

# 651G

Z-BAR/XT/XR WHEEL LOADER

**TIER 4 FINAL CERTIFIED** 



ENGINE		
Make	FPT	
Model	F4HFE613W*B007	
Emissions Certi	ication Tier 4 Final	
Emissions Tech	nology SCR/DOC	
Туре	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 <sup>3</sup> (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 Fore and aft	35° 35°	
Air filter	Dry type elements w/ warning restriction indicator	

Mid-mount cooling module w/ auto reversing fan:
Mid-mount Air/Water w/ Lube Oil Cooler

Fan - hydraulic driven:	
Style	8 blade puller
Diameter	32 in (813 mm)
Water pump	Integral
Engine oil pump operating a	angle ratings:
Side-to-side	35°
Fore and aft	35°

Oil filtration	Replaceable
Engine speeds	RPM
Rated - full load	2000

Horsepower - Maximum Power:

Torque – Maximum Power:

Gross @ 1600 RPM 538 lb·ft (730 N·m)
Net @ 1600 RPM 510 lb·ft (692 N·m)

Net torque rise:

Maximum power range 29

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 – 4-speed	Forward/Reverse
1st	4.012/3.804
2nd	2.174/2.061
3rd	1.088/1.031
4th	0.619/ —
Gear ratios – 5-speed	Forward/Reverse
1st	4.320/4.097
2nd	2.191/2.078
3rd	1.418/0.895
4th	0.944/ —
5th	0.611/ —
Torque converter:	
Stall ratio - 4-speed	2.664:1
Stall ratio - 5-speed	2.376:1

## Differential:

Limited slip w/ 34% of available axle torque to wheel w/ traction

Rear axle oscillation	24° total
Front and rear axles:	
Differential ratio	3.18
Planetary ratio	6.40
Final axle ratio	20.34

## HD Axle Std.

Limited Slip Front / Limited Slip Rear

Optional HD Axles

Diff Lock Front / Open Rear Diff Lock Front / Limited Slip Rear

Planetaries	Outboard
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## Service brakes:

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

## Brake surface area:

Front hub – each 480 in² (0.31 m²) Rear hub – each 480 in² (0.31 m²)

## Parking brakes:

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

#### Travel speeds – 4-speed transmission:

Traver speeds - 4-spee	a transmissio	11.
	Forward	Reverse
	mph (kph)	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)	_

## Travel speeds – 5-speed transmission:

	Forward	Reverse
	mph (kph)	mph (kph)
1st	4.0 (6.5)	4.3 (6.9)
2nd	8.3 (13.3)	8.7 (14.0)
3rd	12.7 (20.5)	20.1 (32.4)
4th	19.1 (30.7)	_
5th	28.0 (45.0)	_

NOTE: Travel speeds at full engine throttle w/ 20.5-R25 (L3 Radial) tires.

## ELECTRICAL

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

## **OPERATOR ENVIRONMENT**

ROPS cab AC w/ heat: 8" LCD touchscreen display. adjustable armrest w/ 3 configurable buttons; Key start; Articulated power steering w/ tilt column; Fully adjustable, suspension seat w/ headrest; Foot throttle; Single lever (joystick) loader control w/ auxiliary function and fully adjustable wrist rest, 2 cup holders; Interior rear view mirror; 3 inch (76 mm) retractable high-visibility orange seat belt; Integrated 4-corner strobe; Multiple storage trays; Single brake pedal; F/N/R shuttle switch; Left and Right external side mirrors; Throttle Lock; Ride control Auto/On/ Off; 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; Radio ready - Includes antenna, speakers, wiring, radio fuse, 20A converter, 12-volt auxiliary power outlet, and USB outlet.

## 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; Diff. lock\*; DEF gauge.

## Audible/Visual alarms:

## Warning lights:

Four-way flashers and turn signals; Brake pressure; Lamp/high beam indication; Engine block 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 L3 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:

30,890 lb (14 012 kg)

Unit equipped w/ 2.5 yd3 (1.9 m3) CNH w/ edge and JRB coupler; 20.5-R25 L3 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:

31,291 lb (14 193 kg)

XR

Unit equipped w/ 2.5 yd3 (1.9 m3) Case pin on bucket w/ edge; 20.5-R25 L3 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:

31,746 lb (14 400 kg)

## **HYDRAULICS**

Pump - steering/implement: Closed center pressure/flow compensated

Variable displacement - load-sensing:

52.8 GPM @ 2000 RPM 190 L/min @ 2000 RPM

Loader control valve:

Closed-center, sectional 2, 3 or 4-function w/ control for lift, tilt and auxiliary hydraulics

Loader auxiliary steering:

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

High pressure standby:

Implement 3,625 psi (25 000 kPa) Steering 3,500 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	29.2 qt (27.6 L)	
Front and rear axle:		
Front axle	23.2 qt (22.0 L)	
Rear axle	23.2 qt (22.0 L)	
Front and rear axle – optional:		
Front axle	23.2 qt (22.0 L)	
Rear axle	23.2 qt (22.0 L)	
Engine oil w/ filter	14 qt (13.2 L)	
Cooling system	28.4 qt (26.8 L)	

## **OTHER SPECIFICATIONS**

Lift cylinder:

Bore diameter 4.7 in (120.6 mm) Rod diameter 2.5 in (63.5 mm) 31.0 in (787.6 mm) Stroke

Dump cylinder - Z-Bar and XR:

Bore diameter 5.0 in (127 mm) Rod diameter 3.0 in (76.2 mm) 24.4 in (619.7 mm) Stroke

Dump cylinder – XT:

4.5 in (114 mm) Bore diameter Rod diameter 2.5 in (63.5 mm) Stroke 32.6 in (819.9 mm)

Loader:

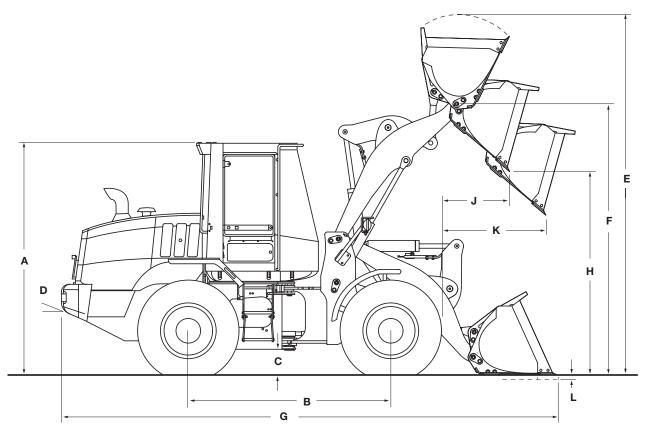
Z-Bar loader linkage; Single control for lift and tilt: Positive hold float: Automatic return-to-dig; Automatic height control; Automatic return-to-travel; Brake pedal transmission disconnect; Bucket position indicator on bucket.

