (974 mm) M. Dig depth 5.0 in (127 mm) 5.0 in (127 mm) Operating load – ISO 3,527 lb (1 600 kg) 3,452 lb (1 566 kg) Maximum material density – ISO 3,853 lb/yd ⁹ (2 286 kg/m ³) 3,299 lb/yd ⁹ (1 958 kg/m ³) Tipping load – ISO: 3,853 lb/yd ⁹ (2 286 kg/m ³) 3,299 lb/yd ⁹ (1 958 kg/m ³) Straight 8,164 lb (3 703 kg) 7,994 lb (3 626 kg) 40° turn 7,055 lb (3 200 kg) 6,905 lb (3 132 kg) Lift capacity: Full height 5,287 lb (2 398 kg) 5,163 lb (2 342 kg) Maximum reach 5,933 lb (2 691 kg) 5,825 lb (2 642 kg) 6,184 lb (3 000 kg) Breakout force with tilt cylinder 6,753 lb (3 063 kg) 6,614 lb (3 000 kg) Maximum rollback: 8 45° 45° @ Ground 38° 38° 38°	H. Hinge pin height – fully raised	122.6 in (3 113 mm)	122.6 in (3 113 mm)
J. Dump height – fully raised, 45° dump 90.0 in (2 287 mm) 89.6 in (2 276 mm) K. Bucket reach – fully raised, 45° dump 31.4 in (798 mm) 31.9 in (809 mm) L. Bucket reach – fully raised, 45° dump 38.3 in (974 mm) 38.3 in (974 mm) M. Dig depth 5.0 in (127 mm) 5.0 in (127 mm) Operating load – ISO 3,527 lb (1 600 kg) 3,452 lb (1 566 kg) Maximum material density – ISO 3,853 lb/yd ³ (2 286 kg/m ³) 3,299 lb/yd ³ (1 958 kg/m ³) Tipping load – ISO: 3,164 lb (3 703 kg) 7,994 lb (3 626 kg) Straight 8,164 lb (3 703 kg) 7,994 lb (3 626 kg) 40° turn 7,055 lb (2 308 kg) 5,163 lb (2 342 kg) Lift capacity: Full height 5,287 lb (2 398 kg) 5,163 lb (2 342 kg) Maximum reach 5,393 lb (2 691 kg) 5,825 lb (2 642 kg) 6,614 lb (3 000 kg) Breakout force with tilt cylinder 6,753 lb (3 063 kg) 6,614 lb (3 000 kg) 38° @ Ground 38° 38° 38° 38° @ Ground 38° 38° 38° 38° @ Carry position 45° 45°	I. Overall length – bucket level on ground	211.9 in (5 382 mm)	212.3 in (5 393 mm)
K. Bucket reach - fully raised, 45° dump 31.4 in (798 mm) 31.9 in (809 mm) L. Bucket reach - 7 ft 0 in (2.13 m) height, 45° dump 38.3 in (974 mm) 38.3 in (974 mm) M. Dig depth 5.0 in (127 mm) 5.0 in (127 mm) Operating load - ISO 3,527 lb (1 600 kg) 3,452 lb (1 566 kg) Maximum material density - ISO 3,853 lb/yd³ (2 286 kg/m³) 3,299 lb/yd³ (1 958 kg/m³) Tipping load - ISO: 3,853 lb/yd³ (2 286 kg/m³) 3,299 lb/yd³ (1 958 kg/m³) Straight 8,164 lb (3 703 kg) 7,994 lb (3 626 kg) 40° turn 7,055 lb (3 200 kg) 6,905 lb (3 132 kg) Lift capacity: Full height 5,287 lb (2 398 kg) 5,163 lb (2 342 kg) Maximum reach 5,333 lb (2 691 kg) 5,163 lb (2 342 kg) Maximum reach 6,733 lb (3 063 kg) 6,614 lb (3 000 kg) Maximum rollback: % 38° 38° @ Ground 38° 38° 38° @ Carry position 45° 45° 45° @ Ground 58° 56° 56° @ Ground 58°	Dump angle – fully raised	44°	44°
L. Bucket reach - 7 ft 0 in (2.13 m) height, 45° dump 38.3 in (974 mm) 38.3 in (974 mm) M. Dig depth 5.0 in (127 mm) 5.0 in (127 mm) Operating load - ISO 3,527 lb (1 600 kg) 3,452 lb (1 566 kg) Maximum material density - ISO 3,853 lb/yd³ (2 286 kg/m³) 3,299 lb/yd³ (1 958 kg/m³) Tipping load - ISO: 3 5 5 5 Straight 8,164 lb (3 703 kg) 7,994 lb (3 626 kg) 40° turn O't urn 5,287 lb (2 308 kg) 5,163 lb (2 342 kg) 6,905 lb (3 132 kg) Lift capacity: 5 5,287 lb (2 398 kg) 5,163 lb (2 342 kg) 5,163 lb (2 342 kg) Full height 5,287 lb (2 398 kg) 5,163 lb (2 342 kg) 5,825 lb (2 642 kg) 6,184 lb (2 805 kg) Breakout force with tilt cylinder 6,753 lb (3 063 kg) 6,614 lb (3 000 kg) 88° 38° @ Ground 38° 38° 33° 33° 33° 33° @ Height 56° 56° 56° 56° 56° Maximum reach 53° 53° 53° 53° <th< td=""><td>J. Dump height – fully raised, 45° dump</td><td>90.0 in (2 287 mm)</td><td>89.6 in (2 276 mm)</td></th<>	J. Dump height – fully raised, 45° dump	90.0 in (2 287 mm)	89.6 in (2 276 mm)
