

### ENGINE

|                              |  |
|------------------------------|--|
| Model                        | Case Family IV<br>667TA/EED, Tier III certified                    |
| Type                         | 4-stroke, turbocharged<br>and air-to-air cooled                    |
| Cylinders                    | 6  |
| Bore/Stroke                  | 4.09 in x 5.20 in<br>(104 X 132 mm)                                |
| Displacement                 | 411 in <sup>3</sup> (6.7 L)  |
| Fuel injection               | Electronic   |
| Fuel                         | #2 Diesel  |
| Fuel filter                  | Replaceable, full flow<br>spin-on cartridge                        |
| Fuel cooler                  |  |
| Air filter                   | Dry type element<br>w/warning restriction indicator                |
| Mid-mount cooling module     | External independent mounted coolers                               |
| Fan                          |  |
| Style                        | 8 blade puller   |
| Diameter                     | 32 in (813 mm)   |
| Water pump                   |  |
| Style                        | Integral   |
| Engine oil                   |  |
| Pump                         | Deep sump plate cooler<br>with pressurized<br>under-piston nozzles |
| Pump operating angle ratings |  |
| Side-to-side                 | Rated 35°  |
| Fore and aft                 | Rated 35°  |
| Oil filtration               | Replaceable,<br>full flow spin-on cartridge                        |
| Engine speeds (rpm)          |  |
| Rated speed, full load       | 2000   |
| Horsepower – Peak            |  |
| Max Power                    |  |
| Gross                        | 195 (145 kW) @ 2000 rpm  |
| Net                          | 183 (137 kW) @ 2000 rpm  |
| Standard Power               |  |
| Gross                        | 182 (136 kW) @ 1900 rpm  |
| Net                          | 172 (128 kW) @ 1800 rpm  |
| Economy Power                |  |
| Gross                        | 157 (117 kW) @ 1500 rpm  |
| Net                          | 149 (111 kW) @ 1500 rpm  |

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

### ENGINE (CONTD.)

|                           |                               |
|---------------------------|-------------------------------|
| Torque – Peak             |                               |
| Max Power                 |                               |
| Gross                     | 636 lb-ft (862 N·m)@ 1400 rpm |
| Net                       | 605 lb-ft (821 N·m)@ 1400 rpm |
| Standard Power            |                               |
| Gross                     | 625 lb-ft (847 N·m)@ 1400 rpm |
| Net                       | 596 lb-ft (809 N·m)@ 1300 rpm |
| Economy Power             |                               |
| Gross                     | 614 lb-ft (832 N·m)@ 1200 rpm |
| Net                       | 590 lb-ft (800 N·m)@ 1200 rpm |
| Torque rise               |                               |
| Standard power @ 2000 rpm | 31.4%                         |

### DRIVETRAIN

|   |   |             |
|---|---|-------------|
| Transmission                                    | 4F/3R Proportional w/Electronic Control<br>Module torque sensing autoshift/manual shift<br>and modulation |             |
| Gears   | Helical cut   |             |
| Gear ratios                                     | Forward   | Reverse     |
| 1st   | 3.745   | 3.551       |
| 2nd   | 2.089   | 1.981       |
| 3rd   | 1.072   | 1.017       |
| 4th   | 0.636   | NA          |
| Torque converter                                | Stall ratio 2.81:1  |             |
| Differential                                    | Limited slip<br>on front and rear axles   |             |
| Rear axle oscillation                           | 24° total   |             |
| Axles   | Front   | Rear        |
| Differential ratio                              | 3.364   | 3.182       |
| Planetary ratio                                 | 6.000   | 6.400       |
| Final axle ratio                                | 20.18   | 20.36       |
| Planetaries                                     | Outboard  |             |
| Service brakes                                  | Hydraulically actuated, maintenance-free,<br>multiple wet disc w/accumulator to all four<br>wheels        |             |
| Brake surface area                              | 480 in <sup>2</sup> per hub<br>(0.31 m <sup>2</sup> )   |             |
| Parking brakes                                  | Spring-applied hydraulic release disc on<br>transmission output shaft                                     |             |
| Travel speeds – mph (km/h) w/20.5 x 25 L3 tires | Forward   | Reverse     |
| 1st   | 4.7 (7.6)   | 5.0 (8.0)   |
| 2nd   | 8.3 (13.3)  | 8.7 (14.0)  |
| 3rd   | 15.3 (24.6)   | 16.0 (25.7) |
| 4th   | 23.6 (38.0)   | NA          |

NOTE: Travel speeds at full engine throttle.

