

# 621C/XR/XT

## Articulated Wheel Loader



### ENGINE

Model..... Case 6T-590  
 Type..... 4-stroke, turbocharged  
 Cylinders..... 6  
 Bore/Stroke ..... 4.02" x 4.72"  
 (102 X 120 mm)  
 Displacement ..... 359 in<sup>3</sup> (5.9 L)  
 Fuel injection..... Direct  
 Fuel..... #2 Diesel  
 Fuel filter..... Replaceable, full flow  
 spin-on cartridge  
 Air filter..... Dry type element  
 w/warning restriction indicator  
 Radiator  
 Core type ..... Square Wave™  
 Core size area..... 5.1 ft<sup>2</sup> (0.47 m<sup>2</sup>)  
 Rows of tubes..... 4  
 Fan  
 Style..... 6 blade pusher  
 Diameter ..... 23.6" (600 mm)  
 Ratio ..... 1.1:1  
 Water pump  
 Style ..... Integral  
 Engine oil  
 Pump..... Deep sump plate cooler  
 with pressurized  
 under-piston nozzles  
 Pump operating angle ratings  
 Side-to-side..... Rated 45°  
 Fore and aft..... Rated 45°  
 Oil filtration..... Replaceable,  
 full flow spin-on cartridge  
 Engine speeds (rpm)  
 Rated speed, full load..... 2200  
 Low idle..... 725 - 775  
 High idle, no load..... 2305 - 2385  
 Horsepower  
 Gross..... 139 (104 kW) @ 2000 rpm  
 Net ..... 130 (97 kW) @ 2000 rpm  
 Peak torque @ 1400 rpm  
 Gross..... 423 lb-ft (574 N-m)  
 Net ..... 413 lb-ft (560 N-m)  
 Torque rise ..... 31%

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 ..... 2.024 ..... 1.919  
 3rd ..... 1.088 ..... 1.031  
 4th ..... 0.619 ..... NA  
 Torque converter  
 Stall ratio..... 2.83:1  
 Differential..... Limited slip  
 w/45% transfer on front  
 and rear axles  
 Rear axle oscillation ..... 24° total  
 Front and rear axle  
 Differential ratio ..... 3.444  
 Planetary ratio..... 6.353  
 Final axle ratio ..... 21.88  
 Planetaries..... Outboard  
 Service brakes ..... Hydraulically  
 actuated maintenance-free  
 multiple wet disc w/accumulator  
 to all four wheels  
 Brake surface area.... 312 in<sup>2</sup> per hub  
 (0.20 m<sup>2</sup>)  
 Parking brakes ..... Spring applied  
 hydraulic release disc on  
 transmission output shaft  
 Travel speeds – mph (km/h)  
 w/20.5-25 L3 Tires  
 Forward Reverse  
 1st ..... 4.4 (7.1) ..... 4.6 (7.4)  
 2nd ..... 8.4 (13.5) ..... 8.8 (14.2)  
 3rd ..... 14.6 (23.5) ... 15.5 (25.0)  
 4th..... 23.3 (37.5)..... NA

NOTE: Travel speeds at full engine throttle.

### ELECTRICAL

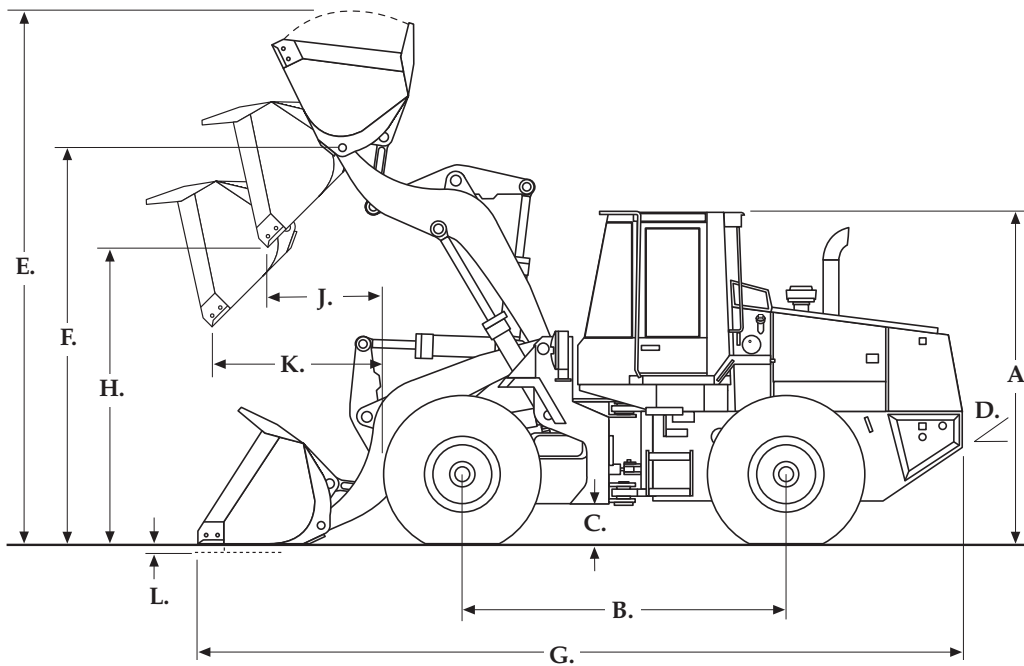
Voltage..... 24 Volts, negative ground  
 Alternator..... 65 amp  
 Batteries ..... (2) 700 CCA  
 Optional batteries..... (2) 900 CCA

