

ENGINE

| | |
|-------------------------------|--|
| Model | Case F5C Diesel, Tier 4 Interim Emissions Certified |
| Type | 4-stroke, turbocharged |
| Cylinders | 4 |
| Bore/Stroke | 3.9 in x 4.33 in (99 mm x 110 mm) |
| Displacement | 207 in ³ (3.4 L) |
| Fuel injection | Direct high pressure common rail (HPCR) |
| Fuel | Diesel |
| Fuel filter | w/ water trap |
| Air intake | Cross-flow |
| Cooling | Liquid |
| Engine speeds* | RPM |
| Rated speed, full load | 2200 |
| Low idle | 900 – 1000 |
| High idle, no load | 2320 – 2430 |
| Horsepower @ 2200 RPM: | |
| Gross | 110 hp (82 kW) |
| Net | 108 hp (81 kW) |
| Maximum torque @ 1400 RPM: | |
| Gross | 339 lb-ft (460 N-m) |
| Net | 338 lb-ft (458 N-m) |
| Torque rise at rated speed | 30% |
| Radiator: | |
| Core type | Square wave |
| Core size area | 486 in ² (3145 cm ²) |
| Rows of tubes | 4 |
| Fan: | |
| Style | Viscous 9 blade suction |
| Diameter | 19.685 in (500 mm) |
| Ratio | 1.4:1 |
| Pump operating angle ratings: | |
| Side-to-side | Rated 35° |
| Fore and aft | Rated 35° |
| Oil filtration | Replaceable, full-flow cartridge |

NOTE: *Engine speeds with standard transmission.
Meets federal emission regulations.

POWERTRAIN

| | |
|---|-----------------|
| Transmission – standard: | |
| Powershift S-Type, 4F-3R fully synchronized | |
| Transmission – optional: | |
| 4F-4R Power Shuttle Synchromesh transmission manual gear shift fully synchronized | |
| NOTE: Specifications below apply to both Power Shuttle and Powershift S-Type transmission unless otherwise indicated. | |
| Gear ratios | Forward/Reverse |
| 1st | 5.603/4.643 |
| 2nd | 3.481/2.884 |
| 3rd | 1.584/1.313 |
| 4th | 0.793/0.657* |

NOTE: *4R not available on Powershift S-Type.

POWERTRAIN (CONT.)

| Travel speeds: | | |
|---|-----------------------|-------------------------------------|
| | Forward mph (km/h) | Reverse mph (km/h) |
| 1st | 3.9 (6.3) | 4.7 (7.6) |
| 2nd | 6.3 (10.1) | 7.5 (12.1) |
| 3rd | 13.2 (21.3) | 15.9 (25.6) |
| 4th | 24.2 (38.9) | 29.0*(46.7) |
| NOTE: Travel speeds at 2,306 engine RPM with 21 L X 24 rear tires. 4R not available on Powershift S-Type. | | |
| Transmission – optional: | | |
| Powershift H-Type, 4F-3R hydraulic clutch shifting with auto function | | |
| Gear ratios | Forward/Reverse | |
| 1st | 5.533/4.549 | |
| 2nd | 3.359/2.762 | |
| 3rd | 1.533/1.260 | |
| 4th | 0.811/ — | |
| Travel speeds: | | |
| | Forward mph (km/h) | Reverse mph (km/h) |
| 1st | 4.0 (6.4) | 4.8 (7.7) |
| 2nd | 6.5 (10.5) | 7.8 (12.6) |
| 3rd | 13.7 (22.0) | 16.4 (26.4) |
| 4th | 23.0 (37.0) | — |
| NOTE: Travel speeds at 2306 engine RPM. | | |
| Torque converter ratio | | 2.6 |
| Differential lock | | On-the-go push-button activation |
| Front 4WD (H-Type)/Rear axle: | | |
| Differential ratio | 2.1 (2.133)/2.5 | |
| Planetary hub ratio | 6.0 (6.0)/6.4 | |
| Total reduction ratio | 12.8 (12.8)/16.0 | |

ELECTRICAL

| | |
|--------------------|---------------------------|
| Voltage | 12 Volts, negative ground |
| Alternator | 120 amp |
| Battery | 850 cold-cranking amps |
| Opt. batteries (2) | 850 cold-cranking amps |
| Power plugs (2) | 30 amps total |

OPERATOR ENVIRONMENT

ROPS/FOPS canopy; Key start; Hydrostatic steering; Vinyl air suspension seat w/ 180° swivel; Seat turn around; Electronic hand and foot throttles; Ergonomic loader control lever w/ push-button activation of differential lock and transmission de-clutch; Backhoe foot-swing w/ 3 lever control; (2) Accessory power plugs (30 amp); Anti-vandalism covers (canopy only); Cup holder; Coat hook w/ tether strap (cab only); Interior rearview mirror; 2 in (51 mm) retractable seat belt; Storage compartment w/ lid; Left side storage tray.

