

416C / 416C IT Backhoe Loader

CAT[®]**Cat[®] 3054 Diesel Engine**

| | | |
|-------------------------|------------|---------|
| Gross power | 78 HP | 59 kW |
| Net power | 75 HP | 56 kW |
| Gross power (turbo) | 84 HP | 63 kW |
| Net power (turbo) | 80 HP | 60 kW |
| Operating weight (std.) | 13,892 lbs | 6300 kg |

Backhoe digging depth

| | | |
|------------------|--------|---------|
| Standard stick | 14' 6" | 4420 mm |
| Extendible stick | 18' 2" | 5545 mm |

Cat Caterpillar 416c Backhoe Loader Service Repair Manual

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Cat Caterpillar 416c Backhoe Loader Service Repair Manual in the technological know-how of archaeology. The man or woman sorts of excavation are regarded simply as digs to people who participate in, with this being an over literal description of the technique used. An excavation issues itself with a particular archaeological web page or associated collection of web sites, and can be carried on over a amount of years, thinking about that the paintings can normally instances typically be of a seasonal nature.

Inside of the enterprise of excavation, many lots greater strategies can be utilized, with each unmarried dig acquiring its very own precise traits which could necessitate variations of technique. Methods and different sensible problems do not permit archaeologists to carryout excavations each time and anyplace they choose, as many regarded web sites have additionally been intentionally.

At first, excavation requires the eliminating any topsoil this is found with the aid of using an excavator machine. What is dug up can be reviewed with the aid of using a metallic detector for stray unearths however except the excavation web page has persevered to be untouched for a prolonged duration of time, there's a tiny layer of present day fabric at the floor this is of constrained archaeological interest.

Cat 416C Backhoe Loader

The new C-Series backhoe loaders begin a new era of performance, versatility, and operator comfort.

Loader versatility

The Cat® single-tilt loader continues to be the best in its class — with fast cycle times and large payloads. The optional integrated toolcarrier (IT) loader adds even more versatility with a parallel lift feature for better material handling.

- Maximum lift and breakout forces
- Divergent lift arms, a low-profile hood, and a single tilt cylinder for maximum visibility to the implement
- Large loader torque tube resists bending and twisting
- Self-leveling and return-to-dig systems for ease of operation

Operator station

A new level of comfort and visibility has been achieved in the newly-designed 416C cab. The operator has total machine control in a comfortable environment.

- Spacious operator station
- Convenient personal storage areas
- Large side windows open 180 degrees to maximize visibility and ventilation
- Low-effort controls placed within natural reach for operator comfort

Caterpillar 3054 engine

- Proven reliability
- Durable gear-driven water pump
- Thermal starting aid for easier cold-weather starting
- Parts commonality with other Cat machines
- Low cost-per-hour

The Cat 416C — More than a machine. A partner.

Once again Caterpillar is the benchmark for both ergonomics and performance. You'll load faster, dig deeper and lift higher, all in the comfort of the C-Series cab. You asked for comfort and visibility to match performance. Caterpillar answers with the 416C.

Your backhoe loader is ready when you are!



Standard Equipment

Standard and optional equipment may vary. Consult your Caterpillar dealer for specifics.

| | | |
|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| Air cleaner, dry type, radial seal with pre-cleaner and filter condition indicator | Front axle, pendulum mount | ROPS canopy |
| Alarm, backup | Front grill with bumpers | Seat belt, retractable (2 in./51 mm) |
| Alternator, 55-amp, 12-volt | Gauges: Coolant temperature, fuel level, tachometer, torque converter oil temperature, voltmeter | Seat, suspension with fabric or vinyl seat cover and armrests |
| Audible system fault alarm | Ground line fuel fill with 34 gal/128 liters capacity | Spin-on fuel, engine oil, hydraulic (10 micron), transmission oil filters, and water separator |
| Backhoe, 14 ft. 6 in./4420 mm dig depth center-pivot excavator-style backhoe 2 lever control | Grouser style stabilizer shoes | Starting system, thermal starting aid |
| Battery, maintenance free, 700 CCA | Hydraulic hose, XT-3 | Storage compartment, internal |
| Boom transport lock | Hydraulic oil cooler | Stop and tail lights (2) |
| Brace, lift cylinder | Indicators: Air cleaner service, brake on, clock hour meter, engine coolant, hydraulic oil level sight gauge, oil pressure | Swing transport lock |
| Brakes, oil-disc with dual pedals & interlock | Instrument panel lights | Tires (see page 17) |
| Brake, secondary parking | Key start/stop system with auxiliary position | Tool box, external, lockable |
| Cat 3054 diesel engine | Lights, working (2 front, 2 rear) | Torque converter |
| Coat hook | Load sensing, variable flow system with 43 gpm/162 l/m axial piston pump | Throttles, hand and foot |
| Coolant/Antifreeze, extended life (to -34° Fahrenheit /-37°C) | Loader, self leveling with return-to-dig and transmission disconnect switch on single-lever control | Transmission, four-speed synchromesh |
| Counterweight, bumper (35 lb./16 kg) | Mirror, rearview | Transmission neutralizer switch |
| Differential lock | Power steering, hydrostatic | Transport tie-downs |
| Dome light | | Warning horn, front, electric |
| Engine enclosure | | |
| Face seals, O-ring | | |
| Fan, suction, and fan guard | | |
| Fast reversing shuttle, all gears | | |
| Flashing hazard/signal lights | | |
| Floor mat | | |
| Foot rest, backhoe position | | |

Dimensions with Forks / Material Handling Arm

All dimensions are approximate.

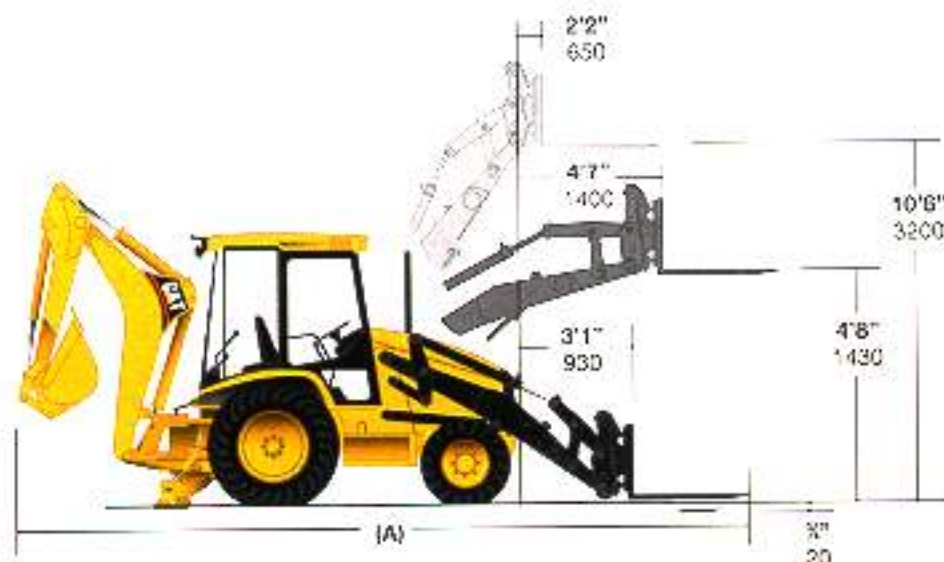
Cat 416C IT Operating Specifications with Forks

| Fork Tine Length: | 3 ft. 5 in. / 1050 mm | 3 ft. 11 in. / 1200 mm | 4 ft. 5 in. / 1350 mm |
|----------------------------------|------------------------|------------------------|------------------------|
| Operating load (SAE J1197 FEB91) | 4,322 lb. / 1960 kg* | 4,178 lb. / 1895 kg* | 4,035 lb. / 1830 kg* |
| Operating load (CEN474 4 FEB96) | 5,160 lb. / 2340 kg** | 5,116 lb. / 2320 kg** | 5,060 lb. / 2295 kg** |
| Overall length (A) | 24 ft. 4 in. / 7405 mm | 24 ft. 9 in. / 7555 mm | 25 ft. 3 in. / 7705 mm |
| Load center | 1 ft. 9 in. / 525 mm | 2 ft. 0 in. / 600 mm | 2 ft. 3 in. / 675 mm |

*Tip limited. **Hydraulically limited.

