

953C

Track Loader



Engine

Engine Model	Cat® 3126B ATAAC	
Net Flywheel Power	95 kW	128 hp

Weights

Operating Weight	15 145 kg	33,389 lb
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- Operating Weight: Includes coolant, lubricants, 100% fuel tank, ROPS cab, General Purpose Bucket with long bolt-on teeth and segments and 75 kg/165 lb operator.

Buckets

Capacity - General Purpose	1.85 m ³	2.42 yd ³
Capacity - Multi-Purpose	1.6 m ³	2.09 yd ³

- Bucket capacities are with long bolt-on teeth and segments.

953C Track Loader

Leading edge design, state-of-the art technology, and unmatched versatility in one machine allows maximum productivity.

Engine

✓ The Cat 3126B ATAAC diesel engine features a hydraulic electronic direct injection fuel system. Designed for performance, durability, serviceability, and fuel economy, the 3126B HEUI™ fuel system meets EPA Tier 2, EU Stage II and Japan MOC exhaust emission regulations. **pg. 4**

Work Tools

A large choice of buckets, Ground Engaging Tools (GET), and attachments, allow configuration of the 953C for maximum performance in virtually any job. **pg. 12**

The 953C works well in a wide range of applications. Excavating, clearing, stripping topsoil, landscape contouring, grading, dozing, backfilling, hard bank digging, carrying material, and truck loading all can be accomplished with one machine.

Reliable, durable operation. Rugged construction, self-diagnosis of electrical and power train systems, and easy maintenance help ensure extended service life with low operating costs.

Hydrostatic Drive

The hydrostatic drive with electronic control provides precise modulation for quick, smooth operation and superior maneuverability. Shorter cycle times, high efficiency, and excellent maneuverability results in increased productivity. **pg. 5**

Special Application Arrangements

Special arrangements - Waste Handling, Super LGP, Shiphold and more, are available or can be designed on request, to allow the 953C to work in special applications. **pg. 14**

Operator Station

✓ The C-Series Track Loader is designed for operator comfort, convenience, and productivity. Sound suppressed ROPS cab, heating and air conditioning, an adjustable air-suspension seat with side-to-side isolator, and pilot hydraulic implement controls help reduce operator fatigue. **pg. 6**



Electronic Monitoring System (EMS III)

- ✓ The Caterpillar® Electronic Monitoring System (EMS III), with flashable memory, monitors the hydrostatic and electrical systems, and provides the operator instant feedback on the machine condition. **pg. 8**

Structure

The box-section main frame is designed specifically for the work of a track loader. It provides durability, resistance to twisting, and a solid base for all components. The Z-bar linkage offers increased breakout force and fast dump speed for enhanced productivity. **pg. 9**

Oscillating Undercarriage

Improved traction, increased machine stability, and reduced frame impact are benefits of the Cat oscillating undercarriage. The Cat sealed and lubricated track reduces pin and internal bushing wear, reduces component friction and track noise, extending track life. **pg. 10**

Serviceability

- ✓ The 953C design offers reduced maintenance, convenient access to components, easy diagnostic capabilities, as well as easy and economical component replacement possibilities. Cat dealers also provide quick parts availability. **pg. 15**

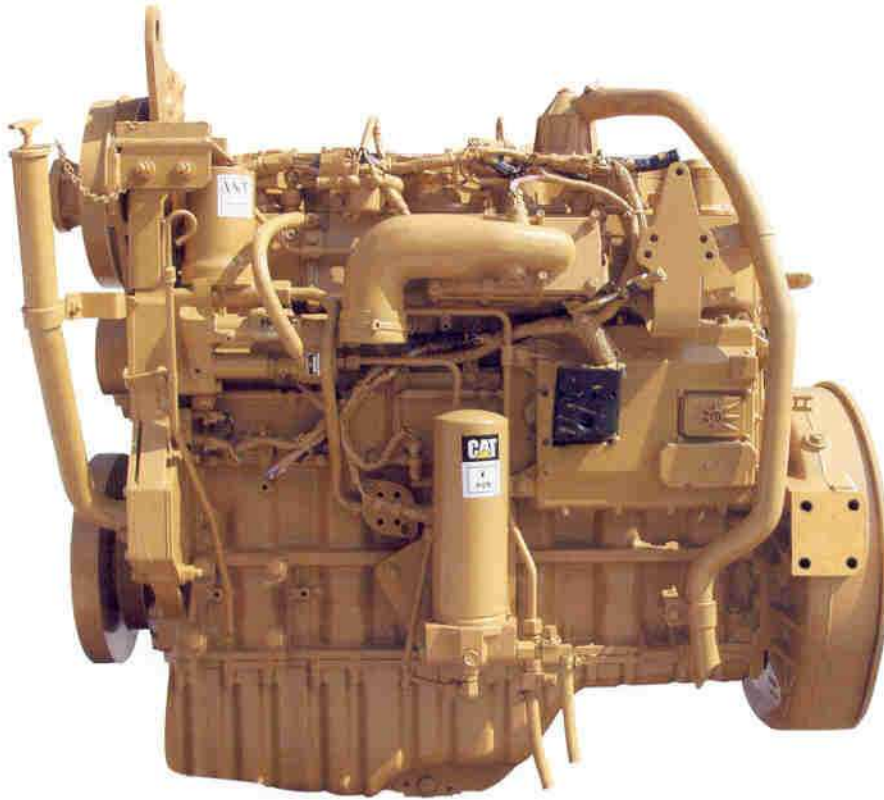
Total Customer Support

Your Caterpillar dealer offers a wide range of services that can be set up with a Customer Support Agreement. A customized plan, from PM service to total machine maintenance, and flexible financing, allows you to optimize your return on your investment. **pg. 16**



Engine

Provides power, reliability and acts as a working counterweight in the rear of the machine, for optimum machine balance.



Cat 3126B Diesel Engine. The Cat 3126B diesel engine is a six cylinder, four-cycle design that provides long, effective power strokes for high torque and more complete fuel combustion. The 3126B is rated at 95 net kW (128 net hp) at 2000 rpm. The 3126B is equipped with an electronic air inlet heater. The heater warms the air in the air inlet manifold for easier starting and reduced white smoke on cold starts.

Rear Engine Location. Rear engine location allows excellent forward visibility, while serving as a working counterweight. It also helps reduce radiator plugging while providing easy service access to the engine and other major components.

Fuel System. The hydraulic-actuated Electronic Unit Injection is a unique and proven high-pressure, direct injection fuel system for diesel engines. High injection pressures and short injection duration provide fast response, clean burning and added fuel savings.