Vehicle Control Module w/ menu driven options and onboard diagnostics:

Foot throttle sensitivity; Cold weather idle settings; Maintenance settings.

Gauges:

Engine water temperature; Converter oil temperature; Fuel; Tachometer/hourmeter; Voltmeter.

Warning lights:

Air cleaner restriction; Alternator; A/C high pressure; Cold start; Engine oil pressure; Hydraulic oil filter bypass; Parking brake; Low fuel.

Audible alarms w/ diagnostics:

Coolant temperature; Engine oil pressure; Parking brake engagement; Shuttle engagement/seat position; Backup alarm; Transmission temperature; Water in fuel filter; Battery voltage; Low fuel; Air filter restriction; Hydraulic filter restriction; A/C not functioning.

Horn – dual switched front & rear.

OPERATING WEIGHT

Configuration – SAE Transport:

93 in (2.36 m) 4 IN1 bucket, 4WD, Extendahoe®, 24 HD bucket, flip stabilizer pads, 2-Door ROPS cab, air suspension seat, ride control, 1,100 lb (500 kg) CWT, tool box, backhoe coupler, backhoe auxiliary hydraulics, dual battery, no operator:

20,458 lb (9280 kg)

Add-on weights:

| | |
|-----------------------------|--------------------------------------|
| Cab (over canopy) | 0 lb (0 kg) |
| Counterweights | 700 lb (318 kg) 1,100 lb (500 kg) |
| Extendahoe® | 335 lb (152 kg) |
| 4WD w/ driveshaft guard | 393 lb (178 kg) |
| 93 in (2.36 m) 4 IN1 bucket | 1,685 lb (764 kg) |
| 93 in (2.36 m) LL bucket | 1,188 lb (539 kg) |
| 96 in (2.44 m) LL bucket | 1,415 lb (642 kg) |
| 24 in (0.61 m) HD Universal | 427 lb (194 kg) |

HYDRAULICS

| | |
|---|--------------------------------------|
| Pump: | |
| Bosch Rexroth Series 31 Variable Displacement Axial Piston Pump, dual mode torque regulation, mode selected by solenoid | |
| Main relief pressure: | |
| Standard | 3,450 +/- 50 psi (238 +/-3.5 bar) |
| Power Lift | 3,625 +/- 50 psi (250 +/-3.5 bar) |
| Filtration: | |
| 7-micron, full flow replaceable cartridge on return line, condition indicator light for filter | |
| Oil cooler | Heavy-duty |
| Loader flow @ rated engine RPM: | |
| 43 gpm @ 2,340 psi (162.6 L/min @ 161 bar) | |
| Loader control valve w/ pilot or manual backhoe controls: | |
| Two or three spool closed center sectional control valve. Single lever manual control for lift and tilt functions. The three spool valve uses a proportional Electro-Hydraulic control for the auxiliary function. The lift lever has a positive hold "Float" position and a "return-to-dig" feature. | |
| Loader auxiliary hydraulics with proportional thumb switch w/ detent on loader control handle: | |
| 0 to 31.5 gpm (0 to 119 L/min) | |
| Backhoe flow @ rated engine RPM: | |
| 43 gpm @ 2,340 psi (162.6 L/min @ 161 bar) | |
| Manual backhoe control valve: | |
| Six or Seven spool monoblock Open Center control valve. Features "Pro-Control" which includes custom designed spools for each individual function along with "swing cushioning" valve for zero-wag swing control. Basic control valve has an open center parallel circuit for all functions. | |
| Pilot backhoe control valve: | |
| Six, seven, or eight-spool sectional Closed Center control valve. Features "Pro-Control" which includes custom designed spools for each individual function along with "swing cushioning" valve for zero-wag swing control. Basic control valve is closed center, with circuits in parallel with a post-compensated, flow sharing feature for simultaneous operation of all circuits. | |
| Unidirectional auxiliary hydraulics: | |
| Unidirectional hydraulic valve is equipped with an adjustable LS relief valve to control attachment pressure and a 6 position flow control selector for 6 detented, distinct flow settings. | |
| Actuation: | |
| Manual backhoe controls – cab floor pedal Pilot controls – left hand joystick | |