### HYDRAULICS

Pump..... Dual, vane-type tandem  
 Loader/steering section  
 Section displacement ... 4.85 in<sup>3</sup>/rev  
 42.9 gpm @ 2200 rpm @ 2250 psi  
 (163 L/min @ 2200 rpm @ 155 bar)  
 Loader section  
 Section displacement ..... 2.1 in<sup>3</sup>/rev  
 18.6 gpm @ 2200 rpm @ 2250 psi  
 (70 L/min @ 2200 rpm @ 155 bar)  
 Loader control valve..... Open-center,  
 sectional 2-, 3- or 4-spool with  
 pilot control for lift, tilt  
 and auxiliary hydraulics,  
 electromagnetic detents in  
 float, raise and rollback  
 Loader auxiliary hydraulics  
 22.4 to 61.5 gpm  
 (85 to 233 L/min)  
 Steering ..... Hydraulic center-pivot  
 articulating w/on-demand oil flow  
 Flow ..... 42.9 gpm @ 2200 rpm  
 @ 2250 psi  
 (163 L/min @ 2200 rpm @ 155 bar)  
 Main relief pressure..... 2250 psi  
 (155 bar)  
 Filtration ..... 10-micron,  
 full flow replaceable  
 cartridges on return line, condition  
 indicator light for filter  
 Oil cooler ..... Return line

### CYLINDERS

Lift cylinder  
 Bore diameter..... 5.0" (127 mm)  
 Rod diameter ..... 3.0" (76 mm)  
 Stroke ..... 32.82" (834 mm)  
 Dump cylinder (Z-Bar, XR)  
 Bore diameter..... 6.0" (152 mm)  
 Rod diameter ..... 3.0" (76 mm)  
 Stroke ..... 21.43" (544 mm)  
 Dump cylinders (XT)  
 Bore diameter..... 4.5" (114 mm)  
 Rod diameter ..... 2.25" (57 mm)  
 Stroke..... 39.41" (1.0 m)



## DIMENSIONS

Height to –	
A. Top of ROPS cab .....	128.2" (3.26 m)
Top of steering wheel.....	100.1" (2.54 m)
Drawbar .....	39.5" (1.0 m)
B. Wheelbase.....	114" (2.9 m)
C. Ground clearance.....	16.8" (425 mm)
D. Angle of departure.....	34°
Width –	
Overall* w/o bucket .....	95.8" (2.43 m)
Centerline tread .....	74" (1.88 m)
Turning radius* – outside.....	204.5" (5.19 m)
Turning angle –	
From center .....	40°
Total angle .....	80°
Rear axle oscillation, total.....	24°

NOTE: \*Dimensions taken with 20.5-25 12PR L2 tires. Additional dimensions on pages 3, 4.