Specifications include lubricants, full fuel tank, ROPS cab, 176 lb. (80 kg) operator, 790 lb. counterweight, standard tires, standard stick, 24-inch standard-duty bucket, 2WD.

Note: Machine stability is affected by machine options and backhoe attachments.



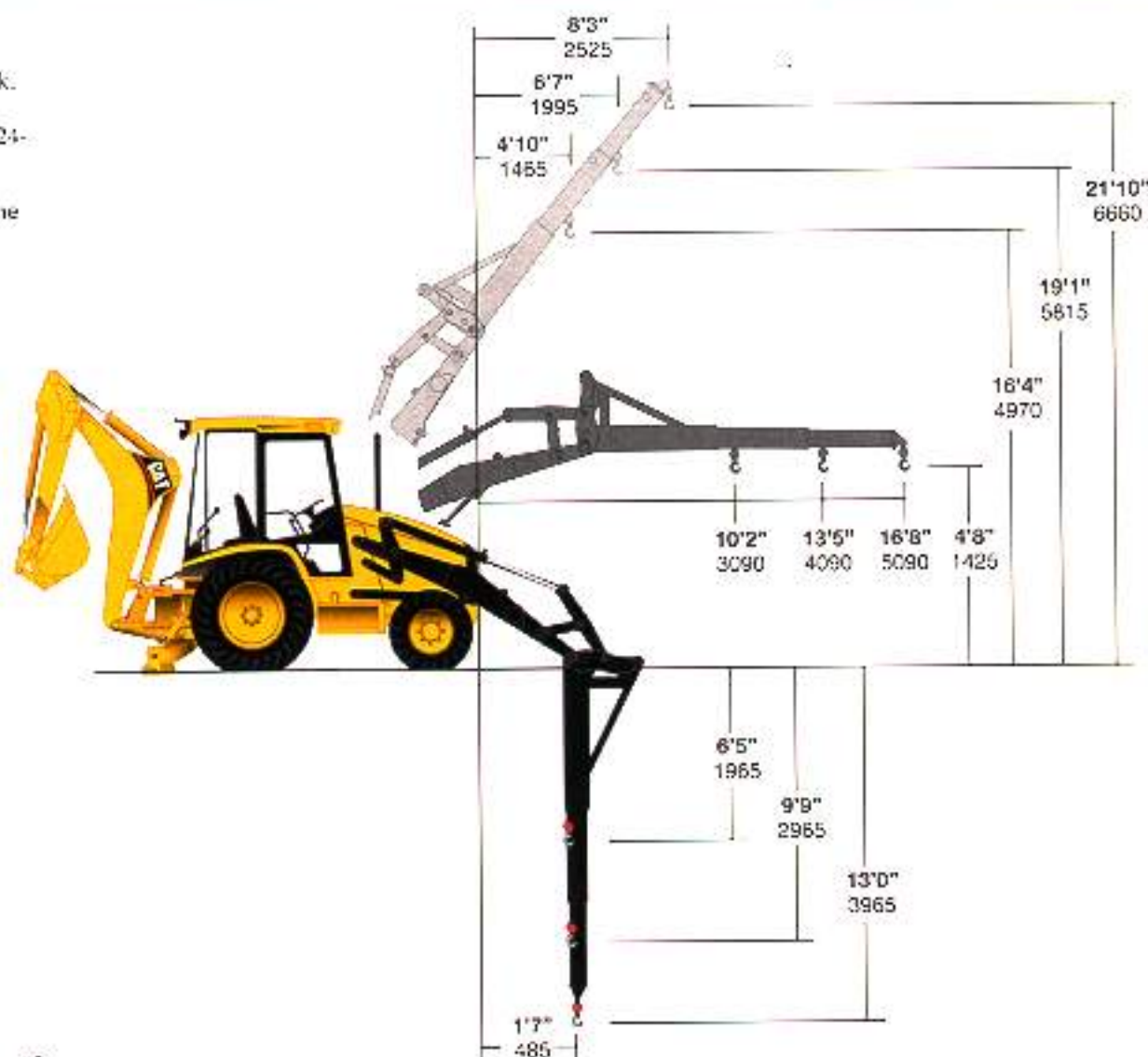
Cat 416C IT Operating Specifications with Material Handling Arm

| Material Handling Arm Position: | Retracted | Mid-Position | Extended |
|---------------------------------------------------|-------------------------|------------------------|-------------------------|
| Operating load (SAE J1197 FEB91 & CEN474 4 FEB96) | 2,040 lb. / 925 kg** | 1,279 lb. / 580 kg** | 937 lb. / 425 kg** |
| Overall length, maximum | 27 ft. 11 in. / 8515 mm | 31 ft. 3 in. / 9515 mm | 34 ft. 6 in. / 10515 mm |

**Hydraulically limited

Specifications include lubricants, full fuel tank, ROPS cab, 176 lb. (80 kg) operator, 790 lb. counterweight, standard tires, standard stick, 24-inch standard-duty bucket, 2WD.

Note: Machine stability is affected by machine options and backhoe attachments.



| IT Loader with Quick Coupler | | |
|------------------------------|----------------------------|--------------------------|
| Multi Purpose (1.25 yd³) | General Purpose (1.25 yd³) | Multi Purpose (1.25 yd³) |
| 22 ft. 8 in. / 6915 mm | 23 ft. 0 in. / 7005 mm | 22 ft. 10 in. / 6955 mm |
| 22 ft. 8 in. / 6895 mm | 22 ft. 11 in. / 6985 mm | 22 ft. 9 in. / 6935 mm |
| 11 ft. 9 in. / 3585 mm | 11 ft. 9 in. / 3585 mm | 11 ft. 9 in. / 3585 mm |
| 11 ft. 9 in. / 3590 mm | 11 ft. 9 in. / 3590 mm | 11 ft. 9 in. / 3590 mm |
| 7 ft. 9 in. / 2352 mm | 7 ft. 9 in. / 2352 mm | 7 ft. 9 in. / 2352 mm |
| 9 ft. 4 in. / 2850 mm | 9 ft. 4 in. / 2850 mm | 9 ft. 4 in. / 2850 mm |
| 8 ft. 9 in. / 2670 mm | 8 ft. 9 in. / 2670 mm | 8 ft. 9 in. / 2670 mm |
| 1 ft. 10 in. / 560 mm | 1 ft. 6 in. / 460 mm | 1 ft. 8 in. / 505 mm |
| 1 ft. 0 in. / 297 mm | 1 ft. 0 in. / 297 mm | 1 ft. 0 in. / 297 mm |
| 8 ft. 9 in. / 2660 mm | 8 ft. 9 in. / 2660 mm | 8 ft. 9 in. / 2660 mm |
| 5 ft. 10 in. / 1780 mm | 5 ft. 10 in. / 1780 mm | 5 ft. 10 in. / 1780 mm |
| 5 ft. 8 in. / 1714 mm | 5 ft. 8 in. / 1714 mm | 5 ft. 8 in. / 1714 mm |
| 6 ft. 11 in. / 2100 mm | 6 ft. 11 in. / 2100 mm | 6 ft. 11 in. / 2100 mm |

