

ENGINE

Make	FPT
Model	F4HFE613W
Emissions Certification	Tier 4 Final
Type	4-stroke, turbocharged and air-to-air cooled
Cylinders	6-cylinder in-line
Bore/Stroke	4.09 x 5.20 in (104 x 132 mm)
Displacement	411 in ³ (6.7 L)
Fuel	#2 Diesel, #1 and #2 mixture permitted for cold temperatures
Fuel injection	Direct injection – electronic
Fuel filter	Replaceable
Fuel pump	Bosch
Gradeability:	
Side-to-side	35°
Fore and aft	35°
Air filter	Dry type elements w/ warning restriction indicator
Mid-mount cooling module:	Mid-mount air/water
Fan – hydraulic driven:	
Style	8 blade puller
Diameter	32 in (813 mm)
Water pump	Integral
Engine oil pump operating angle ratings:	
Side-to-side	35°
Fore and aft	35°
Oil filtration	Replaceable
Engine speeds	RPM
Rated – full load	2000
Horsepower:	
Maximum Power Mode:	
Peak gross @ 1800 RPM	172 hp (128 kW)
Net rated @ 2000 RPM	151 hp (113 kW)
Peak net @ 1800 RPM	162 hp (121 kW)
Standard Power Mode:	
Peak gross @ 1800 RPM	156 hp (116 kW)
Net rated @ 2000 RPM	138 hp (103 kW)
Peak net @ 1800 RPM	146 hp (109 kW)
Economy Power Mode:	
Peak gross @ 1500 RPM	133 hp (99 kW)
Net rated @ 2000 RPM	101 hp (75 kW)
Peak net @ 1500 RPM	125 hp (93 kW)

Torque – peak:

Maximum Power Mode:	
Gross @ 1600 RPM	538 lb-ft (730 N-m)
Net @ 1600 RPM	510 lb-ft (692 N-m)
Standard Power Mode:	
Gross @ 1300 RPM	530 lb-ft (719 N-m)
Net @ 1300 RPM	508 lb-ft (689 N-m)
Economy Power Mode:	
Gross @ 1200 RPM	527 lb-ft (715 N-m)
Net @ 1200 RPM	508 lb-ft (689 N-m)

Torque rise:

Maximum power range	33%
---------------------	-----

NOTE: Gross horsepower and torque per SAE J1995.
Net horsepower and torque per SAE J1349.

DRIVETRAIN

Transmission:

4F/3R Proportional w/ Electronic Control
Module torque sensing autoshift/manual
shift and modulation

Gears	Helical cut
Gear ratios	Forward/Reverse
1st	4.012/3.804
2nd	2.174/2.061
3rd	1.088/1.031
4th	0.619/ –

Torque converter:

Stall ratio – 4-speed	2.66:1
-----------------------	--------

Differential:

Limited slip w/ 30% transfer on front and
rear axles

Rear axle oscillation	24° total
-----------------------	-----------

Front and rear axles:

Differential ratio	3.18
Planetary ratio	6.40
Final axle ratio	20.34

Heavy-duty axles – optional:

Front axle equipped w/ locking differential
Rear axle equipped w/ open differential

Planetaries	Outboard
-------------	----------

Service brakes:

Hydraulically actuated, maintenance-free,
multiple wet disc w/ accumulator to all
four wheels

Brake surface area:

Front hub – each	480 in ² (0.31 m ²)
Rear hub – each	480 in ² (0.31 m ²)

Parking brakes:

Spring-applied hydraulic release disc on
transmission output shaft neutralizes power
flow to wheels when engaged

Travel speeds – 4-speed transmission:

	Forward mph (kph)	Reverse mph (kph)
1st	4.3 (6.9)	4.5 (7.3)
2nd	8.4 (13.5)	8.8 (14.2)
3rd	14.9 (23.9)	15.6 (25.0)
4th	24.0 (38.6)	–

NOTE: Travel speeds at full engine throttle
w/ 20.5-R25 Michelin XTLA (L2 Radial) tires.

ELECTRICAL

Voltage	24 Volts, negative ground
Alternator	120 amp
Batteries (2)	12-volt

OPERATOR ENVIRONMENT

ROPS cab AC w/ heat; Key start; Articulated
power steering w/ tilt column; Fully adjustable,
suspension seat; Foot throttle; Single lever loader
control w/ fully adjustable wrist rest, 2 cup
holders; 2 interior rear view mirrors; 2 in (51 mm)
retractable seat belt; Multiple storage trays; Single
brake pedal; F/N/R shuttle switch; External
rearview mirrors; Pressurized air filtering;
Anti-glare window strip; Front and Rear Defroster;
Side window, partial/fully open; 2 Dome lights;
Wipers, rear and intermittent front; Windshield
washers, front and rear; Rubber floor mat; Horn.

Displays/Gauges:

Digital:

Transmission oil temperature; Engine coolant
temperature; Fuel level; DEF level.

LCD screen:

Hour meter; Engine speed; Travel speed;
Time; Automatic transmission indication;
Current gear selection; FNR indication;
DeClutch indication; Engine mode indication;
Trip computer A/B; Fuel consumption;
Multiple languages, Metric/English; Engine
diagnostics; Transmission diagnostics;
Warning prompts; Error reporting; DEF
gauge; Diff. lock*.

Audible/Visual alarms:

Warning lights:

Four-way flashers and turn signals; Brake
pressure; Lamp/high beam indication;
Grid heater*.

Caution warnings:

Parking brake; Coolant temperature;
Hydraulic oil temperature; Transmission
oil temperature; Air filter; Transmission filter;
Hydraulic filter; Alternator; Low fuel.

Critical warnings:

Engine oil pressure; Brake pressure; Steering
pressure – w/ aux. steering*; Coolant
temperature; Hydraulic oil temperature;
Transmission oil temperature.

Backup alarm

Maintenance reminders:

Cab air filter; Engine oil filter; Fuel pre-filter;
DEF tank vent filter; SCR supply filter;
Hydraulic oil and filter; Engine air filter;
Engine coolant drive belt; Cab recirculation
filter; Engine breather filter; Transmission
breather; Front and rear axle fluid; SCR
supply module filter.

NOTE: *If equipped w/ option.