### ELECTRICAL

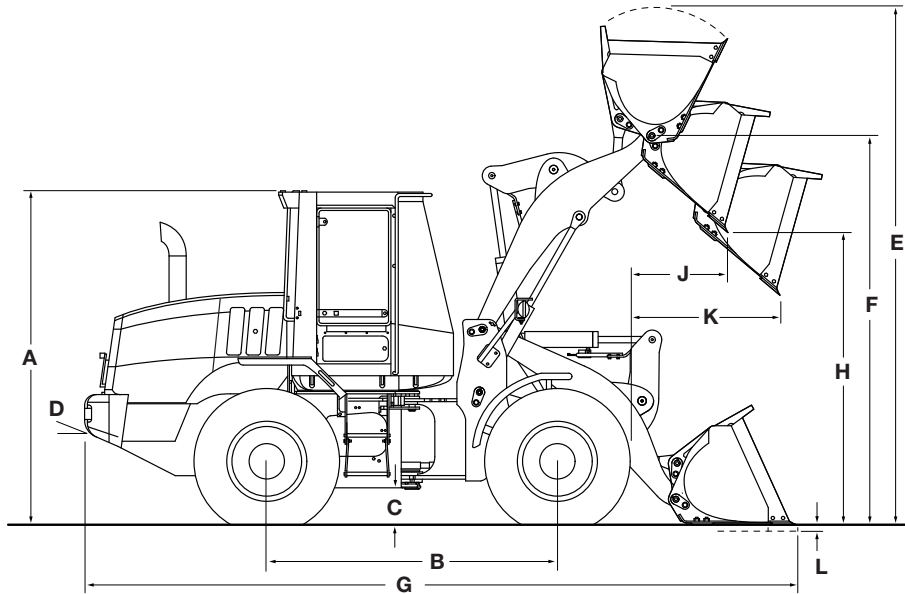
|            |                           |
|------------|---------------------------|
| Voltage    | 24 Volts, negative ground |
| Alternator | 65 amp                    |
| Batteries  | (2) 12-Volt               |

### HYDRAULICS

|                           |  |
|---------------------------|--|
| Pump (steering/implement) | Closed centered pressure/flow compensated  |
| Variable displacement     | 3.84 in <sup>3</sup> /rev 31.6 gpm @ 2000 rpm @ 3600 psi<br>(119.6 L/min @ 2000 rpm @ 24 821 kPa)  |
| Implement pump            | Closed centered<br>pressure/flow compensated   |
| Variable displacement     | 2.74 in <sup>3</sup> /rev 22.6 gpm @ 2000 rpm @ 3600 psi<br>(85.6 L/min @ 2000 rpm @ 24 821 kPa)   |
| Loader control valve      | Closed-center, sectional 2, 3 or 4-spool with<br>pilot control for lift, tilt and auxiliary<br>hydraulics, electromagnetic detents in float,<br>raise and rollback |
| Loader auxiliary steering | Hydraulic orbital center-pivot articulating<br>w/on-demand oil flow  |
| High pressure standby     | 3600 psi<br>(24 821 kPa)   |
| Filtration                | 10-micron, full flow replaceable cartridges on<br>return line, condition indicator light for filter  |

### CYLINDERS

|                              |                     |
|------------------------------|---------------------|
| Lift cylinder                |                     |
| Bore diameter                | 4.75 in (120.6 mm)  |
| Rod diameter                 | 3.00 in (76.2 mm)   |
| Stroke                       | 32.59 in (827.9 mm) |
| Dump cylinder (Z-Bar and XR) |                     |
| Bore diameter                | 5.75 in (146.0 mm)  |
| Rod diameter                 | 3.00 in (76.2 mm)   |
| Stroke                       | 24.78 in (629.4 mm) |
| Dump cylinder (XT)           |                     |
| Bore diameter                | 4.50 in (114.3 mm)  |
| Rod diameter                 | 2.25 in (57.2 mm)   |
| Stroke                       | 33.72 in (856.5 mm) |



## DIMENSIONS

|                                     |                    |
|-------------------------------------|--------------------|
| <b>A.</b> Height to top of ROPS cab | 134.0 in (3404 mm) |
| <b>B.</b> Wheelbase                 | 128.1 in (3253 mm) |
| <b>C.</b> Ground clearance          | 14.4 in (365 mm)   |
| <b>D.</b> Angle of departure        | 32°                |
| Width –                             |                    |
| Overall* w/o bucket                 | 100.9 in (2562 mm) |
| Centerline tread                    | 79.9 in (2029 mm)  |
| Turning radius* – outside           | 226.4 in (5750 mm) |
| Turning angle –                     |                    |
| From center                         | 40°                |
| Total angle                         | 80°                |
| Rear axle oscillation, total        | 24°                |

NOTE: \*Dimensions taken with 20.5R25 Michelin XTLA tires. Additional dimensions on pages 3 & 4.