ADEM™ III. The Advanced Diesel Engine Management - Electronic Control Module continuously monitors important engine conditions and functions. It precisely controls each time the HEUI injects fuel into a cylinder and signals the machine Electronic Monitoring System (EMS III) if a problem occurs with the engine.

Turbocharger and Aftercooler. A well-matched turbocharger and air-to-air aftercooler results in increased power. The exhaust driven turbocharger packs more air into the cylinders, while the air-to-air aftercooler cools the pressurized air from the turbocharger, making the engine intake air denser. The increased air in the cylinders results in more power, improved combustion, and reduced exhaust emissions.

Extended Life Design. The engine features an extended life design including seven main bearings that provide a large bearing surface area to distribute force loads in the engine. Durable single piece aluminum alloy pistons are standard for long life.

Hydrostatic Drive

The electronically controlled hydrostatic drive helps provide quick response for shorter cycle times and increased productivity.

Shifting. The hydrostatic drive eliminates the need for transmission shifting, which allows the operator to concentrate on working, maneuvering, and production.

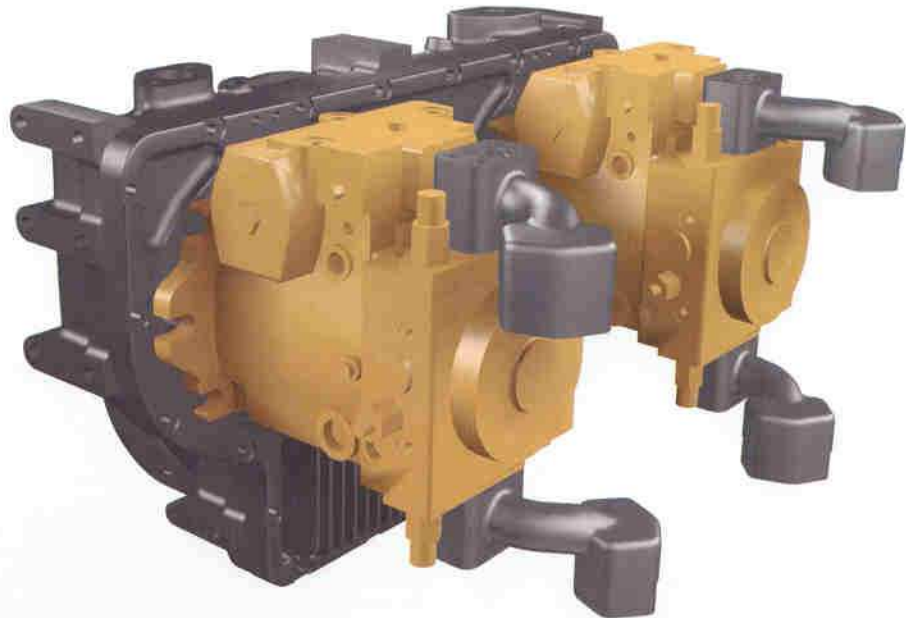
Machine Speed. The Electronic Hydrostatic Control (EHC) automatically adjusts machine speed to give the equipment hydraulic system priority, while the hydrostatic system takes advantage of all remaining engine power.

Engine RPM. The EHC maintains engine rpm in optimum operating range and balances the two track drive systems for straight travel without machine drift.

Electronic Monitoring System (EMS III). The EHC interfaces with the EMS III for system diagnostics and calibrations. It is self-diagnosing, and fully compatible with Electronic Technician (Cat ET) software. This allows quick and easy calibrations and troubleshooting.

Variable Displacement Pumps and Drive Motors. Variable displacement pumps and variable displacement drive motors are electronically controlled by the EHC, offering high efficiency and precise travel. Each track is independently driven by a separate hydraulic circuit consisting of one variable displacement pump, connected by Cat XT-6™ hydraulic hose and couplings to a variable displacement piston motor.

Separate Hydraulic Pumps. Separate hydraulic pumps offer easy servicing.



Maneuverability. Independent power is provided to each track, which provides great maneuverability, speed, and side slope operation. Controlling independent power and speed for each track allows the operator to maintain full power to both tracks while turning, achieving a “Power Turn”. Power Turns allow increased productivity when dozing or backfilling. For additional maneuverability, the operator can use counter rotation, which allows spot turns in tight locations.

Travel Speeds. Travel speeds are infinitely variable between zero and top speed. Two speed modes, “travel mode” and “work mode”, provide two different speed ranges to best match machine speed and torque to the job conditions for maximum productivity.

Operator Station

Designed for operator comfort, convenience, and ease of operation throughout the workday.



1. Heating and Air Conditioning.

The air circulation system delivers filtered, pressurized, and temperature-controlled air through 10 louvered vents. Air conditioning is standard on cab-equipped machines. Heater with controls is standard on both cab and canopy-equipped machines.

2. Caterpillar Air-suspension Seat.

The Caterpillar air-suspension seat, with side-to-side isolator, is ergonomically designed and fully adjustable for maximum operator comfort and control. Cushioned side bolsters prevent side movement. The backrest centerline conforms to the operator's spinal curve. The contoured base curves away from lower back to reduce pressure. Retractable seat belt is 75 mm (3 in) wide for positive, comfortable restraint.

3. Storage Space. Storage spaces include a lockable storage box, a lunch box compartment, beverage holder, and coat hook.

4. Armrests. Adjustable armrests can be positioned up or down. The right armrest is adjustable forward and backward. Each armrest can be inclined to different angles for excellent operator comfort and control.

5. Dash Board. The newly designed smooth, rounded dashboard with integral defroster vents, provide all of the necessary functions and instrumentation within the operator's normal line of sight.

6. Hydrostatic Drive System Controls.

The hydrostatic drive system controls allow quick speed and directional changes from a single control lever for maximum maneuverability. Pedal steering allows precise control of each track independently and on demand counter rotation. The brake pedal is supplemental to dynamic hydraulic braking provided by the hydrostatic drive system.



7. Speed Switches. The speed mode switch (B) allows the operator to choose between "work mode" for fine control, and "travel mode" for maximum drive speed, to best match the machine speed to various job conditions. The electronic engine speed selector switch (A) is used by the operator to set engine RPM.



8. Pilot Operated Controls. Pilot operated implement controls for easier operation and greater productivity. Choice of single-lever pilot control (standard) or two-lever (optional) is available for bucket lift and dump. Automatic adjustable magnetic lift and bucket kickouts allow the operator to concentrate on positioning the machine, resulting in higher productivity.

9. Viewing Area. The viewing area includes tinted glass to reduce glare and provide an excellent view to the bucket, tracks, and around the engine enclosure to the rear. Sun visor, windshield wipers and washers are all standard features on the cab. The front wiper has variable speed, intermittent control.

