

## 953 Track Loader

## **Technical Specifications**

Configurations and features may vary by region. Please consult your Cat® dealer for availability in your area.

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## **953 Track Loader Specifications**

Engine		
Engine	Cat® C7.1	
Emissions	U.S. EPA T EU Stage V Korea Tier	//Japan 2014/
Build Number	12A	
Net Power (1,800 rpm)		
ISO 9249/SAE J1349	119 kW	160 hp
ISO 9249/SAE J1349 (DIN)	162 mhp	
Engine Power (1,800 rpm)		
ISO 14396	129 kW	173 hp
ISO 14396 (DIN)	175 mhp	
Bore	105 mm	4.1 in
Stroke	135 mm	5.3 in
Displacement	7.01 L	427.8 in <sup>3</sup>

- Net power advertised is the power available at the engine flywheel
  when the engine is equipped with a fan, air cleaner, clean emissions
  module and alternator.
- Advertised power is tested per the specified standard in effect at the time of manufacture.
- Inline six-cylinder diesel engine with single turbo, charged with ATAAC and engine mounted aftertreatment.
- No derating required up to 3000 m (9,842 ft) altitude.
- All non-road Tier 4 Interim and Final, Stage IIIB, IV and V, Japan 2014 (Tier 4 Final) and Korea Tier 4 Final diesel engines are required to use only Ultra Low Sulfur Diesel (ULSD) fuels containing 15 ppm EPA/10 ppm EU (mg/kg) sulfur or less. Biodiesel blends up to B20 (20% blend by volume) are acceptable when blended with 15 ppm (mg/kg) sulfur or less ULSD. B20 should meet ASTM D7467 specification (biodiesel blend stock should meet Cat® biodiesel spec, ASTM D6751 or EN 14214). Cat DEO-ULS™ or oils that meet the Cat ECF-3, API CJ-4, API CK-4 and/or ACEA E9 specification are required. Consult your OMM for further machine specific fuel recommendations.
- Diesel Exhaust Fluid (DEF) used in Cat Selective Catalytic Reduction (SCR) systems must meet the requirements outlined in the International Organization for Standardization (ISO) standard 22241.

#### **Air Conditioning**

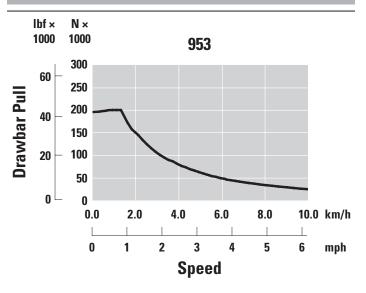
The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.1 kg of refrigerant which has a  $CO_2$  equivalent of 1.573 metric tons.

Description	Electronically controlled	
	Hydrostatic drive with two variable displacement	
	bent axis motors and two variable displacement slipper-type axial piston pumps	
Travel Speed	Infinite variable speed from 0 to 10 km/h (0 to 6.2 mph)	
Relief Valve Setting	47 500 kPa 6,890 psi	

Implement System		
Description	Load sensing displacement	*
Maximum Continuous Flow (1,800 rpm)	155 L/min	41 gal/min
Maximum Pressure	28 000 kPa	4,061 psi
Filter System	Implement re	turn filter

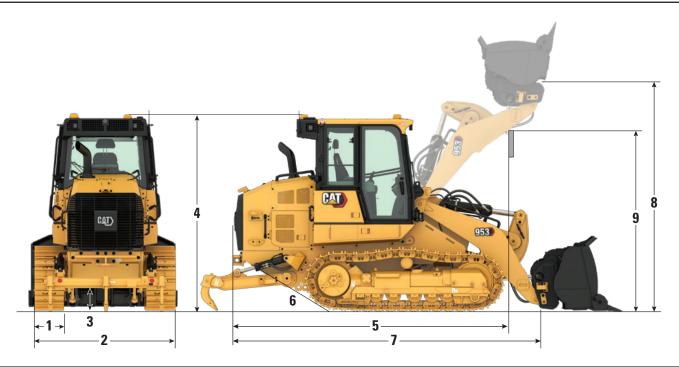
Service Refill Capacities		
Fuel Tank	265 L	70 gal
DEF Tank	16 L	4.2 gal
Cooling System	32 L	8.5 gal
Crankcase (with filter)	16.5 L	4.5 gal
Final Drives (each)	10.8 L	2.8 gal
Hydraulic Tank	70 L	18.5 gal
Pivot Shaft	0.7 L	0.18 gal

#### **Drawbar Pull**



## **953 Track Loader Specifications**

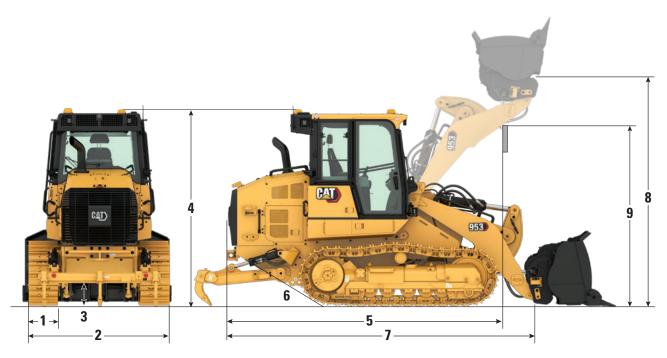
### **Weights and Dimensions**



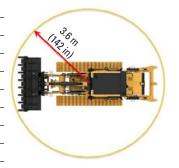
	Stand	lard	Low Ground P	ressure (LGP)
Operating Weight <sup>1</sup>	15 958 kg	35,181 lb	17 261 kg	38,055 lb
Shipping Weight	13 317 kg	29,359 lb	14 473 kg	31,907 lb
1 Track Shoe Width:				
Standard <sup>2</sup>	480 mm	19 in		_
LGP	_	_	800 mm	31.5 in
Narrow <sup>2</sup>	380 mm	15 in	_	_
Track Rollers – Each Side	(	5	(	5
Number of Shoes – Each Side	3	7	3	7
Track Gauge	1836 mm	72.3 in	2136 mm	84.1 in
Track on Ground	2286 mm	90.0 in	2286 mm	90.0 in
Ground Contact Area – Standard Shoe	2.4 m <sup>2</sup>	3,720 in <sup>2</sup>	3.9 m <sup>2</sup>	6,045 in <sup>2</sup>
Ground Contact Area – Optional Shoe	1.9 m <sup>2</sup>	2,945 in <sup>2</sup>	_	_
Ground Pressure:				
Standard Shoes	66 kPa	10 psi	_	_
LGP Shoes	_	_	43 kPa	6 psi
Narrow Shoes	83 kPa	12 psi	_	_

<sup>&</sup>lt;sup>1</sup>Operating weight: machine with construction package, general purpose bucket with teeth and segments, lubricants, 100% fuel tank and 75 kg (165 lb) operator. <sup>2</sup>Single or double grouser, with or without center holes.

## Weights and Dimensions (continued)



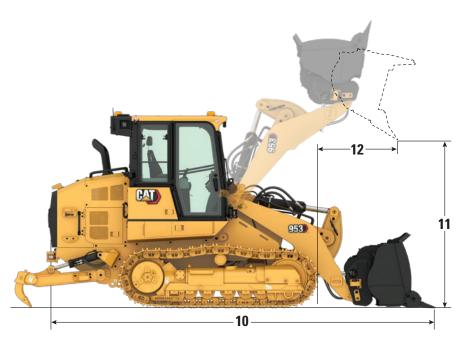
2 Overall Machine Width (without bucket):		
Standard Tracks – 480 mm (20 in) Shoes	2316 mm	91.2 in
Narrow Tracks – 380 mm (15 in) Shoes	2216 mm	87.2 in
LGP Tracks – 800 mm (31.5 in) Shoes	2936 mm	115.6 in
3 Ground Clearance	413 mm	16.3 in
4 Machine Height to Top of Cab	3156 mm	124.2 in
5 Machine Length to Front of Tracks (including rear bumper)	4520 mm	177.9 in
with Ripper, Add	421 mm	16.6 in
6 Ramp Angle	29	0
7 Overall Shipping Length (without bucket)	5122 mm	201.6 in
8 Hinge Pin Height at Maximum Lift	3608 mm	142.1 in
9 Lift Arm Clearance at Maximum Lift	3003 mm	118.3 in
Turning Radius	3.6 m	141.7 in



Bucket and attachment offerings may vary. Please consult your Cat dealer for availability.

## **953 Track Loader Specifications**

#### **Buckets**



#### The Right Tool for the Job

All buckets can be used for digging, stump removal, loading, carrying, leveling, etc. Some buckets are more specialized:

Performance Buckets – optimized for loading and carrying

Multi-Purpose (MP) – grabbing material and grading with the clamp open

Flat Floor Buckets – Leveling, loose material handling

For maximum versatility, the Fusion™ coupler is compatible with a range of buckets, forks, rakes, material handling arm and more. Consult with your Cat dealer for compatibility.

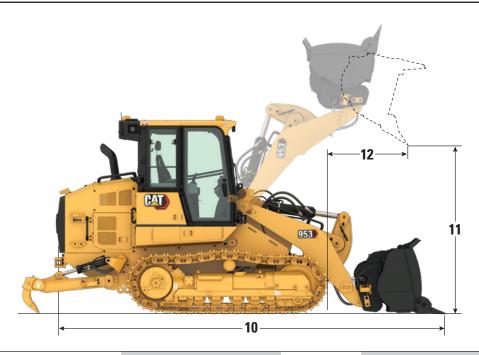
Fusion™ Quick Coupler Buckets	Fusion	Buckets
Cutting Edge Type	Long Teeth & Segments	
Bucket Weight	1490 kg	3,285 lb
Bucket Width	2536 mm	99.8 in
Rated Capacity at 100% Fill Factor <sup>1</sup>	1.8 m³	2.4 yd³
Rated Operating Capacity <sup>2</sup>	3634 kg	8,012 lb
Static Tipping Load <sup>3</sup>	10 383 kg	22,890 lb
10 Overall Machine Length (bucket on the ground)	6469 mm	254.7 in
11 Dump Clearance at Maximum Lift and 45° Discharge	2858 mm	112.5 in
12 Reach at Maximum Lift and 45° Discharge	1234 mm	48.6 in
Breakout Force	120 671 N	27,128 lbf

<sup>&</sup>lt;sup>1</sup>Volumetric bucket capacity as per ISO 7546:1983.

Rated Operating Capacity should be considered with 35% Static Tipping Load as required by ISO 14397-1:2007.

<sup>&</sup>lt;sup>3</sup>Machine equipped with standard and additional counterweights.

