



Technical Specifications

Engine					
Engine Model	Cat® C9.3				
Maximum Gross Power (1,800 rpm)					
SAE J1995	251 kW (341 hp metric)				
Maximum Power (1,800 rpm)					
ISO 14396	247 kW (336 hp metric)				
Maximum Net Power (1,700 rpm)					
ISO 9249	223 kW (303 hp metric)				
Peak Gross Torque (1,200 rpm)					
SAE J1995	1728 N·m				
Peak Torque (1,200 rpm)					
ISO 14396	1710 N·m				
Maximum Net Torque (1,000 rpm)					
ISO 9249	1654 N·m				
Bore	115 mm				
Stroke	149 mm				
Displacement	9.3 L				
· Masta aith an EU Stage V an EU Stage	TV/*				

Meets either EU Stage V or EU Stage IV* emission standards.
 *Stage IV engines comply with the transition provisions of the EU non-road emission regulation

- The power ratings apply at the stated speed when tested under the reference conditions for the specified standards.
- The net power advertised is the power available at the flywheel when the engine is equipped with fan, alternator, air cleaner and aftertreatment.
- The gross power advertised is with the fan at maximum speed.

Buckets

Bucket Capacities

3.20-9.94 m³

24 900 kg

Weight

Operating Weight

• Weight based on a machine configuration with Michelin 26.5R25 XHA2 L3 radial tires, full fluids, operator, standard counterweight, cold start, roading fenders, Product Link[™], manual diff lock/open axles (front/rear), power train guard, secondary steering, sound suppression and a 4.2 m' general purpose bucket with bolt-on cutting edges.

Operating Specifications

Static Tipping Load – Full 37° Turn					
With Tire Deflection	16 164 kg				
No Tire Deflection	17 421 kg				
Breakout Force	196 kN				

• For a machine configuration as defined under "Weight."

• Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

Transmission

Forward 1	6.7 km/h
Forward 2	13.1 km/h
Forward 3	23.2 km/h
Forward 4	39.5 km/h
Reverse 1	7.6 km/h
Reverse 2	15.0 km/h
Reverse 3	26.5 km/h
Reverse 4	39.5 km/h

• Maximum travel speed in standard vehicle with empty bucket and standard L3 tires with 826 mm roll radius.



Brakes	
Brakes	Brakes meet ISO 3450:2011 standards
Hydraulic System	
Implement Pump Type	Variable Displacement Piston
Implement System	
Maximum Pump Output (2,200 rpm)	360 L/min
Maximum Operating Pressure	31 000 kPa
Maximum Flow – Optional 3 rd /4 th Function	240 L/min
Maximum Pressure – Optional 3 rd /4 th Function	21 780 kPa
Hydraulic Cycle Time with Rated Payload	
Raise from Carry Position	6.1 Sec.
Dump, at Maximum Raise	1.5 Sec.
Lower, Empty, Float Down	3.1 Sec.
Total	10.7 Sec.
Axles	
Front	Fixed
Rear	Oscillating ±13 degrees
Maximum Single-Wheel Rise and Fall	502 mm

Cab

ROPS/FOPS

ROPS/FOPS meet ISO 3471:2008 and ISO 3449:2005 Level II standards

Sound

The sound values indicated below are for specific operating conditions only. Machine and operator sound levels will vary at different engine and/or cooling fan speeds. Hearing protection may be needed when the machine is operated with a cabin that is not properly maintained, or when the doors and/or windows are open for extended periods or in a noisy environment.

Operator Sound Pressure Level (ISO 6396:2008)	69 dB(A)*
Exterior Sound Power Level (ISO 6395:2008) European Union Directive "2000/14/EC" as amended by "2005/88/EC"	108 dB(A)*
Exterior Sound Pressure Level (SAE J88:2013)	76 dB(A)**

*For a standard machine configuration, measured according to the procedures specified with the cooling fan speed set at 70% of maximum value.

**For a standard machine configuration, measured according to the procedures specified. The measurement was conducted under the following conditions: distance of 15 m, moving forward in second gear ratio with the cooling fan speed set at maximum value.

Service Refill Capacities

-	
Fuel Tank	302 L
DEF Tank*	16.8 L
Cooling System	71.6 L
Crankcase	24.5 L
Transmission	58.5 L
Differentials and Final Drives – Front	57 L
Differentials and Final Drives – Rear	57 L
Hydraulic Tank	125 L

*DEF must meet the requirements outlined in ISO 22241-1.

Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.6 kg of refrigerant which has a CO_2 equivalent 2.288 metric tonne.

Dimensions

All dimensions are approximate.



	Standard Lift	High Lift
1 Height to Axle Centerline	799 mm	799 mm
2 Height to Top of Hood	2818 mm	2818 mm
3 Height to Top of Exhaust Pipe	3522 mm	3522 mm
4 Height to Top of ROPS	3587 mm	3587 mm
5 Height to Top of Product Link Antenna	3636 mm	3636 mm
6 Height to Top of Warning Beacon	3859 mm	3859 mm
7 Ground Clearance	434 mm	434 mm
8 Center Line of Rear Axle to Edge of Counterweight	2500 mm	2500 mm
9 Center Line of Rear Axle to Hitch	1775 mm	1775 mm
10 Wheelbase	3550 mm	3550 mm
11 Overall Length (without bucket)	7774 mm	8109 mm
12 Shipping Length (with bucket level on ground)*†	9315 mm	9650 mm
13 Hinge Pin Height at Carry Height	680 mm	778 mm
14 Hinge Pin Height at Max Lift	4458 mm	4793 mm
15 Lift Arm Clearance at Max Lift	3843 mm	4140 mm
16 Dump Clearance at Max Lift and 45° Discharge*†	3154 mm	3490 mm
17 Reach at Max Lift and 45° Discharge*†	1357 mm	1380 mm
18 Dump Angle at Max Lift and Dump (on stops)*	48 degrees	48 degrees
19 Rack Back at Max Lift*	56 degrees	71 degrees
20 Rack Back at Carry Height*	50 degrees	49 degrees
21 Rack Back at Ground*	41 degrees	39 degrees
22 Turning Radius to Counterweight	6804 mm	6804 mm
23 Turning Radius to Outside of Tires	6761 mm	6761 mm
24 Turning Radius to Inside of Tires	3853 mm	3853 mm
25 Max Width over Tires (unloaded)	2991 mm	2991 mm
Max Width over Tires (loaded)	3009 mm	3009 mm
26 Tread Width	2230 mm	2230 mm

*Standard and High Lift are with 4.8 m³ general purpose pin-on bucket with bolt-on cutting edges (see Operating Specifications for other buckets).

†Dimensions are listed in Operating Specification charts.

All height and tire related dimensions are with Michelin 26.5R25 XHA2 L3 tires (see Dimension changes – Tires Chart for other tires). "Width over Tires" dimensions are over the bulge and include growth.

Dimension Changes – Tires

Tire Brand	Michelin	Michelin	Michelin	Bridgestone	Bridgestone
Tire Size	26.5R25	26.5R25	26.5R25	26.5R25	26.5R25
Tread Type	L-4	L-5	L-5	L-3	L-4
Tread Pattern	XLDD1	XLDD2	XMINED2	VJT	VSNT
Width over Tires – Maximum (empty)*	2987 mm	2986 mm	2970 mm	2982 mm	2973 mm
Width over Tires – Maximum (loaded)*	3019 mm	3011 mm	2994 mm	3016 mm	2993 mm
Change in Vertical Dimensions (average of front and rear)	44 mm	39 mm	53 mm	15 mm	25 mm
Change in Horizontal Reach	-36 mm	-34 mm	-32 mm	-3 mm	-24 mm
Change in Clearance Circle (radius) to Outside of Tires	5 mm	1 mm	-7 mm	3 mm	8 mm
Change in Clearance Circle (radius) to Inside of Tires	-5 mm	-1 mm	7 mm	-3 mm	8 mm
Change in Operating Weight (without Ballast)	420 kg	716 kg	1068 kg	164 kg	624 kg
Change in Static Tipping Load – Straight	283 kg	482 kg	719 kg	110 kg	420 kg
Change in Static Tipping Load – Articulated	252 kg	429 kg	640 kg	98 kg	374 kg