## WEIGHT ADJUSTMENTS

| Select Options          | Weight Adjustment   | Tipping Load Adjustment Straight | Tipping Load Adjustment 40° Turn |
|-------------------------|---------------------|----------------------------------|----------------------------------|
| 20.5x25 12 ply L2 tires | -480 lb (-218 kg)   | -376 lb (-171 kg)                | -332 lb (-151 kg)                |
| 20.5x25 12 ply L3 tires | -152 lb (-69 kg)    | -119 lb (-54 kg)                 | -105 lb (-48 kg)                 |
| 20.5R25 XTLA TL tires   | -380 lb (-172 kg)   | -298 lb (-135 kg)                | -263 lb (-119 kg)                |
| Standard counterweight  | -1,224 lb (-555 kg) | -2,787 lb (-1264 kg)             | -2,359 lb (-1070 kg)             |
| ROPS Canopy             | -295 lb (-134 kg)   | -339 lb (-154 kg)                | -314 lb (-142 kg)                |

NOTE: \*\*Unit equipped with Z-Bar loader arms, 3.0 yd3 (2.3 m3) general purpose pin on bucket w/bolt-on edge, 20.5R25 XHA Michelin tires, ROPS cab with heater and air conditioner, full counterweight, standard batteries, front and rear fenders, full fuel and 175 lb (79 kg) operator. Adjust select options from rated weight.

## PERFORMANCE DATA

### 721E Z-Bar\*

|  | 3.5 yd <sup>3</sup> GP (2.70 m <sup>3</sup> )<br>Bucket w/Bolt-on Edge | 3.25 yd <sup>3</sup> GP (2.49 m <sup>3</sup> )<br>Bucket w/Bolt-on Edge |
|--|--|---|
| SAE bucket capacity – struck                                 | 3.01 yd <sup>3</sup> (2.30 m <sup>3</sup> )                            | 2.76 yd <sup>3</sup> (2.11 m <sup>3</sup> )                             |
| Heaped   | 3.50 yd <sup>3</sup> (2.68 m <sup>3</sup> )                            | 3.25 yd <sup>3</sup> (2.49 m <sup>3</sup> )                             |
| Bucket width – outside                                       | 106.3 in (2700 mm)   | 106.3 in (2700 mm)  |
| Bucket weight  | 2,772 lb (1257 kg)   | 2,615 lb (1186 kg)  |
| <b>E.</b> Operating height – fully raised w/spillguard       | 208.5 in (5297 mm)   | 205.8 in (5228 mm)  |
| <b>F.</b> Hinge pin height – fully raised                    | 156.6 in (3979 mm)   | 156.6 in (3979 mm)  |
| <b>G.</b> Overall length – bucket level on ground            | 303.5 in (7710 mm)   | 301.2 in (7650 mm)  |
| Dump angle – fully raised                                    | 55°  | 55°   |
| <b>H.</b> Dump height – fully raised, 45° dump               | 113.7 in (2889 mm)   | 115.3 in (2927 mm)  |
| <b>J.</b> Bucket reach – fully raised, 45° dump              | 46.1 in (1172 mm)  | 44.3 in (1126 mm)   |
| <b>K.</b> Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump | 66.4 in (1688 mm)  | 65.3 in (1659 mm)   |
| Operating load – ISO   | 11,967 lb (5428 kg)  | 12,036 lb (5459 kg)   |
| Maximum material density – ISO                               | 3,419 lb/yd <sup>3</sup> (2029 kg/m <sup>3</sup> )                     | 3,702 lb/yd <sup>3</sup> (2196 kg/m <sup>3</sup> )                      |
| Tipping load – ISO   |  |   |
| Straight   | 27,616 lb (12 526 kg)  | 27,754 lb (12 589 kg)   |
| 40° turn   | 23,933 lb (10 856 kg)  | 24,072 lb (10 919 kg)   |
| Lift capacity –  |  |   |
| Full height  | 16,005 lb (7260 kg)  | 16,162 lb (7331 kg)   |
| Maximum reach  | 22,386 lb (10 154 kg)  | 22,551 lb (10 229 kg)   |
| Ground   | 29,687 lb (13 466 kg)  | 29,992 lb (13 604 kg)   |
| Breakout force w/tilt cylinder                               | 29,805 lb (13 519 kg)  | 31,431 lb (14 257 kg)   |
| Maximum rollback –   |  |   |
| Ground   | 40°  | 39°   |
| Carry position   | 43°  | 43°   |
| @ Maximum reach  | 54°  | 54°   |
| @ Full height  | 57°  | 57°   |
| <b>L.</b> Dig depth  | 3.0 in (76 mm)   | 3.0 in (76 mm)  |
| Maximum grading angle w/bucket – back dragging               | 60°  | 60°   |
| Loader clearance circle                                      | 498.9 in (12 671 mm)   | 497.5 in (12 636 mm)  |