Cycle time:

Cycle time.	
Raise w/ rated bucket load:	
Z-Bar	5.5 sec
XR	5.5 sec
XT	5.6 sec
Dump w/ rated bucket load:	
Z-Bar	1.1 sec
XR	1.1 sec
XT	2.3 sec
Float down:	
Z-Bar	4.3 sec
XR	4.3 sec
XT	4.1 sec
Sound level in Cab (LpA)	68 dB(A)
Exterior sound level (LwA)	104 dB(A)

NOTE: Sound level data tested in accordance with ISO6395, 6396, 3744.

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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 Tread width	97.6 in (2 478 mm) 76.8 in (1 950 mm)
Turning radius* – outside	205.6 in (5 223 mm)
Turning angle: From center Total angle	40° 80°
Rear axle oscillation – total	24°

NOTE: \*Dimensions taken with 20.5-R25 (L3 Radial) tires. For transport dimensions, refer to specific bucket width and overall length on pages 4 through 9.

WEIGHT ADJUSTMENTS				
Select Options	Weight Adjustment	Tipping Load Adjustment Straight: Deflected*	Tipping Load Adjustment 40° Turn: Deflected*	
20.5 x 25 12 ply L2 Bias tires	-592 lb (-269 kg)	-598 lb (-371 kg)	-1 693 lb (-768 kg)	
20.5 x 25 12 ply L3 Bias tires	-20 lb (-9 kg)	+299 lb (+136 kg)	+363 lb (+165 kg)	
20.5-R25 L2 Radial tires	-256 lb (-116 kg)	-259 lb (-117 kg)	-125 lb (-57 kg)	
20.5-R25 Snow Radial Tires	-132 lb (-60 kg)	-173 lb (-79 kg)	-43 lbs (-19 kg)	
20.5-R25 Solid Tires Req. Diff Axles, Ltd Speed Controler	+5,592 lb (+2 536 kg)	+5,219 lb (+2 367 kg)	+ 5,168 lb (+2 344 kg)	

NOTE: Unit equipped with Z-Bar loader arms, 2.75 yd³ (2.1 m³) general purpose pin on bucket with bolt-on edge, 20.5-R25 (L3 Radial) tires, ROPS cab with heater and air conditioner, heavy counterweight, standard batteries, front and rear fenders, full fuel and 165 lb (79 kg) operator. Adjust select options from rated weight. \*Tipping loads: ISO 14397-1 Deflected Tires.

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PERFORMANCE SPECS			,	
51G Z-Bar		3.0 yd <sup>3</sup> (2.3 m³) Bucket with Bolt-on Edge Pin On	2.75 yd³ (1.9 m³) Bucket with Bolt-on Edge Pin On	
Operating weight		30,993 lb (14 058 kg)	30,993 lb (14 058 kg)	
Operating height – fully raised with spillguard		202.7 in (5 148 mm)	199.7 in (5 073 mm)	
F. Hinge pin height – fully raised		155.0 in (3 938 mm)	155.0 in (3 938 mm)	
G. Overall length – bucket level on g	ground	290.7 in (7 383 mm)	288.0 in (7 316)	
Dump angle – fully raised		47°	47°	
H. Dump height - fully raised, 45° d	ump	114.5 in (2 909 mm)	116.3 in (2 953 mm)	
J. Bucket reach – fully raised, 45° c	lump	35 in (890 mm)	33.3 in (845 mm)	
K. Bucket reach - 7 ft 0 in (2.13 m)	height, 45° dump	59.5 in (1 511 mm)	58.6 in (1 490 mm)	
L. Dig depth		2.4 in (60 mm)	2.1 in (55 mm)	
Operating load – ISO Rigid Tires		11,447 lb (5 192 kg)	11,584 lb (5 254 kg)	
Operating load – ISO Deflected Tires		10,336 lb (4 688 kg)	10,471 lb (4 749 kg)	
Maximum material density – ISO Rigi	d Tires	3,816 lb/yd³ (2 264 kg/m³)	4,212 lb/yd³ (2 499 kg/m³)	
Maximum material density – ISO Defl	ected Tires	3,445 lb/yd³ (2 044 kg/m³)	3,808 lb/yd³ (2 259 kg/m³)	
Tipping load – ISO Rigid Tires:	Straight 40° turn	26,435 lb (11 991 kg) 22,894 lb (10 385 kg)	26,733 lb (12 126 kg) 23,167 lb (10 508 kg)	
Tipping load - ISO Deflected Tire		24,751 lb (11 227 kg) 20,671 lb (9 376 kg)	25,047 lb (11 361 kg) 20,942 lb (9 499 kg)	
Lift capacity:	Full height Ground	16,104 lb (7 304 kg) 22,176 lb (10 059 kg)	16,211 lb (7 353 kg) 23,464 lb (10 643 kg)	
Breakout force with tilt cylinder	Ground	23,984 lb (10 879 kg)	25,446 lb (11 524 kg)	
Loader clearance circle with buck	ret	455.1 in (11 560 mm)	453.6 in (11 520 mm)	
651G XR		3.0 yd³ (2.3 m³) Bucket with Bolt-on Edge - Pin On	2.75 yd³ (1.9 m³) Bucket with Bolt-on Edge - Pin On	
Operating weight		31,394 lb (14 240 kg)	31,291 lb (14 193 kg)	
E. Operating height – fully raised wi	th spillguard	219.4 in (5 573 mm)	216.4 in (5 497 mm)	
F. Hinge pin height – fully raised		171.7 in (4 362 mm)	171.8 in (4 362 mm)	
G. Overall length – bucket level on g	ground	306.8 in (7 792 mm)	304.1 in (7 725 mm)	
Dump angle – fully raised		41°	41°	
H. Dump height - fully raised, 41° d	lump	133.2 in (3 384 mm)	134.9 in (3 426 mm)	
J. Bucket reach – fully raised, 41° c	dump	36.4 in (924 mm)	34.5 in (877 mm)	
K. Bucket reach - 7 ft 0 in (2.13 m)	height, 41° dump	73.6 in (1 870 mm)	72.6 in (1 845 mm)	
L. Dig depth		2.3 in (59 mm)	2.1 in (53 mm)	
Operating load – ISO Rigid Tires		9,719 lb (4 408kg)	9,719lb (4 408 kg)	
Operating load – ISO Deflected Tires		8,906 lb (4 040 kg)	8,906 lb (4 040 kg)	
Maximum material density – ISO Rigi	d Tires	3,534 lb/yd³ (2 097 kg/m³)	3,534 lb/yd³ (2 097 kg/m³)	
Maximum material density – ISO Defl		3,239 lb/yd³ (1 922kg/m³)	3,239 lb/yd³ (1 922 kg/m³)	
Tipping load – ISO Rigid Tires:	Straight 40° turn	22,529 lb (10 219 kg) 19,438 lb (8 817kg)	22,529 lb (10 219 kg) 19,438 lb (8 817 kg)	
Tipping load – ISO Deflected Tire		21,321 lb (9 671 kg) 17,813 lb (8 080 kg)	21,321lb (9 671 kg) 17,813 lb (8 080 kg)	
Lift capacity:	Full height Ground	15,936 lb (7 228 kg) 24,182 lb (10 969kg)	16,040 lb (7,275 kg) 24,434 lb (11 083 kg)	
Breakout force with tilt cylinder	GI GUITU	24,162 lb (10 909kg) 24,663 lb (11 187 kg)	26,179 lb (11 875kg)	
Loader clearance circle with buck	et	470.7 in (11 955 mm)	468.9in (11 911 mm)	
651G		Z-Bar/XR	Z-Bar/XR	
Maximum rollback:	Ground Carry position @ Full height	41°/40° 45°/45° 55°/59°	40°/40° 45°/45° 55°/59°	
Maximum grading angle with book		59°/59°	59°/59°	
Maximum grading angle with buck SAE bucket capacity – struck	ker – naun arayyırıy	2.5 yd³ (1.91 m³)	2.25 yd³ (1.75 m³)	
Heaped		3.00 yd³ (2.29 m³)	2.75 yd³ (2.1 m³)	
Bucket weight		102.4 in (2 600 m)	102.4 in (2 602 mm)	
Bucket weight		2,029 lb (920 kg)	1,926 lb (873 kg)	