#### **Buckets** (continued)



Pin-On Buckets	General Purp	ose Buckets*	Performance Bucket**	Flat Floor	Buckets*	Multi-Purpose Bucket**
Cutting Edge Type	Long Teeth & Segments	Bolt-On Full Edge	Long Teeth & Segments	Welded Flush Adapters, Long Teeth	Wide – Welded Flush Adapters, Long Teeth	Long Teeth & Segments
Bucket Weight	1216 kg	1100 kg	1419 kg	1100 kg	1383 kg	1809 kg
	(2,681 lb)	(2,425 lb)	(3,128 lb)	(2,425 lb)	(3,048 lb)	(3,987 lb)
Bucket Width	2485 mm	2483 mm	2551 mm	2446 mm	3009 mm	2485 mm
	(97.8 in)	(97.8 in)	(100.4 in)	(96.3 in)	(118.5 in)	(97.8 in)
Rated Capacity at 100% Fill Factor <sup>1</sup>	1.8 m <sup>3</sup> (2.4 yd <sup>3</sup> )	1.8 m <sup>3</sup> (2.4 yd <sup>3</sup> )	2.1 m <sup>3</sup> (2.7 yd <sup>3</sup> )	1.8 m <sup>3</sup> (2.3 yd <sup>3</sup> )	2.2 m <sup>3</sup> (2.9 yd <sup>3</sup> )	1.6 m <sup>3</sup> (2.1 yd <sup>3</sup> )
Rated Capacity at 110% Fill Factor			2.3 m <sup>3</sup> (3.0 yd <sup>3</sup> )			
Rated Operating Capacity <sup>2</sup>	3692 kg	3737 kg	3871 kg	3987 kg	4115 kg	2828 kg
	(8,139 lb)	(8,238 lb)	(8,533 lb)	(8,789 lb)	(9,071 lb)	(6,234 lb)
Static Tipping Load	10 548 kg	10 676 kg	11 059 kg	11 391 kg	11 756 kg	8080 kg
	(23,255 lb)	(23,536 lb)	(24,380 lb)	(25,112 lb)	(25,917 lb)	(17,812 lb)
10 Overall Machine Length (bucket on the ground)	6378 mm	6176 mm	6474 mm	6365 mm	6396 mm	6512 mm
	(251.1 in)	(243.2 in)	(254.9 in)	(250.6 in)	(251.8 in)	(256.4 in)
11 Dump Clearance at Maximum Lift and 45° Discharge	2838 mm	2838 mm	2775 mm	2914 mm	2875 mm	2853 mm
	(111.7 in)	(111.7 in)	(109.3 in)	(114.7 in)	(113.2 in)	(112.3 in)
12 Reach at Maximum Lift and 45° Discharge	1053 mm	1053 mm	1115 mm	1000 mm	1036 mm	1248 mm
	(41.4 in)	(41.4 in)	(43.9 in)	(39.4 in)	(40.8 in)	(49.1 in)
Breakout Force	141 669 N	142 755 N	126 732 N	159 216 N	147 446 N	121 694 N
	(31,849 lbf)	(32,093 lbf)	(28,491 lbf)	(35,793 lbf)	(33,147 lbf)	(27,358 lbf)

 $<sup>{\</sup>bf *Machine\ equipped\ with\ no\ counterweight}.$ 

<sup>\*\*</sup>Machine equipped with standard and additional counterweights.

<sup>&</sup>lt;sup>1</sup>Volumetric bucket capacity as per ISO 7546:1983.

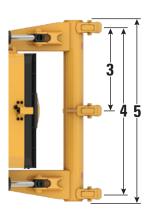
<sup>&</sup>lt;sup>2</sup>Rated Operating Capacity should be considered with 35% Static Tipping Load as required by ISO 14397-1:2007.

## **953 Track Loader Specifications**

Grousers	Features
Double	Narrow
Double	_
Double	Center Hole
Double	Low Ground Pressure
Double	_
	Double Double Double Double

1
<b>↓2</b>

Kipper		
Type	Radi	al
Weight	592 kg	1,306 lb
1 Maximum Clearance Raised (shank tip)	745 mm	29.3 in
2 Maximum Penetration	253 mm	9.9 in
3 Pocket Spacing	900 mm	35.4 in
4 Shank Gauge	1800 mm	70.9 in
5 Overall Ripping Width	1955 mm	77 in
Beam Cross Section	203.5 mm × 165 mm	8.0 in × 6.5 in
Maximum Penetration Force	148 kN	33,212 lbf
Maximum Pry Out Force	86 kN	19,363 lbf



Note: Rippers from the 953K model are compatible with the 953.

#### **Standards**

#### **ROPS/FOPS**

- ROPS (Rollover Protective Structure) offered by Caterpillar for the machine meets ROPS criteria ISO 3471:2008.
- FOPS (Falling Object Protective Structure) meets ISO 3449:2005 Level II.

#### **Brakes**

• Brakes meet the standard ISO 10265:2008.

#### **Sound and Vibration Information**

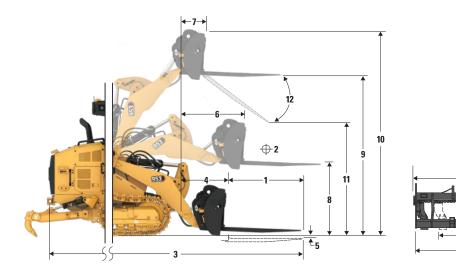
• The declared dynamic operator sound pressure level when "ISO 6396:2008" is used to measure the value for an enclosed cab. The measurements were conducted at 70% of the maximum engine cooling fan speed. The sound level may vary at different engine cooling fan speeds. The cab was properly installed and maintained. The measurements were conducted with the cab doors and the cab windows closed. NOTE: The dynamic operator sound pressure level uncertainty is  $\pm 2 \, \mathrm{dB}(A)$ .

#### 953 - 74 dB(A)

- Hearing protection may be needed when the machine is operated with an open operator station for extended periods, in a noisy environment
  or with a cab that is not properly maintained.
- Sound Level Information for Machines in European Union Countries and in Countries that Adopt the "EU Directives": If equipped, the certification label is used to verify the environmental sound certification of the machine to the requirements of the European Union. The value that is listed on the label indicates the guaranteed exterior sound power level (LWA) at the time of manufacture for the conditions that are specified in "2000/14/EC."

#### 953 - 109 dB(A)

#### **Operating Specifications with Pallet Forks**



953 Track Loader*	48-in	Tines	60-in	Tines	<b>72</b> -in	Tines	84-in	Tines	96-in	Tines
	mm	in	mm	in	mm	in	mm	in	mm	in
1 Tine Length	1219	48.0	1524	60.0	1829	72.0	2134	84.0	2438	96.0
2 Load Center	609	24.0	762	30.0	914	36.0	1067	42.0	1219	48.0
3 Maximum Overall Length	6951	274.0	7256	286.0	7561	298.0	7866	3,107	8170	3,227
4 Reach with Forks at Ground Level	1213	48.0	1213	48.0	1213	48.0	1213	48.0	1213	48.0
5 Dig Depth	-50	-2	-50	-2	-50	-2	-50	-2	-50	-2
6 Reach with Arms Horizontal and Fork Level	1713	67.0	1713	67.0	1713	67.0	1713	67.0	1713	67.0
7 Reach with Fork at Maximum Height	930	37.0	930	37.0	930	37.0	930	37.0	930	37.0
<b>8</b> Ground to Top of Tine with Arms Horizontal and Fork Level	1619	64.0	1619	64.0	1619	64.0	1619	64.0	1619	64.0
<b>9</b> Ground to Top of Tine at Maximum Height and Fork Level	3472	137.0	3472	137.0	3472	137.0	3472	137.0	3472	137.0
10 Overall Height of Fork at Full Lift (top of carriage to ground)	4513	178.0	4513	178.0	4513	178.0	4513	178.0	4513	178.0
11 Clearance at Full Lift and Maximum Dump	2107	83.0	1853	73.0	1598	63.0	1344	53.0	1090	43.0
12 Maximum Discharge Angle from Horizontal	=	57°	-	57°	-:	57°	-	57°	-:	57°
13 Overall Carriage Width	2528	100.0	2528	100.0	2528	100.0	2528	100.0	2528	100.0
14 Overall Carriage Height	1130	45.0	1130	45.0	1130	45.0	1130	45.0	1130	45.0
<b>15</b> Outside Tine Width (maximum spread)	2178	86.0	2178	86.0	2178	86.0	2178	86.0	2178	86.0
<b>16</b> Outside Tine Width (minimum spread)	576	23.0	576	23.0	576	23.0	576	23.0	576	23.0
Tine Width (single tine)	180	7.0	180	7.0	180	7.0	180	7.0	180	7.0
Tine Thickness	90	4.0	90	4.0	90	4.0	90	4.0	90	4.0
	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb
Tine Load Capacity (Per Pair)	22 200	48,943	17 800	39,242	14 800	32,628	12 700	27,999	11 300	24,912
Static Tipping Load Arm Horizontal and Fork Level	9011	19,867	8501	18,741	8017	17,675	7573	16,695	7204	15,883
Static Lifting Capacity Arm Horizontal and Fork Level	11 748	25,900	11 627	25,632	10 867	23,959	9692	21,366	8738	19,264
Rated Load (SAE J1197)**	2285	5,037	2142	4,723	2011	4,434	1889	4,165	1780	3,924

<sup>\*</sup>Construction configuration with 450 mm (22 in) HDXL tracks, standard counterweight (320 kg/705 lb) and additional counterweight (310 kg/683 lb).

<sup>\*\*</sup>For crawler loaders, 35% of the tipping load or 100% of the lifting capacity, whichever is less. (SAE J1197:2011, EN-474-3:2010, ISO 14397-1:2007).

## **953 Standard and Optional Equipment**

#### **Standard and Optional Equipment**

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional
POWER TRAIN		
Cat C7.1 diesel engine, turbocharged with Air-To-Air After Cooler (ATAAC)	✓	
Engine-mounted aftertreatment to meet U.S. EPA Tier 4 Final, EU Stage V, Japan 2014, Korea Tier 4 Final emission standards	✓	
Modular cooling system for engine air intake, oil and water	✓	
Hydraulic demand fan – electronically controlled, temperature sensing	✓	
Hydraulic fan, non-reversing	✓	_
Hydraulic fan, reversing		✓
Electro Hydrostatic Control (EHC) for transmission	✓	
Engine idle shutdown	✓	_
Auto engine speed control	✓	
Electric fuel pump	✓	
Water separator	✓	
Glow plug starting aid	✓	
Engine air cleaner		✓
Engine air precleaner		✓
UNDERCARRIAGE		
HDXL undercarriage and tracks (37 sections), 1836 mm (72.3 in) track gauge	✓	
Cat Abrasion™ undercarriage		✓
Oscillating track roller frames	✓	
Track guiding guards, end section	✓	
Hydraulic track adjuster	✓	
Sprocket rims with replaceable bolt-on tough steel segments	✓	
Sprocket guards	✓	
Six track rollers per side, with one carrier roller, lifetime lubricated	✓	
Idlers, conventional type, lifetime lubricated	<b>√</b>	

Tot dotalio.		
	Standard	Optional
ELECTRICAL		
Ground Level Service Center	✓	
24 volt heavy-duty alternator	✓	
Backup alarm	✓	
Two horns	✓	
Two heavy-duty batteries, high output, maintenance free, 900 CCA	✓	
Main disconnect switch	✓	
Electric starter (heavy-duty, 24 volt)	✓	
Extra lighting – two additional LED lights at the bottom of cab facing forward plus 1 underhood light		✓
LED flashing beacon		✓
OPERATOR ENVIRONMENT		
Pressurized, sound suppressed, ROPS/ FOPS Cab with tinted glass and right side sliding window	✓	
Cab package with one sliding side window and four halogen lights: two facing forward, roof mounted, two facing rearward, integrated in the air conditioner unit		✓
Deluxe cab package with two sliding side windows and eight LED lights: four roof-mounted facing forward, two facing rearward and two facing side integrated in the air conditioner unit		✓
Deluxe high back seat – heated, with adjustable shock control		✓
Premium Plus high back seat – heated and cooled, lockable side-side isolator		✓
Adjustable armrests	✓	
Electro-Hydraulic, seat mounted control levers with faster processing	✓	
V-pattern and pedal steering controls		✓
Joystick steering controls		✓
Joystick implement control		✓
Two-lever implement control		✓
Seat belt, retractable, with buckling indicator on dash	✓	
Four-point restraint ready seat	✓	
Air conditioning and heating	✓	
Heater/defroster with automatic temperature control and automatic blower control	✓	
Cab air powered precleaner		✓
Rearview mirror, inside, adjustable	✓	

## **953 Standard and Optional Equipment**

#### Standard and Optional Equipment (continued)

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional
PERATOR ENVIRONMENT (continued)		
24 V radio ready. Includes speakers, antenna and 12 V power outlet and 5 V USB port	✓	
Radio – FM Ready Kit		✓
Radio – Bluetooth® & Aux & Mic		✓
Radio – Bluetooth & Aux & Mic – Dab+		✓
Radio – Bluetooth & Aux & Mic – Sirius		✓
Parking brake switch and "brake-on" indicator light	✓	
Implement lock-out switch	✓	
High Definition rearview camera	✓	
254 mm (10 in) color touchscreen display with integrated rear camera display and machine slope indicator	✓	
Three selectable working modes (Auto, Power, Eco)	✓	
Operator programmable lift and tilt kickouts	✓	
Machine Pitch and Roll indicate	✓	
Bucket shake	✓	
Remote services (Troubleshoot/Remote Flash)		✓
Heavy-duty rubber floor mat	✓	
Windshield washers and wipers, multiple speed, front and rear	✓	
Durable metal roof	✓	
Coat hook	✓	
Storage compartments under left armrest	✓	
Document holder on right console	✓	

