



#### ENGINE Model FPT F5B FL413 E\*B002 **Emissions Certification** Tier 4 Final Diesel, Turbo - Direct Injection Туре Cylinders 4 Bore/Stroke 3.9 x 4.3 in (99 x 110 mm) 207 in3 (3.4 L) Displacement Fuel injection Direct Fuel #2 Diesel Fuel filter: Beta (30) = 200/spin-on Pre-filter Main filter Beta (4) = 20/spin-on Air intake Turbocharged w/ waste gate and external cooled EGR Exhaust aftertreatment Selective Catalytic Reduction - SCR Cooling Liquid Engine speeds RPM High idle - no load 2500 +/- 25 Rated - full load 2500 Low idle 1150 +/- 25 Horsepower @ 2500 RPM - SAE J1349: Gross 90 hp (67 kW) Net 84 hp (63 kW) Peak torque @ 1400 RPM 282 lb·ft (383 N·m) Radiator: Aluminum bar and plate Core type Core size area 2.21 ft<sup>2</sup> (0.206 m<sup>2</sup>) Rows of tubes 21 Cap pressure 16 +/- 2 psi (1.10 +/- 0.14 bar) Fan: Diameter 22 in (560 mm) Ratio 0.96:1 standard, 1.1:1 high flow Water pump: Style Centrifugal Flow 47.8 gpm (181 L/min) Engine lubrication pump Rotor pump w/ deep sump pan, plate cooler and pressurized under-piston nozzles Pump operating angle ratings: 45° Side to side Bucket up 35°