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651G Z-Bar		4.5 yd³ (2.3 m³) Bucket with Bolt-on Edge - JRB Coupler	3.5 yd³ (2.7 m³) Bucket with Bolt-on Edge - JRB coupler	3.0 yd³ (2.3 m³) Bucket with Bolt-on Edge - JRB Coupler
Operating weight		32,345 lb (14 672 kg)	32,568 lb (14,773 kg)	31,859 lb (16 759 kg)
E. Operating height – fully raised with spi	illguard	223.4 in (5 675 mm)	213.7 in (5 428 mm)	209.2 in (5 313 mm)
F. Hinge pin height – fully raised		155.0 in (3 937 mm)	155.0 in (3 937 mm)	155.0 in (3 937 mm)
G. Overall length - bucket level on ground	d	306.5 in (7 785 mm)	299.4 in (7 604mm)	299.4 in (7 604 mm)
Dump angle - fully raised		47°	47°	47°
<b>H.</b> Dump height – fully raised, 45° dump		104.2 in (2 647 mm)	109.0 in (2 769 mm)	109.0 in (2 769 mm
<b>J.</b> Bucket reach – fully raised, 45° dump		46.3 in (1 177mm)	42.2 in (1 073 mm)	42.2 in (1 073 mm)
K. Bucket reach – 7 ft 0 in (2.13 m) heigh	nt, 45° dump	64.6 in (1 641 mm)	63.6 in (1 615 mm)	63.6 in (1 615 mm)
L. Dig depth		3.0 in (77 mm)	2.0 in (50 mm)	2.0 in (50 mm)
Operating load – ISO Rigid Tires		10,069 lb (4 567 kg)	10,341 lb (4 690 kg)	10,341 lb (4 690 kg)
Operating load – ISO Deflected Tires		9,006 lb (4 085 kg)	9,302 lb (4 220 kg)	9,302 lb (4 220 kg)
Maximum material density – ISO Rigid Tire	es	2,238 lb/yd³ (1 328 kg/m³)	3,447 lb/yd³ (2 045 kg/m³)	3,447 lb/yd³ (2 045 kg/m³)
Maximum material density – ISO Deflected	d Tires	2,001 lb/yd³ (1 188 kg/m³)	3,101 lb/yd³ (1 840 kg/m³)	3,101 lb/yd³ (1 840 kg/m³
Tipping load – ISO Rigid Tires:	Straight 40° turn	23,457 lb (10 640 kg) 20,138 lb (9 134 kg)	24,008 lb (10 890 kg) 20,681 lb (9 381 kg)	24,008 lb (10 179 kg 20,681 lb (9 381 kg
Tipping load – ISO Deflected Tires:	Straight 40° turn	21,849 lb (9 910 kg) 18,013 lb (8 171 kg)	22,440 lb (10 179kg) 18,605 lb (8 439 kg)	22,440 lb (10 179 kg 18,605 lb (8 439kg
Lift capacity:	Full height Ground	14,725 lb (6 679 kg) 14,276 lb (6 475 kg)	15,211 lb (6 899kg) 15,237 lb (6 911kg)	15,211 lb (6 899kg 15,237 lb (6 911kg
Breakout force with tilt cylinder		17,142 lb (7 775 kg)	19,449 lb (8 822kg)	19,449 lb (8 822 kg
Loader clearance circle with bucket		464.7in (11 803 mm)	8,822 in (11 689mm)	460.2 lb (11 689 mm)
651G XR		4.5 yd³ (2.3 m³) Bucket with Bolt-on Edge - JRB Coupler	2.5 yd³ (1.9 m³) Bucket with Bolt-on Edge - JRB coupler	3.0 yd³ (2.3 m³) Bucket with Bolt-on
		_ago 0::2 00ap:0:	_age 0::2 00ap:0:	Edge - JRB Coupler
Operating weight		32,746 lb (14 853 kg)	32,060 lb (14 542 kg)	
Operating weight  E. Operating height – fully raised with spi	illguard			32,259 lb (14 632 kg
	illguard	32,746 lb (14 853 kg)	32,060 lb (14 542 kg)	32,259 lb (14 632 kg 225.9 in (5 738 mm
E. Operating height – fully raised with spi		32,746 lb (14 853 kg) 240.1 in (6 099mm)	32,060 lb (14 542 kg) 221.2 in (5 619 mm)	32,259 lb (14 632 kg 225.9 in (5 738 mm 171.7 in (4 361 mm
<ul><li>E. Operating height – fully raised with spi</li><li>F. Hinge pin height – fully raised</li></ul>		32,746 lb (14 853 kg) 240.1 in (6 099mm) 171.7 in (4 361 mm)	32,060 lb (14 542 kg) 221.2 in (5 619 mm) 171.7 in (4 361mm)	32,259 lb (14 632 kg 225.9 in (5 738 mm 171.7 in (4 361 mm 315.5 in (8 014 mm
<ul> <li>E. Operating height – fully raised with spi</li> <li>F. Hinge pin height – fully raised</li> <li>G. Overall length – bucket level on ground</li> </ul>		32,746 lb (14 853 kg) 240.1 in (6 099mm) 171.7 in (4 361 mm) 322.5 in (8 191 mm)	32,060 lb (14 542 kg) 221.2 in (5 619 mm) 171.7 in (4 361mm) 310.0 in (7 873 mm)	32,259 lb (14 632 kg) 225.9 in (5 738 mm) 171.7 in (4 361 mm) 315.5 in (8 014 mm)
E. Operating height – fully raised with spi  F. Hinge pin height – fully raised  G. Overall length – bucket level on ground  Dump angle – fully raised	d	32,746 lb (14 853 kg) 240.1 in (6 099mm) 171.7 in (4 361 mm) 322.5 in (8 191 mm) 41°	32,060 lb (14 542 kg) 221.2 in (5 619 mm) 171.7 in (4 361mm) 310.0 in (7 873 mm) 41°	32,259 lb (14 632 kg 225.9 in (5 738 mm 171.7 in (4 361 mm 315.5 in (8 014 mm 41' 128.2 in (3 256 mm
<ul> <li>E. Operating height – fully raised with spi</li> <li>F. Hinge pin height – fully raised</li> <li>G. Overall length – bucket level on ground</li> <li>Dump angle – fully raised</li> <li>H. Dump height – fully raised, 41° dump</li> </ul>	d	32,746 lb (14 853 kg) 240.1 in (6 099mm) 171.7 in (4 361 mm) 322.5 in (8 191 mm) 41° 123.6 in (3 140 mm)	32,060 lb (14 542 kg) 221.2 in (5 619 mm) 171.7 in (4 361mm) 310.0 in (7 873 mm) 41° 131.5 in (3 340 mm)	32,259 lb (14 632 kg) 225.9 in (5 738 mm) 171.7 in (4 361 mm) 315.5 in (8 014 mm) 416 128.2 in (3 256 mm) 43.9 in (1 116 mm)
<ul> <li>E. Operating height – fully raised with spi</li> <li>F. Hinge pin height – fully raised</li> <li>G. Overall length – bucket level on ground</li> <li>Dump angle – fully raised</li> <li>H. Dump height – fully raised, 41° dump</li> <li>J. Bucket reach – fully raised, 41° dump</li> </ul>	d	32,746 lb (14 853 kg) 240.1 in (6 099mm) 171.7 in (4 361 mm) 322.5 in (8 191 mm) 41° 123.6 in (3 140 mm) 48.3 in (1 227 mm)	32,060 lb (14 542 kg) 221.2 in (5 619 mm) 171.7 in (4 361mm) 310.0 in (7 873 mm) 41° 131.5 in (3 340 mm) 39.5 in (1 002mm)	32,259 lb (14 632 kg) 225.9 in (5 738 mm) 171.7 in (4 361 mm) 315.5 in (8 014 mm) 41 <sup>4</sup> 128.2 in (3 256 mm) 43.9 in (1 116 mm) 78.1 in (1 985 mm)