	Standard	Optional
THER STANDARD EQUIPMENT		
Durable metal fender	✓	
Exterior sound suppression	✓	
Load sensing implement pump with variable displacement	✓	
Z-bar loader linkage	✓	
Implement cylinders with sensors	✓	
Engine enclosure with lockable doors	✓	
Debris resistant radiator core (six fins-per-inch)	✓	
Hinged radiator guard and swing out fan	✓	
4 × 2 easy tie-down points on chassis	✓	
EATURE PACKAGES		
Construction Package with HDXL undercarriage		✓
Construction Package with Cat Abrasion undercarriage		✓
Low Ground Pressure (LGP) Arrangement		✓
Heavy Duty Waste Package		✓
Heavy Duty Enhanced Cleaning Waste Package		✓
Ship Hold Package		✓
Partial Steel Mill Package		✓
GUARDING		
Full bottom guards	✓	
Idler guard (none)		✓
Idler guard		✓
Idler guard – ship hold		✓
Front light guard		✓
Windshield guard		✓
Track roller guard		✓

## **953 Standard and Optional Equipment**

#### Standard and Optional Equipment (continued)

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional
BUCKETS*		
General purpose – 1.8 m³ (2.4 yd³)		✓
General purpose with welded flush adapter – 1.7 m³ (2.2 yd³)		✓
Heavy-duty general purpose – 1.8 m³ (2.4 yd³)		✓
Multi-purpose – 1.6 m <sup>3</sup> (2.1 yd <sup>3</sup> )		✓
Heavy-duty multi-purpose Landfill – 2.1 m³ (2.7 yd³)		✓
General purpose with full bolted cutting edge – 1.8 m <sup>3</sup> (2.4 yd <sup>3</sup> )		✓
Performance general purpose – 2.1 m³ (2.7 yd³)		✓
Wide flush general purpose – 2.2 m³ (2.9 yd³)		✓
Quick coupler, general purpose – 1.8 m³ (2.4 yd³)		✓
Heavy-duty landfill bucket – 2.3 m³ (3.0 yd³)		✓
Slag Bucket – 1.6 m³ (2.1 yd³)		✓
HYDRAULICS		
Two-valve hydraulics, two-lever		✓
Two-valve hydraulics, joystick		✓
Three-valve hydraulics, front, joystick		✓
Three-valve hydraulics, rear, joystick		✓
Three-valve hydraulics, rear, two-lever		✓
Four-valve hydraulics, front and rear, joystick		✓
Standard hydraulic lines		✓
Quick coupler hydraulic lines		✓

<sup>\*</sup>Buckets and other work tool attachments from the 953K model, and select buckets and work tool attachments from the 953D model, are compatible with the 953. Bucket and attachment offerings may vary. Please consult your Cat dealer for compatibility information and availability.

	Standard	Optional
MAINTENANCE		
Standard lubricant		✓
Bio lubricant		✓
Ecosafe lubricant (steel mill)		✓
Cat extended life coolant	✓	
Service package		✓
Extended service package – manual hydraulic system enabling cab tilt and lock at 30 degrees safely in the field, shovel holder bracket (shovel not included)		✓
High speed oil change		✓
Ecology drains on hydraulic oil tank	✓	
Oil sampling valves	✓	
Cat XT <sup>TM</sup> hoses	✓	
HYDO™ Advanced 10	✓	
Implement oil return filter in hydraulic tank	✓	
REAR ATTACHMENTS		
Bumper		✓
Ripper		✓
No bumper		✓
Ripper hitch		✓
Striker bars		✓
FUEL TANK		
Fuel tank	✓	
Fast Fill fuel tank		✓
Fuel tank refilling pump		✓
Sediment hand pump		✓
OTHER EQUIPMENT		
Access package		✓
Jacket water heater (110 V) and ether starting aid		✓
Jacket water heater (240 V) and ether starting aid		✓
Fusion Quick Coupler		✓
TECHNOLOGY PRODUCTS		
Product Link™ Ready	✓	
Product Link – Satellite		✓
Product Link – Dual Satellite and Cellular		✓
No Product Link		✓
Grade Control mast		✓
COUNTERWEIGHTS		
Light counterweight 240 kg (529 lb)		✓
Light counterweight, additional 200 kg (440 lb)		✓

## 953 Track Loader Waste Handler

A Waste Handler can take on a variety of tasks in a landfill or transfer station. Use it for pushing, shredding and pre-compacting waste. For added versatility, track loaders are also ideal for creating and maintaining access, digging cells and digging/carrying/spreading cover material.

#### **Top Performer**

- 953 uses up to 10% less fuel per hour than the previous model.
- Smoother implement and steering response, and improved steering performance provide more controllability.
- Updated cab offers more comfort and an intuitive 10-inch (254 mm) touchscreen dash display.
- Standard High Definition rearview camera shows prominently in the main display.
- Excellent visibility to the bucket and all around the machine enhances safety and helps operators work more confidently.

#### **Heavy Duty Waste Handler**

- Specialized guarding and seals help protect the machine and components from impact and airborne debris.
- Final Drive guarding helps prevent wrapping and damage.
- High debris cooling system with reversing demand fan radiator fan folds out for easy cleanout access.
- Specialized air handling features help deliver cleaner air to the machine.
- Choice of buckets and track shoes allow you to further optimize the machine for greater performance and service life.

#### **Heavy Duty Enhanced Cleaning Waste Handler**

- Helps reduce your clean-out time while adding ground pressure for more compaction.
- Wide gauge undercarriage equipped with a standard track width allows more space for debris to pass between the track roller frame, tracks and chassis.
- With less debris build-up, you spend less time cleaning.
- Helps reduce damage caused by debris carried on the tracks.
- Heavier waste configuration combined with narrower track shoes increases ground pressure for greater compaction.

Engine		
Engine	Cat C7.1	
Emissions	0.0.2111	Tier 4 Final/ V/Japan 2014/ 4 Final
Build Number	12A	
Net Power (1,800 rpm)		
ISO 9249/SAE J1349	119 kW	160 hp
ISO 9249/SAE J1349 (DIN)	162 mhp	
Engine Power (1,800 rpm)		
ISO 14396	129 kW	173 hp
ISO 14396 (DIN)	175 mhp	
Bore	105 mm	4.1 in
Stroke	135 mm	5.3 in
Displacement	7.01 L	427.8 in <sup>3</sup>

- Net power advertised is the power available at the engine flywheel
  when the engine is equipped with a fan, air cleaner, clean emissions
  module and alternator.
- Advertised power is tested per the specified standard in effect at the time of manufacture.
- Inline six-cylinder diesel engine with single turbo, charged with ATAAC and engine mounted aftertreatment.
- No derating required up to 3000 m (9,842 ft) altitude.
- All non-road Tier 4 Interim and Final, Stage IIIB, IV and V, Japan 2014 (Tier 4 Final) and Korea Tier 4 Final diesel engines are required to use only Ultra Low Sulfur Diesel (ULSD) fuels containing 15 ppm EPA/10 ppm EU (mg/kg) sulfur or less. Biodiesel blends up to B20 (20% blend by volume) are acceptable when blended with 15 ppm (mg/kg) sulfur or less ULSD. B20 should meet ASTM D7467 specification (biodiesel blend stock should meet Cat biodiesel spec, ASTM D6751 or EN 14214). Cat DEO-ULS™ or oils that meet the Cat ECF-3, API CJ-4, API CK-4 and/or ACEA E9 specification are required. Consult your OMM for further machine specific fuel recommendations.
- Diesel Exhaust Fluid (DEF) used in Cat Selective Catalytic Reduction (SCR) systems must meet the requirements outlined in the International Organization for Standardization (ISO) standard 22241.

#### **Air Conditioning**

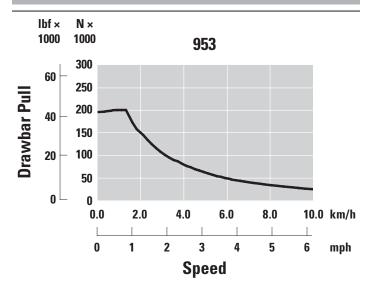
The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.1 kg of refrigerant which has a  $CO_2$  equivalent of 1.573 metric tons.

<b>Drive System</b>	
Description	Electronically controlled Hydrostatic drive with two variable displacement bent axis motors and two variable displacement slipper-type axial piston pumps
Travel Speed	Infinite variable speed from 0 to 10 km/h (0 to 6.2 mph)
Relief Valve Setting	47 500 kPa 6,890 psi

Implement System		
Description	Load sensing displacement	
Maximum Continuous Flow (1,800 rpm)	155 L/min	41 gal/min
Maximum Pressure	28 000 kPa	4,061 psi
Filter System	Implement re	turn filter

<b>Service Refill Capacities</b>		
Fuel Tank	265 L	70 gal
DEF Tank	16 L	4.2 gal
Cooling System	32 L	8.5 gal
Crankcase (with filter)	16.5 L	4.5 gal
Final Drives (each)	10.8 L	2.8 gal
Hydraulic Tank	70 L	18.5 gal
Pivot Shaft	0.7 L	0.18 gal

#### **Drawbar Pull**



<b>Heavy Duty Waste Handler</b>		
Operating Weight <sup>1</sup>	16 176 kg	35,662 lb
Shipping Weight	13 269 kg	29,253 lb
Track Shoe Width – Standard <sup>2</sup>	480 mm	20 in
Track Shoe Width – Narrow <sup>2</sup>	380 mm	15 in
Track Rollers – Each Side		6
Number of Shoes – Each Side		37
Track on Ground	2286 mm	90 in
Ground Pressure – Standard Shoes	67 kPa	10 psi
Ground Pressure – Narrow Shoes	84 kPa	12.2 psi

<b>Heavy Duty Enhanced Cleani</b>	ng Waste H	landler
Operating Weight <sup>1</sup>	16 602 kg	36,601 lb
Shipping Weight	13 695 kg	30,192 lb
Track Shoe Width – Standard <sup>2</sup>	480 mm	20 in
Track Shoe Width - Narrow <sup>2</sup>	380 mm	15 in
Track Rollers – Each Side		6
Number of Shoes – Each Side		37
Track on Ground	2286 mm	90 in
Ground Pressure – Standard Shoes	69 kPa	10 psi
Ground Pressure – Narrow Shoes	86 kPa	12.5 psi

<sup>&</sup>lt;sup>1</sup>Operating weight: machine with construction package, general purpose landfill bucket with teeth and segments, lubricants, 100% fuel tank and 75 kg (165 lb) operator. <sup>2</sup>Double grouser, with or without center holes.

Track		
Track Shoe Width	Grousers	Features
Heavy Duty Extended Life (HDXL)		
380 mm (15 in)	Double	Narrow
480 mm (19 in)	Double	_
480 mm (19 in)	Double	Center Hole

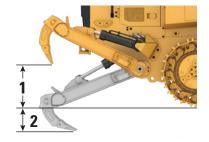
#### **Ripper** Type Radial Weight 592 kg 1306 lb 1 Maximum Clearance Raised (shank tip) 745 mm 29.3 in 2 Maximum Penetration 253 mm 9.9 in 3 Pocket Spacing 900 mm 35.4 in 70.9 in 4 Shank Gauge 1800 mm 5 Overall Ripping Width 1955 mm 77 in Beam Cross Section 203.5 mm × 165 mm $8.0 \text{ in} \times 6.5 \text{ in}$ 33,212 lbf Maximum Penetration Force 148 kN Maximum Pry Out Force 86 kN 19,363 lbf

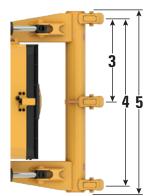
Note: Rippers from the 953K model are compatible with the 953.