SERVICE CAPACITY

| | |
|-------------------------------------|------------------|
| Fuel tank | 42 gal (159 L) |
| Hydraulic system: | |
| Total | 139 qt (132 L) |
| w/ Extendahoe® | 145 qt (137.7 L) |
| Reservoir w/ filter | 53 qt (50 L) |
| Reservoir w/o filter | 50 qt (47 L) |
| Transmission – total system: | |
| 2WD Standard | 18 qt (17 L) |
| 2WD Powershift S-Type | 23 qt (21.7 L) |
| 4WD Standard | 21 qt (19.4 L) |
| 4WD Powershift S-Type | 22 qt (20.7 L) |
| 4WD Powershift H-Type | 19 qt (18 L) |
| Front axle: | |
| 2WD each hub | 0.8 qt (0.8 L) |
| 4WD Differential | 9.1 qt (8.6 L) |
| 4WD Planetaries (each) | 1.1 qt (1.0 L) |
| Rear axle: | |
| Differential & Planetaries | 14.4 qt (13.6 L) |
| Engine oil w/ filter | 14.4 qt (13.6 L) |
| Cooling system: | |
| w/ heater | 19 qt (18 L) |
| w/o heater | 18.3 qt (17.3 L) |
| Window washer reservoir | 3.0 qt (2.8 L) |

OTHER SPECIFICATIONS

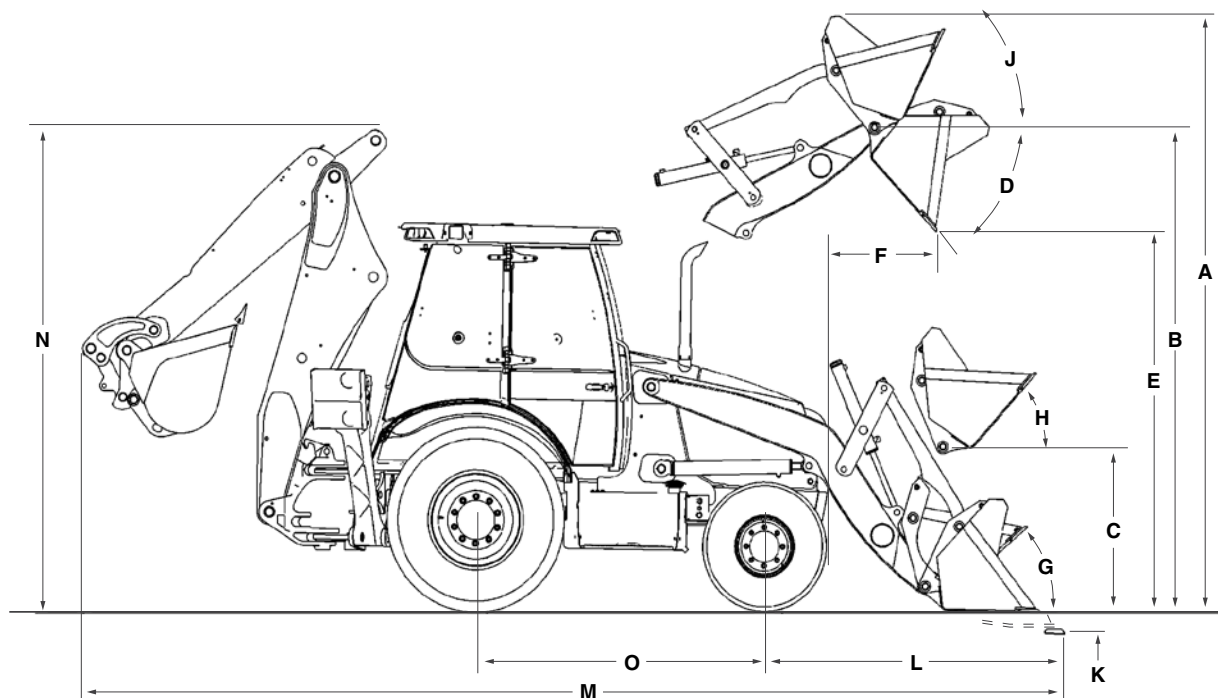
| | | | |
|--|----------------------|-----------------------|----------------------|
| Front tires: | | | |
| 2WD – 14 L x 17.5, 10-ply Industrial Rib | | | |
| 4WD – 14 L x 17.5, 10-ply SGL SS | | | |
| Rear tires: | | | |
| 2/4WD – 21 L x 24, 10-ply R4 | | | |
| Loader: | | | |
| Single-lever control for lift and tilt; Positive hold float; Return-to-dig; Automatic self-leveling; In-line, reverse linkage; Dual parallel dump cylinders; Clutch disconnect button on loader control and shift levers; Bucket position indicator. | | | |
| Loader bucket sizes: | | | |
| Width | Weight | Struck | Heaped |
| General Purpose Bucket (w/ lift points and bolt-on cutting edge) | | | |
| 93 in (2.36 m) | 1,123 lb (509 kg) | 1.1 yd³ (0.84 m³) | 1.3 yd³ (0.99 m³) |
| 96 in (2.44 m) | 1,324 lb (601 kg) | 1.27 yd³ (0.97 m³) | 1.5 yd³ (1.15 m³) |
| 4 IN 1® Bucket | | | |
| 93 in (2.36 m) | 1,628 lb (738 kg) | 1.0 yd³ (0.76 m³) | 1.2 yd³ (0.92 m³) |