## WEIGHT ADJUSTMENTS

Select Options	Weight Adjustment	Tipping Load Adjustment Straight	Tipping Load Adjustment 40° Turn
Rated weight to adjust (see note** below).....	26,311 lb (11 935 kg) .....	20,696 lb (9388 kg) .....	17,452 lb (7916 kg)
1,500 lb (680 kg) counterweight			
ILO 2,500 lb (1134 kg) counterweight.....	-1,000 lb (-454 kg).....	-2,037 lb (-924 kg).....	-1,645 lb (-746 kg)
3,500 lb (1588 kg) counterweight			
ILO 2,500 lb (1134 kg) counterweight (XR).....	+1,000 lb (+454 kg) ....	+1,862 lb (+844 kg) ....	+1,502 lb (+681 kg)
ROPS canopy.....	-295 lb (-134 kg).....	-264 lb (-120 kg).....	-236 lb (-107 kg)
Heavy-duty batteries (2) .....	+120 lb (+54 kg).....	+243 lb (+110 kg) .....	+195 lb (+88 kg)
17.5-25 12PR L2 tires .....	-1,056 lb (-479 kg).....	-626 lb (-284 kg).....	-483 lb (-219 kg)
17.5-25 12PR L3 tires .....	-848 lb (-385 kg).....	-427 lb (-194 kg).....	-335 lb (-152 kg)
17.5-R25 XTLA tires.....	-916 lb (-415 kg).....	-497 lb (-225 kg).....	-396 lb (-180 kg)
17.5-R25 XHA tires .....	-692 lb (-314 kg).....	-269 lb (-122 kg).....	-192 lb (-87 kg)
20.5-25 12PR L3 tires.....	+328 lb (+149 kg) .....	+589 lb (+267 kg) .....	+622 lb (+282 kg)
20.5-25 16PR L2 tires.....	+56 lb (+25 kg) .....	+181 lb (+82 kg) .....	+227 lb (+103 kg)
20.5-R25 XTLA tires.....	+100 lb (+45 kg).....	-11 lb (-5 kg).....	-92 lb (-42 kg)
20.5-R25 XHA tires .....	+480 lb (+218 kg) .....	+417 lb (+189 kg) .....	+349 lb (+158 kg)
555/70R25 XLD 70-1 tires.....	+180 lb (+82 kg) .....	+75 lb (+34 kg).....	-77 lb (-35 kg)

NOTE: \*\*Unit equipped with Z-Bar loader arms, 2.25 yd<sup>3</sup> (1.72 m<sup>3</sup>) general purpose pin on bucket, 20.5-25 12PR L2 tires, ROPS cab with heater, 2,500 lb (1134 kg) counterweight, standard batteries, front and rear fenders, full fuel and 175 lb (79 kg) operator. Adjust select options from rated weight.