#### **Grouser Selection**

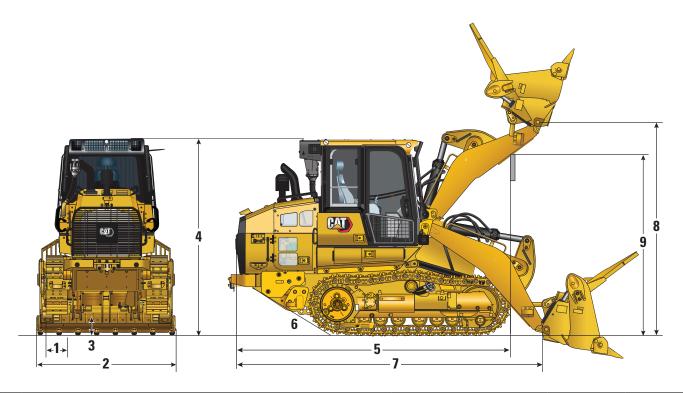
Double Grouser – best balance of traction and maneuverability

Center Holes – Helps reject material, helping to reduce build-up and added track tension.



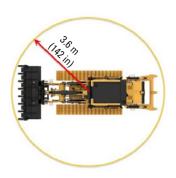


#### **Dimensions**

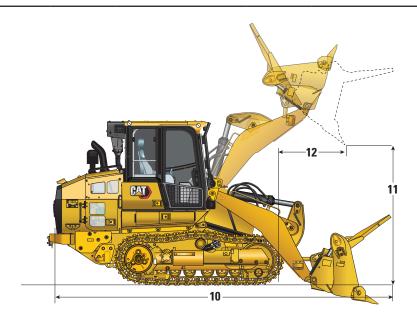


	Heavy	Heavy Duty		Enhanced ning
1 Standard Track Shoe Width	480 mm	20.0 in	480 mm	20.0 in
2 Overall Machine Width (without bucket)				
Standard Gauge (480 mm/20.0 in shoes)	2316 mm	91.2 in	2616 mm	103.0 in
3 Ground Clearance	413 mm	16.3 in	413 mm	16.3 in
4 Machine Height to Top of Cab	3156 mm	124.2 in	3156 mm	124.2 in
5 Machine Length to Front of Tracks	4520 mm	177.9 in	4520 mm	177.9 in
with Ripper, Add	421 mm	16.6 in	421 mm	16.6 in
6 Ramp Angle	29	)°	29°	
7 Overall Length (without bucket)	5122 mm	201.6 in	5122 mm	201.6 in
8 Hinge Pin Height at Maximum Lift	3608 mm	142.1 in	3608 mm	142.1 in
9 Lift Arm Clearance at Maximum Lift	3003 mm	118.3 in	3003 mm	118.3 in
Turning Radius	3.6 m	141.7 in	3.6 m	141.7 in

Bucket and attachment offerings may vary. Please consult your Cat dealer for availability.



#### **Buckets**



Pin-On Buckets	General Purp	ose Bucket*	Landfill Bucket**	Performance Bucket**	Flat Floo	r Bucket*	Multi- Purpose Bucket**	Multi- Purpose Bucket** Landfill
Cutting Edge Type	Long Teeth & Segments	Bolt-On Full Edge	Long Teeth & Segments	Long Teeth & Segments	Welded Flush Adapters, Long Teeth	Wide – Welded Flush Adapters, Long Teeth	Long Teeth & Segments	Long Teeth & Segments
Bucket Weight	1216 kg	1100 kg	1472 kg	1419 kg	1098 kg	1382 kg	1809 kg	2008 kg
	(2,681 lb)	(2,425 lb)	(3,245 lb)	(3,128 lb)	(2,421 lb)	(3,047 lb)	(3,987 lb)	(4,418 lb)
Bucket Width	2485 mm	2483 mm	2484 mm	2551 mm	2446 mm	3009 mm	2485 mm	2484 mm
	(97.8 in)	(97.8 in)	(97.8 in)	(100.4 in)	(96.0 in)	(118 in)	(97.8 in)	(97.8 in)
Rated Capacity at 100% Fill Factor <sup>1</sup>	1.8 m <sup>3</sup> (2.4 yd <sup>3</sup> )	1.8 m <sup>3</sup> (2.4 yd <sup>3</sup> )	2.3 m <sup>3</sup> (3.0 yd <sup>3</sup> )	2.1 m <sup>3</sup> (2.7 yd <sup>3</sup> )	1.7 m <sup>3</sup> (2.3 yd <sup>3</sup> )	2.2 m <sup>3</sup> (2.9 yd <sup>3</sup> )	1.6 m <sup>3</sup> (2.1 yd <sup>3</sup> )	2.1 m <sup>3</sup> (2.7 yd <sup>3</sup> )
Rated Capacity at 110% Fill Factor				2.3 m <sup>3</sup> (3.0 yd <sup>3</sup> )				
Rated Operating Capacity <sup>2</sup>	3692 kg	3737 kg	3617 kg	3871 kg	4672 kg	4545 kg	2828 kg	3295 kg
	(8,139 lb)	(8,238 lb)	(7,974 lb)	(8,533 lb)	(10,300 lb)	(10,020 lb)	(6,234 lb)	(7,265 lb)
Static Tipping Load	10 548 kg	10 676 kg	10 335 kg	11 059 kg	11 360 kg	10 999 kg	8080 kg	8120 kg
	(23,255 lb)	(23,536 lb)	(22.784 lb)	(24,380 lb)	(25,045 lb)	(24,250 lb)	(17,812 lb)	(17,901 lb)
10 Overall Machine Length (bucket on the ground)	6378 mm	6176 mm	6378 mm	6474 mm	6365 mm	6396 mm	6512 mm	6512 mm
	(251.1 in)	(243.2 in)	(251.1 in)	(254.9 in)	(250.6 in)	(251.8 in)	(256.4 in)	(256.4 in)
11 Dump Clearance at Maximum Lift and 45° Discharge	2838 mm	2838 mm	2838 mm	2775 mm	2914 mm	2875 mm	2853 mm	2853 mm
	(111.7 in)	(111.7 in)	(111.7 in)	(109.3 in)	(114.7 in)	(113.2 in)	(112.3 in)	(112.3 in)
12 Reach at Maximum Lift and 45° Discharge	1053 mm	1053 mm	1053 mm	1115 mm	1000 mm	1036 mm	1248 mm	1248 mm
	(41.4 in)	(41.4 in)	(41.4 in)	(43.9 in)	(39.4 in)	(40.8 in)	(49.1 in)	(49.1 in)
Breakout Force	141 669 N	142 755 N	138 923 N	126 732 N	159 222 N	147 230 N	121 694 N	119 612 N
	(31,849 lbf)	(32,093 lbf)	(31,231 lbf)	(28,491 lbf)	(35,795 lbf)	(33,099 lbf)	(27,358 lbf)	(26,890 lbf)

Note: General construction buckets are compatible with the Waste Handler configuration. Additional buckets and work tool attachments are available. Please consult your Cat dealer for details.

<sup>\*</sup>Machine equipped with no counterweight.

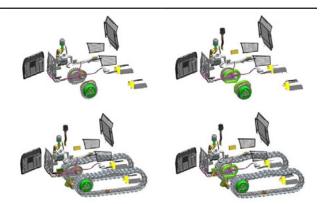
<sup>\*\*</sup>Machine equipped with standard and additional counterweights.

<sup>&</sup>lt;sup>1</sup>Volumetric bucket capacity as per ISO 7546:1983.

<sup>&</sup>lt;sup>2</sup>Rated Operating Capacity should be considered with 35% Static Tipping Load as required by ISO 14397-1:2007.

#### **Waste Handler Features**

- ✓ Included
- ★ Recommended
- Compatible



Feature	Heavy Duty	Heavy Duty Enhanced Cleaning
Windshield Protection	✓	✓
Idler Guard	✓	✓
Final Drive Duo Cone Seal Guard to protect against wire wrapping	✓	✓
Full Length Guard	•	*
Striker Bars	*	*
Programmable Reversing Fan (frequency and duration) with fixed blade pitch and reversed rotation	✓	✓
Dual-Stage Engine Air Pre-Cleaner with Turbine	✓	✓
Cab Air Precleaner With Powered Turbine to eject debris	*	✓
480 mm (19 in) HDXL Tracks with Center Holes	*	*
Ripper	•	•
Light Counterweight	•	•
Additional Counterweight	•	•
Latches on Rear Guard	✓	✓
Quick Coupler Lines	•	•
Additional Lights – two additional LED lights at bottom of cab, underhood light	•	•
Extended Service Package (hydraulic cab tilt and shovel holder)	✓	<b>√</b>

#### **Standards**

#### **ROPS/FOPS**

- ROPS (Rollover Protective Structure) offered by Caterpillar for the machine meets ROPS criteria ISO 3471:2008.
- FOPS (Falling Object Protective Structure) meets ISO 3449:2005 Level II.

#### **Brakes**

• Brakes meet the standard ISO 10265:2008.

#### **Sound and Vibration Information**

• The declared dynamic operator sound pressure level when "ISO 6396:2008" is used to measure the value for an enclosed cab. The measurements were conducted at 70% of the maximum engine cooling fan speed. The sound level may vary at different engine cooling fan speeds. The cab was properly installed and maintained. The measurements were conducted with the cab doors and the cab windows closed. NOTE: The dynamic operator sound pressure level uncertainty is  $\pm 2$  dB(A).

#### 953 - 74 dB(A)

- Hearing protection may be needed when the machine is operated with an open operator station for extended periods, in a noisy environment or with a cab that is not properly maintained.
- Sound Level Information for Machines in European Union Countries and in Countries that Adopt the "EU Directives": If equipped, the certification label is used to verify the environmental sound certification of the machine to the requirements of the European Union. The value that is listed on the label indicates the guaranteed exterior sound power level (LWA) at the time of manufacture for the conditions that are specified in "2000/14/EC."

#### 953 - 109 dB(A)

## **953 Waste Handler Standard and Optional Equipment**

#### **Standard and Optional Equipment**

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional
POWER TRAIN		
Cat C7.1 diesel engine, turbocharged with Air-To-Air After Cooler (ATAAC)	✓	
Engine-mounted aftertreatment to meet U.S. EPA Tier 4 Final, EU Stage V, Japan 2014, Korea Tier 4 Final emission standards	✓	
Modular cooling system for engine air intake, oil and water	✓	
Hydraulic demand fan – electronically controlled, temperature sensing	✓	
Hydraulic fan, reversing	✓	
Electro Hydrostatic Control (EHC) for transmission	✓	
Engine idle shutdown	✓	
Auto engine speed control	✓	
Electric fuel pump	✓	
Water separator	✓	
Glow plug starting aid	✓	
Engine air cleaner		✓
Engine air precleaner	✓	
UNDERCARRIAGE		
HDXL undercarriage and tracks (37 sections), 1836 mm (72.3 in) track gauge	✓	
Oscillating track roller frames	✓	
Track guiding guards, end section	✓	
Hydraulic track adjuster	✓	
Sprocket rims with replaceable bolt-on tough steel segments	✓	
Sprocket guards	✓	
Six track rollers per side, with one carrier roller, lifetime lubricated	✓	
Idlers, conventional type, lifetime lubricated	<b>√</b>	

r details.		
	Standard	Optional
ELECTRICAL		
Ground Level Service Center	✓	
24 volt heavy-duty alternator	✓	
Backup alarm	✓	
Two horns	✓	
Two heavy-duty batteries, high output, maintenance free, 900 CCA	✓	
Main disconnect switch	✓	
Electric starter (heavy-duty, 24 volt)	<b>√</b>	
Extra lighting. Two additional LED lights at the bottom of cab facing forward plus one underhood light		✓
LED flashing beacon		$\checkmark$
DPERATOR ENVIRONMENT		
Pressurized, sound suppressed, ROPS/ FOPS Cab with tinted glass and right side sliding window	✓	
Cab package with one sliding side window and four halogen lights: two facing forward, roof mounted, two facing rearward, integrated in the air conditioner unit		<b>√</b>
Deluxe cab package with two sliding side windows and eight LED lights: four roof-mounted facing forward, two facing rearward and two facing side integrated in the air conditioner unit		✓
Deluxe high back seat – heated, with adjustable shock control		✓
Premium Plus high back seat – heated and cooled, lockable side-side isolator		✓
Adjustable armrests	✓	
Electro Hydraulic, seat mounted control levers with faster processing	✓	
V-pattern and pedal steering controls		$\checkmark$
Joystick steering controls		✓
Joystick implement control		✓
Two-lever implement control		✓
Seat belt, retractable, with buckling indicator on dash	✓	
Four-point restraint ready seat	✓	
Air conditioning and heating	✓	
Heater/defroster with automatic temperature control and automatic blower control	✓	
Cab air powered precleaner Rearview mirror, inside, adjustable	<b>y</b>	✓
Real view militor, miside, adjustable	٧	