### 721E/XT

|  | 3.0 yd <sup>3</sup> GP (2.3 m <sup>3</sup> )<br>ACS Bucket w/Edge** | 3.0 yd <sup>3</sup> GP (2.3 m <sup>3</sup> )<br>ACS Bucket w/Teeth & Segments** |
|--|---|---|
| <b>E.</b> Operating height – fully raised w/spillguard       | 208.8 in (5305 mm)  | 208.9 in (5305 mm)  |
| <b>F.</b> Hinge pin height – fully raised                    | 156.5 in (3975 mm)  | 156.5 in (3975 mm)  |
| <b>G.</b> Overall length – bucket level on ground            | 306.0 in (7773 mm)  | 311.8 in (7919 mm)  |
| Dump angle – fully raised                                    | 52°   | 52°   |
| <b>H.</b> Dump height – fully raised, 45° dump               | 112.1 in (2847 mm)  | 108.3 in (2751 mm)  |
| <b>J.</b> Bucket reach – fully raised, 45° dump              | 47.8 in (1215 mm)   | 51.8 in (1317 mm)   |
| <b>K.</b> Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump | 67.3 in (1709 mm)   | 69.4 in (1762 mm)   |
| Operating load – ISO   | 11,128 lb (5048 kg)   | 11,147 lb (5056 kg)   |
| Maximum material density – ISO                               | 3,759 lb/yd <sup>3</sup> (2231 kg/m <sup>3</sup> )                  | 3,766 lb/yd <sup>3</sup> (2235 kg/m <sup>3</sup> )                              |
| Tipping load – ISO   |   |   |
| Straight   | 25,783 lb (11 695 kg)   | 25,821 lb (11 712 kg)   |
| 40° turn   | 22,256 lb (10 095 kg)   | 22,295 lb (10 113 kg)   |
| Lift capacity –  |   |   |
| Full height  | 15,042 lb (6823 kg)   | 15,077 lb (6839 kg)   |
| Maximum reach  | 21,333 lb (9677 kg)   | 21,369 lb (9693 kg)   |
| Ground   | 28,197 lb (12 790 kg)   | 28,259 lb (12 818 kg)   |
| Breakout force w/tilt cylinder                               | 28,770 lb (13 050 kg)   | 26,011 lb (11 798 kg)   |
| Loader clearance circle                                      | 499.7 in (12 692 mm)  | 503.1 in (12 779 mm)  |

### 721E XR

|  | 3.0 yd <sup>3</sup> GP (2.29 m <sup>3</sup> )<br>Bucket w/Bolt-on Edge | 3.25 yd <sup>3</sup> GP (2.5 m <sup>3</sup> )<br>Bucket w/Bolt-on Edge | 3.25 yd <sup>3</sup> GP (2.5 m <sup>3</sup> )<br>Bucket w/Teeth & Segments |
|--|--|--|--|
| <b>E.</b> Operating height – fully raised w/spillguard       | 224.1 in (5692 mm)   | 221.4 in (5623 mm)   | 221.4 in (5623 mm)   |
| <b>F.</b> Hinge pin height – fully raised                    | 172.2 in (4374 mm)   | 172.2 in (4374 mm)   | 172.2 in (4374 mm)   |
| <b>G.</b> Overall length – bucket level on ground            | 317.6 in (8066 mm)   | 315.2 in (8006 mm)   | 321.2 in (8156 mm)   |
| Dump angle – fully raised                                    | 55°  | 55°  | 55°  |
| <b>H.</b> Dump height – fully raised, 45° dump               | 129.4 in (3286 mm)   | 130.9 in (3324 mm)   | 127.0 in (3225 mm)   |
| <b>J.</b> Bucket reach – fully raised, 45° dump              | 46.1 in (1172 mm)  | 44.3 in (1126 mm)  | 48.5 in (1231 mm)  |
| <b>K.</b> Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump | 78.7 in (1998 mm)  | 77.5 in (1968 mm)  | 80.0 in (2032 mm)  |
| Operating load – ISO   | 9,623 lb (4365 kg)   | 9,760 lb (4427 kg)   | 9,645 lb (4375 kg)   |
| Maximum material density – ISO                               | 2,749 lb/yd <sup>3</sup> (1631 kg/m <sup>3</sup> )                     | 3,002 lb/yd <sup>3</sup> (1781 kg/m <sup>3</sup> )                     | 2,966 lb/yd <sup>3</sup> (1760 kg/m <sup>3</sup> )                         |
| Tipping load – ISO   |  |  |  |
| Straight   | 22,367 lb (10 145 kg)  | 22,652 lb (10 275 kg)  | 22,423 lb (10 171 kg)  |
| 40° turn   | 19,245 lb (8729 kg)  | 19,519 lb (8854 kg)  | 19,290 lb (8750 kg)  |
| Lift capacity –  |  |  |  |
| Full height  | 15,307 lb (6943 kg)  | 15,515 lb (7037 kg)  | 15,323 lb (6950 kg)  |
| Maximum reach  | 19,897 lb (9025 kg)  | 20,111 lb (9122 kg)  | 19,916 lb (9034 kg)  |
| Ground   | 23,738 lb (10 768 kg)  | 24,047 lb (10 907 kg)  | 23,843 lb (10 815 kg)  |
| Breakout force w/tilt cylinder                               | 29,615 lb (13 433 kg)  | 31,258 lb (14 179 kg)  | 31,089 lb (14 102 kg)  |
| Loader clearance circle                                      | 511.6 in (12 996 mm)   | 510.1 in (12 956 mm)   | 515.3 in (13 090 mm)   |