| IT Loader with Quick Coupler | | |
|------------------------------|-------------------------|-------------------------|
| Multi Purpose | General Purpose | Multi Purpose |
| 1.25 yd³ / 0.96 m³ | 1.25 yd³ / 0.96 m³ | 1.25 yd³ / 0.96 m³ |
| 7 ft. 5 in. / 2262 mm | 7 ft. 5 in. / 2262 mm | 7 ft. 5 in. / 2262 mm |
| 5,220 lb. / 2368 kg | 6,240 lb. / 3250 kg | 5,645 lb. / 2981 kg |
| 9,490 lb. / 42.0 kN | 9,530 lb. / 47.1 kN | 9,690 lb. / 46.6 kN |
| 10 ft. 10 in. / 3290 mm | 10 ft. 10 in. / 3290 mm | 10 ft. 10 in. / 3290 mm |
| 43° | 45° | 45° |
| 8 ft. 8 in. / 2640 mm | 8 ft. 2 in. / 2495 mm | 8 ft. 5 in. / 2560 mm |
| 2 ft. 4 in. / 700 mm | 2 ft. 9 in. / 840 mm | 2 ft. 5 in. / 730 mm |
| 40° | 40° | 41° |
| 4 in. / 105 mm | 4 in. / 105 mm | 5 in. / 135 mm |
| 110° | 107° | 111° |
| 7 ft. 11 in. / 2406 mm | N/A | 7 ft. 5 in. / 2262 mm |
| 4 ft. 11 in. / 1490 mm | 4 ft. 11 in. / 1500 mm | 5 ft. 0 in. / 1530 mm |
| 13 ft. 9 in. / 4200 mm | 13 ft. 8 in. / 4170 mm | 13 ft. 9 in. / 4200 mm |
| 2 ft. 7 in. / 790 mm | N/A | 2 ft. 7 in. / 790 mm |
| 8,385 lb. / 37.3 kN | N/A | 11,387 lb. / 50.7 kN |
| 1,453 lb. / 659 kg | 983 lb. / 446 kg | 1,453 lb. / 659 kg |

| Extendible Stick Extended |
|------------------------------|
| 18 ft. 2 in. / 5545 mm |
| 18 ft. 1 in. / 5498 mm |
| 25 ft. 6 in. / 7770 mm |
| 21 ft. 11 in. / 6680 mm |
| 19 ft. 5 in. / 5919 mm |
| 13 ft. 10 in. / 4223 mm |
| 8 ft. 11 in. / 2706 mm |
| 180° |
| 165° |
| 10 ft. 7 in. / 3219 mm |
| 12 ft. 1 in. / 3689 mm |
| 7 ft. 9 in. / 2352 mm |
| 12,065 lb. / 53.7 kN |
| 5,635 lb. / 25.1 kN |
| 14° |

R) rear tires, ROPS canopy, standard stick with 24-inch standard-duty bucket, and 1.0 yd³ loader bucket and

Machine Dimensions (SAE J732 / SAE J49)

| | Single-Tilt Loader | | |
|---------------------------------------------------|----------------------------------------|-----------------------------------------|---------------------------------------|
| | General Purpose (1.0 yd ³) | General Purpose (1.25 yd ³) | Multi Purpose (1.25 yd ³) |
| (A) Overall transport length (transport position) | 22 ft. 7 in. / 6890 mm | 22 ft. 10 in. / 6960 mm | 22 ft. 8 in. / 6915 mm |
| Overall length (loader on ground) | 22 ft. 6 in. / 6870 mm | 22 ft. 9 in. / 6940 mm | 22 ft. 8 in. / 6895 mm |
| (B) Overall transport height (standard stick) | 11 ft. 9 in. / 3585 mm | 11 ft. 9 in. / 3585 mm | 11 ft. 9 in. / 3585 mm |
| Overall transport height (extendible stick) | 11 ft. 9 in. / 3590 mm | 11 ft. 9 in. / 3590 mm | 11 ft. 9 in. / 3590 mm |
| Overall width, with bucket | 7 ft. 9 in. / 2352 mm | 7 ft. 9 in. / 2352 mm | 7 ft. 9 in. / 2352 mm |
| (C) Height to top of cab / canopy | 9 ft. 4 in. / 2850 mm | 9 ft. 4 in. / 2850 mm | 9 ft. 4 in. / 2850 mm |
| (D) Height to top of exhaust stack | 8 ft. 9 in. / 2670 mm | 8 ft. 9 in. / 2670 mm | 8 ft. 9 in. / 2670 mm |
| Height to loader hinge pin (transport) | 1 ft. 8 in. / 510 mm | 1 ft. 8 in. / 510 mm | 1 ft. 10 in. / 560 mm |
| Ground clearance (minimum) | 1 ft. 0 in. / 297 mm | 1 ft. 0 in. / 297 mm | 1 ft. 0 in. / 297 mm |
| (E) Rear axle centerline to front grill | 8 ft. 9 in. / 2660 mm | 8 ft. 9 in. / 2660 mm | 8 ft. 9 in. / 2660 mm |
| Front wheel tread gage | 5 ft. 10 in. / 1780 mm | 5 ft. 10 in. / 1780 mm | 5 ft. 10 in. / 1780 mm |
| Rear wheel tread gage | 5 ft. 8 in. / 1714 mm | 5 ft. 8 in. / 1714 mm | 5 ft. 8 in. / 1714 mm |
| (F) Wheel base - 2WD / AWD | 6 ft. 11 in. / 2100 mm | 6 ft. 11 in. / 2100 mm | 6 ft. 11 in. / 2100 mm |