OPERATING WEIGHT

Z-Bar

Unit equipped w/ 2.75 yd³ (2.1 m³) Case pin on bucket w/ edge; 20.5-R25 L2 Radial tires; ROPS cab w/ heater and A/C; Std. battery; Heavy counterweight – 1,950 lb (885 kg); Front and rear fenders; Lights; 165 lb (75 kg) operator:
27,903 lb (12 657 kg)

XT

Unit equipped w/ 2.5 yd³ (1.9 m³) CNH w/ edge and coupler; 20.5-R25 L2 Radial tires; ROPS cab w/ heater and A/C; Std. battery; Heavy counterweight – 1,950 lb (885 kg); Front and rear fenders; Lights; 165 lb (75 kg) operator:
29,076 lb (13 189 kg)

XR

Unit equipped w/ 2.5 yd³ (1.9 m³) Case pin on bucket w/ edge; 20.5-R25 L2 Radial tires; ROPS cab w/ heater and A/C; Std. battery; Heavy counterweight – 1,950 lb (885 kg); Front and rear fenders; Lights; 165 lb (75 kg) operator:
28,227 lb (12 804 kg)

HYDRAULICS

Pump – steering/implement:

Closed center pressure/flow compensated

Variable displacement – load-sensing:

45.2 gpm @ 2000 RPM
(171 L/min @ 2000 RPM)

Loader control valve:

Closed-center, sectional 2, 3 or 4-function w/ pilot control for lift, tilt and auxiliary hydraulics, electromagnetic detents in float, raise and rollback

Loader auxiliary steering:

Hydraulic orbital center-pivot articulating w/ on-demand oil flow

High pressure standby:

Implement	3,625 psi (25 000 kPa)
Steering	3,499 psi (24 132 kPa)

Filtration:

Filtered vent w/ relief on hydraulic reservoir, maintains 3-5 psi on reservoir, 10-micron, return filter furnishes only clean oil to all components of the system

SERVICE CAPACITIES

Fuel tank	65.0 gal (246.0 L)
-----------	--------------------

DEF tank – Diesel Exhaust Fluid:

Usable capacity	9.8 gal (37.1 L)
Total	15.6 gal (58.9 L)

Hydraulic system:

Reservoir	24.0 gal (90.8 L)
Total	39.0 gal (147.6 L)

Transmission:

Service w/ filter	7.1 gal (26.7 L)
-------------------	------------------

Front and rear axle:

Front axle	5.8 gal (22.0 L)
Rear axle	5.8 gal (22.0 L)

Front and rear axle – optional:

Front axle	5.8 gal (22.0 L)
Rear axle	5.8 gal (22.0 L)

Engine oil w/ filter

3.5 gal (13.2 L)

Cooling system

7.1 gal (26.8 L)

OTHER SPECIFICATIONS

Lift cylinder:

Bore diameter	4.7 in (121 mm)
Rod diameter	2.5 in (64 mm)
Stroke	31.0 in (788 mm)

Dump cylinder – Z-Bar and XR:

Bore diameter	5.0 in (127 mm)
Rod diameter	3.0 in (76 mm)
Stroke	24.4 in (620 mm)

Dump cylinder – XT:

Bore diameter	4.5 in (114 mm)
Rod diameter	2.5 in (64 mm)
Stroke	32.6 in (820 mm)

Loader:

Z-Bar loader linkage; Single control for lift and tilt; Positive hold float; Automatic return-to-dig; Automatic height control; Automatic return-to-travel; Brake pedal transmission disconnect; Bucket position indicator on bucket.

Cycle time:

Raise w/ rated bucket load:

Z-Bar	6.3 sec
XR	6.3 sec
XT	6.5 sec

Dump w/ rated bucket load:

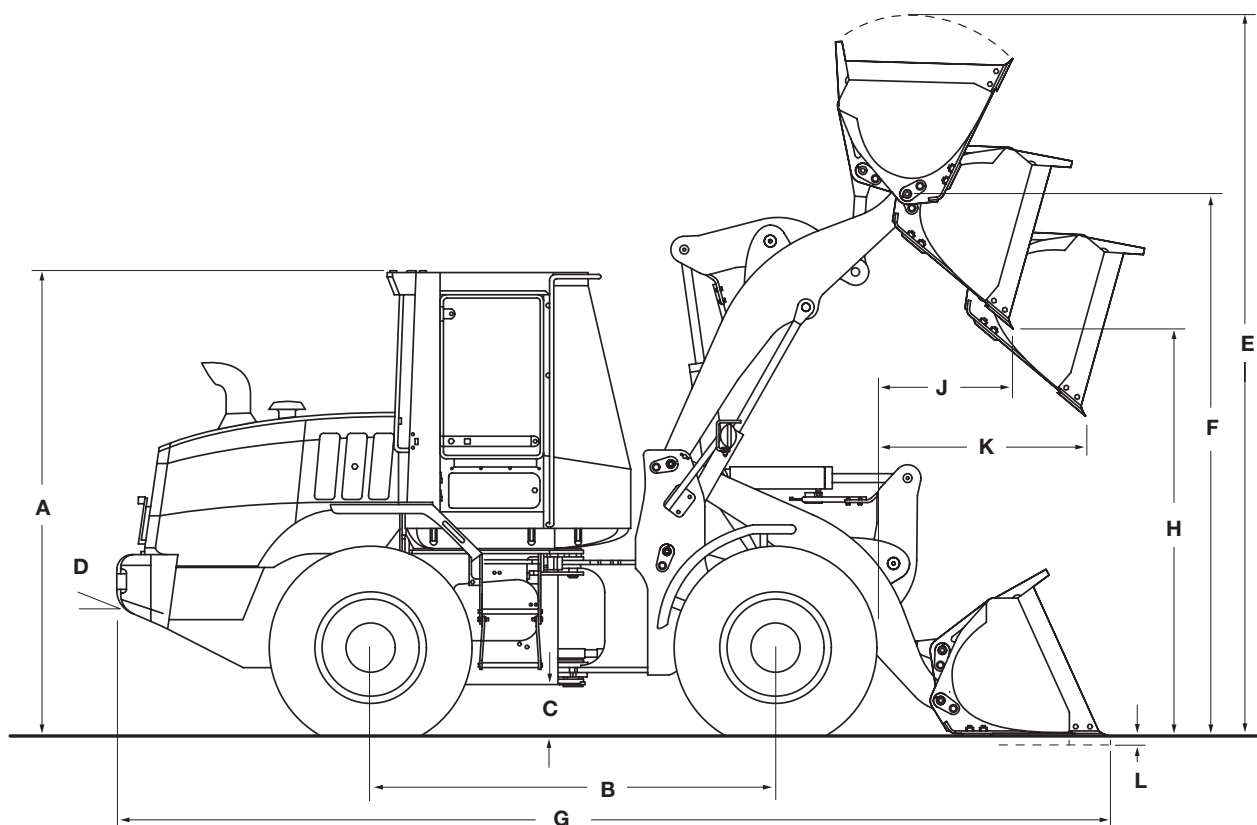
Z-Bar	1.2 sec
XR	1.2 sec
XT	2.4 sec

Power down:

Z-Bar	4.4 sec
XR	4.4 sec
XT	4.2 sec

Float down:

Z-Bar	4.8 sec
XR	4.8 sec
XT	4.2 sec



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

DIMENSIONS

A. Height to top of ROPS cab	133.2 in (3 384 mm)
Height to drawbar	42.1 in (1 070 mm)
B. Wheelbase	114.2 in (2 900 mm)
C. Ground clearance	15.3 in (389 mm)
D. Angle of departure	25°
Width:	
Overall* without bucket	97.7 in (2 482 mm)
Centerline tread	76.8 in (1 950 mm)
Turning radius* – outside	205.7 in (5 225 mm)
Turning angle:	
From center	40°
Total angle	80°
Rear axle oscillation – total	24°

NOTE: *Dimensions taken with 20.5R25 Michelin XTLA (L2 Radial) tires. For transport dimensions, refer to specific bucket width and overall length on pages 4 through 8.