Bucket Down

### LIFT GEOMETRY

Radial Lift

#### DRIVETRAIN

Pump to engine ratio	ervo-assist mechanical 1:1			
Displacement	2.81 in <sup>3</sup> (46 cm <sup>3</sup> )			
Flow @ rated engine RPM:				
@ 97% efficiency	29.4 gpm (111 L/min)			
Charge pressure	360 psi (24.5 bar)			
System relief pressure	5,220 psi (360 bar)			
Drive pump controls	Electro-hydraulic			
Pump to engine ratio	1:1			
Displacement	2.75 in <sup>3</sup> (45 cm <sup>3</sup> )			
Flow @ rated engine RP				
@ 97% efficiency	28.8 gpm (109 L/min)			
Charge pressure	362 psi (25 bar)			
System relief pressure	5,220 psi (360 bar)			
Drive motors:				
Max. displacement	28.7 in <sup>3</sup> (470 cm <sup>3</sup> )			
Displacement – optional	:			
High speed	17.2 in <sup>3</sup> (282 cm <sup>3</sup> )			
Motor RPM @ high idle	and 97% efficiency:			
Standard 1-speed	237			
Optional 2-speed	355			
Motor torque @ max. displacement and relief				
	•			
pressure, calculated	@ 5,220 psi (360 bar):			
· ·	•			
pressure, calculated	<sup>©</sup> 5,220 psi (360 bar): 1,987 lb∙ft (2 694 N∙m)			
Travel speed: Low range	9 5,220 psi (360 bar): 1,987 lb·ft (2 694 N·m) 7.0 mph (11.3 kph)			
Travel speed:	<sup>©</sup> 5,220 psi (360 bar): 1,987 lb∙ft (2 694 N∙m)			
Travel speed: Low range High range – optional	9 5,220 psi (360 bar): 1,987 lb·ft (2 694 N·m) 7.0 mph (11.3 kph)			
Travel speed: Low range High range – optional	9 5,220 psi (360 bar): 1,987 lb ft (2 694 N·m) 7.0 mph (11.3 kph) 10.5 mph (16.9 kph)			
Travel speed: Low range High range – optional Final drive Singl Drive chain: Size	<ul> <li>5,220 psi (360 bar): 1,987 lb·ft (2 694 N·m)</li> <li>7.0 mph (11.3 kph) 10.5 mph (16.9 kph)</li> <li>e-reduction chain drive</li> <li>ASA #100</li> </ul>			
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Travel speed: Low range High range – optional Final drive Singl Drive chain: Size Tensile strength	<ul> <li>9 5,220 psi (360 bar): 1,987 lb·ft (2 694 N·m)</li> <li>7.0 mph (11.3 kph) 10.5 mph (16.9 kph)</li> <li>e-reduction chain drive</li> <li>ASA #100 30,000 lb (133.4 kN)</li> </ul>			
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Travel speed: Low range High range – optional Final drive Singl Drive chain: Size Tensile strength Axles: Torque @ max. displace relief pressure	<ul> <li>9 5,220 psi (360 bar): 1,987 lb·ft (2 694 N·m)</li> <li>7.0 mph (11.3 kph) 10.5 mph (16.9 kph)</li> <li>le-reduction chain drive</li> <li>ASA #100 30,000 lb (133.4 kN)</li> <li>ment and 5,957 lb·ft (8 077 N·m)</li> </ul>			
Travel speed: Low range High range – optional Final drive Singl Drive chain: Size Tensile strength Axles: Torque @ max. displace relief pressure Diameter Length	<ul> <li>9 5,220 psi (360 bar): 1,987 lb-ft (2 694 N·m)</li> <li>7.0 mph (11.3 kph) 10.5 mph (16.9 kph)</li> <li>e-reduction chain drive</li> <li>ASA #100 30,000 lb (133.4 kN)</li> <li>ement and 5,957 lb-ft (8 077 N·m) 2.44 in (62 mm)</li> </ul>			
Travel speed: Low range High range – optional Final drive Singl Drive chain: Size Tensile strength Axles: Torque @ max. displace relief pressure Diameter Length Parking brake:	<ul> <li>9 5,220 psi (360 bar): 1,987 lb-ft (2 694 N·m)</li> <li>7.0 mph (11.3 kph) 10.5 mph (16.9 kph)</li> <li>e-reduction chain drive</li> <li>ASA #100 30,000 lb (133.4 kN)</li> <li>ement and 5,957 lb-ft (8 077 N·m) 2.44 in (62 mm) 15.6 in (396 mm)</li> </ul>			
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Travel speed:         Low range         High range – optional         Final drive       Singl         Drive chain:         Size         Tensile strength         Axles:         Torque @ max. displace         relief pressure         Diameter         Length         Parking brake:         Type       Splant	<ul> <li> <sup>2</sup> 5,220 psi (360 bar):         <ol> <li>1,987 lb-ft (2 694 N·m)</li> <li>7.0 mph (11.3 kph)</li> <li>10.5 mph (16.9 kph)</li> </ol> </li> <li> <sup>1</sup> e-reduction chain drive         <ul> <li>ASA #100</li> <li>30,000 lb (133.4 kN)</li> </ul> </li> <li> <sup>1</sup> ment and         <ul> <li>5,957 lb-ft (8 077 N·m)</li> <li>2.44 in (62 mm)</li> <li>15.6 in (396 mm)</li> </ul> </li> <li> <sup>1</sup> oring-applied, hydraulic release multiple disc.     </li> </ul>			
Travel speed:         Low range         High range – optional         Final drive       Singl         Drive chain:         Size         Tensile strength         Axles:         Torque @ max. displace         relief pressure         Diameter         Length         Parking brake:         Type       Si         Engagement       Depression	<ul> <li>         9 5,220 psi (360 bar): 1,987 lb-ft (2 694 N·m)         7.0 mph (11.3 kph) 10.5 mph (16.9 kph)         10.5 mph (16.9 kph)         te-reduction chain drive         ASA #100 30,000 lb (133.4 kN)         assert and 5,957 lb-ft (8 077 N·m) 2.44 in (62 mm) 15.6 in (396 mm)         oring-applied, hydraulic     </li> </ul>			

ELECTRICAL	
Alternator	160 amp
Starter	4.29 hp (3.2 kW)
Battery	12-volt low-maintenance

attery 12-volt low-maintenance 1,000 cold-cranking amps @ 0° F (-18° C°)

#### **OPERATOR ENVIRONMENT**

45°

Enclosed Cab w/ Heater and AC; Fully sealed and pressurized – FSP; Glass door w/ wiper and washer; Sliding side windows – removable; Heater and air conditioner; AM/FM radio w/ 2 speakers; Keyless start ignition; Tilt ROPS/FOPS;