10. Rearview Mirror. The rearview mirror is located above the front windshield, maximizing the operator's visibility.

Courtesy of Machine.Market

Electronic Monitoring System (EMS III)

The Electronic Monitoring System (EMS III) offers three main functions.



Alert Indicators. The alert indicator cluster groups the individual alert indicators for low fuel pressure, case drain filter bypass, charge filter bypass, high pump drive oil temperature, low hydrostatic system charge pressure, low engine oil pressure, check engine detected by the ADEM III, low/high alternator output, system warning for hydrostatic drive system, and air inlet heater activated.

Digital Message Display. The digital display can show the operator's choice of hour meter, engine rpm, charge pressure or service codes.

Three Level Warning System. EMS III also functions as a warning system with three levels of warning.

EMS III - Self-test. The EMS III self-test verifies that the main display module is operating properly every time the key start switch is turned from the "off" to the "on" position.

Electronic Monitoring System (EMS III)

Functions. The Caterpillar EMS III offers three main functions. These include quick and simple calibration of the hydrostatic drive system, prevention of damage by alerting the operator if a machine fault has occurred, and monitoring of hydrostatic and electrical systems to aid service personnel in troubleshooting and repairs.

Gauge Cluster. The gauge cluster contains four gauges, which monitor engine coolant temperature, pump drive oil temperature, hydraulic (equipment/power train) oil temperature, and fuel level.

Structure

The box-section mainframe is designed to handle heavy loads, while Z-Bar linkage maximizes breakout force, while distributing stress loads to the mainframe.

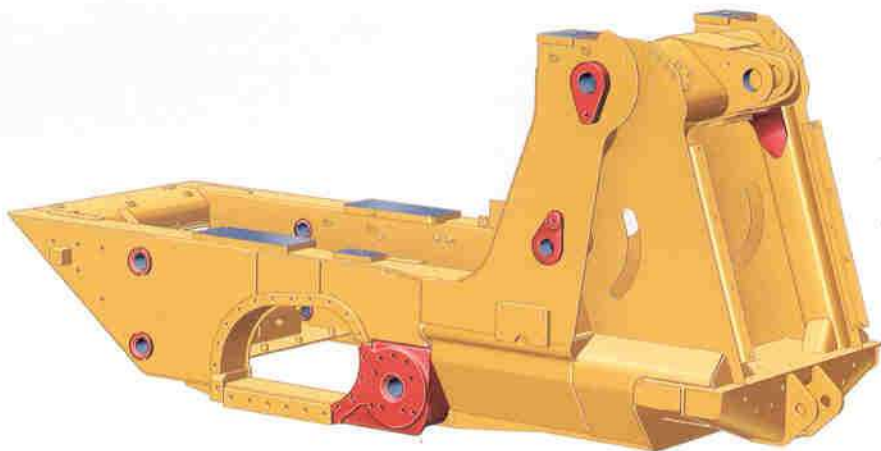
Mainframe and Loader Tower. The mainframe and loader tower is a single, welded fabrication with castings and forgings incorporated at points of high stress to distribute those stresses over wide areas for long structural life.

Design. Strong box-section mainframe design, with continuous, deep-penetration welds resist twisting loads to protect components from excessive wear or damage without adding extra weight to the machine. The frame rails consist of two box sections, which are joined at the rear by a box-section cross member. Mounting points for the final drives, pivot shafts, and operator's platform are integrated into each mainframe side rail.

Four-Plate Loader Tower. The four-plate loader tower is integral with the basic mainframe. The loader tower distributes forces evenly from the lift arms to the mainframe, which eliminates twisting for maximum structural durability. The loader tower provides solid mounting points for lift arms, lift cylinders, and Z-Bar tilt cylinder.

Castings. Steel Castings (shown in red) are used in areas of high stress concentration. Large radius curves dissipate stresses that could cause fatigue and cracking.

Steel Frame. Fatigue resistant steel frame sections along with castings provide flexibility, durability and excellent resistance to impact loads.



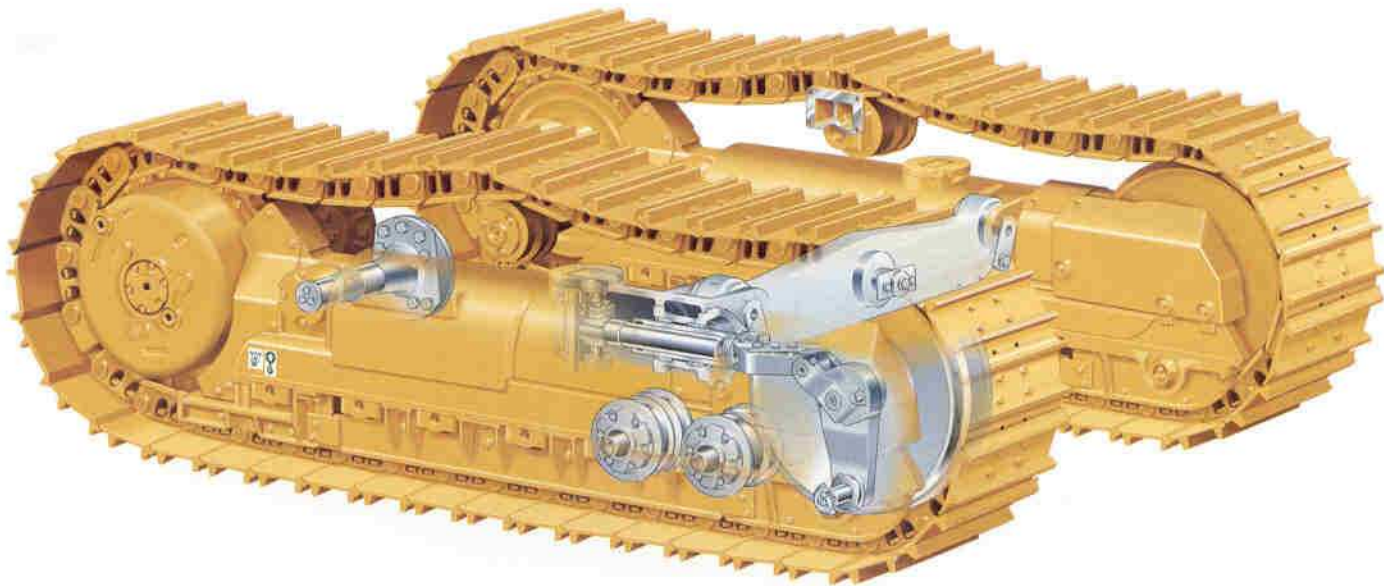
Durability. Structures are designed to provide durability and extended service life to support multiple rebuilds.