## **953 Waste Handler Standard and Optional Equipment**

#### Standard and Optional Equipment (continued)

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional
OPERATOR ENVIRONMENT (continued)		
Radio ready. Includes speakers, antenna and 12 V power outlet and 5 V USB port	✓	
Radio – FM Ready Kit		✓
Radio – Bluetooth & Aux & Mic		✓
Radio – Bluetooth & Aux & Mic – Dab+		✓
Radio – Bluetooth & Aux & Mic – Sirius		✓
Parking brake switch and "brake-on" indicator light	✓	
Implement lock-out switch	✓	
High Definition rearview camera	✓	
254 mm (10 in) color touchscreen display with integrated rear camera display and machine slope indicator	✓	
Three selectable working modes (Auto, Power, Eco)	✓	
Operator programmable lift and tilt kickouts	✓	
Machine Pitch and Roll indicate	✓	
Bucket shake	✓	
Remote services (Troubleshoot/Remote Flash)		✓
Heavy-duty rubber floor mat	✓	
Windshield washers and wipers, multiple speed, front and rear	✓	
Durable metal roof	✓	
Coat hook	✓	
Storage compartments under left armrest	✓	
Document holder on right console	✓	

	Standard	Optional
OTHER STANDARD EQUIPMENT		
Durable metal fender	✓	
Exterior sound suppression	✓	
Load sensing implement pump with variable displacement	✓	
Z-bar loader linkage	✓	
Implement cylinders with sensors	✓	
Engine enclosure with lockable doors	✓	
Debris resistant radiator core (six fins-per-inch)	✓	
Hinged radiator guard with latch and swing out fan	✓	
4 × 2 easy tie-down points on chassis	✓	
FEATURE PACKAGES		
Heavy Duty Waste Package		✓
Heavy Duty Enhance Cleaning Waste Package		✓
GUARDING		
Full bottom guards	✓	
Idler guard (none)		✓
Idler guard		✓
Idler guard – ship hold		✓
Front light guard		✓
Windshield guard		✓
Final drive duo cone seal guard	✓	
Track roller guard		✓

## **953 Waste Handler Standard and Optional Equipment**

#### Standard and Optional Equipment (continued)

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional
BUCKETS*		
General purpose – 1.8 m <sup>3</sup> (2.4 yd <sup>3</sup> )		✓
General purpose with welded flush adapter – 1.7 m³ (2.2 yd³)		✓
Heavy-duty general purpose – 1.8 m <sup>3</sup> (2.4 yd <sup>3</sup> )		✓
Multi-purpose – 1.6 m <sup>3</sup> (2.1 yd <sup>3</sup> )		✓
Heavy-duty multi-purpose Landfill – 2.1 m³ (2.7 yd³)		✓
General purpose with full bolted cutting edge – 1.8 m <sup>3</sup> (2.4 yd <sup>3</sup> )		✓
Performance general purpose – 2.1 m³ (2.7 yd³)		✓
Wide flush general purpose – 2.2 m³ (2.9 yd³)		✓
Heavy-duty landfill bucket – 2.3 m³ (3.0 yd³)		✓
HYDRAULICS		
Two-valve hydraulics, two-lever		✓
Two-valve hydraulics, joystick		✓
Three-valve hydraulics, front, joystick		✓
Three-valve hydraulics, rear, joystick		✓
Three-valve hydraulics, rear, two-lever		✓
Four-valve hydraulics, front and rear, joystick		✓
Standard hydraulic lines		✓
Quick coupler hydraulic lines		✓

<sup>\*</sup>Buckets and other work tool attachments from the 953K model, and select buckets and work tool attachments from the 953D model, are compatible with the 953. Bucket and attachment offerings may vary. Please consult your Cat dealer for compatibility information and availability

	C4add	0
RAAINITEN ANGE	Standard	Optional
MAINTENANCE		
Standard lubricant		
Bio lubricant		<b>√</b>
Cat extended life coolant	<b>√</b>	
Service package		<b>√</b>
Extended service package – manual hydraulic system enabling cab tilt and		✓
lock at 30 degrees safely in the field,		
shovel holder bracket (shovel not		
included)		
High speed oil change		✓
Ecology drains on hydraulic oil tank	✓	
Oil sampling valves	✓	
Cat XT hoses	✓	
HYDO Advanced 10	✓	
Implement oil return filter	✓	
in hydraulic tank		
REAR ATTACHMENTS		
Bumper		✓
Ripper		✓
No bumper		✓
Ripper hitch		✓
Striker bars		$\checkmark$
FUEL TANK		
Fuel tank	$\checkmark$	
Fast Fill fuel tank		✓
Fuel tank refilling pump		✓
Sediment hand pump		✓
OTHER EQUIPMENT		
Access package		✓
Jacket water heater (110 V)		✓
Jacket water heater (240 V)		✓
Fusion Quick Coupler		✓
TECHNOLOGY PRODUCTS		
Product Link Ready	✓	
Product Link – Satellite		✓
Product Link – Dual Satellite and Cellular		✓
No Product Link		✓
Grade control mast		✓
COUNTERWEIGHTS		
Light counterweight 240 kg (529 lb)		<b>√</b>
Light counterweight, additional		<b>√</b>
200 kg (440 lb)		

# 953 Track Loader Ship Hold

Traction, balance and agility are among the key characteristics that make track loaders ideal for ship hold work. Add in speed, reach, visibility and capability to use a variety of attachments, and track loaders become the top choice for unloading bulk carriers.

#### **Track Loader Advantages**

- Machine balance
- Maneuverability, especially in tight spaces
- · Smooth, responsive controls
- · Ability to work on slopes
- Undercarriage provides excellent traction and smooth ride over rough, loose or uneven surfaces
- · Low ground pressure
- · Excellent visibility, now with rear vision camera
- · Quiet, sound suppressed cab
- · Adjustable, air suspension seat for operator comfort
- · Ease of maintenance and cooling system cleanout
- · High reach for scraping down walls or loading
- Attachment versatility

Please consult with your Cat dealer regarding Ship Hold package availability.

#### **Ship Hold Features**

- A set of durable lifting eyes designed and validated with ISO 15818 provides fast and safe loading into the hold.
- · Widely spaced lifting eyes provide stability during the lift.
- Steps for easy access to the cab from the front and the rear
- · Stability during the lift.
- Guarding helps protect the tilt cylinder rod from debris and impact.
- Optional center hole shoes reduce track packing and track chain tightening which extends undercarriage life.

#### **Attachment Versatility**

- Trim blade
- General purpose buckets
- · Multi-purpose buckets
- Fusion™ Quick Coupler option lets you make fast attachment changes with a wide range of tools like forks, buckets, etc. from wheel loaders and other Fusion compatible machines.

Engine		
Engine	Cat C7.1	
Emissions	U.S. EPA Tie EU Stage V/. Korea Tier 4	Japan 2014/
Build Number	12A	
Net Power (1,800 rpm)		
ISO 9249/SAE J1349	119 kW	160 hp
ISO 9249/SAE J1349 (DIN)	162 mhp	
Engine Power (1,800 rpm)		
ISO 14396	129 kW	173 hp
ISO 14396 (DIN)	175 mhp	
Bore	105 mm	4.1 in
Stroke	135 mm	5.3 in
Displacement	7.01 L	427.8 in <sup>3</sup>

- Net power advertised is the power available at the engine flywheel
  when the engine is equipped with a fan, air cleaner, clean emissions
  module and alternator.
- Advertised power is tested per the specified standard in effect at the time of manufacture.
- Inline six-cylinder diesel engine with single turbo, charged with ATAAC and engine mounted aftertreatment.
- No derating required up to 3000 m (9,842 ft) altitude.
- All non-road Tier 4 Interim and Final, Stage IIIB, IV and V, Japan 2014 (Tier 4 Final) and Korea Tier 4 Final diesel engines are required to use only Ultra Low Sulfur Diesel (ULSD) fuels containing 15 ppm EPA/10 ppm EU (mg/kg) sulfur or less. Biodiesel blends up to B20 (20% blend by volume) are acceptable when blended with 15 ppm (mg/kg) sulfur or less ULSD. B20 should meet ASTM D7467 specification (biodiesel blend stock should meet Cat biodiesel spec, ASTM D6751 or EN 14214). Cat DEO-ULS™ or oils that meet the Cat ECF-3, API CJ-4, API CK-4 and/or ACEA E9 specification are required. Consult your OMM for further machine specific fuel recommendations.
- Diesel Exhaust Fluid (DEF) used in Cat Selective Catalytic Reduction (SCR) systems must meet the requirements outlined in the International Organization for Standardization (ISO) standard 22241.

#### **Air Conditioning**

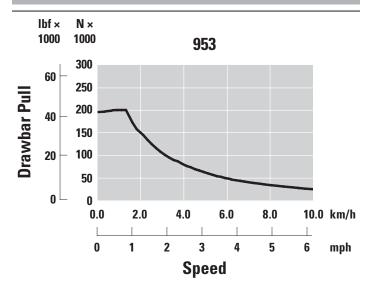
The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.1 kg of refrigerant which has a  $CO_2$  equivalent of 1.573 metric tons.

Drive System	
Description	Electronically controlled Hydrostatic drive with two variable displacement bent axis motors and two variable displacement slipper-type axial piston pumps
Travel Speed	Infinite variable speed from 0 to 10 km/h (0 to 6.2 mph)
Relief Valve Setting	47 500 kPa 6,890 psi

Implement System		
Description	Load sensing displacement	,
Maximum Continuous Flow (1,800 rpm)	155 L/min	41 gal/min
Maximum Pressure	28 000 kPa	4,061 psi
Filter System	Implement re	turn filter

<b>Service Refill Capacities</b>		
Fuel Tank	265 L	70 gal
DEF Tank	16 L	4.2 gal
Cooling System	32 L	8.5 gal
Crankcase (with filter)	16.5 L	4.5 gal
Final Drives (each)	10.8 L	2.8 gal
Hydraulic Tank	70 L	18.5 gal
Pivot Shaft	0.7 L	0.18 gal

#### **Drawbar Pull**



#### **Weights and Dimensions Ship Hold** 37,079 lb Operating Weight<sup>1</sup> 16 819 kg Shipping Weight 13 488 kg 29,736 lb Track Shoe Width - Standard<sup>2</sup> 20.0 in 480 mm Track Shoe Width - Narrow<sup>2</sup> 380 mm 15.0 in Track Rollers - Each Side 6 Number of Shoes - Each Side 37 Track on Ground 2286 mm 90.0 in Ground Pressure - Standard Shoes 70 kPa 10 psi Ground Pressure - Narrow Shoes 87 kPa 13 psi

<sup>&</sup>lt;sup>2</sup>Double grouser, with or without center holes.

Track		
Track Shoe Width	Grousers	Features
Heavy Duty Extended Life (HDXL)		
380 mm (15 in)	Double	Narrow
480 mm (19 in)	Double	_
480 mm (19 in)	Double	Center Hole

#### **Standards**

#### **ROPS/FOPS**

- ROPS (Rollover Protective Structure) offered by Caterpillar for the machine meets ROPS criteria ISO 3471:2008.
- FOPS (Falling Object Protective Structure) meets ISO 3449:2005 Level II.

#### **Brakes**

• Brakes meet the standard ISO 10265:2008.