WEIGHT ADJUSTMENTS

Select Options	Weight Adjustment	Tipping Load Adjustment Straight	Tipping Load Adjustment 40° Turn
20.5 x 25 12 ply L2 Bias tires	-336 lb (153 kg)	-360 lb (-163 kg)	-718 lb (-326 kg)
20.5 x 25 12 ply L3 Bias tires	+236 lb (+107 kg)	+499 lb (+226 kg)	+536 lb (+243 kg)
20.5-R25 L3 Radial tires	+256 lb (+116 kg)	+258 lb (+117 kg)	+216 lb (+98 kg)
20.5-R25 Snow Radial Tires	+124 lb (+56 kg)	+84 lb (+38 kg)	+76 lb (+34 kg)
20.5-R25 Solid Tires Req. Diff Axles, Ltd Speed Controller	+5,038 lb (+2 285 kg)	+2,949 lb (+1 338 kg)	+2,893 lb (+1 312 kg)
Base counterweight	-811 lb (-368 kg)	-1,773 lb (-804 kg)	-1,416 lb (-642 kg)

NOTE: Unit equipped with Z-Bar loader arms, 2.5 yd³ (1.9 m³) general purpose pin on bucket with bolt-on edge, 20.5-R25 Michelin XTLA (L2 Radial) tires, ROPS cab with heater and air conditioner, full counterweight, standard batteries, front and rear fenders, full fuel and 165 lb (79 kg) operator. Adjust select options from rated weight.

PERFORMANCE SPECS

621G Z-Bar*	2.5 yd³ GP (1.9 m³) Bucket with Bolt-on Edge	2.4 yd³ GP (1.8 m³) Bucket with Teeth Only	2.75 yd³ GP (2.1 m³) Bucket with Bolt-on Edge
Operating weight	27,837 lb (12 627 kg)	27,757 lb (12 591 kg)	27,903 lb (12 657 kg)
SAE bucket capacity – struck	2.15 yd³ (1.64 m³)	2.05 yd³ (1.57 m³)	2.32 yd³ (1.77 m³)
Heaped	2.50 yd³ (1.91 m³)	2.40 yd³ (1.83 m³)	2.75 yd³ (2.10 m³)
Bucket width – outside	102.4 in (2 602 mm)	102.1 in (2 593 mm)	102.4 in (2 602 mm)
Bucket weight	1,796 lb (814 kg)	1,716 lb (778 kg)	1,862 lb (844 kg)
E. Operating height – fully raised with spillguard	194.5 in (4 939 mm)	194.5 in (4 939 mm)	195.5 in (4 967 mm)
F. Hinge pin height – fully raised	150.9 in (3 832 mm)	150.9 in (3 832 mm)	150.9 in (3 832 mm)
G. Overall length – bucket level on ground	285.0 in (7 238 mm)	290.7 in (7 383 mm)	287.9 in (7 314 mm)
Dump angle – fully raised	51°	51°	51°
H. Dump height – fully raised, 45° dump	114.1 in (2 897 mm)	110.4 in (2 803 mm)	112.1 in (2 847 mm)
J. Bucket reach – fully raised, 45° dump	36.2 in (919 mm)	40.3 in (1 024 mm)	38.1 in (968 mm)
K. Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump	57.8 in (1 468 mm)	60.1 in (1 527 mm)	58.8 in (1 494 mm)
Operating load – ISO Rigid Tires	10,641 lb (4 827 kg)	10,776 lb (4 888 kg)	10,512 lb (4 768 kg)
Operating load – ISO Deflected Tires	9,592 lb (4 351 kg)	9,715 lb (4 407 kg)	9,471 lb (4 296 kg)
Maximum material density – ISO Rigid Tires	4,256 lb/yd³ (2 526 kg/m³)	4,490 lb/yd³ (2 664 kg/m³)	3,823 lb/yd³ (2 268 kg/m³)
Maximum material density – ISO Deflected Tires	3,837 lb/yd³ (2 277 kg/m³)	4,048 lb/yd³ (2 402 kg/m³)	3,444 lb/yd³ (2 044 kg/m³)
Tipping load – ISO Rigid Tires:			
Straight	24,419 lb (11 076 kg)	24,715 lb (11 210 kg)	24,136 lb (10 948 kg)
40° turn	21,282 lb (9 653 kg)	21,553 lb (9 776 kg)	21,024 lb (9 536 kg)
Tipping load – ISO Deflected Tires:			
Straight	22,620 lb (10 260 kg)	22,893 lb (10 384 kg)	22,352 lb (10 139 kg)
40° turn	19,185 lb (8 702 kg)	19,431 lb (8 814 kg)	18,943 lb (8 592 kg)
Lift capacity:			
Full height	16,395 lb (7 437 kg)	16,483 lb (7 477 kg)	16,320 lb (7 403 kg)
Ground	25,169 lb (11 416 kg)	26,558 lb (12 046 kg)	23,798 lb (10 795 kg)
Breakout force with tilt cylinder	27,282 lb (12 375 kg)	29,185 lb (13 238 kg)	25,488 lb (11 561 kg)
Maximum rollback:			
Ground	40°	40°	40°
Carry position	46°	46°	46°
@ Full height	55°	55°	55°
L. Dig depth	2.9 in (73 mm)	3.0 in (77 mm)	3.1 in (79 mm)
Maximum grading angle with bucket – back dragging	58°	59°	59°
Loader clearance circle with bucket	452.7 in (11 497 mm)	455.5 in (11 570 mm)	454.3 in (11 540 mm)

621G XR	2.5 yd³ GP (1.9 m³) Bucket with Bolt-on Edge	2.4 yd³ GP (1.8 m³) Bucket with Teeth Only	2.75 yd³ GP (2.1 m³) Bucket with Bolt-on Edge
Operating Weight	28,227 lb (12 803 kg)	28,147 lb (12 767 kg)	28,293 lb (12 833 kg)
E. Operating height – fully raised with spillguard	211.2 in (5 364 mm)	211.2 in (5 364 mm)	212.2 in (5 391 mm)
F. Hinge pin height – fully raised	167.6 in (4 256 mm)	167.6 in (4 256 mm)	167.6 in (4 256 mm)
G. Overall length – bucket level on ground	301.1 in (7 649 mm)	306.8 in (7 793 mm)	304.1 in (7 723 mm)
Dump angle – fully raised	45°	45°	45°
H. Dump height – fully raised, 45° dump	130.8 in (3 322 mm)	127.1 in (3 228 mm)	128.8 in (3 273 mm)
J. Bucket reach – fully raised, 45° dump	36.2 in (919 mm)	40.4 in (1 025 mm)	38.2 in (969 mm)
K. Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump	71.7 in (1 820 mm)	74.2 in (1 885 mm)	72.8 in (1 849 mm)
Operating load – ISO Rigid Tires	8,878 lb (4 027 kg)	8,987 lb (4 077 kg)	8,776 lb (3 981 kg)
Operating load – ISO Deflected Tires	8,101 lb (3 674 kg)	8,203 lb (3 721 kg)	8,004 lb (3 631 kg)
Maximum material density – ISO Rigid Tires	3,551 lb/yd³ (2 107 kg/m³)	3,745 lb/yd³ (2 222 kg/m³)	3,191 lb/yd³ (1 894 kg/m³)
Maximum material density – ISO Deflected Tires	3,240 lb/yd³ (1 923 kg/m³)	3,418 lb/yd³ (2 028 kg/m³)	2,911 lb/yd³ (1 727 kg/m³)
Tipping load – ISO Rigid Tires:			
Straight	20,471 lb (9 286 kg)	20,709 lb (9 393 kg)	20,249 lb (9 185 kg)
40° turn	17,755 lb (8 054 kg)	17,975 lb (8 153 kg)	17,552 lb (7 961 kg)
Tipping load – ISO Deflected Tires:			
Straight	19,166 lb (8 693 kg)	19,389 lb (8 795 kg)	18,953 lb (8 597 kg)
40° turn	16,202 lb (7 349 kg)	16,406 lb (7 441 kg)	16,009 lb (7 261 kg)
Lift capacity:			
Full height	15,904 lb (7 214 kg)	15,989 lb (7 253 kg)	15,833 lb (7 182 kg)
Ground	25,813 lb (11 708 kg)	26,030 lb (11 807 kg)	25,583 lb (11 604 kg)
Breakout force with tilt cylinder	28,093 lb (12 743 kg)	30,034 lb (13 623 kg)	26,229 lb (11 897 kg)
Loader clearance circle with bucket	467.9 in (11 884 mm)	471.3 in (11 970 mm)	469.8 in (11 933 mm)