OTHER SPECIFICATIONS (CONTINUED)

| Turning diameter: | |
|--|---------------------|
| 2WD: | |
| Brakes on | 12 ft 8 in (3.87 m) |
| Brakes off | 13 ft 2 in (4.00 m) |
| 4WD – engaged: | |
| Brakes on | 12 ft 6 in (3.81 m) |
| Brakes off | 14 ft 4 in (4.36 m) |
| 4WD – disengaged: | |
| Brakes on | 11 ft 8 in (3.55 m) |
| Brakes off | 12 ft 8 in (3.86 m) |
| NOTE: Turning radius dimensions curb to curb w/ long lip bucket. | |
| Backhoe: | |
| Over center design, Fabricated “S” boom”; Pro Control System; Dipperstick integrated serrated grip teeth; 17,940 lb-ft (24 370 N·m) swing torque; Case attachment coupler; Foot-swing w/ 3-lever control; Wing stabilizers w/ flip over dirt pad. | |

Backhoe bucket sizes:

| Width | Weight | Heaped |
|------------------------------|--------------------|------------------------|
| Universal Buckets | | |
| 12 in (305 mm) | 295 lb (134 kg) | 3.40 ft³ (0.10 m³) |
| 18 in (457 mm) | 356 lb (162 kg) | 5.30 ft³ (0.15 m³) |
| 24 in (610 mm) | 427 lb (194 kg) | 7.70 ft³ (0.22 m³) |
| 30 in (762 mm) | 489 lb (222 kg) | 10.20 ft³ (0.29 m³) |
| 36 in (914 mm) | 552 lb (251 kg) | 12.70 ft³ (0.36 m³) |
| High Capacity Buckets | | |
| 24 in (610 mm) | 447 lb (203 kg) | 8.50 ft³ (0.24 m³) |
| 30 in (762 mm) | 502 lb (228 kg) | 10.60 ft³ (0.30 m³) |



LOADER DIMENSIONS

| | 93 in (2.36 m) Long Lip Bucket* | 93 in (2.36 m) 4 IN 1® Bucket |
|---|---------------------------------|-------------------------------|
| A. Overall operating height – fully raised | 13 ft 11 in (4.24 m) | 13 ft 10 in (4.22 m) |
| Height to: | | |
| B. Bucket hinge pin fully raised | 11 ft 6 in (3.50 m) | 11 ft 6 in (3.50 m) |
| C. Bucket hinge pin @ SAE carry | 12.8 in (325 mm) | 12.8 in (325 mm) |
| D. Dump angle @ full height | 45° | 45° |
| E. Dump clearance @ full height, 45° dump: | | |
| Bucket | 8 ft 11 in (2.72 m) | 9 ft 1 in (2.77 m) |
| Clam open | NA | 9 ft 10 in (3.01 m) |
| F. Dump reach @ full height, 45° dump (from bumper): | | |
| Bucket | 29.2 in (741 mm) | 27.8 in (707 mm) |
| Clam open | NA | 13.8 in (351 mm) |
| Bucket rollback: | | |
| G. @ groundline | 40° | 41° |
| H. @ SAE carry | 46° | 46° |
| J. @ full height | Adjustable | Adjustable |
| K. Digging depth below grade: | | |
| Bucket flat | 6.2 in (157 mm) | 5.9 in (150 mm) |
| Clam open (dozing) | NA | 3.5 in (89 mm) |
| L. Reach from front axle centerline – bucket on ground | 6 ft 7 in (2.05 m) | 6 ft 5 in (1.99 m) |
| Lift capacity to full height (calculate values) | 8,425 lb (3822 kg) | 8,025 lb (3640 kg) |
| Breakout force (calculate values): | | |
| Lift cylinders | 11,463 lbf (5099 daN) | 11,225 lbf (4993 daN) |
| Dump cylinders | 12,776 lbf (5683 daN) | 13,717 lbf (6102 daN) |
| Bucket cutting edge width | 92.7 in (2.36 m) | 93 in (2.36 m) |
| Maximum grading angle | 106° | 106° |
| Maximum clam opening | NA | 38.3 in (972 mm) |
| Moldboard height | NA | 36.8 in (934 mm) |
| Raising time to full height | 3.7 sec | 3.7 sec |
| Bucket dumping time | 2.0 sec | 2.0 sec |
| Lowering time: | | |
| Power down | 2.5 sec | 2.5 sec |
| Return-to-dig | 3.8 sec | 3.8 sec |
| Clam: | | |
| Open time | NA | 1.3 sec |
| Close time | NA | 1.1 sec |

NOTE: Loader dimensions taken with 4WD.