# PERFORMANCE DATA

	2.25 yd <sup>3</sup> (1.72 m <sup>3</sup> ) Bucket Only	2.25 yd <sup>3</sup> (1.72 m <sup>3</sup> ) Bucket w/Bolt-on Edge	2.25 yd <sup>3</sup> (1.72 m <sup>3</sup> ) Bucket w/Teeth
<b>621C Z-Bar</b>			
SAE bucket capacity – struck.....	1.98 yd <sup>3</sup> (1.51 m <sup>3</sup> )	2.06 yd <sup>3</sup> (1.57 m <sup>3</sup> )	1.98 yd <sup>3</sup> (1.51 m <sup>3</sup> )
Heaped.....	2.32 yd <sup>3</sup> (1.77 m <sup>3</sup> )	2.41 yd <sup>3</sup> (1.84 m <sup>3</sup> )	2.32 yd <sup>3</sup> (1.77 m <sup>3</sup> )
Bucket width – outside.....	99.9" (2.54 m)	99.9" (2.54 m)	101.5" (2.58 m)
Inside.....	97.0" (2.46 m)	97.0" (2.46 m)	97.0" (2.46 m)
Bucket weight.....	1,704 lb (773 kg)	2,107 lb (956 kg)	1,906 lb (865 kg)
E. Operating height – fully raised w/spillguard.....	192.0" (4.88 m)	192.0" (4.88 m)	192.0" (4.88 m)
F. Hinge pin height – fully raised.....	145.5" (3.7 m)	145.5" (3.7 m)	145.5" (3.69 m)
G. Overall length – bucket level on ground.....	266.7" (6.77 m)	269.2" (6.84 m)	275.9" (7.01 m)
Dump angle – fully raised.....	50°	50°	50°
H. Dump height – fully raised, 45° dump.....	114.5" (2.91 m)	112.7" (2.86 m)	108.0" (2.74 m)
J. Bucket reach – fully raised, 45° dump.....	37.7" (958 mm)	38.0" (965 mm)	42.8" (1.08 m)
K. Bucket reach – 7'0" (2.13 m) height, 45° dump.....	57.4" (1.46 m)	57.0" (1.45 m)	59.5" (1.51 m)
Operating load – SAE.....	8,726 lb (3958 kg)	8,478 lb (3846 kg)	8,555 lb (3880 kg)
Maximum material density – SAE.....	3,761 lb/yd <sup>3</sup> (2231 kg/m <sup>3</sup> )	3,518 lb/yd <sup>3</sup> (2087 kg/m <sup>3</sup> )	3,688 lb/yd <sup>3</sup> (2188 kg/m <sup>3</sup> )
Tipping load – SAE			
Straight.....	20,696 lb (9388 kg)	20,198 lb (9162 kg)	20,355 lb (9233 kg)
40° turn.....	17,452 lb (7916 kg)	16,957 lb (7692 kg)	17,111 lb (7761 kg)
Lift capacity –			
Full height.....	12,401 lb (5625 kg)	11,991 lb (5439 kg)	12,190 lb (5529 kg)
Maximum reach.....	19,364 lb (8783 kg)	18,950 lb (8595 kg)	19,145 lb (8684 kg)
Ground.....	30,265 lb (13 728 kg)	29,681 lb (13 463 kg)	29,822 lb (13 527 kg)
Breakout force – dump cylinder.....	28,682 lb (13 010 kg)	27,120 lb (12 301 kg)	28,143 lb (12 766 kg)
Maximum rollback –			
Ground.....	39°	40°	40°
Carry position.....	46°	46°	46°
@ Maximum reach.....	57°	57°	57°
@ Full height.....	63°	63°	63°
L. Dig depth.....	2.3" (59 mm)	3.4" (86 mm)	3.3" (84 mm)
Maximum grading angle w/bucket – back dragging.....	61°	61°	61°
Loader clearance circle.....	445.9" (11.33 m)	447.3" (11.36 m)	452.4" (11.49 m)
<b>621C XR</b>			
E. Operating height – fully raised w/spillguard.....	203.2" (5.16 m)	203.1" (5.15 m)	203.2" (5.16 m)
F. Hinge pin height – fully raised.....	156.6" (3.98 m)	156.6" (3.98 m)	156.6" (3.98 m)
G. Overall length – bucket level on ground.....	275.7" (7.0 m)	277.9" (7.06 m)	284.6" (7.23 m)
Dump angle – fully raised.....	49°	49°	49°