Rear window w/ emergency escape; Deluxe cloth, air suspension seat, w/ 2 in (51 mm) retractable 3 point lap seat belt, w/ heater and lumbar support; Hand and foot throttle; Alarm package – back-up and horn; Headliner; Dome Light; Top window; Cup holder; 12V Power plug socket; Foot rest; Seat Pocket; Padded seat bar w/ integral armrests; Loader control lockout system; Electric parking brake control; Operator's compartment floor cleanout; Proportional auxiliary hydraulic control – on joystick; Advanced Instrument Cluster w/ digital hour meter, tachometer, fuel level LCD bar graph w/ alarm, DEF Level, diagnostic features and security lockout.

diagnostic features and s	ecurity lockout.		
Warning lights with alarms: Engine coolant temperature; Engine oil pressure; Engine malfunction; Hydraulic charge pressure; Hydraulic filter restriction; Hydraulic oil temperature: Critical system stop, Engine system, Hydraulic system, Electrical and diagnostic system.			
Warning alarms: Battery voltage – plus d	isplay; Oil service.		
Indicator light: Engine preheat; Parking Seat bar reminder.	brake;		
OPERATING WEIGHT			
Unit equipped w/ open c 72 in Low Profile bucket; 12 x 16.5 tires:			
Shipping weight	7,773 lb (3 526 kg)		
Add-on weights:Side cab glass47 lb (21.3 kgPolycarbonate cab door75 lb (34.0 kgGlass cab door w/ wiper75 lb (34.0 kgSuspension seat22 lb (10.0 kgAdditional counterweight300 lb (136.0 kg			
HYDRAULICS			
Implement pump type	Gear		
Displacement: Standard aux. High-flow aux.	2.23 in <sup>3</sup> (36.6 cm <sup>3</sup> ) 1.24 in <sup>3</sup> (20.4 cm <sup>3</sup> )		
Standard flow @ rated er @ 100% efficiency	igine RPM: 24.2 gpm (91.5 L/min)		
Optional high-flow @ rated engine RPM: @ 100% efficiency 37.6 gpm (142.5 L/min)			
Enhanced high-flow @ ra @ 100% efficiency	ted engine RPM: 35.0 gpm (132.5 L/min)		
Loader control valve: Type 3 spool/ope	en center/series - series		

	Type 3 spool/open center/series - series			
Relief pressure		ire	3,046 psi (210 bar)	
	Port relief pres	ssures:		
	Loader raise		3,263 psi (225 bar)	
	Bucket curl		3,770 psi (260 bar)	
	Bucket dump	C	1,160 psi (80 bar)	
	Hydraulic lines	6:		
	Tubing		37° JIC Flare	
	Loop hoses		SAE 100 R19	

## HYDRAULICS CONT.

Hydraulic oil cooler:

Number of fins 10 per inch (3.94 per of Number of tube rows x columns 9 bar/pl	
Area	x columns 9 bar/plate 138.7 in <sup>2</sup> (890.0 cm <sup>2</sup> )
Hydraulic filter	Beta (4) = 75/spin-on
Lift cylinders: Bore diameter Rod diameter Stroke Closed length	2.75 in (69.85 mm) 2.0 in (50.8 mm) 33.4 in (847.9 mm) 47.1 in (1 196 mm)

Bucket cylinders:
Bore diameter
Rod diameter
Stroke
Closed length

Engine oil w/ filter

Fuel tank

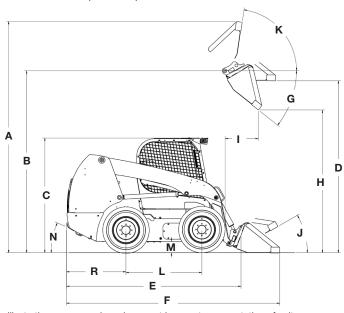
SERVICE CAPACITIES

3.0 in (76.2 mm)
1.5 in (38.1 mm)
16.4 in (410 mm)
24.0 in (610 mm)