<ul> <li>E. Operating height – fully raised with spi</li> <li>F. Hinge pin height – fully raised</li> <li>G. Overall length – bucket level on ground</li> <li>Dump angle – fully raised</li> <li>H. Dump height – fully raised, 41° dump</li> <li>J. Bucket reach – fully raised, 41° dump</li> <li>K. Bucket reach – 7 ft 0 in (2.13 m) height</li> </ul>	d	32,746 lb (14 853 kg) 240.1 in (6 099mm) 171.7 in (4 361 mm) 322.5 in (8 191 mm) 41° 123.6 in (3 140 mm) 48.3 in (1 227 mm) 79.6 in (2 021 mm)	32,060 lb (14 542 kg) 221.2 in (5 619 mm) 171.7 in (4 361mm) 310.0 in (7 873 mm) 41° 131.5 in (3 340 mm) 39.5 in (1 002mm) 75.7 in (1 922 mm)	32,259 lb (14 632 kg 225.9 in (5 738 mm 171.7 in (4 361 mm 315.5 in (8 014 mm 41' 128.2 in (3 256 mm 43.9 in (1 116 mm 78.1 in (1 985 mm
<ul> <li>E. Operating height – fully raised with spi</li> <li>F. Hinge pin height – fully raised</li> <li>G. Overall length – bucket level on ground</li> <li>Dump angle – fully raised</li> <li>H. Dump height – fully raised, 41° dump</li> <li>J. Bucket reach – fully raised, 41° dump</li> <li>K. Bucket reach – 7 ft 0 in (2.13 m) height</li> <li>L. Dig depth</li> </ul>	d	32,746 lb (14 853 kg) 240.1 in (6 099mm) 171.7 in (4 361 mm) 322.5 in (8 191 mm) 41° 123.6 in (3 140 mm) 48.3 in (1 227 mm) 79.6 in (2 021 mm) 3.0 in (75 mm)	32,060 lb (14 542 kg) 221.2 in (5 619 mm) 171.7 in (4 361mm) 310.0 in (7 873 mm) 41° 131.5 in (3 340 mm) 39.5 in (1 002mm) 75.7 in (1 922 mm) 1.9 in (48 mm)	32,259 lb (14 632 kg 225.9 in (5 738 mm 171.7 in (4 361 mm 315.5 in (8 014 mm 41' 128.2 in (3 256 mm 43.9 in (1 116 mm 78.1 in (1 985 mm 1.9 in (48 mm 8,696 lb (3 945 kg
<ul> <li>E. Operating height – fully raised with spi</li> <li>F. Hinge pin height – fully raised</li> <li>G. Overall length – bucket level on ground</li> <li>Dump angle – fully raised</li> <li>H. Dump height – fully raised, 41° dump</li> <li>J. Bucket reach – fully raised, 41° dump</li> <li>K. Bucket reach – 7 ft 0 in (2.13 m) height</li> <li>L. Dig depth</li> <li>Operating load – ISO Rigid Tires</li> </ul>	nt, 41° dump	32,746 lb (14 853 kg) 240.1 in (6 099mm) 171.7 in (4 361 mm) 322.5 in (8 191 mm) 41° 123.6 in (3 140 mm) 48.3 in (1 227 mm) 79.6 in (2 021 mm) 3.0 in (75 mm) 8,438 lb (3 828 kg)	32,060 lb (14 542 kg) 221.2 in (5 619 mm) 171.7 in (4 361mm) 310.0 in (7 873 mm) 41° 131.5 in (3 340 mm) 39.5 in (1 002mm) 75.7 in (1 922 mm) 1.9 in (48 mm) 8,901 lb (4 038 kg)	32,259 lb (14 632 kg 225.9 in (5 738 mm 171.7 in (4 361 mm 315.5 in (8 014 mm 41' 128.2 in (3 256 mm 43.9 in (1 116 mm 78.1 in (1 985 mm 1.9 in (48 mm 8,696 lb (3 945 kg
<ul> <li>E. Operating height – fully raised with spi</li> <li>F. Hinge pin height – fully raised</li> <li>G. Overall length – bucket level on ground</li> <li>Dump angle – fully raised</li> <li>H. Dump height – fully raised, 41° dump</li> <li>J. Bucket reach – fully raised, 41° dump</li> <li>K. Bucket reach – 7 ft 0 in (2.13 m) heigh</li> <li>L. Dig depth</li> <li>Operating load – ISO Rigid Tires</li> <li>Operating load – ISO Deflected Tires</li> </ul>	nt, 41° dump	32,746 lb (14 853 kg) 240.1 in (6 099mm) 171.7 in (4 361 mm) 322.5 in (8 191 mm) 41° 123.6 in (3 140 mm) 48.3 in (1 227 mm) 79.6 in (2 021 mm) 3.0 in (75 mm) 8,438 lb (3 828 kg) 7,656 lb (3 472 kg)	32,060 lb (14 542 kg) 221.2 in (5 619 mm) 171.7 in (4 361mm) 310.0 in (7 873 mm) 41° 131.5 in (3 340 mm) 39.5 in (1 002mm) 75.7 in (1 922 mm) 1.9 in (48 mm) 8,901 lb (4 038 kg) 8,132 lb (3 688 kg)	32,259 lb (14 632 kg 225.9 in (5 738 mm 171.7 in (4 361 mm 315.5 in (8 014 mm 41' 128.2 in (3 256 mm 43.9 in (1 116 mm 78.1 in (1 985 mm 1.9 in (48 mm 8,696 lb (3 945 kg 7,928 lb (3 596 kg 2,899 lb/yd³ (1 720 kg/m³
<ul> <li>E. Operating height – fully raised with spi</li> <li>F. Hinge pin height – fully raised</li> <li>G. Overall length – bucket level on ground</li> <li>Dump angle – fully raised</li> <li>H. Dump height – fully raised, 41° dump</li> <li>J. Bucket reach – fully raised, 41° dump</li> <li>K. Bucket reach – 7 ft 0 in (2.13 m) height</li> <li>L. Dig depth</li> <li>Operating load – ISO Rigid Tires</li> <li>Operating load – ISO Deflected Tires</li> <li>Maximum material density – ISO Rigid Tires</li> </ul>	nt, 41° dump	32,746 lb (14 853 kg) 240.1 in (6 099mm) 171.7 in (4 361 mm) 322.5 in (8 191 mm) 41° 123.6 in (3 140 mm) 48.3 in (1 227 mm) 79.6 in (2 021 mm) 3.0 in (75 mm) 8,438 lb (3 828 kg) 7,656 lb (3 472 kg) 1,875 lb/yd³ (1 009kg/m³)	32,060 lb (14 542 kg) 221.2 in (5 619 mm) 171.7 in (4 361mm) 310.0 in (7 873 mm) 41° 131.5 in (3 340 mm) 39.5 in (1 002mm) 75.7 in (1 922 mm) 1.9 in (48 mm) 8,901 lb (4 038 kg) 8,132 lb (3 688 kg) 3,561 lb/yd³ (2 113 kg/m³)	32,259 lb (14 632 kg) 225.9 in (5 738 mm) 171.7 in (4 361 mm) 315.5 in (8 014 mm) 41° 128.2 in (3 256 mm) 43.9 in (1 116 mm) 78.1 in (1 985 mm) 1.9 in (48 mm) 8,696 lb (3 945 kg) 7,928 lb (3 596 kg) 2,899 lb/yd³ (1 720 kg/m³ 2,643 lb/yd³ (1 568 kg/m³ 20,307 lb (9 211 kg)