PERFORMANCE SPECS

621G Z-Bar*	2.6 yd³ GP (2.0 m³) Bucket with Teeth Only	3.0 yd³ GP (2.3 m³) Bucket with Bolt-on Edge	3.0 yd³ GP (2.3 m³) Bucket with Grapple with Bolt-on Edge
Operating weight	27,823 lb (12 621 kg)	27,998 lb (12 700 kg)	29,756 lb (13 497 kg)
SAE bucket capacity – struck	2.22 yd³ (1.70 m³)	2.56 yd³ (1.96 m³)	2.56 yd³ (1.96 m³)
Heaped	2.60 yd³ (1.99 m³)	3.00 yd³ (2.29 m³)	3.00 yd³ (2.29 m³)
Bucket width – outside	102.1 in (2 593 mm)	102.4 in (2 602 mm)	102.4 in (2 602 mm)
Bucket weight	1,782 lb (808 kg)	1,957 lb (888 kg)	3,715 lb (1 685 kg)
E. Operating height – fully raised with spillguard	195.5 in (4 967 mm)	198.5 in (5 043 mm)	256.5 in (6 516 mm)
F. Hinge pin height – fully raised	150.9 in (3 832 mm)	150.9 in (3 832 mm)	150.8 in (3 829 mm)
G. Overall length – bucket level on ground	293.6 in (7 459 mm)	290.6 in (7 381 mm)	290.7 in (7 384 mm)
Dump angle – fully raised	51°	51°	51°
H. Dump height – fully raised, 45° dump	108.4 in (2 753 mm)	110.3 in (2 803 mm)	110.2 in (2 800 mm)
J. Bucket reach – fully raised, 45° dump	42.3 in (1 074 mm)	39.9 in (1 013 mm)	39.9 in (1 013 mm)
K. Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump	61.0 in (1 550 mm)	59.7 in (1 516 mm)	59.6 in (1 514 mm)
Operating load – ISO Rigid Tires	10,626 lb (4 820 kg)	10,371 lb (4 704 kg)	9,538 lb (4 326 kg)
Operating load – ISO Deflected Tires	9,575 lb (4 343 kg)	9,334 lb (4 234 kg)	8,477 lb (3 845 kg)
Maximum material density – ISO Rigid Tires	4,087 lb/yd³ (2 425 kg/m³)	3,457 lb/yd³ (2 051 kg/m³)	3,179 lb/yd³ (1 886 kg/m³)
Maximum material density – ISO Deflected Tires	3,683 lb/yd³ (2 185 kg/m³)	3,111 lb/yd³ (1 846 kg/m³)	2,826 lb/yd³ (1 677 kg/m³)
Tipping load – ISO Rigid Tires:			
Straight	24,381 lb (11 059 kg)	23,827 lb (10 808 kg)	22,161 lb (10 052 kg)
40° turn	21,251 lb (9 639 kg)	20,742 lb (9 408 kg)	19,076 lb (8 653 kg)
Tipping load – ISO Deflected Tires:			
Straight	22,579 lb (10 242 kg)	22,050 lb (10 002 kg)	20,345 lb (9 229 kg)
40° turn	19,150 lb (8 686 kg)	18,668 lb (8 467 kg)	16,953 lb (7 690 kg)
Lift capacity:			
Full height	16,407 lb (7 442 kg)	16,218 lb (7 356 kg)	14,467 lb (6 562 kg)
Ground	24,780 lb (11 240 kg)	22,301 lb (10 115 kg)	20,345 lb (9 228 kg)
Breakout force with tilt cylinder	27,152 lb (12 316 kg)	24,032 lb (10 901 kg)	22,250 lb (10 092 kg)
Maximum rollback:			
Ground	41°	41°	41°
Carry position	46°	46°	46°
@ Full height	55°	55°	55°
L. Dig depth	3.3 in (84 mm)	3.3 in (85 mm)	3.5 in (88 mm)
Maximum grading angle with bucket – back dragging	60°	59°	59°
Loader clearance circle with bucket	457.2 in (11 614 mm)	455.8 in (11 578 mm)	455.9 in (11 579 mm)

621G XR	2.6 yd³ GP (2.0 m³) Bucket with Teeth Only	3.0 yd³ GP (2.3 m³) Bucket with Bolt-on Edge	3.0 yd³ GP (2.3 m³) Bucket with Grapple with Bolt-on Edge
Operating weight	28,213 lb (12 797 kg)	28,388 lb (12 877 kg)	30,146 lb (13 674 kg)
E. Operating height – fully raised with spillguard	212.2 in (5 391 mm)	215.3 in (5 467 mm)	273.2 in (6 940 mm)
F. Hinge pin height – fully raised	167.6 in (4 257 mm)	167.6 in (4 256 mm)	167.5 in (4 254 mm)
G. Overall length – bucket level on ground	309.7 in (7 868 mm)	306.7 in (7 790 mm)	306.8 in (7 792 mm)
Dump angle – fully raised	45°	45°	45°
H. Dump height – fully raised, 45° dump	125.1 in (3 178 mm)	127.0 in (3 227 mm)	126.9 in (3 224 mm)
J. Bucket reach – fully raised, 45° dump	42.3 in (1 075 mm)	39.9 in (1 014 mm)	39.9 in (1 014 mm)
K. Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump	75.3 in (1 912 mm)	73.8 in (1 873 mm)	73.7 in (1 872 mm)
Operating load – ISO Rigid Tires	8,870 lb (4 024 kg)	8,663 lb (3 929 kg)	7,828 lb (3 551 kg)
Operating load – ISO Deflected Tires	8,092 lb (3 671 kg)	7,893 lb (3 580 kg)	7,038 lb (3 192 kg)
Maximum material density – ISO Rigid Tires	3,412 lb/yd³ (2 024 kg/m³)	2,888 lb/yd³ (1 713 kg/m³)	2,609 lb/yd³ (1 548 kg/m³)
Maximum material density – ISO Deflected Tires	3,112 lb/yd³ (1 847 kg/m³)	2,631 lb/yd³ (1 561 kg/m³)	2,346 lb/yd³ (1 392 kg/m³)
Tipping load – ISO Rigid Tires:			
Straight	20,452 lb (9 277 kg)	20,004 lb (9 074 kg)	18,335 lb (8 316 kg)
40° turn	17,741 lb (8 047 kg)	17,326 lb (7 859 kg)	15,646 lb (7 102 kg)
Tipping load – ISO Deflected Tires:			
Straight	19,144 lb (8 684 kg)	18,711 lb (8 487 kg)	17,010 lb (7 716 kg)
40° turn	16,185 lb (7 341 kg)	15,786 lb (7 160 kg)	14,076 lb (6 385 kg)
Lift capacity:			
Full height	15,918 lb (7 220 kg)	15,735 lb (7 137 kg)	13,984 lb (6 343 kg)
Ground	25,765 lb (11 687 kg)	25,298 lb (11 475 kg)	23,510 lb (10 664 kg)
Breakout force with tilt cylinder	27,925 lb (12 667 kg)	24,717 lb (11 212 kg)	22,926 lb (10 399 kg)
Loader clearance circle with bucket	473.3 in (12 021 mm)	471.6 in (11 978 mm)	471.6 in (11 979 mm)