Z-Bar Linkage. Breakout force is exceptionally high due to mechanical advantage of Z-bar linkage design, and hydraulic pressure applied to the head end of the tilt cylinder. Using a single tilt cylinder and linkage provides a better view of the work area, bucket, and cutting edge.

Courtesy of Machine.Market

Oscillating Undercarriage

Keeps more track on the ground for maximum traction and stability. Several shoe options provide best match to job conditions.



Undercarriage. The oscillating track roller frame design decreases ground induced impact loads to the machine, increases machine stability on rough terrain, and provides a smoother, more comfortable ride for the operator.

Pivot Shaft. Steel pivot shafts attach the rear ends of the track roller frames to the loader mainframe and carry most of the weight. The pivot shafts transfer ground induced shock loads from the track roller frames to the loader mainframe rather than through the final drives. The result is longer final drive life.

Track and Carrier Rollers. Six track rollers spread the machine weight over a larger area. This improves stability and provides a more comfortable ride for the operator. A single upper carrier roller on each side mounts to the machine mainframe. This mounting arrangement helps resist mud packing of the undercarriage.

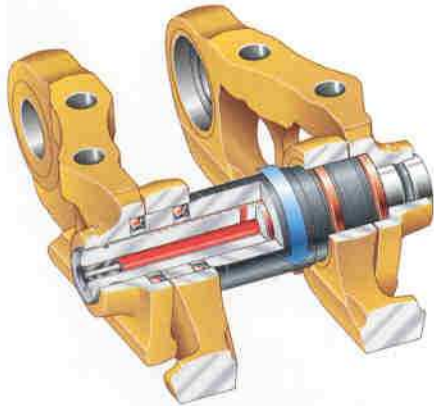
Track Adjuster. The track adjuster and mechanical recoil system use a large recoil spring and grease filled adjustment cylinder, which allows the idler to move forward and back to maintain proper track tension as it absorbs undercarriage shock loads.

Equalizer Bar. The equalizer bar is pinned in its center to the machine mainframe and at the ends to each track roller frame. This allows the forward ends of the track roller frames to oscillate, or move vertically, to keep more track on the ground in uneven underfoot conditions. The equalizer bar also provides a more stable work platform for the operator, who will be comfortable working at faster speeds for increased productivity.

Swing-Link Idler. Permits horizontal idler movement, absorbing shock loads and maintaining proper track tension, while eliminating the need for shims and wear strips, which improves machine stability, track roller frame rigidity and durability. Cat idlers provide superior structural support.

Courtesy of MachineMarket

Sealed and Lubricated Track. Sealed and lubricated track keeps maintenance costs down by reducing pin and internal bushing wear, which can extend the life of the track and the undercarriage components. Lubricating the pin helps reduce component friction for less track noise and greater drive power efficiency.



Rotating Bushing Track. Rotating Bushing Track is designed to extend system life and lower costs in highly abrasive low to moderate impact applications. RBT features bushings, which rotate when in contact with the sprocket, greatly reducing bushing and sprocket wear. This design eliminates bushing turn maintenance expense and sprocket replacement costs. Rotating Bushing Track is available as optional undercarriage.

Track Links. The standard track links are the newest generation of Extended Wear Life (EWL) track. Included is more wear material for longer track life. A two-piece, split master link allows easy track removal and installation.



(1) Double Grouser (2) Trapezoidal Center Hole (3) Single Grouser (4) Rubber Grouser

Sprockets. The Tough Steel™ sprocket segments are a new addition, extending sprocket segment life. The five segments are bolted onto each final drive sprocket hub. Segments can be removed or replaced without breaking the track. Driven by every second sprocket tooth, the track chain makes two complete revolutions before each tooth contacts a bushing once. The result is long, even wear of the sprocket teeth.

Shoe Options. There are several shoe options to choose from with the Caterpillar oscillating undercarriage. Wide, double grouser is now standard.

Consult your Cat dealer for more information.

Work Tools

A variety of attachments and Ground Engaging Tools (GET) are available to maximize performance in any application.

Versatility. The large variety of tasks an operator can perform with the standard machine and attachments has led to the Caterpillar track loader's reputation for versatility.



General Purpose Bucket. The General Purpose (GP) bucket is designed for excellent loadability and long life in applications such as hard bank excavating, stripping, and stockpile loading. High-strength, low-alloy steel helps the bucket resist dents and abrasions. Shell-tine reinforcements support the rear of the bucket for increased structural strength.



Multi-Purpose Buckets. The Multi-purpose (MP) bucket is designed for a broad range of applications, such as loading, stripping, clearing, bulldozing, picking up debris, and fine grading. The bucket clamps hydraulically to grip logs or handle other tough-to-grasp materials.



Pallet Forks. When used with a quick coupler, Pallet Forks increase the versatility of the machine. Ideal for handling a variety of materials. Various tine arrangements and top clamps are available.

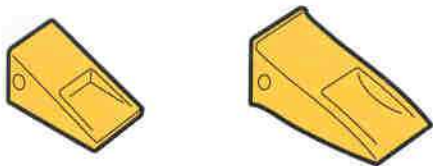


Ripper-Scarifier. The ripper-scarifier adds extra versatility to expand the application of the machine. Hinged-type, with three shanks, beam mounted with two pins pressed into each side of the mainframe. Raised and lowered with two wide-mounted cylinders. Six-pin linkage requires no lubrication.

Additional Work Tools. Beyond the GP and MP buckets and the Ripper-scarifier your Cat dealer offers: Extendible Material Handling Arms, Side Dump Buckets, Landfill Buckets, Angle Blades, Loader Rakes, and Horizontal Pin Lock Couplers.