Ρ

Hydraulic system:	
Reservoir	6.0 gal (22.7 L)
Total	11.9 gal (45.4 L)
Chain tanks – per side	5.9 gal (22.2 L)
Diesel Exhaust Fluid (DEF) Tank	2.8 gal (10.7 L)

	PERFORMANCE SPECS	
25.5 gal (96.5 L)	- Rated operating capacity – I	PAC*:
8.9 qt (8.5 L)	50% of tipping load	
	w/ additional counterweigh	
	-	
	Tipping load*	5,400 lb (2 450 kg)
	Breakout forces @ 3,150 ps	. ,
	,	8,677 lb (38.6 kN)
	Lift cylinders – tip limit	6,096 lb (27.1 kN)
	Cycle times:	
	Raise	3.6 sec
	Lower	2.0 sec
	Dump	2.6 sec
	Roll back	2.0 sec
	NOTE: *Measured using 72 in	(1.83 m)
	o dirt and foundry bucke	ət.
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	_ X	$\times$
D		
H		
		ST
<u> </u>		



Line drawings are for illustrative purpose only and may not be exact representation	n of unit
Ente drawinge are for indeficitive purpose only and may not be exact representation	in or arm.

DMMENSIONS         A. Overall operating height:         with low profile bucket       156.3 in (3.97 m)         with low profile bucket       160.3 in (4.07 m)         Height to:       185.3 in (2.00 m)         B. Bucket hinge pin       125.1 in (3.18 m)         C. Top of ROPS       78.8 in (2.00 m)         Determ of level bucket, fully raised       123.3 in (3.13 m)         Overall engith:       118.7 in (3.01 m)         E. without attachment with coupler       118.7 in (3.01 m)         F. without attachment with outpler       118.7 in (3.01 m)         with low profile bucket       152.7 in (3.88 m)         G. Maximum dump angle       38.1°         H. Dump height:       100.9 in (2.56 m) @ 38.1°         with low profile bucket       190.9 in (2.56 m) @ 38.1°         J. Bucket on ground       30.7°         K. Bucket on ground       30.7°         J. Bucket on ground       30.2°         K. Bucket at full height       99.7°		
with fourdpr/scavating bucket     156.3 in (3.97 m)       with low profile bucket     160.3 in (4.07 m)       with low profile bucket     165.3 in (4.20 m)       Height to:     125.1 in (3.18 m)       B. Bucket hinge pin     125.1 in (3.18 m)       C. Top of ROPS     7.88 in (2.00 m)       D. Bottom of level bucket, fully raised     123.3 in (3.13 m)       Overall length:     118.7 in (3.01 m)       F. without attachment with coupler     118.7 in (3.01 m)       Without worbfile bucket     141.5 in (3.75 m)       with low profile bucket     141.5 in (3.75 m)       with low profile bucket     10.9 ln (2.56 m) @ 38.1°       with low profile bucket     10.9 ln (2.56 m) @ 38.1°       with low profile bucket     10.9 ln (2.56 m) @ 38.1°       with low profile bucket     98.3 in (2.50 m) @ 38.1°       With worbfile bucket     98.3 in (2.50 m) @ 38.1°       With worbfile bucket     30.7°       J. Bucket at full height     30.7°       J. Bucket at full height     30.7°       J. Bucket at full height     33.5°       J. Bucket at full height     30.1°       J. Bucket at full height     30.1°       J. Bucket at full height     30.1°       J. Bucket at full height     33.5°       J. Bucket at full height     33.5°       J. With Z in (1.83 m) indu	DIMENSIONS	
B. Eucket hinge pin         125.1 in (3.18 m)           C. Top of ROPS         78.8 in (2.00 m)           D. Bottom of level bucket, fully raised         123.3 in (3.13 m)           Overall length:         118.7 in (3.01 m)           E. without attachment with coupler         118.7 in (3.01 m)           F. without attachment with coupler         118.7 in (3.01 m)           F. without attachment with coupler         118.7 in (3.01 m)           F. without attachment with coupler         118.7 in (3.01 m)           F. without attachment with coupler         118.7 in (3.01 m)           M. with low profile bucket on ground         118.7 in (3.01 m)           with low profile bucket         118.7 in (3.01 m)           B. Coupler         118.7 in (3.01 m)           H. Dump height:         118.7 in (3.08 m)           with low profile bucket         190.9 in (2.56 m) @ 38.1°           Maximum attachment rollback:         22.6 in (0.57 m) @ 38.1°           J. Bucket at ground         30.7°           K. Bucket at full height         99.7°           L. Wheelbase         52.0 in (1.32 m)           M. Ground clearance – bottom of belly pan         8.0 in (0.20 m)           M. Angle of departure         23.5°           Clearance circle:         20.0 in (1.32 m)           O. without	with foundry/excavating bucket with low profile bucket	160.3 in (4.07 m)