## PERFORMANCE DATA

### 721E Z-Bar\*

|  | 3.25 yd <sup>3</sup> GP (2.49 m <sup>3</sup> )<br>Bucket w/Teeth & Segments | 3.0 yd <sup>3</sup> GP (2.3 m <sup>3</sup> )<br>Bucket w/Bolt-on Edge | 3.0 yd <sup>3</sup> GP (2.3 m <sup>3</sup> )<br>Bucket w/Teeth & Segments |
|--|---|---|---|
| SAE bucket capacity – struck                                 | 2.76 yd <sup>3</sup> (2.11 m <sup>3</sup> )                                 | 2.53 yd <sup>3</sup> (1.94 m <sup>3</sup> )                           | 2.53 yd <sup>3</sup> (1.94 m <sup>3</sup> )                               |
| Heaped   | 3.25 yd <sup>3</sup> (2.49 m <sup>3</sup> )                                 | 3.01 yd <sup>3</sup> (2.30 m <sup>3</sup> )                           | 3.01 yd <sup>3</sup> (2.30 m <sup>3</sup> )                               |
| Bucket width – outside                                       | 107.7 in (2736 mm)  | 106.3 in (2700 mm)  | 107.7 in (2736 mm)  |
| Bucket weight  | 2,807 lb (1273 kg)  | 2,506 lb (1137 kg)  | 2,699 lb (1224 kg)  |
| <b>E.</b> Operating height – fully raised w/spillguard       | 205.8 in (5228 mm)  | 203.4 in (5167 mm)  | 203.4 in (5167 mm)  |
| <b>F.</b> Hinge pin height – fully raised                    | 156.6 in (3979 mm)  | 156.6 in (3979 mm)  | 156.6 in (3979 mm)  |
| <b>G.</b> Overall length – bucket level on ground            | 307.1 in (7801 mm)  | 299.1 in (7596 mm)  | 305.1 in (7749 mm)  |
| Dump angle – fully raised                                    | 55°   | 55°   | 55°   |
| <b>H.</b> Dump height – fully raised, 45° dump               | 111.3 in (2828 mm)  | 116.6 in (2961 mm)  | 112.6 in (2861 mm)  |
| <b>J.</b> Bucket reach – fully raised, 45° dump              | 48.5 in (1232 mm)   | 42.8 in (1087 mm)   | 46.9 in (1192 mm)   |
| <b>K.</b> Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump | 67.6 in (1717 mm)   | 64.3 in (1633 mm)   | 66.7 in (1694 mm)   |
| Operating load – ISO   | 11,918 lb (5406 kg)   | 12,067 lb (5474 kg)   | 11,950 lb (5420 kg)   |
| Maximum material density – ISO                               | 3,665 lb/yd <sup>3</sup> (2175 kg/m <sup>3</sup> )                          | 4,009 lb/yd <sup>3</sup> (2379 kg/m <sup>3</sup> )                    | 3,970 lb/yd <sup>3</sup> (2356 kg/m <sup>3</sup> )                        |
| Tipping load – ISO   |   |   |   |
| Straight   | 27,518 lb (12 482 kg)   | 27,812 lb (12 615 kg)   | 27,577 lb (12 509 kg)   |
| 40° turn   | 23,836 lb (10 812 kg)   | 24,135 lb (10 947 kg)   | 23,900 lb (10 841 kg)   |
| Lift capacity –  |   |   |   |
| Full height  | 15,970 lb (7244 kg)   | 16,271 lb (7380 kg)   | 16,078 lb (7293 kg)   |
| Maximum reach  | 22,355 lb (10 140 kg)   | 22,665 lb (10 281 kg)   | 22,469 lb (10 192 kg)   |
| Ground   | 29,790 lb (13 512 kg)   | 30,227 lb (13 711 kg)   | 30,023 lb (13 618 kg)   |
| Breakout force w/tilt cylinder                               | 31,253 lb (14 176 kg)   | 32,958 lb (14 950 kg)   | 32,780 lb (14 869 kg)   |
| Maximum rollback –   |   |   |   |
| Ground   | 40°   | 39°   | 40°   |
| Carry position   | 43°   | 43°   | 43°   |
| @ Maximum reach  | 54°   | 54°   | 54°   |
| @ Full height  | 57°   | 57°   | 57°   |
| <b>L.</b> Dig depth  | 3.3 in (84 mm)  | 3.0 in (76 mm)  | 3.3 in (84 mm)  |
| Maximum grading angle w/bucket – back dragging               | 61°   | 60°   | 61°   |
| Loader clearance circle                                      | 502.3 in (12 757 mm)  | 496.4 in (12 608 mm)  | 501.1 in (12 727 mm)  |