H. Dump height – fully raised, 45° dump.....	125.7" (3.19 m)	123.9" (3.15 m)	119.2" (3.03 m)
J. Bucket reach – fully raised, 45° dump.....	36.0" (914 mm)	36.4" (925 mm)	41.1" (1.04 m)
K. Bucket reach – 7'0" (2.13 m) height, 45° dump.....	64.8" (1.65 m)	64.4" (1.64 m)	67.1" (1.7 m)
Operating load – SAE.....	7,772 lb (3525 kg)	7,529 lb (3415 kg)	7,606 lb (3450 kg)
Maximum material density – SAE.....	3,350 lb/yd <sup>3</sup> (1988 kg/m <sup>3</sup> )	3,124 lb/yd <sup>3</sup> (1853 kg/m <sup>3</sup> )	3,278 lb/yd <sup>3</sup> (1945 kg/m <sup>3</sup> )
Tipping load – SAE			
Straight.....	18,479 lb (8382 kg)	17,990 lb (8160 kg)	18,146 lb (8231 kg)
40° turn.....	15,545 lb (7051 kg)	15,058 lb (6830 kg)	15,212 lb (6900 kg)
Lift capacity –			
Full height.....	12,605 lb (5718 kg)	12,191 lb (5330 kg)	12,389 lb (5620 kg)
Maximum reach.....	18,606 lb (8440 kg)	18,192 lb (8252 kg)	18,388 lb (8341 kg)
Ground.....	26,487 lb (12 014 kg)	25,971 lb (11 780 kg)	26,117 lb (11 847 kg)
Breakout force – dump cylinder.....	28,582 lb (12 965 kg)	27,046 lb (12 268 kg)	28,066 lb (12 730 kg)
Loader clearance circle.....	453.9" (11.53 m)	455.4" (11.57 m)	460.9" (11.71 m)
<b>621C XT</b>			
	2.25 yd <sup>3</sup> (1.72 m <sup>3</sup> ) Bucket Only*	2.5 yd <sup>3</sup> (1.91 m <sup>3</sup> ) Bucket Only*	2.5 yd <sup>3</sup> (1.91 m <sup>3</sup> ) Bucket w/Edge*
E. Operating height – fully raised w/spillguard.....	199.8" (5.07 m)	201.2" (5.11 m)	198.7" (5.05 m)
F. Hinge pin height – fully raised.....	152.2" (3.87 m)	152.2" (3.87 m)	152.2" (3.87 m)
G. Overall length – bucket level on ground.....	283.8" (7.21 m)	285.9" (7.26 m)	284.9" (7.36 m)
Dump angle – fully raised.....	52°	52°	52°
H. Dump height – fully raised, 45° dump.....	114.6" (2.91 m)	113.0" (2.87 m)	113.6" (2.89 m)
J. Bucket reach – fully raised, 45° dump.....	44.8" (1.14 m)	46.1" (1.17 m)	43.8" (1.11 m)
K. Bucket reach – 7'0" (2.13 m) height, 45° dump.....	66.4" (1.69 m)	66.9" (1.7 m)	64.9" (1.65 m)
Operating load – SAE.....	7,860 lb (3565 kg)	7,741 lb (3511 kg)	7,849 lb (3560 kg)
Maximum material density – SAE.....	3,191 lb/yd <sup>3</sup> (1893 kg/m <sup>3</sup> )	2,789 lb/yd <sup>3</sup> (1665 kg/m <sup>3</sup> )	2,659 lb/yd <sup>3</sup> (1577 kg/m <sup>3</sup> )
Tipping load – SAE			
Straight.....	18,968 lb (8604 kg)	18,717 lb (8490 kg)	18,944 lb (8593 kg)
40° turn.....	15,720 lb (7130 kg)	15,482 lb (7022 kg)	15,697 lb (7120 kg)
Lift capacity –			
Full height.....	11,003 lb (4991 kg)	10,843 lb (4918 kg)	10,983 lb (4982 kg)
Maximum reach.....	17,722 lb (8039 kg)	17,611 lb (7988 kg)	17,715 lb (8036 kg)
Ground.....	31,387 lb (14 237 kg)	31,377 lb (14 232 kg)	30,979 lb (14 052 kg)
Breakout force – dump cylinder.....	27,271 lb (12 370 kg)	25,963 lb (11 777 kg)	25,140 lb (11 404 kg)
Loader clearance circle.....	459.6" (11.67 m)	460.8" (11.7 m)	461.9" (11.73 m)