E. without attachment with coupler         118.7 in (3.01 m)           F. with foundry/excavating bucket on ground         143.5 in (3.64 m)           with low profile bucket         141.5 in (3.75 m)           with low profile bucket         152.7 in (3.89 m)           G. Maximum dump angle         38.1°           H. Dump height:         100.9 in (2.56 m) @ 38.1°           with low profile bucket         100.9 in (2.56 m) @ 38.1°           I. Dump neight:         100.9 in (2.56 m) @ 38.1°           Maximum attachment rollback:         22.6 in (0.57 m) @ 38.1°           J. Bucket on ground         30.7°           K. Bucket at full height         99.7°           L. Wheelbase         52.0 in (1.32 m)           M. Ground clearance – bottom of belly pan         8.0 in (0.20 m)           N. Angle of departure         23.5°           Clearance circle:         0           O. without bucket         55.1 in (1.40 m)           P. with 72 in (1.83 m) foundry/excavating bucket in carry position         83.5 in (2.12 m)           with 72 in (1.83 m) low profile bucket on ground         87.2 in (2.23 m)           Q. Clearance circle rear         71.2 in (1.81 m)           Q. Clearance circle rear         71.2 in (1.81 m)           Q. Clearance circle rear         71.2 in (1.81 m)	<ul><li>B. Bucket hinge pin</li><li>C. Top of ROPS</li></ul>	78.8 in (2.00 m)
H. Dump height:       100.9 in (2.56 m) @ 38.1°         with foundry/excavating bucket       98.3 in (2.50 m) @ 38.1°         I. Dump reach at maximum height with low profile bucket       22.6 in (0.57 m) @ 38.1°         Maximum attachment rollback:       30.7°         J. Bucket an ground       30.7°         K. Bucket at full height       99.7°         L. Wheelbase       52.0 in (1.32 m)         M. Ground clearance – bottom of belly pan       8.0 in (0.20 m)         N. Angle of departure       23.5°         Clearance circle:       0         O. without bucket       55.1 in (1.40 m)         with 72 in (1.83 m) foundry/excavating bucket in carry position       83.5 in (2.12 m)         with 72 in (1.83 m) low profile bucket on ground       87.2 in (2.23 m)         Q. Clearance circle rear       71.2 in (1.81 m)         R. Rear axle to bumper       42 in (1.07 m)         S. Tread over gauge with spec tires       56.9 in (1.45 m)	<ul> <li>E. without attachment with coupler</li> <li>F. with foundry/excavating bucket on ground with low profile bucket</li> </ul>	143.5 in (3.64 m) 141.5 in (3.75 m)
with foundry/excavating bucket         100.9 in (2.56 m) @ 38.1°           with low profile bucket         98.3 in (2.50 m) @ 38.1°           I.         Dump reach at maximum height with low profile bucket         22.6 in (0.57 m) @ 38.1°           Maximum attachment rollback:         22.6 in (0.57 m) @ 38.1°           J.         Bucket on ground         30.7°           K.         Bucket at full height         23.0°           L.         Wheelbase         52.0 in (1.32 m)           M.         Ground clearance – bottom of belly pan         8.0 in (0.20 m)           N.         Angle of departure         23.5°           Clearance circle:         55.1 in (1.40 m)           O.         with 72 in (1.83 m) foundry/excavating bucket in carry position         83.5 in (2.12 m)           with 72 in (1.83 m) low profile bucket on ground         87.2 in (2.22 m)           with 72 in (1.83 m) extended low profile on ground         91.9 in (2.33 m)           Q.         Clearance circle rear         71.2 in (1.81 m)           R.         Rear axle to bumper         42 in (1.07 m)           S.         Tread over gauge with spec tires         56.9 in (1.45 m)	G. Maximum dump angle	38.1°