M. Dig depth 5.0 in (127 mm) 5.0 in (127 mm) Operating load – ISO 3,527 lb (1 600 kg) 3,452 lb (1 566 kg) Maximum material density – ISO 3,853 lb/yd³ (2 286 kg/m³) 3,299 lb/yd³ (1 958 kg/m³) Tipping load – ISO: 3,853 lb/yd³ (2 286 kg/m³) 3,299 lb/yd³ (1 958 kg/m³) Straight 8,164 lb (3 703 kg) 7,994 lb (3 626 kg) 4° turn 7,055 lb (3 200 kg) 6,905 lb (3 132 kg) Lift capacity: Full height 5,287 lb (2 398 kg) 5,163 lb (2 342 kg) Full height 5,287 lb (2 398 kg) 5,163 lb (2 342 kg) 5,825 lb (2 642 kg) Ground 5,393 lb (2 691 kg) 5,825 lb (2 642 kg) 6,184 lb (2 805 kg) Breakout force with tilt cylinder 6,753 lb (3 063 kg) 6,614 lb (3 000 kg) Maximum rollback: @ 38° 38° @ Ground 38° 45° 45° @ Ground 38° 38° 38° @ Carry position 45° 45° 45° @ Maximum reach 53° 53° 53° @ Full height 56° 56°	K. Bucket reach – fully raised, 45° dump	31.4 in (798 mm)	31.9 in (809 mm)
Operating load – ISO 3,527 lb (1 600 kg) 3,452 lb (1 566 kg) Maximum material density – ISO 3,853 lb/yd³ (2 286 kg/m³) 3,299 lb/yd³ (1 958 kg/m³) Tipping load – ISO: Straight 8,164 lb (3 703 kg) 7,994 lb (3 626 kg) 40° turn 7,055 lb (3 200 kg) 6,905 lb (3 132 kg) Lift capacity: 7,055 lb (3 200 kg) 5,163 lb (2 342 kg) Maximum reach 5,287 lb (2 398 kg) 5,163 lb (2 342 kg) Ground 5,933 lb (2 691 kg) 5,825 lb (2 642 kg) Ground 6,336 lb (2 874 kg) 6,184 lb (3 000 kg) Breakout force with tilt cylinder 6,753 lb (3 063 kg) 6,614 lb (3 000 kg) Maximum rollback: 8 38° 38° @ Carry position 45° 45° 45° @ Maximum reach 53° 53° 53° @ Full height 56° 56° 56° Maximum grading angle with bucket – back dragging 73° 73°	L. Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump	38.3 in (974 mm)	38.3 in (974 mm)
Maximum material density – ISO 3,853 lb/yd³ (2 286 kg/m³) 3,299 lb/yd³ (1 958 kg/m³) Tipping load – ISO: 5 Straight 8,164 lb (3 703 kg) 7,994 lb (3 626 kg) 40° turn 7,055 lb (3 200 kg) 6,905 lb (3 132 kg) Lift capacity: 5 5,287 lb (2 398 kg) 5,163 lb (2 342 kg) Maximum reach 5,933 lb (2 691 kg) 5,825 lb (2 642 kg) Ground 6,336 lb (2 874 kg) 6,184 lb (3 000 kg) Breakout force with tilt cylinder 6,753 lb (3 063 kg) 6,614 lb (3 000 kg) Maximum rollback: 38° 38° 38° @ Ground 38° 38° 38° @ Carry position 45° 45° 45° @ Maximum reach 53° 53° 53° @ Full height 56° 56° 56° Maximum grading angle with bucket – back dragging 73° 73°	M. Dig depth	5.0 in (127 mm)	5.0 in (127 mm)
Tipping load – ISO: 8,164 lb (3 703 kg) 7,994 lb (3 626 kg) 40° turn 7,055 lb (3 200 kg) 6,905 lb (3 132 kg) Lift capacity: 5,287 lb (2 398 kg) 5,163 lb (2 342 kg) Maximum reach 5,933 lb (2 691 kg) 5,825 lb (2 642 kg) Ground 6,336 lb (2 874 kg) 6,184 lb (3 000 kg) Breakout force with tilt cylinder 6,753 lb (3 063 kg) 6,614 lb (3 000 kg) Maximum rollback: 38° 38° @ Ground 38° 38° @ Carry position 45° 45° @ Maximum reach 53° 53° @ Pull height 53° 53° Maximum rollback: 38° 38° Ø Carry position 45° 45° Ø Maximum reach 53° 53° Ø Maximum reach 56° 56°	Operating load – ISO	3,527 lb (1 600 kg)	3,452 lb (1 566 kg)
Straight 8,164 lb (3 703 kg) 7,994 lb (3 626 kg) 40° turn 7,055 lb (3 200 kg) 6,905 lb (3 132 kg) Lift capacity: 7 7 7 Full height 5,287 lb (2 398 kg) 5,163 lb (2 342 kg) Maximum reach 5,933 lb (2 691 kg) 5,825 lb (2 642 kg) Ground 6,336 lb (2 874 kg) 6,184 lb (2 805 kg) Breakout force with tilt cylinder 6,753 lb (3 063 kg) 6,614 lb (3 000 kg) Maximum rollback: 38° 38° @ Ground 38° 38° @ Carry position 45° 45° @ Maximum reach 53° 53° @ Maximum reach 53° 53° @ Carry position 45° 45° @ In Height 56° 56° Maximum grading angle with bucket – back dragging 73° 73°	Maximum material density – ISO	3,853 lb/yd ³ (2 286 kg/m ³)	3,299 lb/yd ³ (1 958 kg/m ³)