### 721E/XT

|  | 3.0 yd <sup>3</sup> GP (2.3 m <sup>3</sup> )<br>Case Coupler Bucket w/Edge*** | 3.0 yd <sup>3</sup> GP (2.3 m <sup>3</sup> )<br>Case Coupler w/Teeth & Segments*** |
|--|---|--|
| <b>E.</b> Operating height – fully raised w/spillguard       | 215.8 in (5481 mm)  | 215.8 in (5481 mm)   |
| <b>F.</b> Hinge pin height – fully raised                    | 163.8 in (4161 mm)  | 163.8 in (4161 mm)   |
| <b>G.</b> Overall length – bucket level on ground            | 310.2 in (7880 mm)  | 315.9 in (8023 mm)   |
| Dump angle – fully raised                                    | 55°   | 55°  |
| <b>H.</b> Dump height – fully raised, 45° dump               | 116.3 in (2954 mm)  | 112.6 in (2860 mm)   |
| <b>J.</b> Bucket reach – fully raised, 45° dump              | 48.7 in (1238 mm)   | 52.5 in (1334 mm)  |
| <b>K.</b> Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump | 71.1 in (1806 mm)   | 73.1 in (1858 mm)  |
| Operating load – ISO   | 10,095 lb (4579 kg)   | 10,021 lb (4545 kg)  |
| Maximum material density – ISO                               | 3,430 lb/yd <sup>3</sup> (2036 kg/m <sup>3</sup> )                            | 3,405 lb/yd <sup>3</sup> (2021 kg/m <sup>3</sup> )                                 |
| Tipping load – ISO   |   |  |
| Straight   | 23,425 lb (10 626 kg)   | 23,277 lb (10 558 kg)  |
| 40° turn   | 20,191 lb (9158 kg)   | 20,042 lb (9091 kg)  |
| Lift capacity –  |   |  |
| Full height  | 15,133 lb (6864 kg)   | 15,003 lb (6805 kg)  |
| Maximum reach  | 20,356 lb (9233 kg)   | 20,234 lb (9178 kg)  |
| Ground   | 29,263 lb (13 273 kg)   | 29,037 lb (13 171 kg)  |
| Breakout force w/tilt cylinder                               | 29,172 lb (13 232 kg)   | 29,062 lb (13 182 kg)  |
| Loader clearance circle                                      | 494.9 in (12 571 mm)  | 498.2 in (12 655 mm)   |

NOTE: \*Z-Bar performance data shown w/full counterweight.  
 \*\*XT lift arm with buckets for ACS Pro Series 2000® size 30 HD coupler.  
 \*\*\*XT lift arm with bucket for Case coupler.

Performance data unit equipped with 20.5R25 Michelin XTLA tires, ROPS cab w/heater and A/C, full counterweight, standard batteries, front and rear fenders, full fuel and 175 lb (75 kg) operator. Specifications per SAE J732, J1234, J695, J742, and J818.