<ul> <li>E. Operating height – fully raised with spi</li> <li>F. Hinge pin height – fully raised</li> <li>G. Overall length – bucket level on ground</li> <li>Dump angle – fully raised</li> <li>H. Dump height – fully raised, 41° dump</li> <li>J. Bucket reach – fully raised, 41° dump</li> <li>K. Bucket reach – 7 ft 0 in (2.13 m) height</li> <li>L. Dig depth</li> <li>Operating load – ISO Rigid Tires</li> <li>Operating load – ISO Deflected Tires</li> <li>Maximum material density – ISO Rigid Tires</li> <li>Maximum material density – ISO Deflected</li> </ul>	nt, 41° dump	32,746 lb (14 853 kg) 240.1 in (6 099mm) 171.7 in (4 361 mm) 322.5 in (8 191 mm) 41° 123.6 in (3 140 mm) 48.3 in (1 227 mm) 79.6 in (2 021 mm) 3.0 in (75 mm) 8,438 lb (3 828 kg) 7,656 lb (3 472 kg) 1,875 lb/yd³ (1 009kg/m³) 1,701 lb/yd³ (2 166 kg/m³) 19,787 lb (8 975 kg)	32,060 lb (14 542 kg) 221.2 in (5 619 mm) 171.7 in (4 361mm) 310.0 in (7 873 mm) 41° 131.5 in (3 340 mm) 39.5 in (1 002mm) 75.7 in (1 922 mm) 1.9 in (48 mm) 8,901 lb (4 038 kg) 8,132 lb (3 688 kg) 3,561 lb/yd³ (2 113 kg/m³) 3,253 lb/yd³ (1 930 kg/m³) 32,380 lb (14 687 kg)	Edge - JRB Coupler  32,259 lb (14 632 kg)  225.9 in (5 738 mm)  171.7 in (4 361 mm)  315.5 in (8 014 mm)  41°  128.2 in (3 256 mm)  43.9 in (1 116 mm)  78.1 in (1 985 mm)  1.9 in (48 mm)  8,696 lb (3 945 kg)  7,928 lb (3 596 kg)  2,899 lb/yd³ (1 720 kg/m³)  2,643 lb/yd³ (1 568 kg/m³)  20,307 lb (9 211 kg) 17,392 lb (7 889 kg)  19,168 lb (8 694 kg) 15,856 lb (7 192kg)
<ul> <li>E. Operating height – fully raised with spi</li> <li>F. Hinge pin height – fully raised</li> <li>G. Overall length – bucket level on ground</li> <li>Dump angle – fully raised</li> <li>H. Dump height – fully raised, 41° dump</li> <li>J. Bucket reach – fully raised, 41° dump</li> <li>K. Bucket reach – 7 ft 0 in (2.13 m) height</li> <li>L. Dig depth</li> <li>Operating load – ISO Rigid Tires</li> <li>Operating load – ISO Deflected Tires</li> <li>Maximum material density – ISO Rigid Tires</li> <li>Maximum material density – ISO Deflected</li> <li>Tipping load – ISO Rigid Tires:</li> </ul>	nt, 41° dump  Straight 40° turn Straight	32,746 lb (14 853 kg) 240.1 in (6 099mm) 171.7 in (4 361 mm) 322.5 in (8 191 mm) 41° 123.6 in (3 140 mm) 48.3 in (1 227 mm) 79.6 in (2 021 mm) 3.0 in (75 mm) 8,438 lb (3 828 kg) 7,656 lb (3 472 kg) 1,875 lb/yd³ (1 009kg/m³) 1,701 lb/yd³ (2 166 kg/m³) 19,787 lb (8 975 kg) 16,877 lb (7 655 kg) 18,624 lb (8 447 kg)	32,060 lb (14 542 kg) 221.2 in (5 619 mm) 171.7 in (4 361mm) 310.0 in (7 873 mm) 41° 131.5 in (3 340 mm) 39.5 in (1 002mm) 75.7 in (1 922 mm) 1.9 in (48 mm) 8,901 lb (4 038 kg) 8,132 lb (3 688 kg) 3,561 lb/yd³ (2 113 kg/m³) 3,253 lb/yd³ (1 930 kg/m³) 32,380 lb (14 687 kg) 27,092 lb (12 289 kg) 20,747 lb (9 411 kg)	32,259 lb (14 632 kg) 225.9 in (5 738 mm) 171.7 in (4 361 mm) 315.5 in (8 014 mm) 41° 128.2 in (3 256 mm) 43.9 in (1 116 mm) 78.1 in (1 985 mm) 1.9 in (48 mm) 8,696 lb (3 945 kg) 7,928 lb (3 596 kg) 2,899 lb/yd³ (1 720 kg/m³) 2,643 lb/yd³ (1 568 kg/m³) 20,307 lb (9 211 kg) 17,392 lb (7 889 kg) 19,168 lb (8 694 kg)
<ul> <li>E. Operating height – fully raised with spi</li> <li>F. Hinge pin height – fully raised</li> <li>G. Overall length – bucket level on ground</li> <li>Dump angle – fully raised</li> <li>H. Dump height – fully raised, 41° dump</li> <li>J. Bucket reach – fully raised, 41° dump</li> <li>K. Bucket reach – 7 ft 0 in (2.13 m) height</li> <li>L. Dig depth</li> <li>Operating load – ISO Rigid Tires</li> <li>Operating load – ISO Deflected Tires</li> <li>Maximum material density – ISO Rigid Tires</li> <li>Tipping load – ISO Rigid Tires:</li> <li>Tipping load – ISO Deflected Tires:</li> </ul>	at, 41° dump  at Tires  Straight 40° turn  Straight 40° turn  Full height	32,746 lb (14 853 kg) 240.1 in (6 099mm) 171.7 in (4 361 mm) 322.5 in (8 191 mm) 41° 123.6 in (3 140 mm) 48.3 in (1 227 mm) 79.6 in (2 021 mm) 3.0 in (75 mm) 8,438 lb (3 828 kg) 7,656 lb (3 472 kg) 1,875 lb/yd³ (1 009kg/m³) 1,701 lb/yd³ (2 166 kg/m³) 19,787 lb (8 975 kg) 16,877 lb (7 655 kg) 18,624 lb (8 447 kg) 15,311 lb (6 945 kg) 14,591 lb (6 618 kg)	32,060 lb (14 542 kg) 221.2 in (5 619 mm) 171.7 in (4 361mm) 310.0 in (7 873 mm) 41° 131.5 in (3 340 mm) 39.5 in (1 002mm) 75.7 in (1 922 mm) 1.9 in (48 mm) 8,901 lb (4 038 kg) 8,132 lb (3 688 kg) 3,561 lb/yd³ (2 113 kg/m³) 3,253 lb/yd³ (1 930 kg/m³) 32,380 lb (14 687 kg) 27,092 lb (12 289 kg) 20,747 lb (9 411 kg) 17,803 lb (8 075 kg) 19,606 lb (8 893 kg)	32,259 lb (14 632 kg) 225.9 in (5 738 mm) 171.7 in (4 361 mm) 315.5 in (8 014 mm) 41° 128.2 in (3 256 mm) 43.9 in (1 116 mm) 78.1 in (1 985 mm) 1.9 in (48 mm) 8,696 lb (3 945 kg) 7,928 lb (3 596 kg) 2,899 lb/yd³ (1 720 kg/m³) 2,643 lb/yd³ (1 568 kg/m²) 20,307 lb (9 211 kg) 17,392 lb (7 889 kg) 19,168 lb (8 694 kg) 15,856 lb (7 192kg) 15,075 lb (6 838 kg)