Dimension Changes – Tires

Tire Brand	Bridgestone	Bridgestone	Flexport™	Flexport
Tire Size	26.5R25	775/65R29	70×14×28 (26.5×25)	70×14×28 (26.5×25)
Tread Type	L-5	L-3	_	_
Tread Pattern	VSDL	VTS	OTR	SMOOTH
Width over Tires – Maximum (empty)*	2874 mm	3080 mm	2955 mm	2896 mm
Width over Tires – Maximum (loaded)*	2900 mm	3101 mm	2972 mm	2915 mm
Change in Vertical Dimensions (average of front and rear)	50 mm	17 mm	59 mm	52 mm
Change in Horizontal Reach	-29 mm	-5 mm	-23 mm	-13 mm
Change in Clearance Circle (radius) to Outside of Tires	-54 mm	46 mm	-19 mm	-47 mm
Change in Clearance Circle (radius) to Inside of Tires	54 mm	-46 mm	19 mm	47 mm
Change in Operating Weight (without Ballast)	1136 kg	856 kg	3287 kg	3764 kg
Change in Static Tipping Load – Straight	764 kg	576 kg	2212 kg	2533 kg
Change in Static Tipping Load – Articulated	680 kg	513 kg	1969 kg	2255 kg

*Width over bulge and includes tire growth.

Note: Changes compared to:

- Michelin 26.5R25 XHA2 L3 radial tires.

Bucket Fill Factors and Selection Chart

The bucket size must be chosen based on the density of the material and on the expected fill factor. The Cat Performance Series Buckets with longer floor, larger bucket opening, increased repository angle, rounded side boards and integrated spill guard, demonstrate fill factors significantly higher than previous generation or non Cat buckets. The actual volume handled by the machine is thus often larger than the rated capacity.

Loose Material		Material Density	Fill Factor (%)*
Earth/Clay		1500-1700 kg/m ³	115
Sand and Gravel		1500-1700 kg/m ³	115
Aggregate: 25-76 mm		1600-1700 kg/m ³	110
	19 mm and smaller	1800 kg/m³	105
Rock:	76 mm and larger	1600 kg/m ³	100

*As a % of ISO 7546 rated capacity.

Note: Fill Factors achieved will also depend on whether the product is washed or not washed.

	Mat	erial Density	kg/m³	700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400 2500		
		Rock	4.00 m ³	4.60 m ³ 4.00 m ³		
			4.60 m ³	5.29 m ³ 4.60 m ³		
		Material Handling	4.80 m ³	5.52 m ³ 4.80 m ³		
	Pin-On		5.00 m ³	5.75 m ³ 5.00 m ³		
Linkage			4.60 m ³	5.29 m ³ 4.60 m ³		
Standard Linkage		Material Handling/ Heavy Duty	4.80 m ³	5.52 m ³ 4.80 m ³		
			5.00 m ³	5.75 m ³ 5.00 m ³		
	Quick Coupler	Material Handling/	4.60 m ³	5.29 m ³ 4.60 m ³		
			4.80 m ³	5.52 m ³ 4.80 m ³		
	a		5.00 m ³	5.75 m ³ 5.00 m ³		
Package			5.00 m ³	5.75 m ³ 5.00 m ³		
Aggregate Handler Package	Pin-On	Material Handling	5.20 m ³	5.98 m ³ 5.20 m ³		
Aggregat			5.40 m ³	6.21 m ³ 5.40 m ³		
	Material Density					
	Bucket Fill Factors 115% 110% 105% 100% 95%					

Note: All buckets are showing Bolt-On Edges.

Bucket Fill Factors and Selection Chart

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Earth/Clay		1500-1700 kg/m ³	115
Sand and Gravel		1500-1700 kg/m ³	115
Aggregate:	25-76 mm	1600-1700 kg/m ³	110
	19 mm and smaller	1800 kg/m³	105
Rock:	76 mm and larger	1600 kg/m ³	100

*As a % of ISO 7546 rated capacity.

Note: Fill Factors achieved will also depend on whether the product is washed or not washed.

	Mat	erial Density	kg/m³	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
			4.80 m ³							5.52 m	n ³		4.8) m ³ 								
		Material Handling	5.00 m ³						5.7	 75 m³		• •	5.00 m ³									
			5.20 m ³						 5.98 m ³			5.20 m	β									
	Pin-On		4.60 m ³								5.29 m ³			4.60 m ³								
kage		Material Handling/ Heavy Duty	4.80 m ³							5.52 m	3	1	4.80	m ³								
High Lift Linkage			5.00 m ³						5.75	5 m ³		5.	00 m ³									
Ξ			5.20 m ³						5.98 m ³	1		5.20 m ³										
			4.60 m ³							5.29	m ³		4.6	0 m ³								
	Quick Coupler	Material Handling	4.80 m ³						5.	52 m ³			4.80 m ³									
	Quick	mining	5.00 m ³						5.75 m ³	ļ.		5.00 m	3									
			5.20 m ³					5.	.98 m³		5.2	0 m ³										
	Mat	erial Density																				
		ket Fill Factors 0% 105% 100% 95%																				

Note: All buckets are showing Bolt-On Edges.