Maximum attachment rollback:J. Bucket on ground30.7°K. Bucket at full height99.7°L. Wheelbase52.0 in (1.32 m)M. Ground clearance – bottom of belly pan8.0 in (0.20 m)N. Angle of departure23.5°Clearance circle:0O. without bucket55.1 in (1.40 m)P. with 72 in (1.83 m) foundry/excavating bucket in carry position83.5 in (2.12 m)with 72 in (1.83 m) ow profile bucket on ground87.2 in (2.22 m)with 72 in (1.83 m) extended low profile on ground91.9 in (2.33 m)Q. Clearance circle rear71.2 in (1.81 m)R. Rear axle to bumper42 in (1.07 m)S. Tread over gauge with spec tires56.9 in (1.45 m)	with foundry/excavating bucket	
J. Bucket on ground $30.7^{\circ}$ K. Bucket at full height $99.7^{\circ}$ L. Wheelbase $52.0$ in $(1.32 m)$ M. Ground clearance - bottom of belly pan $8.0$ in $(0.20 m)$ N. Angle of departure $23.5^{\circ}$ Clearance circle: $0$ O. without bucket $55.1$ in $(1.40 m)$ P. with 72 in $(1.83 m)$ foundry/excavating bucket in carry position $83.5$ in $(2.12 m)$ with 72 in $(1.83 m)$ extended low profile bucket on ground $87.2$ in $(2.23 m)$ Q. Clearance circle rear $71.2$ in $(1.81 m)$ R. Rear axle to bumper $42$ in $(1.07 m)$ S. Tread over gauge with spec tires $56.9$ in $(1.45 m)$	I. Dump reach at maximum height with low profile bucket	22.6 in (0.57 m) @ 38.1°
M. Ground clearance – bottom of belly pan8.0 in (0.20 m)N. Angle of departure23.5°Clearance circle:23.5°O. without bucket55.1 in (1.40 m)P. with 72 in (1.83 m) foundry/excavating bucket in carry position83.5 in (2.12 m)with 72 in (1.83 m) low profile bucket on ground87.2 in (2.22 m)with 72 in (1.83 m) extended low profile on ground91.9 in (2.33 m)Q. Clearance circle rear71.2 in (1.81 m)R. Rear axle to bumper42 in (1.07 m)S. Tread over gauge with spec tires56.9 in (1.45 m)	J. Bucket on ground	
N.Angle of departure23.5°Clearance circle:0.O.without bucketP.with 72 in (1.83 m) foundry/excavating bucket in carry positionwith 72 in (1.83 m) low profile bucket on ground87.2 in (2.22 m)with 72 in (1.83 m) extended low profile on ground91.9 in (2.33 m)Q.Clearance circle rear71.2 in (1.81 m)R.Rear axle to bumper42 in (1.07 m)S.Tread over gauge with spec tires56.9 in (1.45 m)	L. Wheelbase	52.0 in (1.32 m)
Clearance circle:         O. without bucket       55.1 in (1.40 m)         P. with 72 in (1.83 m) foundry/excavating bucket in carry position       83.5 in (2.12 m)         with 72 in (1.83 m) low profile bucket on ground       87.2 in (2.22 m)         with 72 in (1.83 m) extended low profile on ground       91.9 in (2.33 m)         Q. Clearance circle rear       71.2 in (1.81 m)         R. Rear axle to bumper       42 in (1.07 m)         S. Tread over gauge with spec tires       56.9 in (1.45 m)	M. Ground clearance – bottom of belly pan	8.0 in (0.20 m)
O. without bucket55.1 in (1.40 m)P. with 72 in (1.83 m) foundry/excavating bucket in carry position with 72 in (1.83 m) low profile bucket on ground with 72 in (1.83 m) extended low profile on ground83.5 in (2.12 m)Q. Clearance circle rear91.9 in (2.33 m)R. Rear axle to bumper42 in (1.07 m)S. Tread over gauge with spec tires56.9 in (1.45 m)	N. Angle of departure	23.5°
R. Rear axle to bumper         42 in (1.07 m)           S. Tread over gauge with spec tires         56.9 in (1.45 m)	<ul> <li>O. without bucket</li> <li>P. with 72 in (1.83 m) foundry/excavating bucket in carry position with 72 in (1.83 m) low profile bucket on ground</li> </ul>	83.5 in (2.12 m) 87.2 in (2.22 m)
S. Tread over gauge with spec tires 56.9 in (1.45 m)	Q. Clearance circle rear	71.2 in (1.81 m)
	R. Rear axle to bumper	42 in (1.07 m)
T. Over the tire width spec tires       69.6 in (1.77 m)	S. Tread over gauge with spec tires	56.9 in (1.45 m)
	T. Over the tire width spec tires	69.6 in (1.77 m)