DIMENSIONS

| | Standard Backhoe | Extendahoe® | |
|-------------------------------------|----------------------|----------------------|---------------------|
| | | Retracted | Extended |
| M. Overall transport length: | | | |
| Long Lip bucket | 23 ft 10 in (7.25 m) | 23 ft 10 in (7.25 m) | NA |
| 4 IN 1® bucket | 23 ft 7 in (7.2 m) | 23 ft 7 in (7.2 m) | NA |
| Overall transport width | 7 ft 9 in (2.36 m) | 7 ft 9 in (2.36 m) | NA |
| Height: | | | |
| To top of canopy | 8 ft 9 in (2.68 m) | 8 ft 9 in (2.68 m) | 8 ft 9 in (2.68 m) |
| To top of cab | 8 ft 11 in (2.71 m) | 8 ft 11 in (2.71 m) | 8 ft 11 in (2.71 m) |
| To top of exhaust stack | 8 ft 9 in (2.67 m) | 8 ft 9 in (2.67 m) | 8 ft 9 in (2.67 m) |
| N. Transport | 11 ft 7 in (3.54 m) | 11 ft 8 in (3.54 m) | NA |
| Ground clearance at backhoe frame | 14.2 in (360 mm) | 14.2 in (360 mm) | 14.2 in (360 mm) |
| Angle of departure | 18.7° | 18.7° | 18.7° |
| Front wheel tread: | | | |
| 14 L x 17.5 Industrial Rib | 74.3 in (1.89 m) | 74.3 in (1.89 m) | NA |
| 14 L x 17.5 | 74.3 in (1.89 m) | 74.3 in (1.89 m) | NA |
| Rear wheel tread: | | | |
| 21 L x 24 | 69.6 in (1.77 m) | 69.6 in (1.77 m) | NA |
| O. Wheelbase: | | | |
| 2WD | 84 in (2.13 m) | 84 in (2.13 m) | NA |
| 4WD | 84.5 in (2.15 m) | 84.5 in (2.15 m) | NA |

NOTE: Dimensions taken with 21 L x 24 rear tires and 14.5/75 L x 16.1 front tires except that data marked 4WD is taken with 14 L x 17.5 front tires.

CYLINDERS

| | Bore Diameter | Rod Diameter | Stroke | Closed Length |
|------------------|--------------------|--------------------|----------------------|----------------------|
| Loader: | | | | |
| Lift (2) | 3.5 in (88.9 mm) | 1.875 in (47.6 mm) | 29.13 in (740 mm) | 41.54 in (1055 mm) |
| Dump (2) | 3.25 in (82.6 mm) | 1.75 in (44.5 mm) | 20.33 in (516.5 mm) | 30.78 in (781.8 mm) |
| 4 IN 1® clam (2) | 3.0 in (76.2 mm) | 1.75 in (44.5 mm) | 9.08 in (230.6 mm) | 19.62 in (498.3 mm) |
| Backhoe: | | | | |
| Boom | 5.5 in (139.7 mm) | 2.75 in (69.9 mm) | 40.57 in (1030.5 mm) | 57.05 in (1449 mm) |
| Dipperstick | 5.25 in (133.4 mm) | 2.75 in (69.9 mm) | 23.53 in (597.7 mm) | 38.49 in (977.7 mm) |
| Bucket | 3.5 in (88.9 mm) | 2.5 in (63.5 mm) | 38.95 in (989.4 mm) | 51.78 in (1315.2 mm) |
| Extendahoe® | 3.0 in (76.2 mm) | 1.75 in (44.5 mm) | 48.03 in (1220 mm) | 64.02 in (1626 mm) |
| Swing (2) | 4.0 in (101.6 mm) | 2.0 in (50.8 mm) | 11.5 in (292 mm) | 24.44 in (620.8 mm) |
| Stabilizer (2) | 5.25 in (133.4 mm) | 2.5 in (63.5 mm) | 20.4 in (518.1 mm) | 33.57 in (852.7 mm) |

AXLE RATINGS

| | Front – 2WD | Rear | Front – 4WD |
|--------------------------|---------------------------|-----------------------|---------------------------|
| Maximum static | 65,506 lb (29 713 kg) | 70,848 lb (32 136 kg) | 67,883 lb (30 791 kg) |
| Dynamic operating | 44,261 lb (20 077 kg) | 49,494 lb (22 450 kg) | 47,426 lb (21 512 kg) |
| Static operating | 17,704 lb (8031 kg) | 19,798 lb (8980 kg) | 18,969 lb (8604 kg) |
| SAE J43 | 12,000 lb (5443 kg) | 16,197 lb (7347 kg) | 12,182 lb (5526 kg) |
| Oscillation (front axle) | 22° total – 11% each side | — | 22° total – 11% each side |

Boom and Dipper Lift Capacities are rated per SAE J31 and are 87% of the maximum hydraulic lift force available with the specified options.