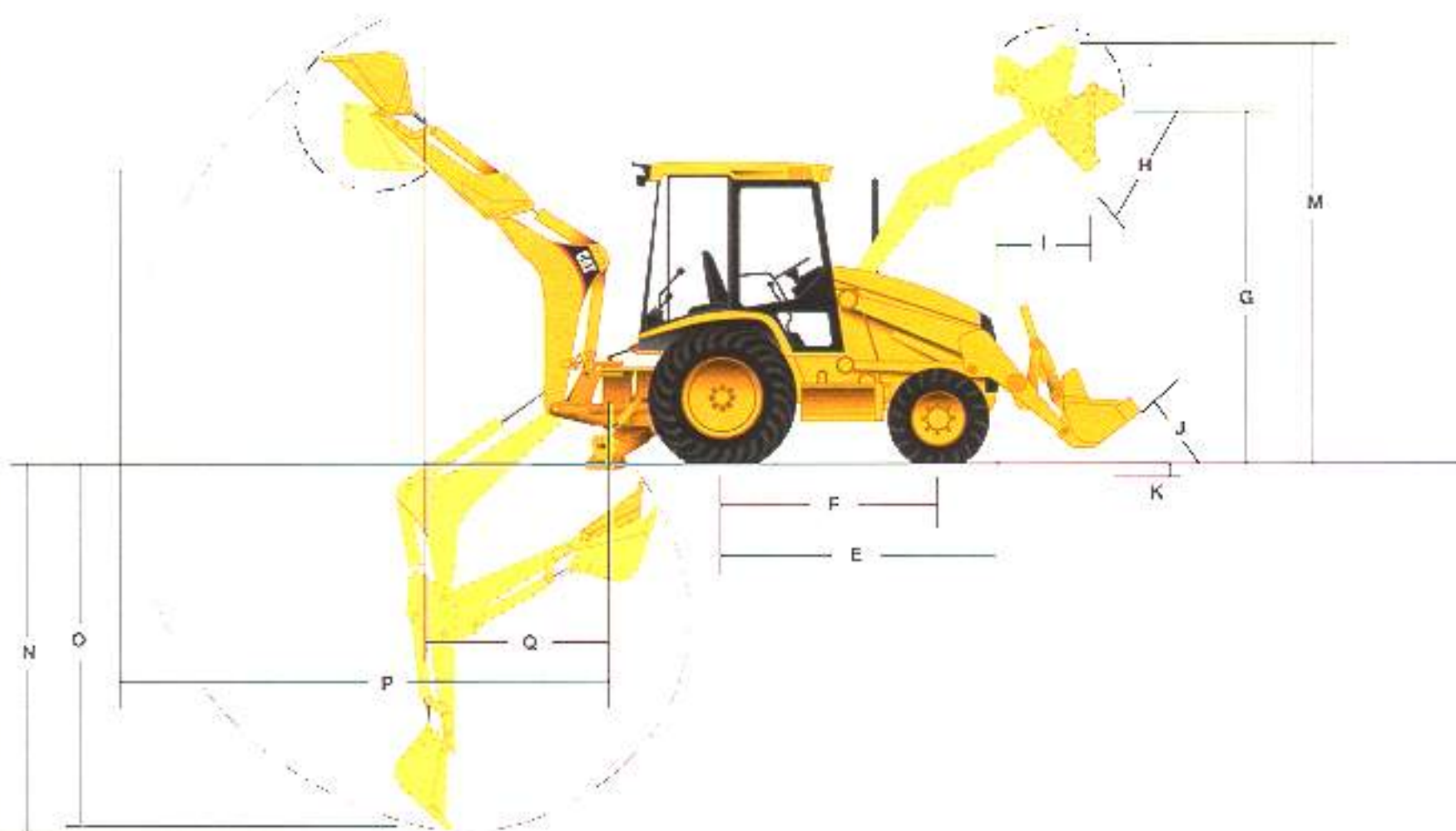
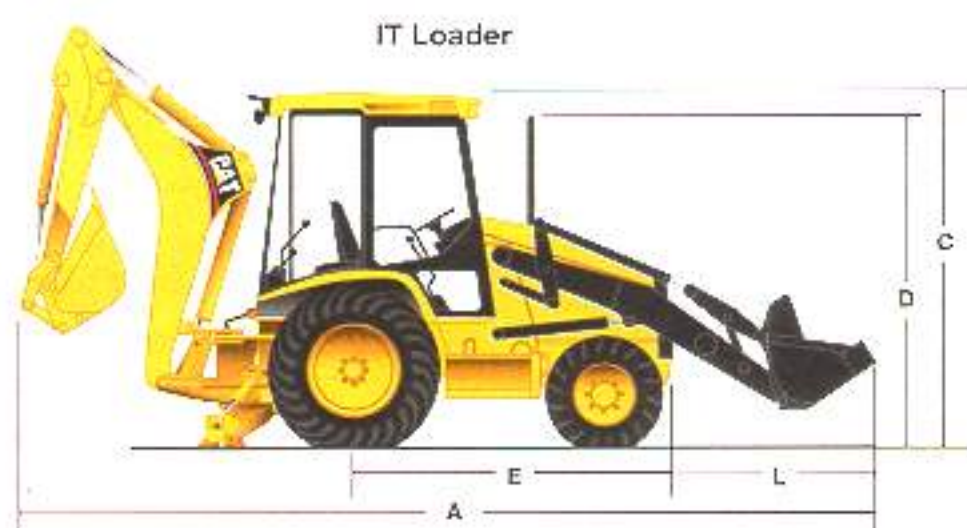
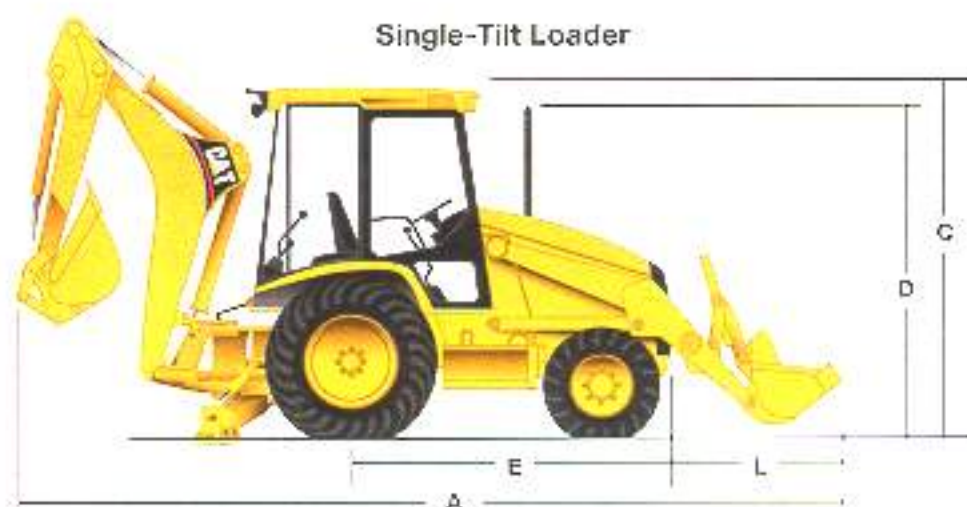
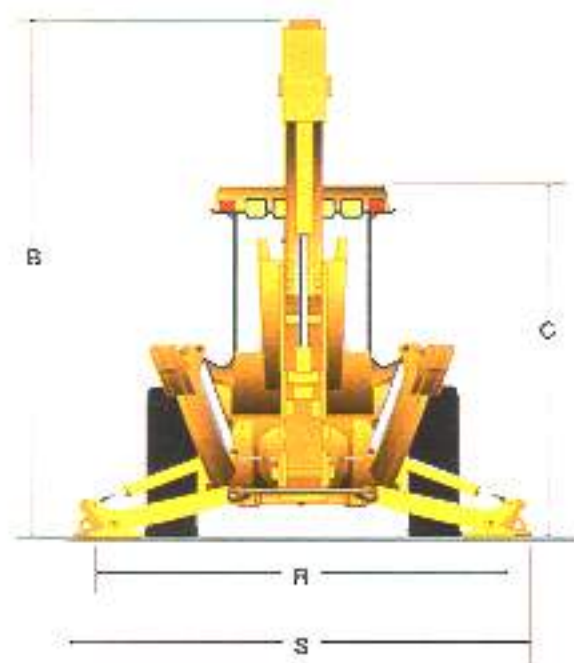
Loader Bucket Dimensions and Performance (SAE J732)