### 721E XR

|  | 3.0 yd <sup>3</sup> GP (2.3 m <sup>3</sup> )<br>Bucket w/Bolt-on Edge | 3.0 yd <sup>3</sup> GP (2.3 m <sup>3</sup> )<br>Bucket w/Teeth & Segments |
|--|---|---|
| <b>E.</b> Operating height – fully raised w/spillguard       | 219.0 in (5564 mm)  | 219.0 in (5564 mm)  |
| <b>F.</b> Hinge pin height – fully raised                    | 172.2 in (4374 mm)  | 172.2 in (4374 mm)  |
| <b>G.</b> Overall length – bucket level on ground            | 313.2 in (7955 mm)  | 319.1 in (8105 mm)  |
| Dump angle – fully raised                                    | 55°   | 55°   |
| <b>H.</b> Dump height – fully raised, 45° dump               | 132.2 in (3353 mm)  | 128.3 in (3258 mm)  |
| <b>J.</b> Bucket reach – fully raised, 45° dump              | 42.8 in (1087 mm)   | 46.9 in (1192 mm)   |
| <b>K.</b> Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump | 76.4 in (1942 mm)   | 79.0 in (2007 mm)   |
| Operating load – ISO   | 9,836 lb (4461 kg)  | 9,722 lb (4410 kg)  |
| Maximum material density – ISO                               | 3,268 lb/yd <sup>3</sup> (1939 kg/m <sup>3</sup> )                    | 3,230 lb/yd <sup>3</sup> (1916 kg/m <sup>3</sup> )                        |
| Tipping load – ISO   |   |   |
| Straight   | 22,811 lb (10 347 kg)   | 22,583 lb (10 243 kg)   |
| 40° turn   | 19,672 lb (8923 kg)   | 19,444 lb (8819 kg)   |
| Lift capacity –  |   |   |
| Full height  | 15,623 lb (7086 kg)   | 15,431 lb (7000 kg)   |
| Maximum reach  | 20,224 lb (9173 kg)   | 20,028 lb (9085 kg)   |
| Ground   | 24,241 lb (10 996 kg)   | 24,036 lb (10 903 kg)   |
| Breakout force w/tilt cylinder                               | 32,778 lb (14 868 kg)   | 32,068 lb (14 791 kg)   |
| Loader clearance circle                                      | 508.7 in (12 922 mm)  | 514.0 in (13 055 mm)  |

## INSTRUMENTATION

|  |
|--|
| Electronic Information Center                |
| Displays/Gauges –                            |
| Speedometer                                  |
| Tachometer                                   |
| Direction selected F/N/R                     |
| Transmission modes – Auto shift/Manual shift |
| Gear position                                |
| Engine coolant temperature                   |
| Fuel level                                   |
| Transmission oil temperature                 |
| Hydraulic oil temperature                    |
| Hourmeter                                    |
| Work mode                                    |
| Indicator lights –                           |
| Low fuel                                     |
| Turn signals                                 |
| High beam lights                             |
| Grid heater*                                 |
| Brake pressure                               |
| Master indicator                             |
| Secondary steering*                          |
| Parking brake                                |
| Audible alarms –                             |
| Caution alarm                                |
| Critical alarm                               |
| Backup alarm                                 |
| Horn   |

NOTE: \*If equipped with option.

## OPERATOR ENVIRONMENT

|  |
|--|
| ROPS cab w/ heat                         |
| Key start                                |
| Articulated power steering w/tilt column |
| Fully adjustable, suspension seat        |
| Foot throttle                            |
| 1-Lever loader control w/wrist rest      |
| Cup holder                               |
| Coat hook                                |
| (1) Interior rearview mirror             |
| 2 in (51 mm) retractable seat belt       |
| Storage tray behind seat                 |
| Cooled lunch box                         |
| Single brake pedal                       |
| F/N/R shuttle switch                     |
| External rear view mirrors               |
| Lock box                                 |
| Pressurized air filtering                |
| Anti-glare window strip                  |
| Defroster                                |
| Side window, partial/fully open          |
| Dome light                               |
| Wipers, rear and intermittent front      |
| Windshield washers, front and rear       |
| Rubber floor mat                         |

## 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 | 5.59 sec |
| Dump w/rated bucket load  |          |
| Z-Bar and XR              | 1.8 sec  |
| XT                        | 1.9 sec  |
| Lower (empty)             |          |
| Power down                | 3.29 sec |
| Float down                | 3.29 sec |

## SERVICE CAPACITIES

|                      |                    |
|----------------------|--------------------|
| Fuel tank            | 65 gal (246 L)     |
| Hydraulic system     |                    |
| Total                | 51.0 gal (193.1 L) |
| Reservoir            | 27.9 gal (105.7 L) |
| Transmission         |                    |
| Service w/filter     | 6.75 gal (25.6 L)  |
| Front and rear axle  |                    |
| Front axle           | 32 qt (30.3 L)     |
| Rear axle            | 29 qt (27.4 L)     |
| Engine oil w/filter  | 15 qt (14.2 L)     |
| Cooling system (-40) | 39 qt (36.9 L)     |