PERFORMANCE SPECS

621G Z-Bar*	4.5 yd³ (3.4 m³) Bucket with Bolt-on Edge	2.5 yd³ GP Pin On (1.9 m³) Bucket (JRB-Compatible) with Bolt-on Edge	2.4 yd³ GP Pin On (1.8 m³) Bucket (JRB-Compatible) with Teeth Only
Operating weight	28,522 lb (12 937 kg)	28,674 lb (13 006 kg)	28,596 lb (12 971 kg)
SAE bucket capacity – struck	3.71 yd ³ (2.84 m ³)	2.15 yd ³ (1.64 m ³)	2.05 yd ³ (1.57 m ³)
Heaped	4.50 yd ³ (3.44 m ³)	2.50 yd ³ (1.91 m ³)	2.40 yd ³ (1.83 m ³)
Bucket width – outside	102.4 in (2 602 mm)	102.4 in (2 602 mm)	102.1 in (2 593 mm)
Bucket weight	2,480 lb (1 125 kg)	2,632 lb (1 194 kg)	2,554 lb (1 158 kg)
E. Operating height – fully raised with spillguard	212.9 in (5 407 mm)	200.3 in (5 088 mm)	200.3 in (5 088 mm)
F. Hinge pin height – fully raised	150.8 in (3 831 mm)	150.8 in (3 831 mm)	150.8 in (3 831 mm)
G. Overall length – bucket level on ground	303.0 in (7 695 mm)	293.7 in (7 461 mm)	299.4 in (7 605 mm)
Dump angle – fully raised	50°	51°	51°
H. Dump height – fully raised, 45° dump	102.2 in (2 595 mm)	108.4 in (2 754 mm)	104.7 in (2 660 mm)
J. Bucket reach – fully raised, 45° dump	48.0 in (1 219 mm)	42.8 in (1 088 mm)	47.0 in (1 194 mm)
K. Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump	63.0 in (1 600 mm)	61.6 in (1 564 mm)	63.6 in (1 616 mm)
Operating load – ISO Rigid Tires	10,192 lb (4 623 kg)	9,569 lb (4 340 kg)	9,689 lb (4 395 kg)
Operating load – ISO Deflected Tires	9,114 lb (4 134 kg)	8,590 lb (3 896 kg)	8,698 lb (3 945 kg)
Maximum material density – ISO Rigid Tires	2,265 lb/yd ³ (1 344 kg/m ³)	3,828 lb/yd ³ (2 271 kg/m ³)	4,037 lb/yd ³ (2 396 kg/m ³)
Maximum material density – ISO Deflected Tires	2,025 lb/yd ³ (1 202 kg/m ³)	3,436 lb/yd ³ (2 039 kg/m ³)	3,624 lb/yd ³ (2 151 kg/m ³)
Tipping load – ISO Rigid Tires:			
Straight	23,504 lb (10 661 kg)	22,076 lb (10 013 kg)	22,338 lb (10 132 kg)
40° turn	20,383 lb (9 246 kg)	19,138 lb (8 681 kg)	19,379 lb (8 790 kg)
Tipping load – ISO Deflected Tires:			
Straight	21,653 lb (9 822 kg)	20,404 lb (9 255 kg)	20,645 lb (9 364 kg)
40° turn	18,228 lb (8 268 kg)	17,179 lb (7 792 kg)	17,396 lb (7 891 kg)
Lift capacity:			
Full height	15,746 lb (7 142 kg)	15,515 lb (7 037 kg)	15,600 lb (7 076 kg)
Ground	21,826 lb (9 900 kg)	16,921 lb (7 675 kg)	17,645 lb (8 004 kg)
Breakout force with tilt cylinder	18,285 lb (8 294 kg)	21,898 lb (9 933 kg)	23,165 lb (10 507 kg)
Maximum rollback:			
Ground	42°	40°	40°
Carry position	47°	46°	46°
@ Full height	55°	55°	55°
L. Dig depth	4.4 in (112 mm)	2.9 in (74 mm)	3.1 in (78 mm)
Maximum grading angle with bucket – back dragging	64°	60°	62°
Loader clearance circle with bucket	462.9 in (11 758 mm)	457.6 in (11 622 mm)	460.6 in (11 699 mm)

621G XR	4.5 yd³ (3.4 m³) Bucket with Bolt-on Edge	2.5 yd³ GP Pin On (1.9 m³) Bucket (JRB-Compatible) with Bolt-on Edge	2.4 yd³ GP Pin On (1.8 m³) Bucket (JRB-Compatible) with Teeth Only
Operating weight	28,911 lb (13 114 kg)	29,063 lb (13 183 kg)	28,985 lb (13 147 kg)
E. Operating height – fully raised with spillguard	229.6 in (5 831 mm)	217.0 in (5 513 mm)	217.0 in (5 513 mm)
F. Hinge pin height – fully raised	167.5 in (4 255 mm)	167.5 in (4 255 mm)	167.5 in (4 255 mm)
G. Overall length – bucket level on ground	318.9 in (8 100 mm)	309.9 in (7 871 mm)	315.6 in (8 015 mm)
Dump angle – fully raised	45°	45°	45°
H. Dump height – fully raised, 45° dump	119.1 in (3 026 mm)	125.1 in (3 178 mm)	121.4 in (3 084 mm)
J. Bucket reach – fully raised, 45° dump	48.3 in (1 228 mm)	42.9 in (1 089 mm)	47.1 in (1 195 mm)
K. Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump	77.8 in (1 975 mm)	75.8 in (1 926 mm)	78.2 in (1 986 mm)
Operating load – ISO Rigid Tires	8,464 lb (3 839 kg)	7,997 lb (3 627 kg)	8,097 lb (3 673 kg)
Operating load – ISO Deflected Tires	7,666 lb (3 477 kg)	7,264 lb (3 295 kg)	7,356 lb (3 337 kg)
Maximum material density – ISO Rigid Tires	1,881 lb/yd ³ (1 116 kg/m ³)	3,199 lb/yd ³ (1 898 kg/m ³)	3,374 lb/yd ³ (2 002 kg/m ³)
Maximum material density – ISO Deflected Tires	1,704 lb/yd ³ (1 011 kg/m ³)	2,906 lb/yd ³ (1 724 kg/m ³)	3,065 lb/yd ³ (1 819 kg/m ³)
Tipping load – ISO Rigid Tires:			
Straight	19,634 lb (8 906 kg)	18,563 lb (8 420 kg)	18,778 lb (8 518 kg)
40° turn	16,927 lb (7 678 kg)	15,994 lb (7 255 kg)	16,193 lb (7 345 kg)
Tipping load – ISO Deflected Tires:			
Straight	18,291 lb (8 297 kg)	17,336 lb (7 863 kg)	17,538 lb (7 955 kg)
40° turn	15,332 lb (6 954 kg)	14,528 lb (6 590 kg)	14,712 lb (6 673 kg)
Lift capacity:			
Full height	15,253 lb (6 918 kg)	15,047 lb (6 825 kg)	15,129 lb (6 862 kg)
Ground	24,853 lb (11 273 kg)	23,838 lb (10 813 kg)	24,045 lb (10 907 kg)
Breakout force with tilt cylinder	18,749 lb (8 504 kg)	22,569 lb (10 237 kg)	23,861 lb (10 823 kg)
Loader clearance circle with bucket	478.5 in (12 153 mm)	473.3 in (12 023 mm)	476.8 in (12 112 mm)