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651G XT		Bucket with Bol	2.5 yd³ (1.9 m³) t-on Edge - JRB coupler	Bucket with Bo	3.0 yd <sup>3</sup> (2.3 m <sup>3</sup> ) It-on Edge - JRB Coupler
Operating weight			31,746 lb (14 400 kg)		31,946 lb (14 490 kg)
E. Operating height – fully raised with	spillguard		211.9 in (5 382 mm)		216.6 in (5 501 mm)
F. Hinge pin height – fully raised			155.8 in (3 957 mm)		155.8 in (3 956mm)
G. Overall length – bucket level on gr	ound		302.3 in (7 678 mm)		307.9 in (7 820 mm)
Dump angle – fully raised			55°		55°
H. Dump height – fully raised, 45° du	mp		107.7 in (2 737 mm)		104.2 in (2 646 mm)
J. Bucket reach - fully raised, 45° du	mp		51.3 in (1 302 mm)		55.5 in (1 410 mm)
K. Bucket reach - 7 ft 0 in (2.13 m) he	eight, 45° dump		70.1 in (1 780 mm)		72.2 in (1 833 mm)
L. Dig depth			2.5 in (64 mm)		2.5 in (64 mm)
Operating load – ISO Rigid Tires			9,618 lb (4 363kg)		9,408 lb (4 267kg)
Operating load – ISO Deflected Tires			8,674 lb (3 934 kg)		8,463 lb (3 839 kg)
Maximum material density - ISO Rigid	Tires		3,197 lb/yd³ (1 897 kg/m³)		3,136 lb/yd³ (1 861 kg/m³)
Maximum material density - ISO Deflect	cted Tires		2,883 lb/yd³ (1 711 kg/m³)		2,821 lb/yd³ (1 674kg/m³)
Tipping load – ISO Rigid Tires:	Straight 40° turn		22,104 lb (10 026 kg) 19,236 lb (8 725 kg)		21,655 lb (9 822 kg) 18,816 lb (8 535 kg)
Tipping load – ISO Deflected Tires:	Straight 40° turn		20,682 lb (9 381 kg) 17,347 lb (7 869 kg)		20,231 lb (9 177 kg) 16,925 lb (7 677kg)
Lift capacity:	Full height Ground		14,125 lb (6 407 kg) 28,331 lb (12 851 kg)		13,857 lb (6 286 kg) 26,866 lb (12 186 kg)
Breakout force with tilt cylinder			22,804 lb (10 344 kg)		20,611 lb (9 349 kg)
Loader clearance circle with bucket	t		451.2 in (11 460 mm)		453.4 lb (11 517 mm)
651G XT			Z-Bar/XT		Z-Bar/XT
Maximum rollback:	Ground Carry position @ Full height		57° 59° 59°		57° 59° 59°
Maximum grading angle with bucket	t – back dragging		62°		63°
SAE bucket capacity – struck Heaped			2.09 yd³ (1.60 m³) 3.01 yd³ (2.30 m³)		2.50 yd³ (1.91 m³) 3.00 yd³ (2.29 m³)
Bucket width - outside			102.4 in (2 602 mm)		102.4 in (2 602 mm)
Bucket weight			2,666 lb (1 209 kg)		2,866 lb (1 300 kg)
651G		Z-Bar/XR	Z-Bar/XR	Z-Bar/XR	Z-Bar/XR
Maximum rollback:	Ground Carry position @ Full height	40°/40° 45°/46° 55°/59°	40°/46° 45°/46° 55°/57°	40°/37° 45°/43° 55°/57°	41°/41° 45°/46° 55°/59°
Maximum grading angle with bucket		60°/60°	62°/61°	63°/59°	64°/62°
SAE bucket capacity – struck Heaped		2.1 yd <sup>3</sup> (1.61 m <sup>3</sup> ) 2.5 yd <sup>3</sup> (1.91 m <sup>3</sup> )	2.50 yd³ (1.91 m³) 3.00 yd³ (2.29 m³)	2.50 yd <sup>3</sup> (1.91 m <sup>3</sup> ) 3.5 yd <sup>3</sup> (2.68 m <sup>3</sup> )	4 yd³ (3.06 m³) 4.5 yd³ (2.3 m³)
Bucket width - outside		102.4 in (2 600 mm)	102.4 in (2 600 mm)	106.3 in (2 700 mm)	102.4 in (2 600 mm)