## OPERATING WEIGHTS

### Z-Bar

Unit equipped with ROPS cab with heater and A/C, full counterweight, 20.5R25 XTLA Michelin tires, front and rear fenders, 3.0 yd<sup>3</sup> (2.3 m<sup>3</sup>) general purpose loader bucket w/edge, full fuel, 175 lb (79 kg)  
operator 30,644 lb (13 900 kg)

### XT

Unit equipped with ROPS cab with heater and A/C, full counterweight, 20.5R25 XTLA Michelin tires, 3.0 yd<sup>3</sup> (2.3 m<sup>3</sup>) ACS loader bucket, standard batteries, full fuel, 175 lb (79 kg)  
operator 31,827 lb (14 436 kg)

### XR

Unit equipped with ROPS cab with heater and A/C, full counterweight, 20.5R25 XTLA Michelin tires, front and rear fenders, 3.0 yd<sup>3</sup> (2.3 m<sup>3</sup>) general purpose loader bucket w/edge, full fuel, 175 lb (79 kg)  
operator 31,852 lb (14 448 kg)

## STANDARD EQUIPMENT

### OPERATOR'S ENVIRONMENT

See page 5

### ENGINE

Case Family IV 667TA/EED  
Tier III certified  
Selectable work modes  
    Max power  
    Auto power  
    Standard power  
    Economy power  
Turbocharger  
Charge air cooling  
Automatic fan belt tensioner  
Integral engine oil cooling  
Fuel filter w/water trap  
Dual element air cleaner  
65 amp alternator  
(2) 700 CCA 12-volt batteries  
Liquid-cooled radiator  
Non spark-arresting muffler  
Mid-mounted cooling module  
Common rail electronic fuel injection

## OPTIONAL EQUIPMENT

### OPERATOR'S COMPARTMENT

Cloth-covered air-suspension seat  
Sound Shield noise suppression package  
Cab air-conditioning w/heater  
Radio  
Radio-ready (12 or 24-volt)  
Auxiliary power (12-volt)  
Cab convenience package  
RH steps and platform  
Rotating beacon  
Second brake pedal  
Open ROPS  
Joystick steering

### ENGINE

Cold weather package  
    Heavy-duty batteries  
    Fuel heater  
    Hydraulic oil cooler bypass  
    Low temperature hydraulic oil  
    Grid heater

### 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  
Onboard diagnostics  
Single lever electronic shift control  
F/N/R switch in loader control handle  
Downshift button  
Torque converter  
Outboard planetary axles  
Limited-slip differentials  
Transmission oil cooler  
Brake pedal transmission disconnect  
Hydraulic wet disc brakes  
Spring-applied hydraulic release parking brake  
Limp-Home Mode  
Lubed-for-life drive shaft

### LOADER

Attachment auxiliary hydraulics  
Buckets (see page 3 & 4)  
Loader coupler systems  
XT parallel lift  
XR extended reach

### HYDRAULICS

Auxiliary hydraulics  
Ride Control  
Secondary steering  
3 or 4-spool loader valves with 2 or 3-lever loader control  
Hydraulic reversing fan  
Hydraulic cooler

### HYDRAULICS

Single lever 2-spool loader control valve  
Low-effort steering  
Hydraulic driven fan  
(8) Diagnostic quick couplers

### OTHER

Electric hood lift  
Front and rear fenders  
Lights –  
    (2) Front driving headlights (high/low beam)  
    (2) Front flood  
    (2) Stop/tail lights and backup light  
    (2) Rear flood  
    Front and rear turn signal/flash  
Standard counterweight  
Drawbar hitch  
Articulation locking bar  
Lift arm locking bar  
Lift and tie-down points – front/rear  
Backup alarm  
Remote drain points

### TIRES

20.5-25 12 PR L3 bias (rock)  
20.5 R25 radial (dirt/traction)  
20.5 R25 radial (rock)

### OTHER

Special paint  
Full coverage fenders  
Belly pan  
Tool box  
Full counterweight - Z-Bar  
Temperature controlled fan

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

NOTE: All engines meet current EPA emissions requirements.

IMPORTANT: Case Construction Equipment Inc. reserves the right to change these specifications without notice and without incurring any obligation relating to such change. Case Construction Equipment Inc. does not warrant the safety or reliability of attachments from other manufacturers.

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