TIRE SELECTION				
Туре	Size	Tread Gauge	Over Tires Width	Each Tire Weight*
Heavy-Duty	12 L x 16.5	56.9 in (1.45 m)	70.0 in (1.78 m)	110 lb (50 kg)
Premium	12 L x 16.5	56.9 in (1.45 m)	70.0 in (1.78 m)	119 lb (54 kg)
Premium-Lined	12 L x 16.5	56.9 in (1.45 m)	70.0 in (1.78 m)	119 lb (54 kg)
Severe-Duty	12 L x 16.5	56.9 in (1.45 m)	70.0 in (1.78 m)	135 lb (61 kg)
Non-Pneumatic – Solid	12 L x 16.5	56.9 in (1.45 m)	70.0 in (1.78 m)	280 lb (127 kg)
Mining	12 L x 16.5	56.9 in (1.45 m)	70.0 in (1.78 m)	380 lb (173 kg)
Flotation	33 L x 15.5 x 16.5	59.0 in (1.50 m)	76.0 in (1.93 m)	143 lb (65 kg)
Premium	14 L x 17.5	62.0 in (1.58 m)	76.0 in (1.93 m)	148 lb (67 kg)

NOTE: \*Tire weight does not include the wheel weight.

OPTIONAL BUCKETS			
Туре	Width	Weight	Heaped Capacity
Dirt & Foundry	72 in (1.83 m)	420 lb (190 kg)	16.2 ft <sup>3</sup> (0.46 m <sup>3</sup> )
	78 in (1.98 m)	440 lb (200 kg)	17.7 ft <sup>3</sup> (0.50 m <sup>3</sup> )
Low Profile	72 in (1.83 m)	480 lb (218 kg)	14.8 ft <sup>3</sup> (0.42 m <sup>3</sup> )
Low Profile Extended	72 in (1.83 m)	510 lb (232 kg)	17.7 ft <sup>3</sup> (0.50 m <sup>3</sup> )
	78 in (1.98 m)	540 lb (245 kg)	19.1 ft <sup>3</sup> (0.54 m <sup>3</sup> )
	84 in (2.13 m)	575 lb (262 kg)	20.5 ft <sup>3</sup> (0.58 m <sup>3</sup> )
Light Material	72 in (1.83 m)	475 lb (216 kg)	23.3 ft <sup>3</sup> (0.66 m <sup>3</sup> )
	84 in (2.13 m)	540 lb (245 kg)	27.5 ft <sup>3</sup> (0.78 m <sup>3</sup> )
Manure & Slurry	72 in (1.83 m)	480 lb (218 kg)	19.1 ft <sup>3</sup> (0.54 m <sup>3</sup> )
	84 in (2.13 m)	545 lb (248 kg)	22.6 ft <sup>3</sup> (0.64 m <sup>3</sup> )
Heavy-Duty	72 in (1.83 m)	510 lb (230 kg)	14.1 ft <sup>3</sup> (0.40 m <sup>3</sup> )
	78 in (1.98 m)	530 lb (240 kg)	15.5 ft <sup>3</sup> (0.44 m <sup>3</sup> )
	84 in (2.13 m)	550 lb (250 kg)	17.0 ft <sup>3</sup> (0.48 m <sup>3</sup> )
Heavy-Duty with spillguard	72 in (1.83 m)	585 lb (265 kg)	18.4 ft <sup>3</sup> (0.52 m <sup>3</sup> )
	78 in (1.98 m)	605 lb (275 kg)	19.8 ft <sup>3</sup> (0.56 m <sup>3</sup> )
	84 in (2.13 m)	640 lb (290 kg)	21.5 ft <sup>3</sup> (0.61 m <sup>3</sup> )