#### **Sound and Vibration Information**

• The declared dynamic operator sound pressure level when "ISO 6396:2008" is used to measure the value for an enclosed cab. The measurements were conducted at 70% of the maximum engine cooling fan speed. The sound level may vary at different engine cooling fan speeds. The cab was properly installed and maintained. The measurements were conducted with the cab doors and the cab windows closed. NOTE: The dynamic operator sound pressure level uncertainty is  $\pm 2$  dB(A).

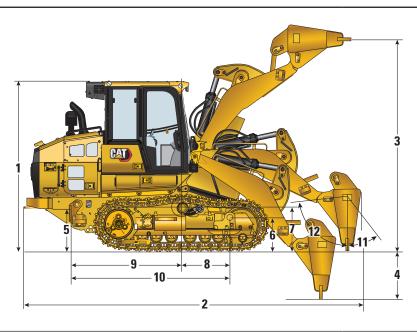
#### 953 - 74 dB(A)

- Hearing protection may be needed when the machine is operated with an open operator station for extended periods, in a noisy environment or with a cab that is not properly maintained.
- Sound Level Information for Machines in European Union Countries and in Countries that Adopt the "EU Directives": If equipped, the certification label is used to verify the environmental sound certification of the machine to the requirements of the European Union. The value that is listed on the label indicates the guaranteed exterior sound power level (LWA) at the time of manufacture for the conditions that are specified in "2000/14/EC."

#### 953 - 109 dB(A)

Operating weight: machine with construction package, Trim blade, lubricants, 100% fuel tank and 75 kg (165 lb) operator.

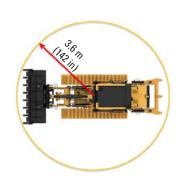
## **Dimensions**



Dimensions (with Hitch)	Pin-On l	Blade
1 Overall Height	3156 mm	124.2 in
2 Overall Length	6167 mm	242.8 in
3 Work Tool Cutting Edge Height Fully Raised	4013 mm	158.0 in
4 Digging Depth – Fully Tilted Fully Retracted	843 mm	33.2 in
4 Digging Depth – Blade Vertical	903 mm	35.5 in
Overall Width – with 380 mm (15 in) shoes	2216 mm	87.2 in
Overall Width – with 480 mm (20 in) shoes	2316 mm	91.2 in
Blade Width	3150 mm	124.0 in
5 Rear Lifting Eye Height	765 mm	30.1 in
<b>6</b> Front Lifting Eye Height	595 mm	23.4 in
Center of Gravity Dimensions		
7 Center of Gravity Height	732 mm	28.8 in
8 Center of Gravity to Front Eye	782 mm	30.8 in
<b>9</b> Center of Gravity to Rear Eye	2143 mm	84.4 in
10 Distance from Rear to Front Lifting Eyes	2924 mm	115.1 in
11 Trim Blade Pitch – Forward	83	0
12 Trim Blade Pitch – Rearward	32	0
Turning Radius	3.97 m	156.4 in

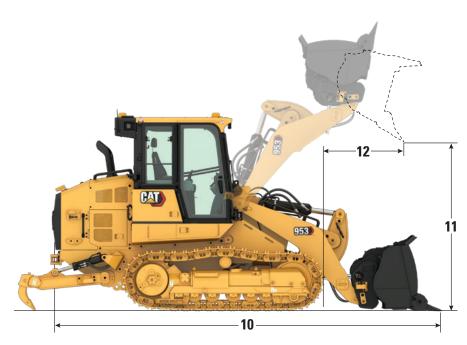
#### **Blades**

Trim Blades		Pin-On Blade
Blade Weight	1906 kg	4,202 lb
Blade Width	3150 mm	124.0 in
Blade Height	1154 mm	45.4 in
Blade Surface	3.64 m <sup>2</sup>	39.1 ft <sup>2</sup>



#### **Buckets**

Bucket and attachment offerings may vary. Please consult your Cat dealer for availability.



Pin-On Buckets	Buckets General Purpose Bucket				Performance General Purpose Buckets*  Bucket**  Flat Floor Buckets*		Buckets*	Multi-Purpose Bucket**
Cutting Edge Type	Long Teeth & Segments	Bolt-On Full Edge	Long Teeth & Segments	Welded Flush Adapters, Long Teeth	Wide – Welded Flush Adapters, Long Teeth	Long Teeth & Segments		
Bucket Weight	1216 kg	1100 kg	1419 kg	1100 kg	1383 kg	1809 kg		
	(2,681 lb)	(2,425 lb)	(3,128 lb)	(2,425 lb)	(3,048 lb)	(3,987 lb)		
Bucket Width	2485 mm	2483 mm	2551 mm	2446 mm	3009 mm	2485 mm		
	(97.8 in)	(97.8 in)	(100.4 in)	(96.3 in)	(118.5 in)	(97.8 in)		
Rated Capacity at 100% Fill Factor <sup>1</sup>	1.8 m <sup>3</sup> (2.4 yd <sup>3</sup> )	1.8 m <sup>3</sup> (2.4 yd <sup>3</sup> )	2.1 m <sup>3</sup> (2.7 yd <sup>3</sup> )	1.8 m <sup>3</sup> (2.3 yd <sup>3</sup> )	2.2 m <sup>3</sup> (2.9 yd <sup>3</sup> )	1.6 m <sup>3</sup> (2.1 yd <sup>3</sup> )		
Rated Capacity at 110% Fill Factor			2.3 m <sup>3</sup> (3.0 yd <sup>3</sup> )					
Rated Operating Capacity <sup>2</sup>	3692 kg	3737 kg	3871 kg	3987 kg	4115 kg	2828 kg		
	(8,139 lb)	(8,238 lb)	(8,533 lb)	(8,789 lb)	(9,071 lb)	(6,234 lb)		
Static Tipping Load	10 548 kg	10 676 kg	11 059 kg	11 391 kg	11 756 kg	8080 kg		
	(23,255 lb)	(23,536 lb)	(24,380 lb)	(25,112 lb)	(25,917 lb)	(17,812 lb)		
10 Overall Machine Length (bucket on the ground)	6378 mm	6176 mm	6474 mm	6365 mm	6396 mm	6512 mm		
	(251.1 in)	(243.2 in)	(254.9 in)	(250.6 in)	(251.8 in)	(256.4 in)		
11 Dump Clearance at Maximum Lift and 45° Discharge	2838 mm	2838 mm	2775 mm	2914 mm	2875 mm	2853 mm		
	(111.7 in)	(111.7 in)	(109.3 in)	(114.7 in)	(113.2 in)	(112.3 in)		
12 Reach at Maximum Lift and 45°	1053 mm	1053 mm	1115 mm	1000 mm	1036 mm	1248 mm		
Discharge	(41.4 in)	(41.4 in)	(43.9 in)	(39.4 in)	(40.8 in)	(49.1 in)		
Breakout Force	141 669 N	142 755 N	126 732 N	159 216 N	147 446 N	121 694 N		
	(31,849 lbf)	(32,093 lbf)	(28,491 lbf)	(35,793 lbf)	(33,147 lbf)	(27,358 lbf)		

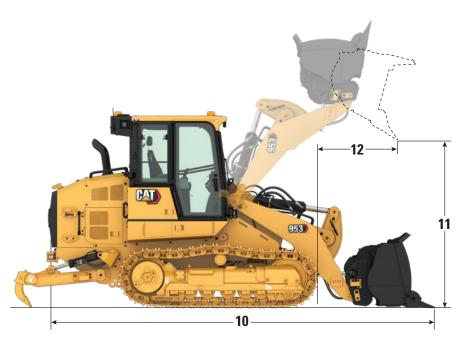
 $<sup>{\</sup>bf *Machine\ equipped\ with\ no\ counterweight}.$ 

<sup>\*\*</sup>Machine equipped with standard and additional counterweights.

<sup>&</sup>lt;sup>1</sup>Volumetric bucket capacity as per ISO 7546:1983.

<sup>&</sup>lt;sup>2</sup>Rated Operating Capacity should be considered with 35% Static Tipping Load as required by ISO 14397-1:2007.

#### **Buckets** (continued)



#### The Right Tool for the Job

All buckets can be used for digging, stump removal, loading, carrying, leveling, etc. Some buckets are more specialized:

Performance Buckets – optimized for loading and carrying

Multi-Purpose (MP) – grabbing material and grading with the clamp open

Flat Floor Buckets – Leveling, loose material handling

For maximum versatility, the Fusion™ coupler is compatible with a range of buckets, forks, rakes, material handling arm and more. Consult with your Cat dealer for compatibility.

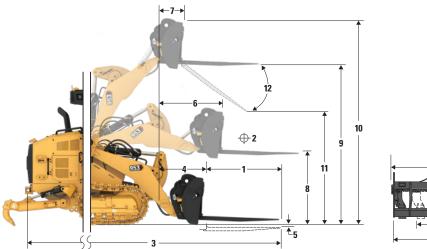
Fusion™ Quick Coupler Buckets	Fusion	Buckets
Cutting Edge Type	Long Teeth	& Segments
Bucket Weight	1490 kg	3,285 lb
Bucket Width	2536 mm	99.8 in
Rated Capacity at 100% Fill Factor <sup>1</sup>	1.8 m³	2.4 yd³
Rated Operating Capacity <sup>2</sup>	3634 kg	8,012 lb
Static Tipping Load <sup>3</sup>	10 383 kg	22,890 lb
10 Overall Machine Length (bucket on the ground)	6469 mm	254.7 in
11 Dump Clearance at Maximum Lift and 45° Discharge	2858 mm	112.5 in
12 Reach at Maximum Lift and 45° Discharge	1234 mm	48.6 in
Breakout Force	120 671 N	27,128 lbf

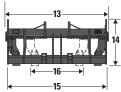
<sup>&</sup>lt;sup>1</sup>Volumetric bucket capacity as per ISO 7546:1983.

Rated Operating Capacity should be considered with 35% Static Tipping Load as required by ISO 14397-1:2007.

<sup>&</sup>lt;sup>3</sup>Machine equipped with standard and additional counterweights.

#### **Operating Specifications with Pallet Forks**





953 Track Loader*	48-in	Tines	60-in	Tines	<b>72</b> -in	Tines	84-in	Tines	96-in	Tines
	mm	in	mm	in	mm	in	mm	in	mm	in
1 Tine Length	1219	48.0	1524	60.0	1829	72.0	2134	84.0	2438	96.0
2 Load Center	609	24.0	762	30.0	914	36.0	1067	42.0	1219	48.0
3 Maximum Overall Length	6951	274.0	7256	286.0	7561	298.0	7866	3,107	8170	3,227
4 Reach with Forks at Ground Level	1213	48.0	1213	48.0	1213	48.0	1213	48.0	1213	48.0
5 Dig Depth	-50	-2	-50	-2	-50	-2	-50	-2	-50	-2
6 Reach with Arms Horizontal and Fork Level	1713	67.0	1713	67.0	1713	67.0	1713	67.0	1713	67.0
7 Reach with Fork at Maximum Height	930	37.0	930	37.0	930	37.0	930	37.0	930	37.0
<b>8</b> Ground to Top of Tine with Arms Horizontal and Fork Level	1619	64.0	1619	64.0	1619	64.0	1619	64.0	1619	64.0
<b>9</b> Ground to Top of Tine at Maximum Height and Fork Level	3472	137.0	3472	137.0	3472	137.0	3472	137.0	3472	137.0
10 Overall Height of Fork at Full Lift (top of carriage to ground)	4513	178.0	4513	178.0	4513	178.0	4513	178.0	4513	178.0
11 Clearance at Full Lift and Maximum Dump	2107	83.0	1853	73.0	1598	63.0	1344	53.0	1090	43.0
12 Maximum Discharge Angle from Horizontal		57°	-:	57°	-:	57°	-:	57°	-:	57°
13 Overall Carriage Width	2528	100.0	2528	100.0	2528	100.0	2528	100.0	2528	100.0
14 Overall Carriage Height	1130	45.0	1130	45.0	1130	45.0	1130	45.0	1130	45.0
15 Outside Tine Width (maximum spread)	2178	86.0	2178	86.0	2178	86.0	2178	86.0	2178	86.0
<b>16</b> Outside Tine Width (minimum spread)	576	23.0	576	23.0	576	23.0	576	23.0	576	23.0
Tine Width (single tine)	180	7.0	180	7.0	180	7.0	180	7.0	180	70
Tine Thickness	90	4.0	90	4.0	90	4.0	90	4.0	90	4.0
	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb
Tine Load Capacity (Per Pair)	22 200	48,943	17 800	39,242	14 800	32,628	12 700	27,999	11 300	24,912
Static Tipping Load Arm Horizontal and Fork Level	9011	19,867	8501	18,741	8017	17,675	7573	16,695	7204	15,883
Static Lifting Capacity Arm Horizontal and Fork Level	11 748	25,900	11 627	25,632	10 867	23,959	9692	21,366	8738	19,264
Rated Load (SAE J1197)**	2285	5,037	2142	4,723	2011	4,434	1889	4,165	1780	3,924

<sup>\*</sup>Construction configuration with 450 mm (22 in) HDXL tracks, standard counterweight (320 kg/705 lb) and additional counterweight (310 kg/683 lb).