| | Single-Tilt Loader | | |
|---------------------------------------------------|-------------------------------------------|--------------------------------------------|--------------------------------------------|
| | General Purpose | General Purpose | Multi Purpose |
| Capacity (SAE) rated | 1.0 yd ³ / 0.76 m ³ | 1.25 yd ³ / 0.96 m ³ | 1.25 yd ³ / 0.96 m ³ |
| Width | 7 ft. 5 in. / 2262 mm | 7 ft. 5 in. / 2262 mm | 7 ft. 5 in. / 2262 mm |
| Load capacity at maximum height | 5,780 lb. / 2622 kg | 5,480 lb. / 2486 kg | 5,220 lb. / 2368 kg |
| Breakout force | 9,030 lb. / 40.0 kN | 8,606 lb. / 38.3 kN | 9,490 lb. / 42.0 kN |
| (G) Maximum hinge pin height | 10 ft. 10 in. / 3290 mm | 10 ft. 10 in. / 3290 mm | 10 ft. 10 in. / 3290 mm |
| (H) Dump angle at full height | 43° | 43° | 43° |
| Dump height at maximum angle | 8 ft. 8 in. / 2650 mm | 8 ft. 5 in. / 2575 mm | 8 ft. 8 in. / 2640 mm |
| (I) Dump reach at maximum angle | 2 ft. 5 in. / 730 mm | 2 ft. 8 in. / 810 mm | 2 ft. 4 in. / 700 mm |
| (J) Maximum bucket rollback at ground level | 40° | 40° | 40° |
| (K) Digging depth | 4 in. / 105 mm | 4 in. / 105 mm | 4 in. / 105 mm |
| Maximum grading angle | 110° | 106° | 110° |
| Width of dozer cutting edge | N/A | N/A | 7 ft. 11 in. / 2406 mm |
| (L) Grill to bucket cutting edge (carry position) | 4 ft. 10 in. / 1465 mm | 5 ft. 0 in. / 1535 mm | 4 ft. 11 in. / 1490 mm |
| (M) Maximum operating height | 13 ft. 2 in. / 4020 mm | 13 ft. 8 in. / 4170 mm | 13 ft. 9 in. / 4200 mm |
| Jaw opening maximum | N/A | N/A | 2 ft. 7 in. / 790 mm |
| Bucket jaw clamping force | N/A | N/A | 8,385 lb. / 37.3 kN |
| Weight (does not include teeth or forks) | 838 lb. / 380 kg | 944 lb. / 428 kg | 1,453 lb. / 659 kg |

Backhoe Dimensions and Performance (SAE J49)

| | Standard Stick | Extendible Stick Retracted | Extendible Stick Extended |
|---------------------------------------------------------------------|------------------------|----------------------------|---------------------------|
| | | | |
| (N) Digging depth, SAE (max) | 14 ft. 6 in. / 4420 mm | 14 ft. 9 in. / 4498 mm | 18 ft. 2 in. / 5545 mm |
| (O) Digging depth, 2 ft. flat bottom | 14 ft. 4 in. / 4379 mm | 14 ft. 7 in. / 4446 mm | 18 ft. 1 in. / 5498 mm |
| Reach from rear axle centerline at ground line | 22 ft. 1 in. / 6729 mm | 22 ft. 3 in. / 6772 mm | 25 ft. 6 in. / 7770 mm |
| (P) Reach from swing pivot at ground line | 18 ft. 6 in. / 5639 mm | 18 ft. 8 in. / 5682 mm | 21 ft. 11 in. / 6680 mm |
| Maximum operating height | 17 ft. 3 in. / 5269 mm | 17 ft. 2 in. / 5240 mm | 19 ft. 5 in. / 5919 mm |
| Loading height | 11 ft. 5 in. / 3483 mm | 12 ft. 0 in. / 3654 mm | 13 ft. 10 in. / 4223 mm |
| (Q) Loading reach | 5 ft. 10 in. / 1764 mm | 5 ft. 11 in. / 1804 mm | 8 ft. 11 in. / 2706 mm |
| Swing arc | 180° | 180° | 180° |
| Bucket rotation position 1 and 2 | 170° | 165° | 165° |
| (R) Stabilizer spread – operating position (center of pad) | 10 ft. 7 in. / 3219 mm | 10 ft. 7 in. / 3219 mm | 10 ft. 7 in. / 3219 mm |
| (S) Stabilizer spread – operating position (outside edge of pad) | 12 ft. 1 in. / 3689 mm | 12 ft. 1 in. / 3689 mm | 12 ft. 1 in. / 3689 mm |
| Stabilizer spread – transport position | 7 ft. 9 in. / 2352 mm | 7 ft. 9 in. / 2352 mm | 7 ft. 9 in. / 2352 mm |
| Bucket dig force | 11,700 lb. / 52.0 kN | 12,065 lb. / 53.7 kN | 12,065 lb. / 53.7 kN |
| Stick dig force | 7,704 lb. / 34.3 kN | 7,836 lb. / 34.9 kN | 5,635 lb. / 25.1 kN |
| Leveling angle (max. slope on which machine will make vertical cut) | 14° | 14° | 14° |

Note: Dimensions and performance specifications shown are for machines equipped with 11L x 16 (10 PR) front tires, 16.9 x 24 (8 PR) rear tires, ROPS canopy, standard stick, standard equipment unless otherwise specified.



Tires

Tubeless, nylon, loader design tires.

Single-Tilt

| Type | Size | Ply Rating |
|-----------------|--------------|------------|
| Front, Standard | | |
| 2WD (F3) | 11L x 16 | 10 |
| AWD* (SGL) | 12.5/80 x 18 | 10 |
| Front, Optional | | |
| 2WD (F3) | 11L x 16 | 12 |
| AWD* (SGL) | 12.5/80 x 18 | 10 |
| AWD* (IT510) | 340/80 x R18 | R |
| Rear, Standard | | |
| 2WD (ISG) | 16.9 x 24 | 8 |
| 2WD (ISG) | 16.9 x 24 | 10 |
| Rear, Optional | | |
| 2WD/AWD (IT525) | 19.5L x 24 | 8 |
| 2WD/AWD (IT525) | 19.5L x 24 | 10 |
| AWD (IT510) | 19.5L x R24 | R |

IT Loader

| Type | Size | Ply Rating |
|-----------------|--------------|------------|
| Front, Standard | | |
| 2WD (F3) | 11L x 16 | 12 |
| AWD* (SGL) | 12.5/80 x 18 | 10 |
| Front, Optional | | |
| AWD* (IT510) | 340/80 x R18 | R |
| Rear, Standard | | |
| 2WD/AWD (ISG) | 16.9 x 24 | 8 |
| Rear, Optional | | |
| 2WD/AWD (ISG) | 16.9 x 24 | 10 |
| 2WD/AWD (IT525) | 19.5L x 24 | 8 |
| 2WD/AWD (IT525) | 19.5L x 24 | 10 |
| AWD (IT510) | 19.5L x R24 | R |