BACKHOE LIFT CAPACITIES

| Standard Backhoe | | | Extendahoe® | | | |
|------------------|--------------------------|--------------------------|--------------------------------------|--|--------------------------------------|--|
| Boom Lift | Standard | Power Lift | Retracted | | Extended | |
| | Lift Capacity lb (kg) | Lift Capacity lb (kg) | Standard Lift Capacity lb (kg) | Power Lift Lift Capacity lb (kg) | Standard Lift Capacity lb (kg) | Power Lift Lift Capacity lb (kg) |
| +18 ft (5.5 m) | — | — | — | — | 2,548 (1156) | 2,710 (1229) |
| +16 ft (4.87 m) | — | — | — | — | 2,783 (1262) | 2,961 (1343) |
| +14 ft (4.27 m) | 3,942 (1788) | 4,177 (1895) | 3,688 (1673) | 3,923 (1779) | 2,967 (1346) | 3,156 (1431) |
| +12 ft (3.66 m) | 4,160 (1887) | 4,409 (2000) | 3,898 (1768) | 4,147 (1881) | 3,037 (1378) | 3,231 (1465) |
| +10 ft (3.05 m) | 4,204 (1907) | 4,456 (2021) | 3,937 (1786) | 4,188 (1900) | 3,051 (1384) | 3,246 (1472) |
| +8 ft (2.44 m) | 4,180 (1896) | 4,430 (2009) | 3,908 (1773) | 4,158 (1886) | 3,052 (1384) | 3,247 (1473) |
| +6 ft (1.83 m) | 4,128 (1873) | 4,374 (1984) | 3,853 (1748) | 4,099 (1859) | 3,037 (1378) | 3,231 (1466) |
| +4 ft (1.22 m) | 4,064 (1843) | 4,305 (1953) | 3,785 (1717) | 4,027 (1827) | 3,011 (1366) | 3,203 (1453) |
| +2 ft (0.61 m) | 4,001 (1815) | 4,239 (1923) | 3,720 (1687) | 3,957 (1795) | 2,983 (1353) | 3,174 (1440) |
| Ground Level | 3,942 (1788) | 4,175 (1894) | 3,657 (1659) | 3,891 (1765) | 2,970 (1347) | 3,160 (1433) |
| -2 ft (0.61 m) | 3,893 (1766) | 4,123 (1870) | 3,606 (1635) | 3,836 (1740) | 2,946 (1336) | 3,134 (1422) |
| -4 ft (1.22 m) | 3,863 (1752) | 4,091 (1856) | 3,572 (1620) | 3,800 (1724) | 2,929 (1329) | 3,116 (1413) |
| -6 ft (1.83 m) | 3,861 (1751) | 4,088 (1854) | 3,565 (1617) | 3,793 (1720) | 2,924 (1326) | 3,111 (1411) |
| -8 ft (2.44 m) | 3,910 (1774) | 4,141 (1878) | 3,609 (1637) | 3,839 (1741) | 2,941 (1334) | 3,129 (1419) |
| -10 ft (3.05 m) | 4,088 (1854) | 4,329 (1964) | 3,776 (1713) | 4,017 (1822) | 2,985 (1354) | 3,175 (1440) |
| -12 ft (3.66 m) | 4,245 (1925) | 4,494 (2038) | 3,900 (1769) | 4,149 (1882) | 3,102 (1407) | 3,300 (1497) |
| -14 ft (4.27 m) | — | — | — | — | 3,307 (1500) | 3,519 (1596) |
| Dipper Lift | | | | | | |
| +16 ft (4.87 m) | — | — | — | — | 4,312 (1956) | 4,312 (1956) |
| +14 ft (4.27 m) | 6,102 (2768) | 6,102 (2768) | 5,853 (2655) | 5,853 (2655) | 4,020 (1823) | 4,020 (1823) |
| +12 ft (3.66 m) | 6,651 (3017) | 6,651 (3017) | 6,409 (2907) | 6,409 (2907) | 5,252 (2382) | 5,252 (2382) |
| +10 ft (3.05 m) | 6,891 (3126) | 6,891 (3126) | 6,650 (3016) | 6,650 (3016) | 4,849 (2200) | 4,849 (2200) |
| +8 ft (2.44 m) | 7,147 (3243) | 7,147 (3243) | 6,903 (3131) | 6,903 (3131) | 4,945 (2243) | 4,945 (2243) |
| +6 ft (1.83 m) | 7,178 (3256) | 7,178 (3256) | 6,928 (3142) | 6,928 (3142) | 4,670 (2118) | 4,670 (2118) |
| +4 ft (1.22 m) | 8,226 (3731) | 8,226 (3731) | 7,953 (3608) | 7,953 (3608) | 4,424 (2007) | 4,424 (2007) |
| +2 ft (0.61 m) | — | — | — | — | 5,103 (2315) | 5,103 (2315) |