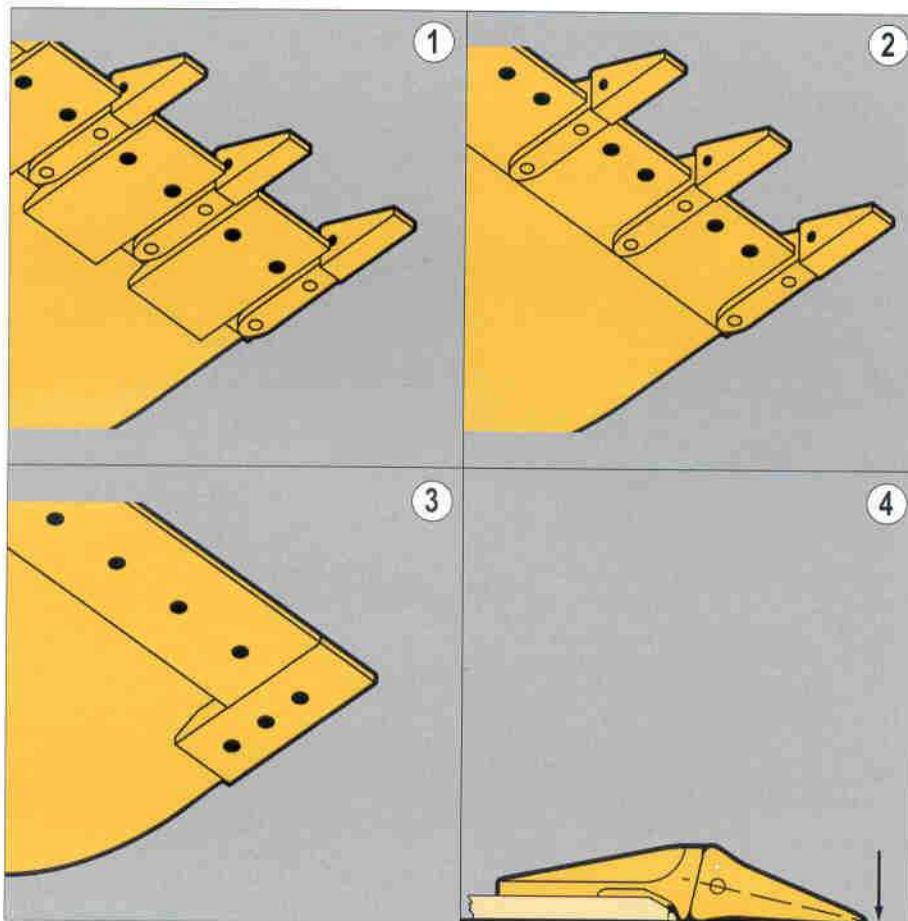
Bucket Protection Options. Caterpillar offers several types of adapters, tips, and cutting edges, which increase bucket life and maximize performance.

- (1) **Bolt-on adapters, tips, and bolt-on reversible edge segments** provide a clean working floor and increase bucket capacity. Heavy-duty segments are available with 62 percent more wear material than standard segments.
- (2) **Bolt-on, 2-strap adapters, and tips,** including corner adapters, offer excellent penetration.
- (3) **Bolt-on, reversible, cutting edges** are ideal when penetration is not a consideration, such as in clean-up work or stockpiling applications.
- (4) **Weld-on, top-strap adapters** are also available with a GP bucket. They are flush-mounted with the bottom of the cutting edge to provide a smooth bucket bottom and unrutted work surface. These adapters can be used with any of the tip options (not with a bolt-on protection system).



Tip Options. Caterpillar GET offers a variety of tips to better accommodate your needs in any working environment, whether that is high impact or general-purpose applications.

These and other GET options are available from your Caterpillar Dealer.



Short Tips. Short tips are extremely strong and are for use in high impact and pry-out work such as rock.

Long Tips. Long tips are for use in most general applications where breakage is not a concern.

Heavy-duty, Long Tips. Heavy-duty long tips are for use in general loading and excavation work. They have thirty-six percent more wear material than on standard tip. Provides increased strength, extended service life, and low cost-per-hour.

Special Application Arrangements

Special arrangements are available, or can be designed on request, to allow the 953C to work in special applications.



Waste Handling/Demolition Arrangements. Waste Handling/Demolition arrangements provide added versatility and are designed to make the 953C perform well in sanitary landfills, waste handling or demolition applications where the machine spreads, compacts, sorts, shreds and crushes materials.

Super Low Ground Pressure. The Super LGP 953C is designed for work in extreme soft underfoot conditions. For enhanced flotation and stability, the idler is extended to the front of the machine and a track roller is added. Larger track shoes increase the ground contact area for reduced ground pressure.

Shiphold Arrangement. Shiphold arrangements allow the 953C to work in the confined and harsh shiphold environment where the machine assists in the off-loading of bulk materials, such as iron ore, steel scrap, coal, minerals, and grain.

For other custom arrangements, contact your Caterpillar Dealer.

Courtesy of Machine.Market

Serviceability

Simplified service and extended service intervals means more productive uptime.

Reduced Maintenance. The 953C has many service features incorporated in the machine including:

- Caterpillar Extended Life Coolant for extended change intervals.
- Sealed electrical connectors lock out dust and moisture.
- Caterpillar XT™ hydraulic hose, in medium and high-pressure circuits, provide high abrasion resistance and far exceeds industry standards.
- O-Ring Face Seals (ORFS) hydraulic couplings eliminate fluid leaks, provide positive seals, and are reusable for lower operating costs.
- Removable floor panels in the cab to access engine, and hystat and implement pumps.
- Extended change intervals for engine and hydraulic/hystat oil.
- Scheduled Oil Sampling Fluids Analysis helps avoid unnecessary downtime. S·O·SSM fluid taps are included to make oil sampling easier.

Easy Component Access. The rear engine design and large engine access doors make it easy to reach the engine, electrical components, hydrostatic system, battery, and toolbox.

Hydraulic and fuel filters are located close to each other. Removable cab floor panels create easy access to internal components.



The hydrostatic drive system features separate pumps and motors for low replacement or rebuild cost. All lubrication points are accessible from ground level.

The swing-out grille, now standard, reduces downtime and the cost for cleaning, inspection, and repair of the cooling package.

Product Link. This option allows the customer or dealer to obtain machine diagnostics and location from their offices. Product Link provides updates on service meter hours, machine condition, machine location, and integrated mapping/route planning.

Total Customer Support

Your Cat Dealer offers a wide range of services that can be set up with a Customer Support Agreement. The dealer can customize a plan for you, from PM service to total machine maintenance, allowing you to optimize your return on investment.



Selection. Make detailed comparisons of the machines you are considering before you buy. How long do components last? What is the cost of preventive maintenance? What is the true cost of lost production? Your Cat Dealer can give you answers to these questions.

Purchase. Consider the financing options available as well as day-to-day operating costs. This is also the time to look at dealer services that can be included in the cost of the machine to yield lower equipment owning and operating costs over the long run.

Operation. Improving operating techniques can boost your profits. Your Cat Dealer has training videotapes, literature, and other ideas to help you increase productivity.

Replacement. Repair, rebuild, or replace? Your Cat Dealer can help evaluate the cost involved so you can make the right choice.

Maintenance. More and more equipment buyers are planning for effective maintenance before buying equipment. Choose from your dealer's wide range of maintenance services at the time of your purchase. Repair option programs guarantee the cost of repairs up front. Diagnostic programs such as Scheduled Oil Sampling and Technical Analysis help avoid unscheduled repairs.