*Valve stem protection (VSP) included

*Not for use with extendible stick

**Standard with extendible stick

Service Refill Capacities

| | US Gal | Liters |
|-----------------------------|--------|--------|
| Cooling System | | |
| naturally aspirated/non-a/c | 5.0 | 18.9 |
| turbocharged / a/c | 5.7 | 21.6 |
| Fuel Tank | 34.0 | 128.0 |
| Engine Oil with Filter | 2.0 | 7.3 |
| Transmission | | |
| two wheel drive | 4.0 | 15.0 |
| all wheel drive | 4.8 | 18.0 |
| Rear Axle | 6.4 | 24.0 |
| Front Axle (AWD) | 2.0 | 7.5 |
| planetaries | 0.2 | 0.75 |
| Hydraulic System | 21.0 | 79.0 |
| Hydraulic Tank | 10.0 | 38.0 |

Standard-Duty Buckets

With weld-on adapters and pin-on teeth

| Width (in./mm) | Capacities SAE (ft ³ /liters) | Weight (lb./kg) | No. of Teeth |
|-------------------|---------------------------------------------|--------------------|-----------------|
| 12 / 305 | 2.5 / 70 | 243 / 110 | 3 |
| 18 / 457 | 4.5 / 127 | 287 / 130 | 4 |
| 24 / 610 | 7.0 / 198 | 331 / 150 | 5 |
| 30 / 762 | 9.5 / 255 | 364 / 165 | 5 |
| 36 / 914 | 11.5 / 311 | 397 / 180 | 6 |

Heavy-Duty Buckets

With weld-on adapters and pin-on teeth

| Width (in./mm) | Capacities SAE (ft ³ /liters) | Weight (lb./kg) | No. of Teeth |
|-------------------|---------------------------------------------|--------------------|-----------------|
| 12 / 305 | 2.5 / 70 | 265 / 120 | 3 |
| 16 / 400 | 3.5 / 100 | 291 / 132 | 4 |
| 18 / 457 | 4.5 / 127 | 331 / 150 | 4 |
| 24 / 610 | 7.0 / 198 | 386 / 175 | 5 |
| 30 / 762 | 9.5 / 255 | 430 / 195 | 5 |
| 36 / 914 | 11.5 / 311 | 463 / 210 | 6 |

High-Capacity Buckets

With weld-on adapters and pin-on teeth

| Width (in./mm) | Capacities SAE (ft ³ /liters) | Weight (lb./kg) | No. of Teeth |
|-------------------|---------------------------------------------|--------------------|-----------------|
| 18 / 457 | 6.5 / 184 | 342 / 155 | 4 |
| 24 / 610 | 9.0 / 255 | 397 / 180 | 5 |
| 30 / 762 | 11.0 / 311 | 441 / 200 | 5 |
| 36 / 914 | 14.0 / 396 | 474 / 215 | 6 |

Extreme-Service Buckets

With weld-on adapters and pin-on teeth

| Width (in./mm) | Capacities SAE (ft ³ /liters) | Weight (lb./kg) | No. of Teeth |
|-------------------|---------------------------------------------|--------------------|-----------------|
| 18 / 457 | 4.0 / 99 | 320 / 145 | 4 |
| 24 / 610 | 6.0 / 156 | 364 / 165 | 4 |

Note: Additional GET tips available through Caterpillar Parts.

Weights

Standard machine with 1.0 yd³/0.76 m³ general purpose loader bucket, 24 in./610 mm standard-duty backhoe bucket, 550 lb./250 kg counterweight, 176 lb./80 kg operator, and full fuel tank.

Operating weight (range)

13,892-21,389 lb. / 6,300-9,700 kg

ROPS cab 573 lb. / 260 kg

Air conditioning 99 lb. / 45 kg

All wheel drive 234 lb. / 106 kg

Loader, IT w/QC 741 lb. / 336 kg

MP bucket (1.25 yd³ / 0.96 m³)

with fold-over forks 992 lb. / 450 kg

w/o fold-over forks 615 lb. / 279 kg

Extendible stick (excludes front

counterweight) 523 lb. / 237 kg

Counterweights, base 320 lb. / 145 kg

stackable, three, rear 230 lb. / 105 kg

stackable, one 470 lb. / 215 kg

Minimum Counterweight Recommendations — Standard Stick

| Loader Bucket | Powertrain | Single Tilt | IT Loader w/QC |
|-------------------------------|------------|------------------|----------------|
| GP | 2WD | 550 lb. / 250 kg | Bumper |
| GP | AWD | 320 lb. / 145 kg | Bumper |
| MP | 2WD/AWD | Bumper | Bumper |
| MP with fold-over forks | 2WD/AWD | Bumper | N/A |
| Forks / Material handling arm | 2WD/AWD | N/A | Bumper |

Minimum Counterweight Recommendations — Extendible Stick

| Loader Bucket | Powertrain | Single Tilt | IT Loader w/QC |
|-------------------------------|------------|--------------------|------------------|
| GP | 2WD | 1,250 lb. / 570 kg | 780 lb. / 355 kg |
| GP | AWD | 1,250 lb. / 570 kg | 550 lb. / 250 kg |
| MP | 2WD | 320 lb. / 145 kg | Bumper |
| MP | AWD | Bumper | Bumper |
| MP with fold-over forks | 2WD | 320 lb. / 145 kg | N/A |
| MP with fold-over forks | AWD | Bumper | N/A |
| Forks / Material handling arm | 2WD/AWD | N/A | 780 lb. / 355 kg |

Note: Bumper (35 lb. / 16 kg) is standard with all units.

Total gross vehicle weight not to exceed 21,389 lb. / 9,700 kg

Steering

Full hydrostatic steering.

Full hydrostatic steering controlled by a hand metering unit. Steering unit provides secondary steering capability in case of power failure.

| Type | Front wheel |
|-------------------------------------|------------------|
| Power steering | Hydrostatic |
| 2WD cylinder, one (1) double-acting | |
| Bore | 3 in. / 76 mm |
| Stroke | 8.8 in. / 224 mm |
| Rod diameter | 1.9 in. / 48 mm |
| AWD cylinder, one (1) double-acting | |
| Bore | 3 in. / 76 mm |
| Stroke | 8.3 in. / 210 mm |
| Rod diameter | 1.4 in. / 36 mm |

Turning Circle

2WD/AWD (Inner wheel not braked)

Outside front wheels

26 ft. 9 in. / 8.1 m

Outside widest loader bucket

35 ft. 0 in. / 10.7 m

(SAE J695)

Axles

Choice of standard two-wheel-drive or all-wheel-drive.

Features

- Heavy-duty rear axle with self-adjusting inboard brakes, differential lock, and final drives.
- Optional all-wheel-drive (AWD) engaged by front console panel switch, on-the-go, under load, in any gear, forward and reverse. Features outboard planetary gear final drives.

- AWD and 2WD axles are pendulum mounted and permanently sealed and lubricated, requiring no daily maintenance. Also features double-acting steering cylinder with 50° steering angle for increased maneuverability. Oscillation 11° each direction from centerline.