<b>2.5 yd<sup>3</sup> (1.91 m<sup>3</sup>) Bucket Only</b>	<b>2.5 yd<sup>3</sup> (1.91 m<sup>3</sup>) Bucket w/Bolt-on Edge</b>	<b>2.5 yd<sup>3</sup> (1.91 m<sup>3</sup>) Bucket w/Teeth</b>	<b>2.0 yd<sup>3</sup> (1.53 m<sup>3</sup>) 4 IN 1<sup>®</sup>/Bucket Only</b>
2.15 yd <sup>3</sup> (1.64 m <sup>3</sup> )	2.21 yd <sup>3</sup> (1.69 m <sup>3</sup> )	2.15 yd <sup>3</sup> (1.64 m <sup>3</sup> )	1.77 yd <sup>3</sup> (1.35 m <sup>3</sup> )
2.5 yd <sup>3</sup> (1.91 m <sup>3</sup> )	2.6 yd <sup>3</sup> (1.99 m <sup>3</sup> )	2.5 yd <sup>3</sup> (1.91 m <sup>3</sup> )	2.16 yd <sup>3</sup> (1.65 m <sup>3</sup> )
103.1" (2.62 m)	103.1" (2.62 m)	103.9" (2.64 m)	100.0" (2.54 m)
99.5" (2.53 m)	99.5" (2.53 m)	99.5" (2.53 m)	96.9" (2.46 m)
2,029 lb (920 kg)	2,522 lb (1144 kg)	2,244 lb (1018 kg)	2,724 lb (1236 kg)
193.9" (4.93 m)	193.8" (4.92 m)	193.9" (4.93 m)	190.6" (4.84 m)
145.4" (3.69 m)	145.4" (3.69 m)	145.4" (3.69 m)	145.4" (3.69 m)
267.7" (6.8 m)	270.6" (6.87 m)	277.2" (7.04 m)	270.9" (6.88 m)
50°	50°	50°	50°
113.8" (2.89 m)	111.7" (2.84 m)	107.0" (2.72 m)	111.3" (2.83 m)
38.3" (973 mm)	38.7" (983 mm)	43.7" (1.11 m)	36.8" (935 mm)
57.8" (1.47 m)	57.2" (1.45 m)	59.9" (1.52 m)	55.1" (1.4 m)
8,629 lb (3914 kg)	8,322 lb (3775 kg)	8,491 lb (3851 kg)	7,905 lb (3585 kg)
3,452 lb/yd <sup>3</sup> (2048 kg/m <sup>3</sup> )	3,201 lb/yd <sup>3</sup> (1899 kg/m <sup>3</sup> )	3,396 lb/yd <sup>3</sup> (2015 kg/m <sup>3</sup> )	3,659 lb/yd <sup>3</sup> (2171 kg/m <sup>3</sup> )
20,532 lb (9313 kg)	19,915 lb (9033 kg)	20,255 lb (9188 kg)	18,939 lb (8591 kg)
17,258 lb (7828 kg)	16,643 lb (7549 kg)	16,982 lb (7703 kg)	15,809 lb (7171 kg)
12,085 lb (5481 kg)	11,583 lb (5254 kg)	11,866 lb (5382 kg)	11,334 lb (5141 kg)
19,058 lb (8645 kg)	18,550 lb (8414 kg)	18,836 lb (8544 kg)	18,254 lb (8280 kg)
30,030 lb (13,621 kg)	29,306 lb (13,293 kg)	29,644 lb (13,446 kg)	28,083 lb (12,738 kg)
27,747 lb (12,586 kg)	26,033 lb (11,808 kg)	27,684 lb (12,557 kg)	26,557 lb (12,046 kg)
39°	40°	40°	41°
46°	46°	46°	46°
57°	57°	57°	57°
63°	63°	63°	63°
2.4" (61 mm)	3.6" (91 mm)	3.4" (86 mm)	5.3" (135 mm)
61°	61°	61°	61°
449.3" (11.41 m)	451.0" (11.46 m)	455.4" (11.57 m)	448.5" (11.39 m)
205.1" (5.21 m)	205.0" (5.2 m)	205.0" (5.2 m)	201.8" (5.13 m)
156.6" (3.98 m)	156.6" (3.98 m)	156.6" (3.98 m)	156.6" (3.98 m)
276.6" (7.03 m)	279.3" (7.09 m)	286.0" (7.26 m)	279.5" (7.1 m)
49°	49°	49°	49°
125.0" (3.18 m)	122.9" (3.12 m)	118.2" (3.0 m)	122.4" (3.11 m)
36.6" (930 mm)	37.0" (940 mm)	42.0" (1.07 m)	35.1" (892 mm)
65.1" (1.65 m)	64.6" (1.64 m)	67.5" (1.71 m)	62.5" (1.59 m)
7,661 lb (3475 kg)	7,360 lb (3338 kg)	7,526 lb (3414 kg)	7,001 lb (3176 kg)
3,064 lb/yd <sup>3</sup> (1818 kg/m <sup>3</sup> )	2,831 lb/yd <sup>3</sup> (1679 kg/m <sup>3</sup> )	3,010 lb/yd <sup>3</sup> (1786 kg/m <sup>3</sup> )	3,241 lb/yd <sup>3</sup> (1923 kg/m <sup>3</sup> )
18,280 lb (8292 kg)	17,675 lb (8017 kg)	18,009 lb (8169 kg)	16,840 lb (7638 kg)
15,322 lb (6950 kg)	14,719 lb (6676 kg)	15,052 lb (6827 kg)	14,002 lb (6351 kg)
12,289 lb (5574 kg)	11,786 lb (5346 kg)	12,070 lb (5475 kg)	11,531 lb (5231 kg)
18,298 lb (8300 kg)	17,790 lb (8070 kg)	18,076 lb (8199 kg)	17,502 lb (7939 kg)
26,228 lb (11,897 kg)	25,586 lb (11,606 kg)	25,909 lb (11,752 kg)	24,628 lb (11,171 kg)
27,650 lb (12,542 kg)	25,968 lb (11,779 kg)	27,610 lb (12,524 kg)	26,535 lb (12,036 kg)
457.3" (11.62 m)	459.1" (11.66 m)	463.9" (11.78 m)	456.7" (11.6 m)
<b>2.25 yd<sup>3</sup> (1.72 m<sup>3</sup>) Bucket Only**</b>	<b>2.5 yd<sup>3</sup> (1.91 m<sup>3</sup>) Bucket Only**</b>	<b>2.5 yd<sup>3</sup> (1.91 m<sup>3</sup>) Bucket w/Edge**</b>	NOTE: *XT lift arm with buckets for JRB 416 coupler. **XT lift arm with buckets for ACS Pro Series 2000 <sup>®</sup> size 30HD coupler. Performance data unit equipped with 20.5-25 12PR L2 tires, ROPS cab w/heater and A/C, 3,500 lb (1588 kg) counterweight, standard batteries, front and rear fenders, full fuel and 175 lb (79 kg) operator. Specifications per SAE J732, J1234, J695, J742 and J818.
197.9" (5.03 m)	201.8" (5.13 m)	200.6" (5.1 m)	
152.2" (3.87 m)	152.2" (3.87 m)	152.2" (3.87 m)	
280.3" (7.12 m)	283.3" (7.2 m)	284.2" (7.22 m)	
52°	52°	52°	
116.8" (2.97 m)	114.6" (2.91 m)	113.7" (2.89 m)	
39.9" (1.01 m)	42.0" (1.07 m)	41.5" (1.05 m)	
62.5" (1.59 m)	63.6" (1.62 m)	62.7" (1.59 m)	
7,568 lb (3433 kg)	7,389 lb (3352 kg)	7,417 lb (3364 kg)	
3,102 lb/yd <sup>3</sup> (1840 kg/m <sup>3</sup> )	2,588 lb/yd <sup>3</sup> (1535 kg/m <sup>3</sup> )	2,703 lb/yd <sup>3</sup> (1604 kg/m <sup>3</sup> )	
18,306 lb (8304 kg)	17,196 lb (8127 kg)	18,003 lb (8166 kg)	
15,136 lb (6865 kg)	14,778 lb (6703 kg)	14,834 lb (6728 kg)	
10,629 lb (4821 kg)	10,412 lb (4723 kg)	10,024 lb (4547 kg)	
17,505 lb (7940 kg)	17,373 lb (7880 kg)	17,036 lb (7728 kg)	
31,054 lb (14,086 kg)	31,274 lb (14,186 kg)	30,644 lb (13,900 kg)	
31,204 lb (14,154 kg)	28,765 lb (13,048 kg)	27,351 lb (12,406 kg)	
458.1" (11.64 m)	459.8" (11.68 m)	457.7" (11.63 m)	