Product Support. Your Cat Dealer offers a wide range of services that can be set up under a Customer Support Agreement (CSA) when you purchase your equipment. The dealer will help you choose a plan that can cover everything from the machine and attachment selection to replacement. This will help you get the best return on your investment.

Remanufactured Components.

Save money with remanufactured parts. You receive the same warranty and reliability as new products at a cost savings of 40 to 70 percent.

Service Capability. Whether in the dealer's fully equipped shop or in the field, you will get trained service technicians using the latest technology and tools.

Engine

Engine Model	Cat 3126B ATAAC	
Net Flywheel Power	95 kW	128 hp
Net Power - Caterpillar	95 kW	128 hp
Net Power - ISO 9249	95 kW	128 hp
Net Power - SAE J1349	95 kW	128 hp
Net Power - EEC 80/1269	95 kW	128 hp
Bore	110 mm	4.33 in
Stroke	127 mm	5 in
Displacement	7.2 L	442 in ³

- Engine ratings at 2000 rpm.
- Meets the U.S. EPA Tier 2, European Union Stage 2 and Japan MOC exhaust emission regulations.
- Net flywheel 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 4573 m (15,000 ft) altitude.

Undercarriage

Track Shoe Type	Double Grouser, Extreme Service	
Track Shoe Width - Standard	500 mm	19.7 in
Track Shoe Width - Optional	380 mm	15 in
Track Rollers - Each Side	6.0	
Number of Shoes - Each Side	37.0	
Track on Ground	2345 mm	92.4 in
Ground Contact Area - Standard Shoe	2.3 m ²	3,565 in ²
Ground Contact Area - Optional Shoe	1.8 m ²	2,790 in ²
Ground Pressure - Standard Shoe	65.8 kPa	9.5 psi
Ground Pressure - Optional Shoe	84.1 kPa	12.2 psi
Grouser Height - Double Grouser	35 mm	1.4 in
Track Gauge	1800 mm	71 in

- Super LGP arrangement available for lower ground pressure applications.
- Ground pressure is calculated using operating weight of machine with GP bucket, teeth and segments.

Drive System

Type	Hydrostatic drive with infinite machine speeds to 9.2 km/h (5.7 mph)	
Drive Pump	Two variable-displacement, slipper-type axial piston pumps	
Track Motor	Two variable-displacement, link-type piston motors	
Relief Valve Setting	44 000 kPa	6,380 psi

Hydraulic System - Equipment

Type	Vane	
Output	120 L/min	31.7 gal/min
Main Relief Valve Setting	24 000 kPa	3,481 psi
Lift Cylinders - Bore	120.65 mm	4.75 in
Lift Cylinders - Stroke	711 mm	28 in
Tilt Cylinders - Bore	139.7 mm	5.5 in
Tilt Cylinders - Stroke	478 mm	18.8 in

Hydraulic System - Pilot

Output - maximum	12 L/min	3.2 gal/min
Relief Valve Setting	2850 kPa	413 psi
Cycle Time - Raise	6.9 Seconds	
Cycle Time - Dump	1.3 Seconds	
Cycle Time - Lower, Empty, Float Down	2.6 Seconds	
Cycle Time - Raise and Dump	5.8 Seconds	

- With simultaneous raise and dump, dump time is included in raise time.

Service Refill Capacities

Fuel Tank	233.5 L	62 gal
Cooling System	26 L	6.9 gal
Crankcase (with Filter)	18 L	4.8 gal
Final Drives (each)	15.5 L	4.1 gal
Hydraulic system (Equipment, Power Train and tank)	110 L	29.1 gal
Hydraulic Tank	67 L	17.7 gal
Pump Drive Box	3.8 L	1 gal
Pivot Shaft	0.8 L	0.2 gal

Electrical System

Type	24V DC
Battery Capacity	750 CCA
Battery Voltage	12
Battery Quantity	2
Alternator	70 Amps, Heavy-Duty Brushless

Weights

Operating Weight	15 145 kg	33,389 lb
Shipping Weight - without Bucket	13 732 kg	30,274 lb

- Operating Weight: Includes coolant, lubricants, 100% fuel tank, ROPS cab, General Purpose Bucket with long bolt-on teeth and segments and 75 kg/165 lb operator.
- Shipping Weight: Includes coolant, lubricants, 10% fuel tank, ROPS cab and no bucket.

Buckets

Capacity - General Purpose	1.85 m ³	2.42 yd ³
Capacity - Multi-Purpose	1.6 m ³	2.09 yd ³
Bucket Width - General Purpose	2380 mm	93.7 in
Bucket Width - Multi-Purpose	2378 mm	93.6 in

- Bucket capacities are with long bolt-on teeth and segments.
- Bucket widths are based on a bare bucket.

Operating Specifications

Max. Travel Speed	9.2 kph	5.7 mph
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Ripper Specifications

Type	Radial	
Number of Pockets	3	
Overall Width/Beam	1952 mm	76.9 in
Shank cross section	50 x 109 mm	2.0 x 4.3 in
Ground Clearance	507 mm	20 in
Penetration	290 mm	11.4 in
Ripping Width	1800 mm	70.9 in
Cylinders - Bore	101.6 mm	4 in
Cylinders - Stroke	270 mm	10.6 in
Addition to Machine Length due to Ripper (in Transportation Position)	247 mm	9.7 in

Standards

- ROPS (Rollover Protective Structure) offered by Caterpillar for the machine meets ROPS criteria SAE J397 OCT95, SAE J1040 MAY94, ISO 3164:1995, ISO 3471:1994.
- FOPS (Falling Object Protective Structure) meets SAE J231 JAN81, ISO 3449:1992 Level II.
- Brakes meet the standard SAE J1026 APR90, ISO 10265:1998.
- The operator sound exposure Leq (equivalent sound pressure level) measured according to the work cycle procedures specified in ANSI/SAE J1166 MAY90 is 82 dB(A), for cab offered by Caterpillar, when properly installed and maintained and tested with the doors and windows closed.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in a noisy environment.
- The exterior sound pressure level for the standard machine measured at a distance of 15 meters (49.2 ft) according to the test procedures specified in SAE J88 APR95, mid-gear-moving operation, is 77 dB(A). *Courtesy of Machine.Market*