<sup>\*\*</sup>For crawler loaders, 35% of the tipping load or 100% of the lifting capacity, whichever is less. (SAE J1197:2011, EN-474-3:2010, ISO 14397-1:2007).

## **953 Ship Hold Standard and Optional Equipment**

#### **Standard and Optional Equipment**

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional
POWER TRAIN		
Cat C7.1 diesel engine, turbocharged with Air-To-Air After Cooler (ATAAC)	✓	
Engine-mounted aftertreatment to meet U.S. EPA Tier 4 Final, EU Stage V, Japan 2014, Korea Tier 4 Final emission standards	✓	
Modular cooling system for engine air intake, oil and water	✓	
Hydraulic demand fan – electronically controlled, temperature sensing	✓	
Hydraulic fan, reversing	✓	
Electro Hydrostatic Control (EHC) for transmission	✓	
Engine idle shutdown	✓	
Auto engine speed control	✓	
Electric fuel pump	✓	
Water separator	✓	
Glow plug starting aid	✓	
Engine air cleaner		✓
Engine air precleaner		✓
UNDERCARRIAGE		
HDXL undercarriage and tracks (38 sections), 1850 mm (72.8 in) track gauge	✓	
Oscillating track roller frames	✓	
Track guiding guards, end section	✓	
Hydraulic track adjuster	✓	
Sprocket rims with replaceable bolt-on tough steel segments	✓	
Sprocket guards	✓	
Six track rollers per side, with one carrier roller, lifetime lubricated	<b>√</b>	
Idlers, conventional type, lifetime lubricated	<b>√</b>	

	Standard	Optional
ELECTRICAL		
Ground Level Service Center	✓	
24 volt heavy-duty alternator	✓	
Backup alarm	✓	
Two horns	✓	
Two heavy-duty batteries, high output, maintenance free, 1,120 CCA	✓	
Main disconnect switch	✓	
Electric starter (heavy-duty, 24 volt)	✓	
Extra lighting – two additional LED lights at the bottom of cab facing forward plus one underhood light		✓
LED flashing beacon		$\checkmark$
OPERATOR ENVIRONMENT		
Pressurized, sound suppressed, ROPS/ FOPS Cab with tinted glass and right side sliding window	✓	
Deluxe cab package with two sliding side windows and eight LED lights: four roof-mounted facing forward, two facing rearward and two facing side integrated in the air conditioner unit	✓	
Deluxe high back seat – heated, with adjustable shock control		✓
Premium Plus high back seat – heated and cooled, lockable side-side isolator		✓
Adjustable armrests	✓	
Electro Hydraulic, seat mounted control levers with faster processing	✓	
V-pattern and pedal steering controls		✓
Joystick steering controls		✓
Joystick implement control		✓
Two-lever implement control		✓
Seat belt, retractable, with buckling indicator on dash	✓	

Four-point restraint ready seat

## 953 Ship Hold Standard and Optional Equipment

#### Standard and Optional Equipment (continued)

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional
OPERATOR ENVIRONMENT (continued)		
Air conditioning and heating	✓	
Heater/defroster with automatic temperature control and automatic blower control	✓	
Cab air powered precleaner		✓
Rearview mirror, inside, adjustable	✓	
Radio ready. Includes speakers, antenna and 12 V power outlet and 5 V USB port	✓	
Radio – FM Ready Kit		✓
Radio – Bluetooth & Aux & Mic		✓
Radio – Bluetooth & Aux & Mic – Dab+		✓
Radio – Bluetooth & Aux & Mic – Sirius		✓
Parking brake switch and "brake-on" indicator light	✓	
Implement lock-out switch	✓	
High Definition rearview camera	✓	
254 mm (10 in) color touchscreen display with integrated rear camera display and machine slope indicator	✓	
Three selectable working modes (Auto, Power, Eco)	✓	
Operator programmable lift and tilt kickouts	✓	
Machine Pitch and Roll indicate	✓	
Bucket shake	✓	
Remote services (Troubleshoot/Remote Flash)		✓
Heavy-duty rubber floor mat	✓	
Windshield washers and wipers, multiple speed, front and rear	✓	
Durable metal roof	✓	
Coat hook	✓	
Storage compartments under left armrest	✓	
Document holder on right console	✓	

	Standard	Optional
OTHER STANDARD EQUIPMENT		
Rear and front lifting device	✓	
Durable metal fender	✓	
Exterior sound suppression	✓	
Load sensing implement pump with variable displacement	✓	
Z-bar loader linkage	✓	
Implement cylinders with sensors	✓	
Engine enclosure with lockable doors	✓	
Debris resistant radiator core (six fins-per-inch)	✓	
Hinged radiator guard and swing out fan	✓	
4 × 2 easy tie-down points on chassis	✓	
GUARDING		
Full bottom guards	✓	
Idler guard (none)		✓
Idler guard		✓
Idler guard – ship hold		✓
Front light guard		✓
Windshield guard		✓
Track roller guard		✓

## 953 Ship Hold Standard and Optional Equipment

#### Standard and Optional Equipment (continued)

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional
BUCKETS*		
General purpose – 1.8 m <sup>3</sup> (2.4 yd <sup>3</sup> )		✓
General purpose with welded flush adaptor – 1.7 m³ (2.2 yd³)		✓
Heavy-duty general purpose – 1.8 m³ (2.4 yd³)		✓
Multi-purpose - 1.6 m <sup>3</sup> (2.1 yd <sup>3</sup> )		✓
General purpose with full bolted cutting edge – 1.8 m <sup>3</sup> (2.4 yd <sup>3</sup> )		✓
Performance general purpose – 2.1 m³ (2.7 yd³)		✓
Wide flush general purpose – 2.2 m³ (2.9 yd³)		✓
Quick coupler, general purpose – 1.8 m³ (2.4 yd³)		✓
BLADES*		
Trim Blade – Coal – 3150 mm (24 in)		✓
HYDRAULICS		
Two-valve hydraulics, two-lever		✓
Two-valve hydraulics, joystick		✓
Three-valve hydraulics, front, joystick		✓
Three-valve hydraulics, rear, joystick		✓
Three-valve hydraulics, rear, two-lever		✓
Four-valve hydraulics, front and rear, joystick		✓
Standard hydraulic lines		✓
Quick coupler hydraulic lines		✓

<sup>\*</sup>Buckets and other work tool attachments from the 953K model, and select buckets and work tool attachments from the 953D model, are compatible with the 953. Bucket and attachment offerings may vary. Please consult your Cat dealer for compatibility information and availability.

	Standard	Optional
MAINTENANCE		
Standard lubricant		✓
Bio lubricant		✓
Cat extended life coolant	✓	
Service package		✓
Extended service package – manual hydraulic system enabling cab tilt and lock at 30 degrees safely in the field, shovel holder bracket (shovel not included)	<b>√</b>	
High speed oil change		✓
Ecology drains on hydraulic oil tank	✓	
Oil sampling valves	✓	
Cat XT hoses	✓	
HYDO Advanced 10	✓	
Implement oil return filter in hydraulic tank	✓	
REAR ATTACHMENTS		
Bumper	✓	
FUEL TANK		
Fuel tank	✓	
Fast Fill fuel tank		✓
Fuel tank refilling pump		✓
Sediment hand pump		✓
OTHER EQUIPMENT		
Access package		✓
Jacket water heater (110 V)		✓
Jacket water heater (240 V)		✓
Fusion Quick Coupler		✓
TECHNOLOGY PRODUCTS		
Product Link Ready	✓	
Product Link – Satellite		✓
Product Link – Dual Satellite and Cellular		✓
No Product Link		✓

# 953 Track Loader Partial Steel Mill

Track loaders provide a rugged, agile option for steel mill and other high temperature work. Specialized features are available from the factory to equip your track loader to perform in these especially harsh conditions.

#### **High Temperature Undercarriage**

- Purpose-built undercarriage includes high temperature seals in rollers, idlers, pivot shafts and final drives.
- Steel bar welded on the bottom of the track roller frame helps prevent heat distortion.
- Duo-cone™ seal guards on the final drives.
- Optional track roller guard protects against abrasion.

#### **Steel Mill Cab**

- Various heat shields inside lower doors, underneath the operator station, around air ducts and air conditioning lines.
- · Heat resistant floor mat.
- Double laminated windshield 18 mm/0.7 in thick.
- Front windshield grill and thermal net against slag projections.
- · Cab windows silicone sealed.
- Cab door glazing designed to protect windows against slag splatter from tracks.
- Additional metallic roof protection.
- Eight wide flood lights (four front, two rear, two sides) heat resistant, equipped with silicone sleeves.
- · Metallic door handles and roof act as a heat shield.
- Air conditioning vents on both sides of operator seat post.

#### Additional Protective Features

- · Fire retardant oil.
- · Heavy-duty front and rear machine guards.
- Sealed track link with no lubrication fluid.
- Double grouser or triple grouser shoes.
- · Slag bucket.



#### **Important Notice:**

This package DOES NOT feature all the other modifications required to allow the machine to run on hot slag. Examples: steel fuel tank, heat insulation for harnesses, hydraulic hoses, water, heater and air lines as well as heat shields for the tanks.

Please consult with your Cat dealer regarding Steel Mill package availability.

## 953 Track Loader – Partial Steel Mill Specifications

Engine		
Engine	Cat C7.1	
Emissions	0.5. 2111	Tier 4 Final/ //Japan 2014/ 4 Final
Build Number	12A	
Net Power (1,800 rpm)		
ISO 9249/SAE J1349	119 kW	160 hp
ISO 9249/SAE J1349 (DIN)	162 mhp	
Engine Power (1,800 rpm)		
ISO 14396	129 kW	173 hp
ISO 14396 (DIN)	175 mhp	
Bore	105 mm	4.1 in
Stroke	135 mm	5.3 in
Displacement	7.01 L	427.8 in <sup>3</sup>

- Net power advertised is the power available at the engine flywheel
  when the engine is equipped with a fan, air cleaner, clean emissions
  module and alternator.
- Advertised power is tested per the specified standard in effect at the time of manufacture.
- Inline six-cylinder diesel engine with single turbo, charged with ATAAC and engine mounted aftertreatment.
- No derating required up to 3000 m (9,842 ft) altitude.
- All non-road Tier 4 Interim and Final, Stage IIIB, IV and V, Japan 2014 (Tier 4 Final) and Korea Tier 4 Final diesel engines are required to use only Ultra Low Sulfur Diesel (ULSD) fuels containing 15 ppm EPA/10 ppm EU (mg/kg) sulfur or less. Biodiesel blends up to B20 (20% blend by volume) are acceptable when blended with 15 ppm (mg/kg) sulfur or less ULSD. B20 should meet ASTM D7467 specification (biodiesel blend stock should meet Cat biodiesel spec, ASTM D6751 or EN 14214). Cat DEO-ULS™ or oils that meet the Cat ECF-3, API CJ-4, API CK-4 and/or ACEA E9 specification are required. Consult your OMM for further machine specific fuel recommendations.
- Diesel Exhaust Fluid (DEF) used in Cat Selective Catalytic Reduction (SCR) systems must meet the requirements outlined in the International Organization for Standardization (ISO) standard 22241.