2,695 lb (1 222 kg)

2,894 lb (1 313 kg)

3,604 lb (1 635 kg)

Bucket weight

3,381 lb (1 534 kg)

PERFORMANCE SPECS					
651G Z-Bar		3.5 yd <sup>3</sup> (2.7 m <sup>3</sup> ) Bucket with Bolt-on Edge - ACS Coupler	3.0 yd³ (2.3 m³) Bucket with Bolt-on Edge - ACS Coupler		
Operating weight		32,739 lb (14 850 kg)	32,068 lb (14 546 kg)		
E. Operating height – fully raised with spi	illguard	211.8 in (5 380 mm)	207.8 in (5 279 mm)		
F. Hinge pin height – fully raised		154.9 in (3 935 mm)	155.0 in (3 936 mm)		
G. Overall length – bucket level on groun	d	300.0 in (7 620 mm)	297.3 in (7 552 mm)		
Dump angle – fully raised		47°	47°		
<b>H.</b> Dump height – fully raised, 45° dump		108.5 in (2 757 mm)	110.3 in (2 802 mm)		
J. Bucket reach – fully raised, 45° dump		42.5 in (1 079 mm)	40.8 in (1 037 mm)		
K. Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump		63.6 in (1 614 mm)	63.0 in (1 599 mm)		
L. Dig depth		2.2 in (55 mm)	1.9 in (47 mm)		
Operating load – ISO Rigid Tires		10,043 lb (4 555 kg)	10,419 lb (4 726 kg)		
Operating load – ISO Deflected Tires		8,978 lb (4 072 kg)	9,360 lb (4 246 kg)		
Maximum material density - ISO Rigid Tire	s	2,869 lb/yd³ (1 703 kg/m³)	3,473 lb/yd³ (2 061 kg/m³)		
Maximum material density - ISO Deflected	Tires	2,565 lb/yd³ (1 522 kg/m³)	3,120 lb/yd³ (1 851 kg/m³)		
Tipping load – ISO Rigid Tires:	Straight 40° turn	23,464 lb (10 643 kg) 20,085 lb (9 110 kg)	24,216 lb (10 984 kg) 20,838 lb (9 452 kg)		
Tipping load – ISO Deflected Tires:	Straight 40° turn	21,852 lb (9 912 kg) 17,956 lb (8 145 kg)	22,616 lb (10 258 kg) 18,721 lb (8 492 kg)		
Lift capacity:	Full height Ground	14,340 lb (6 504 kg) 15,172 lb (6 882 kg)	15,013 lb (6 810 kg) 16,286 lb (7 387 kg)		
Breakout force with tilt cylinder		18,823 lb (8 538 kg)	20,154 lb (9 142 kg)		
Loader clearance circle with bucket		464.0 in (11 787 mm)	458.9 in (11 657 mm)		

651G XT		2.5 yd³ (1.9 m³) Bucket with Bolt-on Edge - ACS Coupler	3.0 yd³ (2.3 m³) Bucket with Bolt-on Edge - ACS Coupler
Operating weight		32,055 lb (14 540 kg)	32,281 lb (14 642 kg)
E. Operating height – fully raised with spi	llguard	207.6 in (5 274 mm)	212.1 in (5 387 mm)
F. Hinge pin height – fully raised		155.8 in (3 956 mm)	155.7 in (3 956 mm)
G. Overall length – bucket level on ground	d	296.6 in (7 533 mm)	301.8 in (7 667 mm)
Dump angle – fully raised		55°	55°
H. Dump height – fully raised, 45° dump		111.4 in (2 830 mm)	108.0 in (2 744 mm)
J. Bucket reach – fully raised, 45° dump		47.1 in (1 198 mm)	51.1 in (1 297 mm)
K. Bucket reach - 7 ft 0 in (2.13 m) heigh	t, 45° dump	67.9 in (1 195 mm)	70.1 in (1 779 mm)
L. Dig depth		2.4 in (61 mm)	2.4 in (61 mm)
Operating load – ISO Rigid Tires		9,904 lb (4 493 kg)	9,698 lb (4 399 kg)
Operating load – ISO Deflected Tires		8,918 lb (4 045 kg)	8,708 lb (3 950 kg)
Maximum material density – ISO Rigid Tire	s	3,962 lb/yd³ (2 351 kg/m³)	3,233 lb/yd³ (1 918 kg/m³)
Maximum material density – ISO Deflected	Tires	3,567 lb/yd³ (2 117 kg/m³)	2,903 lb/yd³ (1 722 kg/m³)
Tipping load – ISO Rigid Tires:	Straight 40° turn	22,789 lb (10 337 kg) 19,809 lb (8 985 kg)	22,351 lb (10 138 kg) 19,396 lb (8 798 kg)
Tipping load – ISO Deflected Tires:	Straight 40° turn	21,301 lb (9 662 kg) 17,837 lb (8 091 kg)	20,856 lb (9 460 kg) 17,417 lb (7 900 kg)
Lift capacity:	Full height Ground	14,154 lb (6 420 kg) 34,050 lb (15 445 kg)	13,878 lb (6 295 kg) 32,398 lb (14 695 kg)
Breakout force with tilt cylinder		25,354 lb (11 500 kg)	22,846 lb (10 363 kg)
Loader clearance circle with bucket		448.9 in (11 403 mm)	451.0 in (11 455 mm)