## **INSTRUMENTATION**

Electronic Information Center  
Displays/Gauges –  
Speedometer  
Tachometer  
Direction selected F-N-R  
Transmission modes –  
Auto shift/Manual shift  
Gear selected  
Gear position  
Turn signal indicator  
Engine coolant temperature  
Engine oil pressure  
Fuel level  
Transmission oil temperature  
Hydraulic oil temperature  
Voltmeter  
Hourmeter  
Indicator lights –  
Beacon\*  
Work lights  
Loader control lockout  
Low coolant  
Brake pressure  
Master indicator  
Auxiliary steering\*  
Parking brake  
Air conditioning\*  
Hydraulic oil filter  
Transmission filter  
Air filter  
Audible alarms –  
Caution alarm  
Critical alarm  
Backup alarm  
Horn

NOTE: \*If equipped with option.

## **OPERATOR ENVIRONMENT**

ROPS canopy  
Key start  
Articulated power steering  
w/tilt column  
Fully adjustable, vinyl suspension  
seat  
Foot throttle  
2-Lever loader control w/wrist rest  
Cup holder  
Coat hook  
(2) Interior rear-view mirrors  
2" (51 mm) retractable seat belt  
Storage tray behind seat  
Lunch box retainer strap

## **LOADER**

Z-bar loader linkage  
2-lever control for lift and tilt  
Positive hold float  
Automatic return-to-dig  
Automatic height control  
Automatic return-to-travel  
Automatic self-leveling on XT  
Brake pedal transmission disconnect  
Bucket position indicator

## **CYCLE TIME**

Raise w/rated bucket load..... 5.4 sec  
Dump w/rated bucket load  
Z-Bar, XR ..... 1.5 sec  
XT ..... 1.7 sec  
Lower (empty)  
Power down ..... 5.0 sec  
Float down ..... 4.4 sec

## **SERVICE CAPACITIES**

Fuel tank..... 51 gal (193 L)  
Hydraulic system  
Total ..... 40.5 gal (153.3 L)  
Reservoir ..... 23.8 gal (90.1 L)  
Transmission  
Service w/filter ..... 2 gal (7.4 L)  
Front and rear axle  
Differential (each)..... 10 qt (9.5 L)  
Planetaries (each)..... 6 qt (5.5 L)  
Total axle (each) ..... 22 qt (20.8 L)  
Engine oil w/filter ..... 16 qt (15.1 L)  
Cooling system ..... 7 gal (26.5 L)

## **OPERATING WEIGHTS**

### **Z-Bar**

Unit equipped with ROPS cab with heater and A/C, 2,500 lb (1134 kg) counterweight, 20.5-25 12PR L2 tires, front and rear fenders, 2.25 yd<sup>3</sup> (1.72 m<sup>3</sup>) general purpose loader bucket w/edge, full fuel, 175 lb (79 kg) operator..... 26,714 lb (12 117 kg)