### STANDARD EQUIPMENT

**OPERATOR ENVIRONMENT** 

#### See page 1

### ENGINE

FPT F5H FL413E E\*B002 207 CID (3.4 L) Turbo Tier 4 Final Certified Diesel Oxidation Catalyst (DOC) with Selective Catalytic Reduction (SCR) muffler Charged Air Cooler (CAC) High Pressure Common Rail (HPCR) fuel injection Horsepower: Gross: 90 hp (67 kW) Net: 84 hp (63 kW) Peak torque 282 lb·ft (383 N·m) 160 amp alternator Dual element air cooler Organic Acid Technology (OAT) Anti-freeze solution to -34° F Fuel tank - 25.5 gal (U.S.) Over and under radiator and oil cooler 3-stack after cooler/radiator/oil cooler configuration Glow pluas Integral engine oil cooler

### **OPTIONAL EQUIPMENT**

#### **OPERATOR ENVIRONMENT**

**ROPS/FOPS** Level 1 canopy with side screens Keyed start ignition 3-point seat belt Ventilation system with integrated heater Electro-hydraulic controls: For drive/steering, loader functions Switchable between H and ISO patterns Adjustable sensitivity of controls Mechanical hand controls Hand and foot controls: Hand controls the loader drive function and foot controls the bucket and boom Non suspension seat Suspension seat, vinyl Open cab interior trim package Demolition cab door with polycarbonate FOPS level 2

Fuel filter with water trap 1,000 CCA 12V battery Master electrical disconnect Jump start terminal

#### DRIVETRAIN

2-speed hydrostatic four wheel drive ASA #100HS drive chain SAHR disc parking brake

#### **HYDRAULICS**

Auxiliary hydraulics: @ 3,050 psi (210 bar) - 24.2 gpm (91.5 L/min) 6 micron oil filtration system 3-spool loader control valve Auxiliary hydraulic disconnects, ISO flat-face - connect-under-pressure with case drain Hydraulic circuit pedal lock Auxiliary function lockout override Loader lift lockout override Heavy-duty hydraulic oil cooler Loader arm float position Loader function lockout system Hydraulic one-way self-leveling Ride control

### **HYDRAULICS**

High-flow auxiliary hydraulics - combined: @ 3,050 psi (210 bar) - 37.6 gpm (142.5 L/min) Second auxiliary hydraulics

#### LOADER

Auxiliary front electric control Hydraulic attachment coupler

### DRIVETRAIN

1-speed hydrostatic four wheel drive

### LOADER

Heavy duty hydraulic attachment coupler Radial lift geometry Loader lift arm support strut SAE operating load: 2,700 lbs Tipping load: 5,400 lbs

#### TIRES

12 X 16.5 Heavy duty

#### **OTHER STANDARD FEATURES**

Halogen lights - 2 front, 2 side, 2 rear flood Heavy duty front lights Pre-wired for rotating beacon Lockable service access hood Single-point daily service Rear tail lights Remote oil drain Remote oil and fuel filters Block heater Debris ingression sealing Mounting points for add-on counterweights Heavy duty rear door

#### OTHER

Language decals Factory-installed tires - see page 3 Buckets - see page 3 Bolt-on bucket cutting edges Bolt-on heavy-duty bucket spill guard Special paint Offsite service arrangement Telematics

### FACTORY SUPPLIED ATTACHMENTS

Interior mirror Add-on counterweights Road lights Rotating beacon Four-corner LED strobe Bolt-on heavy-duty bucket teeth 48 in (1.22 m) pallet forks

#### **SERVICE PARTS**

3 inch (76.2 mm) retractable seat belt

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