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PERFORMANCE SPECS				
651G XR		2.5 yo Bucket with Bolt-on Edge - AC	d³ (1.9 m³) S Coupler	3.0 yd <sup>3</sup> (2.3 m <sup>3</sup> Bucket with Bolt-on Edge - ACS Couple
Operating weight		32,243 lb (1	4 625 kg)	32,468 lb (14 727 kg
E. Operating height – fully raised with sp	pillguard	220.1 in (5	591 mm)	224.5 in (5 703 mm
F. Hinge pin height – fully raised		171.7 in (4	361 mm)	171.7 in (4 361 mm
G. Overall length – bucket level on grou	ind	308.2 in (7	829 mm)	313.5 in (7 962 mm)
Dump angle – fully raised			41°	41°
H. Dump height - fully raised, 41° dump	0	132.5 in (3	367 mm)	129.4 in (3 287 mm)
J. Bucket reach – fully raised, 41° dump	p	38.2 in	(970 mm)	42.4 in (1 077 mm)
K. Bucket reach - 7 ft 0 in (2.13 m) heig	ght, 45° dump	75.0 in (1	905 mm)	77.4 in (1 966 mm)
L. Dig depth		1.8 ir	n (46 mm)	1.8 in (46 mm)
Operating load – ISO Rigid Tires		8,921 lb (	(4 046 kg)	8,727 lb (3 958 kg)
Operating load – ISO Deflected Tires		8,141 lb (	(3 693 kg)	7,946 lb (3 604 kg
Maximum material density – ISO Rigid Tir	res	3,568 lb/yd³ (2 1	17 kg/m³)	2,909 lb/yd³ (1 726 kg/m³)
Maximum material density - ISO Deflecte	ed Tires	3,256 lb/yd³ (1 9:	32 kg/m³)	2,649 lb/yd³ (1 572 kg/m³)
Tipping load – ISO Rigid Tires:	Straight 40° turn	20,820 lb ( 17,842 lb (	3)	20,406 lb (9 256 kg) 17,453 lb (7 917 kg)
Tipping load – ISO Deflected Tires:	Straight 40° turn	19,663 lb ( 16,282 lb (	9,	19,248 lb (8 731 kg) 15,892 lb (7 209 kg)
Lift capacity:	Full height Ground	15,093 lb ( 22,798 lb (1		14,868 lb (6 744 kg) 22,328 lb (10 128 kg)
Breakout force with tilt cylinder		23,280 lb (1	0 560 kg)	20,779 lb (9 425 kg)
Loader clearance circle with bucket		471.3 in (11	1 971mm)	474.8 in (12 059 mm)
651G XT			Z-Bar/XT	Z-Bar/XT
Maximum rollback:	Ground Carry position @ Full height		57° 59° 59°	58° 57° 58°
Maximum grading angle with bucket -	- back dragging		61°	60°
SAE bucket capacity – struck Heaped			(1.61 m³) (1.91 m³)	2.50 yd³ (1.91 m³) 3.00 yd³ (2.29 m³)
Bucket width – outside		102.4 in (2	600 mm)	106.8 in (2 713 mm)
Bucket weight		2,975 lb (	(1 349 kg)	3,240 lb (1 470 kg)
651G		XR	Z-Bar/XR	Z-Bar
Maximum rollback:	Ground	40°	40°/40°	41°
	Carry position	46°	45°/46°	45° 55°
Mayingum grading angle with hurtist	@ Full height	59°	55°/59°	
Maximum grading angle with bucket -	- back dragging	60°	61°/60°	62°
SAE bucket capacity – struck Heaped		2.1 yd³ (1.61 m³) 2.5 yd³ (1.91 m³)	2.50 yd³ (1.91 m³) 3.00 yd³ (2.29 m³)	3.00 yd³ (2.68 m³) 3.5 yd³ (2.68 m³)
Bucket width – outside		102.4 in (2 600 mm)	102.4 in (2 600 mm)	106.3 in (2 700 mm)

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2,878 lb (1 305 kg)

3,104 lb (1 408 kg)

Bucket weight

3,775 lb (1 712 kg)

## **OPERATOR ENVIRONMENT**

See page 1

## **ENGINE**

CASE/FPT F4HFE613W

Tier 4 Final Certified

Selective Catalytic Reduction (SCR) with Diesel Oxidation Catalyst

Selectable work modes:

Maximum Mode

Smart Mode

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 with hydraulically driven auto-reversing fan

Engine block heater

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

Greasable rear axle trunnion

3-piece rims

## **HYDRAULICS**

Adjustable Electro-hydraulic - EH loader control with one auxiliary function and 3 configurable buttons

Adjustable EH controls:

Smooth

Moderate

Aggressive

**Auxiliary Hydraulics** 

Ride Control™

Locking hydraulics for hydraulic coupler

EH Parallel Lift

Low-effort steering

Hydraulic driven cooling fan

Diagnostic quick couplers

Hydraulic oil cooler

## **ELECTRICAL**

Alternator and voltage regulator

Battery isolator/electrical disconnect

120 amp alternator

(2) 700 CCA 12-volt batteries

Electric starter

Lights:

Integrated 4-corner strobe

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

External rear view mirrors

Heavy counterweight

Drawbar hitch

Articulation locking bar

Lift arm locking bar

Lift and tie-down points - front/rear

Rear frame side covers

License plate brackets; front bracket

and lit rear bracket

Rubber steering stops

Grouped remote-mounted ecology drains:

Engine oil

Engine coolant

Hydraulic oil

## **TELEMATICS**

CASE SiteWatch™ Telematics
Includes hardware and a 5-yr advanced

data subscription

SiteConnect Module providing remote diagnostics capability

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#### OPTIONAL EQUIPMENT

## **OPERATOR ENVIRONMENT**

Cloth-covered heated air-suspension seat with headrest

Sound Shield noise suppression package

Bluetooth radio, 12V AM/FM with auxiliary input

Cab convenience package:

Rear sun shade, interior mirror, under the seat drawer, coat hook, 12V accessory port, and an ash tray

In cab powered cooler box

In cab accessory mount

Rear view camera

External heated rear view mirrors

Front LED driving/headlights/

LED heated lens

LED front and rear work lights - 4 front, 2 rear

#### DRIVETRAIN

5F/3R Autoshift/manual shift transmission, lockup torque converter, Powerlnch de-clutch

**HD Axle Options** 

Locking Front Diff / Open Rear Locking Front Diff / Limited Slip Rear

Cold weather package:

Heavy-duty (2) 950 CCA 12V batteries

Fuel heater

Hydraulic oil cooler bypass

Low temperature hydraulic oil

Fast-warm hydraulic valve

## **HYDRAULICS**

Secondary steering Integrated Payload System

Tire Pressure Monitoring System

2-spool loader valves with joystick loader control

4-function loader valve with joystick loader control and two proportional auxiliary roller switches

#### **LOADER**

XR extended reach version XT tool carrier version Attachment auxiliary hydraulics Coupler systems - JRB or ACS compatible Buckets - see pages 4 through 8

#### **TIRES**

20.5x25 L2 bias (16 ply) - dirt/traction 20.5 x25 L3 bias (16 ply) - rock 20.5-R25 L2 radial - dirt/traction 20.5-R25 L3 radial - rock 20.5-R25 radial Michelin SnoPlus Axle oscillation stops

## **GUARDING**

Skid plate, transmission and front chassis bottom guards

## **ADVANCED ENGINE AIR FILTRATION**

Heavy Debris cooling system: Slanted cooling module cover Increased cooling fin spacing Added cooling module sealing Sy-Klone® ejector type pre-cleaner

## **OTHER**

Additional RH steps and platform with standard or wide fenders

12.4 mph (20 kph) maximum speed control Special paint

Standard fenders with right and left hand steps

Wide full coverage fenders with right and left hand steps

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