40° turn 7,055 lb (3 200 kg) 6,905 lb (3 132 kg) Lift capacity: - - Full height 5,287 lb (2 398 kg) 5,163 lb (2 342 kg) Maximum reach 5,933 lb (2 691 kg) 5,825 lb (2 642 kg) Ground 6,336 lb (2 874 kg) 6,184 lb (2 805 kg) Breakout force with tilt cylinder 6,753 lb (3 063 kg) 6,614 lb (3 000 kg) Maximum rollback: - - - @ Ground 38° 38° 38° @ Carry position 45° 45° 45° @ Maximum reach 53° 53° 53° @ Full height 56° 56° 56° Maximum grading angle with bucket – back dragging 73° 73°	Tipping load – ISO:		
Lift capacity: 5,287 lb (2 398 kg) 5,163 lb (2 342 kg) Full height 5,287 lb (2 398 kg) 5,163 lb (2 342 kg) Maximum reach 5,933 lb (2 691 kg) 5,825 lb (2 642 kg) Ground 6,336 lb (2 874 kg) 6,184 lb (2 805 kg) Breakout force with tilt cylinder 6,753 lb (3 063 kg) 6,614 lb (3 000 kg) Maximum rollback: 38° 38° @ Ground 38° 45° @ Ground 53° 53° @ Ground 53° 53° @ Intersect 53° 53° @ Intersect 53° 53° @ Intersect 56° 56° Maximum grading angle with bucket – back dragging 73° 73°	Straight	8,164 lb (3 703 kg)	7,994 lb (3 626 kg)
Full height 5,287 lb (2 398 kg) 5,163 lb (2 342 kg) Maximum reach 5,933 lb (2 691 kg) 5,825 lb (2 642 kg) Ground 6,336 lb (2 874 kg) 6,184 lb (2 805 kg) Breakout force with tilt cylinder 6,753 lb (3 063 kg) 6,614 lb (3 000 kg) Maximum rollback: 38° 38° @ Ground 38° 38° @ Carry position 45° 45° @ Maximum reach 53° 53° @ Full height 56° 56° Maximum grading angle with bucket – back dragging 73° 73°	40° turn	7,055 lb (3 200 kg)	6,905 lb (3 132 kg)
Maximum reach 5,933 lb (2 691 kg) 5,825 lb (2 642 kg) Ground 6,336 lb (2 874 kg) 6,184 lb (2 805 kg) Breakout force with tilt cylinder 6,753 lb (3 063 kg) 6,614 lb (3 000 kg) Maximum rollback: 88° 38° @ Ground 38° 45° @ Carry position 45° 45° @ Maximum reach 53° 53° @ Full height 56° 56° Maximum grading angle with bucket – back dragging 73° 73°	Lift capacity:		
Ground 6,336 lb (2 874 kg) 6,184 lb (2 805 kg) Breakout force with tilt cylinder 6,753 lb (3 063 kg) 6,614 lb (3 000 kg) Maximum rollback: 8° 38° 38° @ Ground 38° 45° 45° @ Maximum reach 53° 53° 53° @ Full height 56° 56° 56° Maximum grading angle with bucket – back dragging 73° 73° 73°	Full height	5,287 lb (2 398 kg)	5,163 lb (2 342 kg)
Breakout force with tilt cylinder6,753 lb (3 063 kg)6,614 lb (3 000 kg)Maximum rollback: @ Ground38°38°@ Carry position45°45°@ Maximum reach53°53°@ Full height56°56°Maximum grading angle with bucket – back dragging73°73°	Maximum reach	5,933 lb (2 691 kg)	5,825 lb (2 642 kg)
Maximum rollback: 38° 38° @ Ground 38° 38° @ Carry position 45° 45° @ Maximum reach 53° 53° @ Full height 56° 56° Maximum grading angle with bucket – back dragging 73° 73°	Ground	6,336 lb (2 874 kg)	6,184 lb (2 805 kg)
@ Ground38°38°@ Carry position45°45°@ Maximum reach53°53°@ Full height56°56°Maximum grading angle with bucket – back dragging73°73°	Breakout force with tilt cylinder	6,753 lb (3 063 kg)	6,614 lb (3 000 kg)
@ Carry position45°45°@ Maximum reach53°53°@ Full height56°56°Maximum grading angle with bucket – back dragging73°73°	Maximum rollback:		
@ Maximum reach53°53°@ Full height56°56°Maximum grading angle with bucket – back dragging73°73°	@ Ground	38°	38°
@ Full height56°56°Maximum grading angle with bucket – back dragging73°73°	@ Carry position	45°	45°
Maximum grading angle with bucket – back dragging 73° 73°	@ Maximum reach	53°	53°
······································	@ Full height	56°	56°
Loader clearance circle with bucket 337.5 in (8 572 mm) 347.6 in (8 828 mm)	Maximum grading angle with bucket – back dragging	73°	73°
	Loader clearance circle with bucket	337.5 in (8 572 mm)	347.6 in (8 828 mm)