Axle Ratings

Front axle, two-wheel drive

| | | |
|---------|------------|----------|
| Static | 30,319 lb. | 13750 kg |
| Dynamic | 6,983 lb. | 3167 kg |

Front axle, all-wheel drive

| | | |
|---------|------------|----------|
| Static | 27,029 lb. | 12258 kg |
| Dynamic | 6,983 lb. | 3167 kg |

Rear axle

| | | |
|---------|------------|----------|
| Static | 61,233 lb. | 27770 kg |
| Dynamic | 20,418 lb. | 9260 kg |

Hydraulic System

Load-sensing, closed-center system.

Variable-flow, closed-center, load-sensing system provides full hydraulic force to cutting edges at all engine speeds. Provides low fuel consumption and low effort controls.

| | |
|-----------------|-----------------------------|
| Type | Closed-center |
| Pump type | Variable-flow, axial-piston |
| Pump capacity | 43 gpm/162 l/m at 2,200 rpm |
| System pressure | 3,000 psi / 20700 kPa |

Brakes

Fully enclosed, hydraulic, multiple discs.

Features

- Inboard oil-immersed, hydraulically-actuated, multiple discs on final drive input shaft.
- Completely enclosed and sealed.
- Self-adjusting
- Foot-operated brake pedals can be interlocked for roading.
- Parking/secondary brakes are independent of the service brake system. Parking brake is mechanically applied through a hand lever located in the right side console.

Meets SAE J1473 October 1990 and ISO 3450 1985 requirements.

Cab

ROPS cab is standard.

When properly installed and maintained, the cab offered by Caterpillar, when tested with doors and windows closed as per work cycle procedures specified in ANSI/SAE J1166 May 90, results in an operator sound exposure Leq (equivalent sound pressure level) of 82 dB(A). This A-weighted sound exposure level can be used in conjunction with OSHA, MSHA, and EEC Occupational Noise Exposure Criteria. Also, when tested as per the static specifications of 86/662/EEC, the respective sound pressure levels are as follows:

| Naturally Aspirated | dB(A) | dB(A)* |
|-----------------------|-------|--------|
| Exterior (ISO 6393) | 105 | 105 |
| In the cab (ISO 6394) | 80 | 83 |

Turbocharged

| | | |
|-----------------------|-----|-----|
| Exterior (ISO 6393) | 104 | 106 |
| In the cab (ISO 6394) | 81 | 83 |

*with air conditioning

ROPS (Roll Over Protective Structure) offered by Caterpillar for this machine meets ROPS criteria SAE J394, SAE J1040 May 1994, and ISO 3471 1994. It also meets FOPS (Falling Object Protective Structure) criteria SAE January 1981 and ISO 3449 1992.

Engine

Caterpillar 3054 direct injection, four-cylinder diesel engine.

| Ratings at 2200 RPM | HP | kW |
|---------------------|----|----|
| Gross Power | 78 | 59 |
| Net Power | 75 | 56 |
| Gross Power (turbo) | 84 | 63 |
| Net Power (turbo) | 80 | 60 |

The following ratings apply at 2200 RPM when tested under the specified conditions for the specified standard:

Net Power at 2200 RPM:

| Naturally Aspirated | HP | kW | PS |
|---------------------|----|----|----|
| Caterpillar | 75 | 56 | — |
| SAE J1349 | 74 | 55 | — |
| ISO 9249 | 75 | 56 | — |
| ISO 1585 | 75 | 56 | — |
| EEC 80/1269 | 75 | 56 | — |
| DIN 70020 | — | — | 78 |

Turbocharged (optional)

| | | | |
|-------------|----|----|----|
| Caterpillar | 80 | 60 | — |
| SAE J1349 | 79 | 59 | — |
| ISO 9249 | 80 | 60 | — |
| ISO 1585 | 80 | 60 | — |
| EEC 80/1269 | 80 | 60 | — |
| DIN 70020 | — | — | 83 |

Dimensions

| | |
|--------------|-------------------------|
| Bore | 3.94 in. / 100mm |
| Stroke | 5 in. / 127mm |
| Displacement | 243 cu. in. / 4.0 liter |

Percent Torque Rise (net)

| | |
|---------------------|------|
| Naturally aspirated | 15.2 |
| Turbocharged | 24.0 |

Power Rating Conditions

- Based on standard air conditions of 77°F (25°C) and 29.32 in. (99 kPa) dry barometer.
- Used 35° API gravity fuel having an LHV of 18,390 Btu/lb (42,780 kJ/kg) when used at 86°F (30°C) (reference a fuel density of 7.001 lb./gal (838.9 g/L)).
- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler, and alternator.
- No derating required up to 5,000 ft. (1500 m) altitude for n/a. 7,500 ft. (2286 m) for turbocharged.

Features

- Controlled-expansion, three-ring pistons made of lightweight, silicon/aluminum alloy for strength and maximum thermal conductivity.
- Forged, chrome/molybdenum-steel crankshaft with tuffride hardened journals.
- Front and rear crankshaft oil seals are "lip" type Viton design featuring an integral dust lip.
- Heat-resistant, silicone-chrome steel intake and STELLITE-faced exhaust valves are used for long engine life.

- Cylinder block is high strength cast iron alloy of deep-skirt, monobloc design for increased strength and long life. Uses replaceable flanged press-fit, dry-type cast-iron liners.
- Cylinder head is high-strength, cast-iron alloy construction with extra-duty wall and deck thickness. Intake and exhaust ports are fully machined.
- Direct-injection fuel system provides accurate fuel delivery. Injectors are easily accessible.
- Dry-type, radial-seal, two-stage air cleaner improves visibility by eliminating hood-mounted pre-cleaner.
- Optional turbocharging available.
- Direct-electric 12-volt starting and charging system with 700 CCA Group 31 maintenance-free battery.
- Standard thermal starting aid system for efficient cold weather starting.

Transmission

Caterpillar countershaft four-speed transmission with electric forward and reverse shuttle.

Four speeds forward and reverse power shuttle — full synchromesh in all gears. Constant mesh gears on all ratios permit on-the-go shifting of all gears — up or down. Neutral start provision prevents starting machine while shuttle is engaged.

Torque converter free-wheel clutch allows the converter stator to free-wheel during high-speed, low-load conditions such as roading.

Transmission Disconnect

Hand-operated power disconnect for easy, on-the-go shifting and full engine rpm for faster cycle times.

Torque Converter

Single-stage, 2.63:1 stall ratio.

Forward/Reverse Electric Power Shuttle

Conveniently placed, hand-operated lever provides instant, on-the-go direction changes between forward and reverse through power hydraulic clutches.

Travel Speeds

Travel speeds of two-wheel-drive backhoe loader at full throttle, when equipped with 16.9 x 24 rear tires.

| | 1st | 2nd | 3rd | 4th |
|---------|-----|-----|------|------|
| Forward | | | | |
| MPH | 3.6 | 5.8 | 11.1 | 21.1 |
| Km/H | 5.8 | 9.3 | 17.9 | 34.0 |
| Reverse | | | | |
| MPH | 3.6 | 5.8 | 11.1 | 21.1 |
| Km/H | 5.8 | 9.3 | 17.9 | 34.0 |

Power-Shuttle transmission.

Built rugged for tough applications. The Power-Shuttle transmission provides four speed selections in a constant mesh synchronized arrangement, coupled with hydraulically shifted forward and reverse shuttle clutches. Direction and travel speed can be changed on-the-go.