Operating Specifications

		General purpose bucket				Multi-purpose bucket		
		Bare	Bolt-on teeth & segments	Bolt-on cutting edge	Flush mounted, weld-on adapters & tips	Bare	Bolt-on teeth & segments	Bolt-on cutting edge
Rated bucket capacity † (Nominal heaped)	m³	1.75	1.85	1.85	1.85	1.50	1.60	1.60
	yd³	2.29	2.42	2.42	2.42	1.96	2.09	2.09
Struck capacity †	m³	1.45	1.55	1.55	1.45	1.25	1.35	1.35
	yd³	1.90	2.03	2.03	1.90	1.63	1.77	1.77
Bucket width – overall	mm	2380	2432	2397	2438	2378	2430	2395
	in	93.7	95.7	94.4	96.0	93.6	95.7	94.3
Bucket weight	kg	951	1175	1101	1052	1413	1637	1563
	lb	2097	2590	2427	2370	3115	3609	3446
Dump clearance at full lift and 45° discharge †	mm	2903	2749	2857	2748	2728	2556	2677
	in	114.3	108.2	112.5	108.2	107.4	100.6	105.4
Reach at 45° discharge angle and 2133 mm (84 in) clearance †	mm	1518	1607	1529	1633	1404	—	—
	in	59.8	63.3	60.2	64.3	55.3	—	—
Reach at full lift and 45° discharge	mm	974	1162	1030	1165	949	1121	1000
	in	38.3	45.7	40.6	45.9	37.4	44.1	39.4
Digging depth †	mm	96	131	121	96	147	181	171
	in	3.78	5.16	4.76	3.78	5.79	7.13	6.73
Maximum rollback at ground	Deg	41°	41°	41°	41°	42°	42°	42°
Maximum rollback at carry position	Deg	48°	48°	48°	48°	50°	50°	50°
Bucket height in carry position	mm	422	422	422	422	—	—	—
	in	16.61	16.61	16.61	16.61	—	—	—
Overall machine length Bucket level on ground	mm	5879	6122	5951	6125	6036	6279	6108
	in	231.5	241.0	234.3	241.1	237.6	247.2	240.5
Overall machine height with bucket at full raise	mm	4871	4871	4871	4871	4862	4862	4862
	in	191.8	191.8	191.8	191.8	191.4	191.4	191.4
Static tipping load	kg	10 689	10 395	10 492	10 556	10 265	9956	10 097
	lb	23,565	22,917	23,131	23,272	22,630	21,949	22,260
Breakout force – with tilt cylinders Bucket level at ground	kN	136.3	122.7	123.5	138.1	107.1	97.4	97.9
	lb	30,641	27,584	27,764	31,046	24,077	21,896	22,009
Operating weight*	kg	14 921	15 145	15 071	15 022	15 463	15 687	15 613
	lb	32,895	33,389	33,226	33,118	34,090	34,584	34,421

* Includes coolant, lubricants, full fuel tank, ROPS cab, bucket and 75 kg/165 lb operator.

† Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers. SAE Standard J732 JUN92 and SAE Standard J742 FEB85 govern loader ratings.

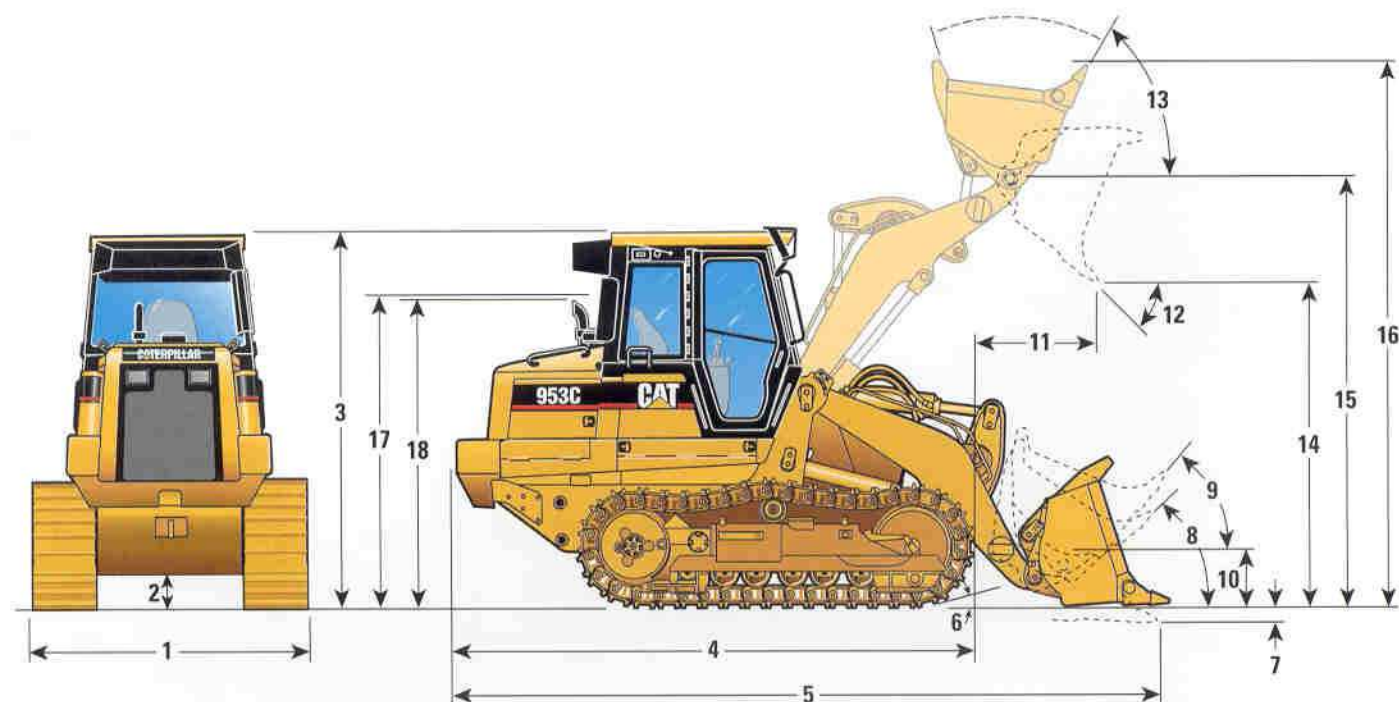
	Change In Operating Weight	Change In Static Tipping Load
ROPS canopy only (cab removed)	-350 kg -551 lb	-332 kg -732 lb
Ripper with 3 shanks (bumper removed)	+376 kg +829 lb	+655 kg +1444 lb
Rear bumper (removal)	-207 kg -456 lb	-423 kg -932 lb

NOTE: Machine stability can be affected by the addition of other attachments. Add or subtract to/from machine operating weight and static tipping load.

Courtesy of Machine.Market

Dimensions

All dimensions are subject to change without notice.