PERFORMANCE SPECS		
21F Z-Bar	0.92 yd ³ GP (0.7 m ³) GP Bucket with Bolt-on Edge	1.31 yd ³ GP (1.0 m ³) LM Bucket with Bolt-on Edge
ISO bucket capacity – struck	0.65 yd ³ (0.5 m ³)	1.05 yd ³ (0.8 m ³)
Heaped	0.92 yd ³ (0.7 m ³)	1.31 yd ³ (1.0 m ³)
Bucket width – outside	74.8 in (1 900 mm)	80.7 in (2 050 mm)
Bucket weight - includes coupler and added components	972 lb (441 kg)	1,091 lb (495 kg)
G. Operating height – fully raised with spillguard	160.3 in (4 072 mm)	165.8 in (4 211 mm)
H. Hinge pin height – fully raised	123.5 in (3 136 mm)	123.5 in (3 136 mm)
I. Overall length – bucket level on ground	218.5 in (5 549 mm)	221.9 in (5 636 mm)
Dump angle – fully raised	47°	47°
J. Dump height – fully raised, 45° dump	90.6 in (2 302 mm)	88.2 in (2 240 mm)
K. Bucket reach – fully raised, 45° dump	37.7 in (957 mm)	40.1 in (1 018 mm)
L. Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump	44.7 in (1 135 mm)	44.7 in (1 136 mm)
M. Dig depth	2.8 in (71 mm)	2.8 in (71 mm)
Operating load – ISO	3,499 lb (1 587 kg)	3,481 lb (1 579 kg)
Maximum material density – ISO	3,821 lb/yd ³ (2 267 kg/m ³)	2,486 lb/yd ³ (1 579 kg/m ³)
Tipping load – ISO:		
Straight	8,291 lb (3 761 kg)	8,351 lb (3 788 kg)
40° turn	6,997 lb (3 174 kg)	6,850 lb (3 107 kg)
Lift capacity:		
Full height	7,050 lb (3 198 kg)	6,947 lb (3 151 kg)
Maximum reach	9,018 lb (4 090 kg)	8,891 lb (4 033 kg)
Ground	10,938 lb (4 961 kg)	10,725 lb (4 865 kg)
Breakout force with tilt cylinder	9,199 lb (4 172 kg)	8,298 lb (3 764 kg)
Maximum rollback:		
@ Ground	38°	38°
@ Carry position	46°	46°
@ Maximum reach	67°	67°
@ Full height	71°	71°
Maximum grading angle with bucket – back dragging	47°	48°
Loader clearance circle with bucket	345.9 in (8 786 mm)	353.4 in (8 977 mm)