BACKHOE OPERATIONAL DATA (4WD)

| Standard Backhoe | | Extendahoe® | |
|--|-----------------------|-----------------------|-----------------------|
| | | Retracted | Extended |
| Digging depth: | | | |
| Maximum | 15 ft 6 in (4.72 m) | 15 ft 6 in (4.72 m) | 19 ft 6 in (5.94 m) |
| Maximum w/ hi-capacity bucket | 16 ft 0 in (4.88 m) | 16 ft 0 in (4.88 m) | 20 ft 0 in (6.1 m) |
| 2 ft (610 mm) flat bottom | 15 ft 5 in (4.69 m) | 15 ft 5 in (4.69 m) | 19 ft 5 in (5.92 m) |
| 8 ft (2.44 m) flat bottom | 14 ft 5 in (4.4 m) | 14 ft 5 in (4.4 m) | 18 ft 8 in (5.63 m) |
| Overall reach from: | | | |
| Rear axle centerline | 23 ft 3 in (7.10 m) | 23 ft 3 in (7.10 m) | 27 ft 2 in (8.28 m) |
| Swing pivot | 19 ft 7 in (5.98 m) | 19 ft 7 in (5.98 m) | 23 ft 6 in (7.17 m) |
| Loading height | 13 ft 1 in (4.0 m) | 13 ft 1 in (4.0 m) | 15 ft 9 in (4.81 m) |
| Loading reach – dipper retracted | 5 ft 1 in (1.56 m) | 5 ft 1 in (1.56 m) | 8 ft 1 in (2.47 m) |
| Swing arc 1 | 180° | 180° | 180° |
| Bucket rotation: | | | |
| Mechanical Coupler | 198° | 198° | 198° |
| Hyd. Couple w/ Extendahoe | 194.8° | 194.8° | 194.8° |
| Hyd. Coupler w/ Standard dipper | 198° | 198° | 198° |
| Stabilizer spread – operating (centers): | | | |
| Flip pad | 10 ft 9 in (3.26 m) | 10 ft 9 in (3.26 m) | 10 ft 9 in (3.26 m) |
| Cast pad | 11 ft 1 in (3.37 m) | 11 ft 1 in (3.37 m) | 11 ft 1 in (3.37 m) |
| Digging force: | | | |
| Bucket cylinder – SAE rated 3,460 psi | 14,940 lbf (66 455 N) | 14,940 lbf (66 455 N) | 14,940 lbf (66 455 N) |
| Bucket cylinder – Power Lift | 15,652 lbf (69 623 N) | 15,652 lbf (69 623 N) | 15,652 lbf (69 623 N) |
| Dipper cylinder – SAE rated 3,460 psi | 9,047 lbf (40 244 N) | 9,047 lbf (40 244 N) | 6,463 lbf (28 748 N) |
| Dipper cylinder – Power Lift | 9,478 lbf (42 163 N) | 9,478 lbf (42 163 N) | 9,478 lbf (42 163 N) |
| Leveling angle: | | | |
| Flip pad | 11.2° | 11.2° | 11.2° |
| Cast pad | 12° | 12° | 12° |

NOTE: Lift capacities apply straight to the rear of prime mover. 4WD equipped with 24 in (610 mm) Universal H.D. trenching bucket and Case coupler except as noted.

STANDARD EQUIPMENT

OPERATOR ENVIRONMENT

See page 2.

ENGINE

Case F5C Interim Tier 4,
with CEGR/DPF after-treatment
IT4 or Tier 4 A Emissions compliant
Full Flow Engine Oil Filter
Air cleaner – replaceable dry type with radial seal
Aspirated air cleaner
Diesel Particulate Filter – spark arresting
Fuel filter w/ water trap
Fuel tank – useable capacity 42 gal (159 L)
Radiator with de-aeration bottle
Antifreeze to -34° F (-37° C)
Glow plugs cold start
Electronic throttles (foot and rotary hand)
Viscous drive fan
Self adjusting belt tensioner
High Pressure Common Rail computer controlled
injection with diagnostic features

LOADER

See page 2.