PERFORMANCE SPECS

621G Z-Bar*	2.5 yd³ (1.9 m³) Bucket (ACS-Compatible) with Bolt-on Edge	2.4 yd³ (1.8 m³) Bucket (ACS-Compatible) with Teeth Only
Operating weight	28,853 lb (13 087 kg)	28,772 lb (13 051 kg)
SAE bucket capacity – struck	2.15 yd³ (1.64 m³)	2.05 yd³ (1.57 m³)
Heaped	2.5 yd³ (1.91 m³)	2.4 yd³ (1.83 m³)
Bucket width – outside	102.4 in (2 602 mm)	102.1 in (2 593 mm)
Bucket weight	2,811 lb (1 275 kg)	2,731 lb (1 239 kg)
E. Operating height – fully raised with spillguard	199.1 in (5 058 mm)	199.1 in (5 058 mm)
F. Hinge pin height – fully raised	150.8 in (3 831 mm)	150.8 in (3 831 mm)
G. Overall length – bucket level on ground	292.1 in (7 419 mm)	297.8 in (7 563 mm)
Dump angle – fully raised	51°	51°
H. Dump height – fully raised, 45° dump	109.5 in (2 780 mm)	105.8 in (2 687 mm)
J. Bucket reach – fully raised, 45° dump	41.6 in (1 056 mm)	45.7 in (1 161 mm)
K. Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump	60.9 in (1 547 mm)	63.0 in (1 599 mm)
Operating load – ISO Rigid Tires	9,611 lb (4 360 kg)	9,732 lb (4 415 kg)
Operating load – ISO Deflected Tires	8,620 lb (3 910 kg)	8,730 lb (3 960 kg)
Maximum material density – ISO Rigid Tires	3,845 lb/yd³ (2 281 kg/m³)	4,055 lb/yd³ (2 406 kg/m³)
Maximum material density – ISO Deflected Tires	3,448 lb/yd³ (2 046 kg/m³)	3,638 lb/yd³ (2 158 kg/m³)
Tipping load – ISO Rigid Tires:		
Straight	22,197 lb (10 069 kg)	22,461 lb (10 188 kg)
40° turn	19,223 lb (8 719 kg)	19,465 lb (8 829 kg)
Tipping load – ISO Deflected Tires:		
Straight	20,502 lb (9 300 kg)	20,747 lb (9 410 kg)
40° turn	17,239 lb (7 820 kg)	17,460 lb (7 920 kg)
Lift capacity:		
Full height	15,348 lb (6 962 kg)	15,435 lb (7 001 kg)
Ground	17,931 lb (8 133 kg)	18,728 lb (8 495 kg)
Breakout force with tilt cylinder	22,637 lb (10 268 kg)	24,005 lb (10 888 kg)
Maximum rollback:		
Ground	42°	42°
Carry position	47°	47°
@ Full height	55°	55°
L. Dig depth	2.9 in (75 mm)	3.1 in (79 mm)
Maximum grading angle with bucket – back dragging	60°	61°
Loader clearance circle with bucket	456.6 in (11 598 mm)	459.6 in (11 674 mm)

621G XR	2.5 yd³ GP (1.9 m³) Bucket (ACS-Compatible) with Bolt-on Edge	2.4 yd³ GP (1.8 m³) Bucket (ACS-Compatible) with Teeth Only
Operating weight	29,242 lb (13 264 kg)	29,162 lb (13 228 kg)
E. Operating height – fully raised with spillguard	215.8 in (5 482 mm)	215.8 in (5 482 mm)
F. Hinge pin height – fully raised	167.5 in (4 255 mm)	167.5 in (4 255 mm)
G. Overall length – bucket level on ground	308.2 in (7 829 mm)	313.9 in (7 973 mm)
Dump angle – fully raised	45°	45°
H. Dump height – fully raised, 45° dump	126.2 in (3 205 mm)	122.5 in (3 111 mm)
J. Bucket reach – fully raised, 45° dump	41.6 in (1 057 mm)	45.7 in (1 162 mm)
K. Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump	75.1 in (1 906 mm)	77.4 in (1 966 mm)
Operating load – ISO Rigid Tires	8,004 lb (3 631 kg)	8,104 lb (3 676 kg)
Operating load – ISO Deflected Tires	7,263 lb (3 294 kg)	7,356 lb (3 337 kg)
Maximum material density – ISO Rigid Tires	3,202 lb/yd³ (1 900 kg/m³)	3,377 lb/yd³ (2 004 kg/m³)
Maximum material density – ISO Deflected Tires	2,905 lb/yd³ (1 724 kg/m³)	3,065 lb/yd³ (1 818 kg/m³)
Tipping load – ISO:		
Straight	18,604 lb (8 438 kg)	18,820 lb (8 536 kg)
40° turn	16,008 lb (7 261 kg)	16,208 lb (7 352 kg)
Tipping load – SAE:		
Straight	17,362 lb (7 875 kg)	17,565 lb (7 967 kg)
40° turn	14,526 lb (6 589 kg)	14,712 lb (6 673 kg)
Lift capacity:		
Full height	14,874 lb (6 747 kg)	14,958 lb (6 785 kg)
Ground	23,892 lb (10 837 kg)	24,100 lb (10 932 kg)
Breakout force with tilt cylinder	23,334 lb (10 584 kg)	24,728 lb (11 216 kg)
Loader clearance circle with bucket	472.3 in (11 996 mm)	475.7 in (12 084 mm)