FORKS	
21F XT	
Fork length	47.2 in (1 200 mm)
Fork weight – includes coupler	869 lb (394 kg)
Operating load – level ground	4,187 lb (1 899 kg)
Tipping load – straight	6,056 lb (2 747 kg)
Tipping load – 40° turn	5,234 lb (2 374 kg)
Fork load center	19.7 in (500 mm)
21F Z-Bar	
Fork length	47.2 in (1 200 mm)
Fork weight – includes coupler	869 lb (394 kg)
Operating load – level ground	3,902 lb (1 770 kg)
Tipping load – straight	5,651 lb (2 563 kg)
Tipping load – 40° turn	4,879 lb (2 213 kg)
Fork load center	19.7 in (500 mm)

STANDARD EQUIPMENT

OPERATOR ENVIRONMENT

See page 1

ENGINE

FPT F5H FL463 B*F001 Fuel filter with water trap Dual element air cleaner

LOADER

See page 2

DRIVETRAIN

4-wheel drive Open - front and rear axles

Hydrostatic transmission

Single joystick with electronic speed shift control F/N/R switch and proportional

loader control Outboard planetary axles

Dry disc brakes

Mechanical parking brake

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT Creep speed 0 – 3.1 mph (5 kph) TeleScop adjustable steering column on Deluxe Cab Rotating beacon Limited slip - front and rear axles Mechanical coupler Horizontal pin coupler Air conditioning Radio ready antenna and speakers

LOADER

Additional auxiliary flow: Max. 17.7 gpm @ 2500 RPM @ 3,626 psi (Max. 67 L/min @ 2500 RPM @ 25 000 kPa) Buckets - see performance data: General purpose standard General purpose light material 4-IN-1® STD forks **Tiltable Ride Control** Return to dig

HYDRAULICS

Hydraulic remote control

- 3-spool loader control valve
- 3 Diagnostic quick couplers

OTHER

Front and rear fenders Lights: 2 Front driving headlights - high/low beam 2 Rear flood lights 2 Stop tail lights and backup light Front and rear turn signal/flash Drawbar pin Articulation locking pin Tie-down and Lift-up point - front and rear Backup alarm Wired for radio Bucket position indicator

TIRES

12.5-18 1PRMPT-04TBL MITAS 335/80 R18 EM MITAS 335/80 R18 SPT9 L2 DUNL - Standard 365/70 R18 EM MITAS 365/70 R18 SPT9 L2 DUNL

OTHER

Tool box Counterweight: 330 lb (150 kg) Mounts on rear chassis

CaseCE.com

©2016 CNH Industrial America LLC. All rights reserved. CASE is a trademark registered in the United States and many other countries. owned by or licensed to CNH Industrial N.V., its subsidiaries or affiliates. CNH Industrial Capital is a trademark in the United States and many other countries, owned by or licensed to CNH Industrial N.V., its subsidiaries or affiliates. Printed in U.S.A. Contains 10% post-consumer fiber.

Form No. CCE20160321F Replaces Form No. CCE20150421F

21F

IMPORTANT: CASE Construction Equipment Inc. reserves the right to change these specifications without notice and without incurring any obligation relating to such change. Availability of some models and equipment builds vary according to the country in which the equipment is used. The illustrations and text may include optional equipment and accessories and may not include all standard equipment. Your CASE dealer/distributor will be able to give you details of the products and their specifications available in your area.



CASE Construction Equipment is biodieselfriendly.NOTE: All engines meet current EPA emissions regulations. All specifications are stated in accordance with SAE Standards or



Recommended Practices, where applicable. ▲ SAFETY™ Always read the Operator's Manual before operating any equipment. Inspect equipment before using it, and be sure it is operating properly. Follow the product safety signs and

use any safety features provided.