BACKHOE

Power Lift
See page 2.

POWERTRAIN

Standard Powershuttle, 4F-4R Power Shuttle
Synchronesh transmission
Front axle:
2WD heavy-duty front axle w/ 14 L x 17.5 tires
with Industrial Rib tread
4WD heavy-duty mechanically driven front axle
w/ 14 L x 17.5 tires and drive shaft guard
Rear axle:
2/4WD heavy-duty outboard planetary drive,
w/ 21 L x 24 tires
11.8 in (300 mm) torque converter
On-the-Go electric 4WD control
Electric F/R shuttle control
Electric differential lock control, push button
Parking brake – spring applied hydraulic
release (SAHR)

HYDRAULICS

Ground level remote hydraulic test ports
Variable displacement axial piston pump
Max. loader capacity:
43 gpm @ 2,340 psi (162.6 L/min @ 161 bar)
Loader torque regulation:
28.5 gpm @ 3,450 psi (107.8 L/min @ 238 bar)

HYDRAULICS (CONT.)

Maximum backhoe capacity:
43 gpm @ 3,100 psi (162.6 L/min @ 214 bar)
Backhoe torque regulation:
33 gpm @ 3,450 psi (125 L/min @ 238 bar)
Heavy-duty oil cooler
7 micron, spin-on oil filter

OTHER

14 L x 17.5, 10 PR (4WD) front tires
21 L x 24, 10 PR rear tires
Forward tilt engine hood
Replaceable, molded front bumpers
Front/rear tie downs
Reflective logos
Lights – cab and canopy:
Rear tail/stop (2)
Front flashers/turn (2)
Rear flashers/turn (2)

Cab only:

2 front driving lights (55 W)
Adjustable halogen work lights (55 W):
2 front, 2 side (left & right), 4 rear

Canopy only:

2 front driving lights (55 W)
Adjustable halogen work lights (55 W):
2 side (left & right), 2 rear

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

Auto Ride Control – 4WD models
Standard Ride Control – 2WD models
Comfort Steering with momentary latching
switch, two speed steering pump and 3rd/4th
gear cutout.
ROPS/FOPS certified protective cab w/ rear
wipers and floor mat
Cab Convenience Package containing:
Pull-down sunvisor
Window washer, front and rear
Left-hand storage tray
Deluxe interior package
Tilt steering column
Sound Reduction Package for cab models:
levels reduced to 72 dB (A)
Right-hand threshold storage box
Air-conditioning for cab models
Mechanical suspension seat with flip-up arm
rests, 180° swivel, cloth or vinyl, adjustable
seat and weight, backrest angle, lumbar and
cushion angle
Air Ride suspension seat with flip-up arm rests,
180° swivel
Electric height adjustment, adjustable back rest
and lumbar support – cab units cloth,
canopy units vinyl
Pull-down sunvisor for canopy models
Radio, AM/FM Stereo/WB, MP3 aux. input
(cab models)
3 in (75 mm) seat belt for mechanical and
air-suspension seat

ENGINE

Block heater
Cold Weather Starting Aid
w/ dual 12 Volt batteries

LOADER

Auxiliary hydraulics for loader-mounted
equipment with thumb-operated
proportional control
Hydraulic front quick coupler
Loader linkage w/o loader bucket
Tool portfolio of additional attachments
Buckets (see page 2)

BACKHOE

Gripper teeth extensions on dipper
Auxiliary hydraulics flow:
0 – 36 gpm (0 – 136 L/min)
Extendahoe®
Two-lever control (backhoe or Extendahoe)
Standard dipper
Bucket retrofit kit
Flip over stabilizer pads
Cemetery/Street pads
Buckets (see page 2)

POWERTRAIN

Powershift S-Type transmission, 4F-3R
fully synchronized electronic transmission
controller and kick down in loader control
valve lever (2WD or 4WD)
Powershift H-Type transmission, 4F-3R
hydraulic clutch shifting with auto function

HYDRAULICS

Auxiliary backhoe unidirectional hydraulics
Auxiliary backhoe bidirectional hydraulics:
Hand lever operated for manual controls
Button operated for pilot controls

OTHER

Electrical master disconnect switch and
remote jump-start
14 L x 17.5 10 PR industrial rib (2WD) front tires
Lift hooks – export
Front counterweights:
700 lb and 1,100 lb (318 kg and 500 kg)
Rotating beacon
Export protection package

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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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