#### **Air Conditioning**

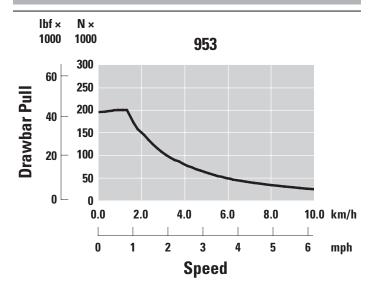
The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.1 kg of refrigerant which has a  $CO_2$  equivalent of 1.573 metric tons.

Drive System	
Description	Electronically controlled Hydrostatic drive with two variable displacement bent axis motors and two variable displacement slipper-type axial piston pumps
Travel Speed	Infinite variable speed from 0 to 10 km/h (0 to 6.2 mph)
Relief Valve Setting	47 500 kPa 6,890 psi

Implement System		
Description	Load sensing displacement	
Maximum Continuous Flow (1,800 rpm)	155 L/min	41 gal/min
Maximum Pressure	28 000 kPa	4,061 psi
Filter System	Implement re	turn filter

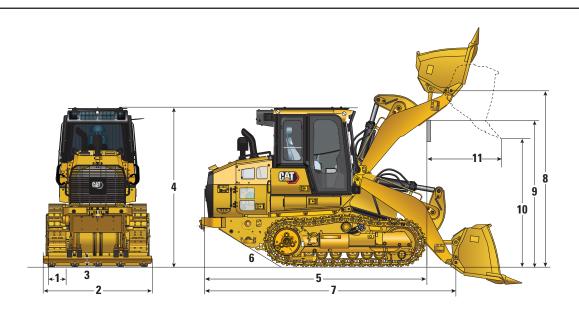
Service Refill Capacities		
Fuel Tank	265 L	70 gal
DEF Tank	16 L	4.2 gal
Cooling System	32 L	8.5 gal
Crankcase (with filter)	16.5 L	4.5 gal
Final Drives (each)	10.8 L	2.8 gal
Hydraulic Tank	70 L	18.5 gal
Pivot Shaft	0.7 L	0.18 gal

#### **Drawbar Pull**



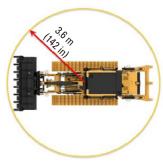
## 953 Track Loader – Partial Steel Mill Specifications

#### **Weights and Dimensions**



Construction configuration shown.

	Partial S	Partial Steel Mill	
Operating Weight <sup>1</sup>	17 210 kg	37,942 lb	
Shipping Weight	13 283 kg	29,284 lb	
1 Track Shoe Width			
Double Grouser	380 mm	15.0 in	
Track Rollers – Each Side		6	
Number of Shoes – Each Side	3	37	
Track on Ground	2286 mm	90.0 in	
Ground Pressure			
380 mm (15 in) double grouser shoes	90 kPa	13 psi	
2 Overall Machine Width with Slag Bucket	2416 mm	95.1 in	
<b>3</b> Ground Clearance	413 mm	16.3 in	
4 Machine Height to Top of Cab	3216 mm	126.6 in	
<b>5</b> Machine Length to Front of Tracks	4520 mm	177.9 in	
6 Ramp Angle	2	9°	
7 Overall Machine Length with Slag Bucket	6602 mm	259.9 in	
8 Hinge Pin Height at Maximum Lift	3608 mm	142.1 in	
9 Lift Arm Clearance at Maximum Lift	3005 mm	118.3 in	
<b>10</b> Dump Clearance at Maximum Lift and 45° Discharge	2752 mm	108.3 in	
11 Reach at Maximum Lift and 45° Discharge	1167 mm	45.9 in	
Turning Radius	3.8 m	149.6 in	



<sup>&</sup>lt;sup>1</sup>Operating weight: machine with partial steel mill package, Slag bucket with teeth and segments, lubricants, 100% fuel tank and 75 kg (165 lb) operator. Bucket and attachment offerings may vary. Please consult your Cat dealer for availability.

## 953 Track Loader – Partial Steel Mill Specifications

Buckets		
Pin-On Buckets – Standard Linkage	Slag Bucket	
Cutting Edge Type	Long teeth and segment	
Bucket Weight	2502 kg	5,515 lb
Bucket Width	2416 mm	95.1 in
Rated Capacity at 100% Fill Factor <sup>1</sup>	$1.6 \text{ m}^3$	2.1 yd³
Rated Operating Capacity <sup>2</sup>	3344 kg	7,373 lb
Static Tipping Load <sup>3</sup>	9555 kg	21,066 lb
Breakout Force	116 605 N	26,214 lbf

<sup>&</sup>lt;sup>1</sup>Volumetric bucket capacity as per ISO 7546:1983.

#### **Standards**

#### ROPS/FOPS

- ROPS (Rollover Protective Structure) offered by Caterpillar for the machine meets ROPS criteria ISO 3471:2008.
- FOPS (Falling Object Protective Structure) meets ISO 3449:2005 Level II.

#### **Brakes**

• Brakes meet the standard ISO 10265:2008.

#### **Sound and Vibration Information**

• The declared dynamic operator sound pressure level when "ISO 6396:2008" is used to measure the value for an enclosed cab. The measurements were conducted at 70% of the maximum engine cooling fan speed. The sound level may vary at different engine cooling fan speeds. The cab was properly installed and maintained. The measurements were conducted with the cab doors and the cab windows closed. NOTE: The dynamic operator sound pressure level uncertainty is  $\pm 2 \, \mathrm{dB}(A)$ .

#### 953 - 74 dB(A)

- Hearing protection may be needed when the machine is operated with an open operator station for extended periods, in a noisy environment or with a cab that is not properly maintained.
- Sound Level Information for Machines in European Union Countries and in Countries that Adopt the "EU Directives": If equipped, the certification label is used to verify the environmental sound certification of the machine to the requirements of the European Union. The value that is listed on the label indicates the guaranteed exterior sound power level (LWA) at the time of manufacture for the conditions that are specified in "2000/14/EC."

#### 953 - 109 dB(A)

<sup>&</sup>lt;sup>2</sup>Rated Operating Capacity should be considered with 35% Static Tipping Load as required by ISO 14397-1:2007.

<sup>&</sup>lt;sup>3</sup>Machine equipped with standard and additional counterweights.

## 953 Partial Steel Mill Standard and Optional Equipment

#### **Standard and Optional Equipment**

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional
OWER TRAIN		
Cat C7.1 diesel engine, turbocharged with Air-To-Air After Cooler (ATAAC)	✓	
Engine-mounted aftertreatment to meet U.S. EPA Tier 4 Final, EU Stage V, Japan 2014, Korea Tier 4 Final emission standards	<b>√</b>	
Modular cooling system for engine air intake, oil and water	✓	
Hydraulic demand fan – electronically controlled, temperature sensing	✓	
Hydraulic fan, reversing	✓	
Electro Hydrostatic Control (EHC) for transmission	✓	
Engine idle shutdown	✓	
Auto engine speed control	✓	
Electric fuel pump	✓	
Water separator	✓	
Glow plug starting aid	✓	
Engine air cleaner		✓
Engine air precleaner	✓	
INDERCARRIAGE		
Heavy duty and Sealed tracks (no lubrication) 380 mm (15 in) double grouser shoes		✓
Oscillating track roller frames	✓	
Track guiding guards, end section	✓	
Hydraulic track adjuster	✓	
Sprocket rims with replaceable bolt-on tough steel segments	<b>√</b>	
Sprocket guards	✓	
Six track rollers per side, with one carrier roller, lifetime lubricated	<b>√</b>	
Idlers, conventional type, lifetime lubricated	<b>√</b>	

	Standard	Optiona
LECTRICAL		
Ground Level Service Center	✓	
24 volt heavy-duty alternator	✓	
Backup alarm	✓	
Two horns	✓	
Two heavy-duty batteries, high output, maintenance free, 900 CCA	✓	
Main disconnect switch	✓	
Electric starter (heavy-duty, 24 volt)	✓	
LED flashing beacon		✓
PERATOR ENVIRONMENT		
Steel mill cab – pressurized, sound suppressed, ROPS/FOPS cab, with silicone sealed glass and heavy-duty laminated windshield glass	✓	
Deluxe high back seat – heated, with adjustable shock control		✓
Premium Plus high back seat – heated and cooled, lockable side-side isolator		✓
Adjustable armrests	✓	
Electro Hydraulic, seat mounted control levers with faster processing	✓	
V-pattern and pedal steering controls		✓
Joystick steering controls		✓
Joystick implement control		✓
Two-lever implement control		✓
Seat belt, retractable, with buckling indicator on dash	✓	
Four-point restraint ready seat	✓	
Air conditioning and heating	-/	

## 953 Partial Steel Mill Standard and Optional Equipment

#### Standard and Optional Equipment (continued)

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional
OPERATOR ENVIRONMENT (continued)		
Heater/defroster with automatic temperature control and automatic blower control	✓	
Rearview mirror, inside, adjustable	✓	
Radio ready. Includes speakers, antenna and 24 V power outlet and 5 V USB port	✓	
Radio – FM Ready Kit		✓
Radio – Bluetooth & Aux & Mic		✓
Parking brake switch and "brake-on" indicator light	✓	
Implement lock-out switch	✓	
High Definition rearview camera	✓	
254 mm (10 in) color touchscreen display with integrated rear camera display and machine slope indicator	✓	
Three selectable working modes (Auto, Power, Eco)	✓	
Operator programmable lift and tilt kickouts	✓	
Machine Pitch and Roll indicate	✓	
Bucket shake	✓	
Remote services (Troubleshoot/Remote Flash)		✓
Heavy-duty rubber floor mat	✓	
Windshield washers and silicone wipers, multiple speed, front and rear	✓	
Durable metal roof	✓	
Coat hook	✓	
Storage compartments under left armrest	✓	
Document holder on right console	✓	

	Standard	Optional
OTHER STANDARD EQUIPMENT		
Durable metal fender	✓	
Exterior sound suppression	✓	
Load sensing implement pump with variable displacement	✓	
Z-bar loader linkage	✓	
Implement cylinders with sensors	✓	
Engine enclosure with lockable doors	✓	
Debris resistant radiator core (six fins-per-inch)	✓	
Hinged radiator guard and swing out fan	✓	
4 × 2 easy tie-down points on chassis	✓	
GUARDING		
Windshield guard with metallic screen	✓	
Full bottom guards	✓	
Idler guard		✓
Front light guard		✓
Track roller guard		✓

## 953 Partial Steel Mill Standard and Optional Equipment

#### Standard and Optional Equipment (continued)

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional
BUCKETS*		
Slag bucket – 1.6 m³ (2.1 yd³)		✓
HYDRAULICS		
Two-valve hydraulics, two-lever		✓
Two-valve hydraulics, joystick		✓
Standard hydraulic lines	✓	
MAINTENANCE		
Standard lubricant		✓
Bio lubricant		✓
Ecosafe lubricant (steel mill)	✓	
Cat extended life coolant	✓	
Extended service package – manual hydraulic system enabling cab tilt and lock at 30 degrees safely in the field, shovel holder bracket (shovel not included)	<b>√</b>	
High speed oil change		✓
Ecology drains on hydraulic oil tank	✓	
Oil sampling valves	✓	
Cat XT hoses	✓	
Ecosafe hydraulic oil	✓	
Implement oil return filter in hydraulic tank	✓	

<sup>\*</sup>Buckets and other work tool attachments from the 953K model, and select buckets and work tool attachments from the 953D model, are compatible with the 953. Bucket and attachment offerings may vary. Please consult your Cat dealer for compatibility information and availability

	Standard	Optional
REAR ATTACHMENTS		
Bumper		✓
Striker bars		✓
<b>FUEL TANK</b>		
Fuel tank	✓	
Fast Fill fuel tank		✓
Sediment hand pump		✓
OTHER EQUIPMENT		
Access package		✓
TECHNOLOGY PRODUCTS		
Product Link Ready	✓	
Product Link – Satellite		✓
Product Link – Dual Satellite and Cellular		✓
No Product Link		✓
COUNTERWEIGHTS		
Light counterweight 240 kg (529 lb)		✓
Light counterweight, additional 200 kg (440 lb)		<b>√</b>

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