### **XR**

Unit equipped with ROPS cab with heater and A/C, 2,500 lb (1134 kg) counterweight, 20.5-25 12PR L2 tires, front and rear fenders, 2.25 yd<sup>3</sup> (1.72 m<sup>3</sup>) general purpose loader bucket w/edge, full fuel, 175 lb (79 kg) operator ..... 27,091 lb (12 288 kg)

### **XT**

Unit equipped with ROPS cab with heater and A/C, 3,500 lb (1588 kg) counterweight, 20.5-25 12PR L2 tires, front and rear fenders, 2.25 yd<sup>3</sup> (1.72 m<sup>3</sup>) ACS loader bucket w/edge and coupler, full fuel, 175 lb (79 kg) operator ..... 28,810 lb (13 068 kg)

## STANDARD EQUIPMENT

### OPERATOR'S COMPARTMENT

See page 5

### ENGINE

Case 6T-590 diesel  
Turbocharger  
Automatic fan belt tensioner  
Integral engine oil cooling  
Fuel filter w/water trap  
Air intake pre-cleaner  
Dual element air cleaner  
65 amp alternator  
(2) 700 CCA 12-volt batteries  
Liquid-cooled radiator  
Non spark-arresting muffler

### LOADER

See page 5

### DRIVETRAIN

4-wheel drive  
4F/3R Selectable autoshift/manual shift transmission  
Electronic Control Module – Programmable, computer controlled proportional shifting with programmable gear selection  
On-board diagnostics  
Single lever electronic shift control  
Downshift button  
Torque converter  
Outboard planetary axles  
Limited-slip differentials  
Transmission oil cooler  
Brake pedal transmission disconnect  
Hydraulic wet disc brakes  
Electric parking brake  
Limp-Home Mode  
Fully pressurized lubrication

### HYDRAULICS

2-spool loader control valve  
Full-flow oil cooler  
Flow-amplified, wide-angle steering  
(7) Diagnostic quick couplers

### OTHER

Front and rear fenders  
Lights –  
2 Front headlights  
2 Front flood  
2 Front working  
2 Rear tail and stop  
2 Rear flood  
Front and rear turn signal/flash  
Counterweights  
Z-bar: 1,500 lb (680 kg)  
XR/XT: 2,500 lb (1134 kg)  
Drawbar hitch  
Articulation locking bar

## OPTIONAL EQUIPMENT

### OPERATOR'S COMPARTMENT

Cab with –  
Pressurized, air filtering  
Anti-glare window strip and visor  
Defroster  
Cloth covered mechanical suspension seat  
(2) interior rear-view mirrors  
Side windows, partial/fully opening  
Dome light  
Wipers, rear and intermittent front  
Windshield washers, front and rear  
Rubber floor mat  
Cloth covered air-suspension seat  
3" (76 mm) retractable seat belt  
Sound suppression package  
Cab heater  
Cab air-conditioning w/heater  
Radio or radio/cassette  
Radio-ready (12- or 24-volt)  
Auxiliary power (12-volt)  
Lighter (24-volt)  
West Coast mirrors  
Rotating beacon

### ENGINE

Cold weather ether starting aids  
Engine block heater

### LOADER

XR Extended Reach Loader Arms  
XT Tool-Carrier Loader Arms  
Hydraulic attachment coupler  
Attachment auxiliary hydraulics  
Loader controls –  
2-spool, 1-lever  
3-spool, 2-lever  
3-spool, 3-lever  
4-spool, 2-lever  
Lever conversion kits –  
To 1-, 2- or 3-lever  
Buckets (see page 3, 4)

### HYDRAULICS

Auxiliary hydraulics  
Ride Control  
Auxiliary steering  
3- or 4-spool loader valves with 2- or 3- lever loader control

### TIRES

17.5-25 12PR L2 bias (dirt/traction)  
17.5-25 12PR L3 bias (rock)  
17.5-R25 XTLA radial (dirt/traction)  
17.5-R25 XHA radial (rock)  
20.5-25 12PR L2 bias (dirt/traction)  
20.5-25 12PR L3 bias (rock)  
20.5-25 16PR L2 bias (dirt/traction)  
20.5-R25 XTLA radial (dirt/traction)  
20.5-R25 XHA radial (rock)  
555/70R25 XLD 70-1 radial (rock)

### OTHER

Heavy-duty batteries (2) 900 CCA  
1,000 lb (680 kg) counterweight\*  
Sound package to 72 dBA  
Armor core radiator  
Special paint  
Tie-down brackets

NOTE: \*Additional to standard counterweight for Z-Bar, XR and XT models.

NOTE: All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.

IMPORTANT: Case Corporation reserves the right to change these specifications without notice and without incurring any obligation relating to such change.

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