A rocker switch engages all-wheel-drive (AWD) on-the-go, under load. A new torque converter is used to efficiently apply engine power for maximum fuel efficiency and performance. An improved second gear ratio increases machine rimpull to match loader performance.

The Cat extendible stick increases versatility by extending dig depth and reach by approximately four feet. Self-lubricated, non-metallic, shim-adjustable wear pads are used for low maintenance, minimal wear and ease of adjustment.



Power Train/Chassis

Designed for strength, performance, and versatility.

Caterpillar 3054 engine. The 3054 engine is available in either a naturally-aspirated or optional turbocharged version (3054T). The 3054 is a 4-cylinder, 4-stroke, direct-injection design. The thermal starting aid is standard equipment, providing reliable starting down to -20° F. The Cat 3054 also features a gear-driven water pump, providing better reliability than a conventional belt-driven design. A dry-type, radial-seal air filter has been designed specifically for this engine. This two-stage filter incorporates the function of the air cleaner and precleaner into a single unit, which eliminates the hood-mounted precleaner.

Axles and brakes. The rear axle is an enclosed design that allows extended operation even in the harshest environments. Multi-disc, hydraulic brakes are oil-immersed and self-adjusting.

Hydraulics. You don't work at full capacity all the time — and the Caterpillar variable-flow system senses the work demand and adjusts flow and pressure to match it. And Cat XT hoses virtually eliminate downtime from hose failure. If a hose does need replacing, it's fast, easy and requires no special tools.

Caterpillar couplings are equipped with O-ring face seal fittings for long life and less maintenance.

Stackable counterweights allow easy adjustment of weight distribution without having to completely replace an existing counterweight.

Spacious, lockable tool and battery box provides secure tool storage.



Loader

The IT loader means business — more versatility, more breakout force, more lift capacity.



Loader. An optional IT front loader is available for the C Series machines. The IT loader provides maximum lift and breakout forces, and parallel lift for efficient loading and material handling. A return-to-dig system makes operation easy, and improves cycle times. The hydraulic Quick Coupler provides versatility and allows quick connection

to selected attachments available for the Cat family of integrated toolcarriers. Most attachments can be changed in less than 30 seconds, from the comfort of the operator's compartment. The low-profile hood and divergent lift arms enhance visibility to the attachments and forward work area. An improved second-gear

ratio creates an excellent match between the loader hydraulic system and the machine rimpull for faster truck loading.

Excavator-style backhoe

- Ability to reach over obstacles
- Faster, easier truck loading
- Enhanced visibility

Load-sensing hydraulic system

- Power where you need it, when you need it, at any engine speed
- Cat exclusive, high-pressure XT hose
- O-ring face seal fittings for reliability

Other special features

- Single location access to service refill points
- Stackable counterweights allow easy adjustment of weight distribution
- Spacious, lockable tool and battery box provides secure tool storage
- Large 34-gallon fuel tank extends operating intervals



Optional Equipment

With approximate change in operating weight.

| | lbs / kg | | lbs / kg | | lbs / kg |
|---------------------------------------------------|---------------|---------------------------------------------------|-----------|--------------------------------|---------------|
| Air conditioning | 99 / 45 | Coolant, additional protection (-58° F/-50° C) | 0 / 0 | Radio installation kit | 7 / 3 |
| Alternator, 90 amp | 18 / 8 | Counterweights: | | Receptacle, 12 volt | |
| Attachments, front loader (single tilt) | | Base | 320 / 145 | Internal | 1 / 0.2 |
| General-purpose buckets: | | Stackable: | | External | 1 / 0.2 |
| 1.0 yd ³ /0.76 m ³ | n/a* | three (each) | 230 / 105 | Rotating beacon | 11 / 5 |
| 1.25 yd ³ /0.96 m ³ | 106 / 48 | one | 470 / 215 | Seat belt - 3 in./75mm | 0 / 0 |
| Multi-purpose bucket: | | Cutting edge, bolt-on: | | Stabilizers | |
| 1.25 yd ³ /0.96 m ³ | 615 / 279 | Two piece | 154 / 70 | Street pads, rubber (set of 4) | 82 / 37 |
| 1.25 yd ³ /0.96 m ³ w/forks | 992 / 450 | Guards: | | Reversible pads | 84 / 38 |
| Attachments, front loader (IT) | | AWD driveshaft | 64 / 29 | Stick, extendible | 540 / 245 |
| General-purpose bucket: | | Stabilizer, rock | 130 / 59 | Teeth, loader bucket | 99 / 45 |
| 1.25 yd ³ /0.96 m ³ | 146 / 66 | High ambient cooling package | 4 / 2 | Tilt steering wheel | 8 / 4 |
| Multi-purpose bucket: | | Hydraulic valves, loader: | | Tires | (see page 17) |
| 1.25 yd ³ /0.96 m ³ | 615 / 279 | 3rd valve for GP, MP or | | Turbocharger, engine | 18 / 8 |
| Forks (for use with IT loader): | | quick coupler | 27 / 12 | Vandalism protection | |
| 43 in./1,043 mm | 589 / -267 | Hydraulic valves, backhoe: | | Gauge cover | 2 / 1 |
| 48 in./1,220 mm | 551 / -250 | Auxiliary valve | | Padlocks | 2 / 1 |
| 53 in./1,346 mm | 523 / -237 | (standard stick) | 11 / 5 | Hood Lock | 0 / 0 |
| Carriage, fork | 139 / -63 | Auxiliary valve | | | |
| Material handling arm | 143 / -65 | (extendible stick) | 11 / 5 | | |
| Attachments, backhoe: | | Hydraulic lines: | | | |
| Buckets | (see page 17) | Auxiliary, low flow use | | | |
| Quick Coupler (backhoe): | | (to boom) | 22 / 10 | | |
| Mechanical | 165 / 75 | Universal, high flow use | | | |
| Axle, front: | | (to stick) | 99 / 45 | | |
| All-wheel-drive | 234 / 106 | Quick disconnects | 4 / 2 | | |
| Backhoe controls: | | Lights: | | | |
| Excavator pattern | 9 / 4 | Working, additional | | | |
| Foot swing, 3 or 4 lever | 26 / 12 | (2 front, 2 rear) | 7 / 3 | | |
| Four lever | 9 / 4 | Loader, IT w/ QC | 741 / 336 | | |
| Battery, additional | 60 / 27 | | | | |
| Cab - ROPS | 573 / 260 | | | | |

* Included in base machine weight

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In farm areas, any form of archaeological attributes need to be apparent underneath the floor. With city areas, they'll be thick layers of human deposits and simplest the uppermost may be seen to the bare eye. With both case, the first actual project is drawing a scaled web page plan which could display the rims of the excavation. This approach may be composed the usage of tape measures, or as it is greater not unusual place those days, an digital general station. A grid is normally set up, to divide the web page.

Excavation is moreover beneficial for digging out homes and ditches. When clearing dust out for roads or sub divisions, excavation is what looks after matters. Even aleven though there are some means, the time period excavation is used each time that the earth or dust is disturbed. Heavy equipment is likewise very not unusual place with excavation, consisting of excavator machines or backhoes. Excavating crews run the system and dig up soil and rocks for regardless of the cause can be. Excavator machines are the maximum normally used equipment, as they could flow some of dust in a touch little bit of time.

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pay loader

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caretrack

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wheeled excavator

wheeled excavators

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volvo a40d

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