1	Overall machine width without bucket:	
	with standard tracks – 500 mm (19.7 in shoes)	2300 mm (90.5 in)
	with narrow tracks – 380 mm (14.9 in shoes)	2060 mm (81.1 in)
2	Ground clearance from face of shoe	400 mm (15.7 in)
	Grading angle	74°
3	Machine height to top of cab	3150 mm (124 in)
4	Length to front of track	4350 mm (171.3 in)
5	Overall machine length	◆
6	Carry position approach angle	15°
7	Digging depth	◆
8	Maximum rollback at ground	◆
9	Maximum rollback at carry position	◆
10	Bucket height in carry position	◆
11	Reach at full lift height	◆
12	S.A.E. specified dump angle	45° (56° max.)
13	Maximum rollback, fully raised	56°
14	Dump clearance at full lift height and 45° discharge	◆
15	Height to bucket hinge pin	3585 mm (141.1 in)
16	Overall machine height, bucket fully raised	◆
17	Height to top of seat with headrest	2614 mm (102.9 in)
18	Height to top of stack	2654 mm (104.5 in)

◆ Dimensions vary with bucket. Refer to Operating Specifications chart.

Courtesy of Machine.Market

Standard Equipment

Standard equipment may vary. Consult your Caterpillar dealer for details.

ELECTRICAL

- Alarm, back-up
- Alternator (24-volt, 70-amp)
- Batteries, 750 CCA, high-output, maintenance free
- Electronic Hydrostatic Control (EHC)
- Electronic Monitoring System (EMS III)
- Lights (2), ROPS mounted, forward facing (halogen)
- Power outlet, 12-volt
- Starting motor, 24-volt electric

POWER TRAIN

- Air inlet heater
- Blower fan
- Engine, Cat 3126B HEUI diesel with ATAAC turbocharged, with ADEM III Controller
- Filters, air (radial seal)
- Fuel priming pump, manual
- Pedal steering
- Pre-cleaner, air intake
- Radiator guard, HD, perforated

UNDERCARRIAGE

- Sprocket guards
- Sprocket rims, segmented
- Track, sealed and lubricated (37 section) with 190 mm (7.5 in) pitch
- Track adjuster, hydraulic
- Track guiding guards, end section
- Track idlers, lifetime lubricated
- Track rollers (6), one upper carrier roller lifetime lubricated
- Track shoes, 500 mm (19.7 in), double grouser, extreme service

OTHER STANDARD EQUIPMENT

- Bucket positioner, automatic
- Bumper, rear
- Coolant, extended life
- Cooler, hydraulic oil
- Crankcase guard, full
- Hitch, front retrieval
- Engine enclosure, lockable doors
- Lift kickout, automatic
- O-ring face seal couplings
- Radiator grille, swing-out
- S•O•S valves
- Vandalism protection - fuel tank cap with padlock, three padlocks for front service doors and radiator cap access door
- XT Hoses

OPERATOR ENVIRONMENT

- Air conditioner
- Armrests, adjustable
- Ashtray, lighter (24-volt)
- Cab, pressurized and sound suppressed tinted glass, (ROPS/FOPS)
- Coat hook
- Control, single lever, pilot operated for implement hydraulics
- Cup Holder
- Heater and defroster
- Horn
- Instrumentation, gauges
 - Engine coolant temperature
 - Fuel level
 - Hydraulic oil temperature
 - Pump drive gear box oil temperature
- Instrumentation, warning indicators
 - Air inlet temperature
 - Case drain filter bypass
 - Charge filter bypass
 - Charge oil pressure
 - Check engine
 - Electrical charging (too high/too low)
 - Engine oil pressure
 - Fuel pressure
 - Hydrostatic drive system
 - Pump drive (splitter box) oil temperature
- Key start
- Mirror, review (internal)
- Parking brake switch, Brake-on indicator light
- Radio ready, 24-volt to 12-volt converter, speakers, antenna, mounting bracket
- Seat, (cloth) air-suspension with side-to-side isolator
- Seat belt, retractable
- Sound Suppression, Spectator
- Speed mode switch, (Work-Travel)
- Storage compartments under armrests (lockable on right armrest)
- Wipers/washers (front and rear)
 - Intermittent front wiper

Optional Equipment

With approximate changes in operating weights.

Optional equipment may vary. Consult your Caterpillar Dealer for specifics.

	kg	lb
Antifreeze (for temperatures below -37° C/ -34° F down to -50° C/-58° F)	0	0
Anti-theft, Machine Security System (MSS)	4	8.8
Buckets:		
General purpose 1.75 m ³ (2.25 yd ³)	951	2097
General purpose with flush-mounted adapters 1.75 m ³ (2.25 yd ³)	1052	2320
Multi-purpose 1.5 m ³ (2.0 yd ³)	1413	3115
Bucket cutting edge, reversible, with end bits, sharpened, bolt-on For GP and MP buckets	150	331
Bucket bolt-on adapters and tips For GP or MP bucket, set of 8 Includes corner adapters		
Long	143	315
Short	141	311
Bucket edge segments, bolt-on For GP or MP bucket	82	180
Bucket tips for use with flush adapters (on GP bucket), set of 8		
Long	35	77
Short	33	73
Bucket bolt-on unitooth, set of 8 Includes 2 corner teeth	119	262
Bumper (removal)	-207	-456
Canopy, ROPS (cab removed), includes rearview mirror, 2 forward facing lights, heater, vinyl seat and vandalism protection consisting of cab vandalism package plus instrument panel guard group with padlock	-350	-772

	kg	lb
Controls (for equipment hydraulic system)		
Two-lever control	0	0
3rd valve for use with lines for front or rear attachments	46.5	103
Diverter valve for use when both front and rear lines are required	87.5	193
Counterweights – 3 arrangements		
Light	170	375
Heavy	375	827
Drawbar hitch	18	40
Fuel priming pump, electric	2	4.4
Guards:		
Cab/canopy lights	11	24
Heavy-duty bottom guards	51.7	114
Idler	78	172
Seal protection – final drive, pivot shaft, and idler seals	10	22
Track roller	110	243
Lighting system (halogen) Four lights, 2 forward with guards, 2 rear	13	28
Product link	4	8.8
Ripper/scarifier – with three ripper shanks (bumper removed)	312	688
Starting aids		
Batteries, Cat premium, heavy-duty (900 CCA)	4	9
Engine coolant heater, 120- or 220-volt	0.5	1
Track shoes:		
380 mm (15 in), single bar grouser	-290	-639
510 mm (20.1 in), single bar grouser	-166	-366

NOTE: All weights were originally measured in kilograms. Pounds were converted from kilograms and rounded off.

Courtesy of MachineMarket