PERFORMANCE SPECS

621G Z-Bar*	3.0 yd ³ GP Pin-on (2.3 m ³) Bucket (JRB-Compatable) with Bolt-on Edge	2.8 yd ³ GP Pin-on (2.1 m ³) Bucket (JRB-Compatable) with Teeth Only	3.0 yd ³ GP (2.3 m ³) Bucket (ACS-Compatable) with Bolt-on Edge	2.8 yd ³ GP (2.1 m ³) Bucket (ACS-Compatable) with Teeth Only
Operating weight	28,863 lb (13 092 kg)	28,783 lb (13 056 kg)	29,066 lb (13 184 kg)	28,986 lb (13 148 kg)
SAE bucket capacity – struck	2.60 yd ³ (1.99 m ³)	2.40 yd ³ (1.83 m ³)	2.60 yd ³ (1.99 m ³)	2.40 yd ³ (1.83 m ³)
Heaped	3.00 yd ³ (2.29 m ³)	2.80 yd ³ (2.14 m ³)	3.00 yd ³ (2.29 m ³)	2.80 yd ³ (2.14 m ³)
Bucket width – outside	102.4 in (2 602 mm)	102.1 in (2 593 mm)	102.4 in (2 602 mm)	102.1 in (2 593 mm)
Bucket weight	2,821 lb (1 280 kg)	2,741 lb (1 243 kg)	3,024 lb (1 372 kg)	2,944 lb (1 335 kg)
E. Operating height – fully raised with spillguard	205.0 in (5 208 mm)	205.0 in (5 208 mm)	203.6 in (5 171 mm)	203.6 in (5 171 mm)
F. Hinge pin height – fully raised	150.8 in (3 831 mm)	150.8 in (3 831 mm)	150.8 in (3 830 mm)	150.8 in (3 830 mm)
G. Overall length – bucket level on ground	299.3 in (7 602 mm)	305.0 in (7 747 mm)	297.3 in (7 552 mm)	303.0 in (7 697 mm)
Dump angle – fully raised	51°	51°	51°	51°
H. Dump height – fully raised, 45° dump	104.8 in (2 663 mm)	101.1 in (2 569 mm)	106.1 in (2 695 mm)	102.4 in (2 601 mm)
J. Bucket reach – fully raised, 45° dump	47.1 in (1 196 mm)	51.3 in (1 302 mm)	45.6 in (1 158 mm)	49.7 in (1 263 mm)
K. Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump	63.8 in (1 620 mm)	65.6 in (1 666 mm)	63.0 in (1 600 mm)	64.9 in (1 648 mm)
Operating load – ISO Rigid Tires	9,794 lb (4 442 kg)	9,469 lb (4 295 kg)	9,400 lb (4 264 kg)	9,528 lb (4 322 kg)
Operating load – ISO Deflected Tires	8,791 lb (3 988 kg)	8,482 lb (3 847 kg)	8,409 lb (3 814 kg)	8,526 lb (3 867 kg)
Maximum material density – ISO Rigid Tires	3,265 lb/yd ³ (1 937 kg/m ³)	3,382 lb/yd ³ (2 007 kg/m ³)	3,133 lb/yd ³ (1 859 kg/m ³)	3,403 lb/yd ³ (2 019 kg/m ³)
Maximum material density – ISO Deflected Tires	2,930 lb/yd ³ (1 739 kg/m ³)	3,029 lb/yd ³ (1 797 kg/m ³)	2,803 lb/yd ³ (1 663 kg/m ³)	3,045 lb/yd ³ (1 807 kg/m ³)
Tipping load – ISO Rigid Tires:				
Straight	22,652 lb (10 275 kg)	21,862 lb (9 916 kg)	21,743 lb (9 863 kg)	22,023 lb (9 990 kg)
40° turn	19,587 lb (8 885 kg)	18,938 lb (8 590 kg)	18,799 lb (8 527 kg)	19,056 lb (8 644 kg)
Tipping load – ISO Deflected Tires:				
Straight	20,943 lb (9 500 kg)	20,176 lb (9 152 kg)	20,050 lb (9 095 kg)	20,310 lb (9 212 kg)
40° turn	17,583 lb (7 975 kg)	16,963 lb (7 694 kg)	16,818 lb (7 628 kg)	17,052 lb (7 734 kg)
Lift capacity:				
Full height	15,349 lb (6 962 kg)	15,403 lb (6 987 kg)	15,126 lb (6 861 kg)	15,214 lb (6 901 kg)
Ground	20,843 lb (9 454 kg)	16,126 lb (7 315 kg)	16,492 lb (7 481 kg)	17,293 lb (7 844 kg)
Breakout force with tilt cylinder	18,869 lb (8 559 kg)	20,531 lb (9 313 kg)	20,214 lb (9 169 kg)	21,317 lb (9 669 kg)
Maximum rollback:				
Ground	40°	40°	40°	40°
Carry position	46°	46°	46°	46°
@ Full height	55°	55°	55°	55°
L. Dig depth	2.9 in (75 mm)	3.1 in (79 mm)	3.0 in (75 mm)	3.1 in (79 mm)
Maximum grading angle with bucket – back dragging	62°	64°	61°	63°
Loader clearance circle with bucket	460.8 in (11 705 mm)	463.9 in (11 784 mm)	459.7 in (11 675 mm)	462.8 in (11 754 mm)

NOTE: *Z-Bar performance data shown with full counterweight.

Performance data unit equipped with 20.5-R25 Michelin XTLA (L2 Radial) tires, ROPS cab with heater and A/C, full counterweight, standard batteries, front and rear fenders, full fuel and 165 lb (75 kg) operator. Specifications per SAE J732, J1234, J695, J742 and J818.

PERFORMANCE SPECS

621G XT	2.5 yd³ GP (1.9 m³) Bucket (JRB-Compatable) with Bolt-on Edge	2.4 yd³ GP (1.8 m³) Bucket (JRB-Compatable) with Teeth Only	2.5 yd³ GP (1.9 m³) Bucket (ACS-Compatable) with Bolt-on Edge	2.5 yd³ GP (1.9 m³) Bucket (ACS-Compatable) with Teeth Only
Operating weight	29,076 lb (13 188 kg)	28,997 lb (13 153 kg)	29,383 lb (13 328 kg)	29,305 lb (13 293 kg)
E. Operating height – fully raised with spillguard	212.0 in (5 384 mm)	212.0 in (5 384 mm)	207.6 in (5 272 mm)	207.6 in (5 272 mm)
F. Hinge pin height – fully raised	155.8 in (3 958 mm)	155.8 in (3 958 mm)	155.8 in (3 958 mm)	155.8 in (3 958 mm)
G. Overall length – bucket level on ground	302.3 in (7 678 mm)	307.8 in (7 818 mm)	296.6 in (7 534 mm)	302.3 in (7 679 mm)
Dump angle – fully raised	55°	55°	55°	55°
H. Dump height – fully raised, 45° dump	107.8 in (2 738 mm)	104.2 in (2 647 mm)	111.4 in (2 830 mm)	107.7 in (2 736 mm)
J. Bucket reach – fully raised, 45° dump	51.3 in (1 304 mm)	55.3 in (1 405 mm)	47.0 in (1 194 mm)	51.1 in (1 299 mm)
K. Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump	70.2 in (1 782 mm)	72.0 in (1 829 mm)	67.8 in (1 723 mm)	69.9 in (1 776 mm)
Operating load – ISO Rigid Tires	8,777 lb (3 981 kg)	8,493 lb (3 852 kg)	9,022 lb (4 092 kg)	9,133 lb (4 143 kg)
Operating load – ISO Deflected Tires	7,829 lb (3 551 kg)	7,581 lb (3 439 kg)	8,040 lb (3 647 kg)	8,141 lb (3 693 kg)
Maximum material density – ISO Rigid Tires	3,511 lb/yd ³ (2 083 kg/m ³)	3,539 lb/yd ³ (2 100 kg/m ³)	3,609 lb/yd ³ (2 141 kg/m ³)	3,805 lb/yd ³ (2 258 kg/m ³)
Maximum material density – ISO Deflected Tires	3,132 lb/yd ³ (1 858 kg/m ³)	3,159 lb/yd ³ (1 874 kg/m ³)	3,216 lb/yd ³ (1 908 kg/m ³)	3,392 lb/yd ³ (2 013 kg/m ³)
Tipping load – ISO Rigid Tires:				
Straight	20,258 lb (9 189 kg)	19,587 lb (8 884 kg)	20,850 lb (9 458 kg)	21,091 lb (9 567 kg)
40° turn	17,555 lb (7 963 kg)	16,985 lb (7 704 kg)	18,043 lb (8 184 kg)	18,265 lb (8 285 kg)
Tipping load – ISO Deflected Tires				
Straight	18,648 lb (8 458 kg)	18,042 lb (8 184 kg)	19,178 lb (8 699 kg)	19 401 lb (8 800 kg)
40° turn	15,659 lb (7 103 kg)	15,161 lb (6 877 kg)	16,080 lb (7 294 kg)	16,282 lb (7 385 kg)
Lift capacity:				
Full height	14,128 lb (6 409 kg)	13,939 lb (6 323 kg)	14,150 lb (6 418 kg)	14,290 lb (6 482 kg)
Ground	28,393 lb (12 879 kg)	24,435 lb (11 083 kg)	34,307 lb (15 561 kg)	35,895 lb (16 282 kg)
Breakout force with tilt cylinder	22,856 lb (10 367 kg)	24,079 lb (10 922 kg)	25,448 lb (11 543 kg)	26,844 lb (12 176 kg)
Loader clearance circle with bucket	453.6 in (11 520 mm)	455.6 in (11 573 mm)	451.2 in (11 462 mm)	453.3 in (11 514 mm)

STANDARD EQUIPMENT

OPERATOR ENVIRONMENT

See page 1

ENGINE

Case/FPT F4HFE613W
Tier 4 Final Certified
Selectable work modes:
 Maximum Power
 Standard Power
 Economy Power
 Auto Power
Turbocharger
Charge air cooling
Automatic belt tensioner
Integral engine oil cooling
Fuel filter with water trap
Dual-element dry-type air cleaner
Hydraulic-driven cooling fan
Air-cooled radiator
Mid-mounted cooling module
Common rail electronic fuel injection

LOADER

See page 2 – Operating weight,
Other specifications

DRIVETRAIN

4-wheel drive
4F/3R Selectable autoshift/manual
 shift transmission
Electronic Control Module – programmable,
 computer controlled proportional shifting
 with programmable gear selection

Onboard diagnostics
Single lever electronic shift control
F/N/R switch in loader control handle
Downshift button
Torque converter
Limited-slip differentials – Z-Bar
Outboard planetary axles
Transmission oil cooler
Brake pedal transmission
 disconnect – declutch
Hydraulic wet disc brakes
Spring-applied hydraulic release
 parking brake
Limp-Home Mode
Greaseable rear axle trunnion
3-piece rims

HYDRAULICS

Electro-hydraulic (EH) joystick loader control
Low-effort steering
Hydraulic driven cooling fan
Diagnostic quick couplers
Split flange hydraulic connections –
 1 in or greater
Hydraulic oil cooler

ELECTRICAL

Alternator and voltage regulator
Battery isolator/electrical disconnect
120 amp alternator
(2) 700 CCA 12-volt batteries
Electric starter
Lights:
 2 Front and 2 rear halogen flood lights
 2 Front driving headlights – high/low beam
 with integrated turn signals
 2 LED stop/tail lights with integrated
 turn signals
Key start/stop switch
Backup alarm
Centrally located fuse box
 with all electrical circuits protected
Remote jump start posts

OTHER

Electric hood lift
Front and rear fenders, partial coverage
Heavy counterweight
Drawbar hitch
Articulation locking bar
Lift arm locking bar
Lift and tie-down points – front/rear
Remote drain points
Grouped remote-mounted ecology drains:
 Engine oil
 Engine coolant
 Hydraulic oil

TELEMATICS

CASE SiteWatch™ Telematics – includes
 hardware and a 3-yr Advanced
 data subscription

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

Cloth-covered heated air-suspension seat
Leather trimmed heated air seat with active suspension
Cloth mechanical suspension seat
Headrest
3 in (76 mm) retractable seat belt
Sound Shield noise suppression package
Bluetooth radio, 12V AM/FM with auxiliary input
Radio-ready – 12 or 24-volt with auxiliary power – 12-volt
Cab convenience package:
Rear sun shade, interior mirror, under the seat drawer, coat hook, 12V accessory port, and an ash tray
LED rotating beacon
Rear view camera
External rear view mirrors
LED front and rear work lights
Extra front-facing LED work lights

DRIVETRAIN

Heavy-duty axles:
With locking front differential and open rear differential
Cold weather package:
Heavy-duty (2) 950 CCA 12V batteries
Grid heater
Fuel heater
Hydraulic oil cooler bypass
Low temperature hydraulic oil
Fast-warm hydraulic valve

HYDRAULICS

Auxiliary hydraulics
Ride Control
Secondary steering
Joystick steering with and without secondary steering
2-function loader valve with single access control
3-function loader valve with 3 lever control or with joystick plus lever

LOADER

XR extended reach version
XT tool carrier version
Attachment auxiliary hydraulics
Coupler systems – JRB or ACS compatible
Buckets – see pages 4 through 8
4 – 1 clamp buckets
Forks

TIRES

20.5-25 12 PR L2 bias – dirt/traction
20.5-25 12 PR L3 bias – rock
20.5-R25 L2 radial – dirt/traction
20.5-R25 L3 radial – rock
20.5-R25 radial Michelin SnoPlus
20.5-R25 radial Bridgestone Snow Wedge
SolidFlex HD solid tires on adapter rims
Spare wheels and tires
Axle oscillation stops

OTHER

Additional RH steps and platform with standard or wide fenders
Side guards for rear frame
Tool box – ground level access
Light counterweight – Z-Bar
Fire extinguisher
License plate bracket
12.4 mph (20 kph) maximum speed control
Special paint

ADVANCED ENGINE AIR FILTRATION

Heavy Debris cooling system:
Slanted cooling module cover
Auto reversing fan
Sy-Klone® ejective air pre-cleaner
Increased cooling fin spacing
Added cooling module sealing
Variable speed hydraulic reversing fan
Full view air pre-cleaner
Sy-Klone® ejective air pre-cleaner

GUARDING

Skid plate, transmission and front chassis bottom guards
Windscreen guard
Specialized guarding package:
Windscreen, articulation, front cover, chassis bottom, skid plate, transmission, lift cylinder, front lights, fuel tank, metal wrapped hoses and cylinder debris ejectors