Operating Specifications with Buckets

Pin/Quick Coupler								linkade
			Pin-	On		Fusion™ QC	Universal QC Material Handling	 Linkage Change**
Bucket Type			Mate Hand			Material Handling		
Edge Type		Bolt-On Cutting Edges	Bolt-On Teeth and Cutting Segments Edges		Teeth and Segments	Bolt-On Cutting Edges	Bolt-On Cutting Edges	
Capacity – Rated	m ³	4.80	4.80	5.00	5.00	4.60	4.60	
Capacity – Rated at 110% Fill Factor	m ³	5.28	5.28	5.50	5.50	5.06	5.06	_
Width n	nm	3220	3271	3220	3271	3220	3220	_
6† Dump Clearance at Maximum Lift and 45° Discharge	nm	3099	2936	3070	2908	3069	2954	336
7 [†] Reach at Maximum Lift and 45° Discharge n	nm	1272	1399	1300	1427	1301	1507	23
Reach at Level Lift Arm and Bucket Level n	nm	3009	3214	3049	3254	3050	3277	274
A† Digging Depth n	nm	103	103	103	103	103	39	-5
2 ⁺ Shipping Length (with Bucket) n	nm	9310	9534	9350	9574	9351	9529	338
B ⁺ Overall Height with Bucket at Maximum Lift n	nm	6193	6193	6223	6223	6199	6439	336
Loader Clearance Circle Radius with Bucket at Carry Position	nm	7607	7696	7618	7707	7616	7666	169
Static Tipping Load, Straight (With Tire Deflection)*	kg	18 380	18 196	18 306	18 121	17 763	16 413	-1598
Static Tipping Load, Straight (No Tire Deflection)*	kg	19 613	19 425	19 545	19 357	18 970	17 566	-1763
Static Tipping Load, Articulated (With Tire Deflection)*	kg	16 050	15 864	15 977	15 790	15 463	14 230	-1429
Static Tipping Load, Articulated (No Tire Deflection)*	kg	17 288	17 101	17 222	17 034	16 679	15 398	-1608
Breakout Force***	κN	196	195	191	189	191	160	-7
Operating Weight*	kg	24 977	25 114	25 026	25 164	25 409	25 690	85

*Static tipping loads and operating weights are based on a machine configuration with Michelin 26.5R25 XHA2 L3 radial tires, full fluids, operator, standard counterweight, cold start, roading fenders, Product Link, manual diff lock/open axles (front/rear), power train guard, secondary steering and sound suppression. **Maximum values.

***Measure 102 mm behind tip of cutting edge with bucket hinge pin as pivot in accordance with SAE J732C. Specifications and ratings confirm to all applicable standards recommended by the Society of Automotive Engineers, including SAE Standard J732C governing loader ratings.

(With Tire Deflection) Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

(No Tire Deflection) Compliance to ISO 14397-1:2007 Sections 1 thru 5.

†Illustration shown with Dimension charts.

QC = Quick Coupler

Additional buckets are available and offerings vary by region. Consult your local Cat dealer for further details.

Operating Specifications with Buckets

Machine			Si	tandard Linka	ge		High Lift
Pin/Quick Coupler				Pin-On			Linkage Change**
Bucket Type				Handling y Duty		Rock (V-Edge) ****	Ū
Edge Type		Bolt-On Cutting Edges	FMT	Bolt-On Cutting Edges	FMT	Teeth and Segments	
Capacity – Rated	m ³	4.80	4.80	5.00	4.97	4.00	
Capacity – Rated at 110% Fill Factor	m ³	5.28	5.28	5.50	5.47	4.40	
Width	mm	3220	3294	3220	3294	3350	
6 ⁺ Dump Clearance at Maximum Lift and 45° Discharge	mm	3099	2933	3070	2911	3160	336
7† Reach at Maximum Lift and 45° Discharge	mm	1272	1476	1300	1497	1547	23
Reach at Level Lift Arm and Bucket Level	mm	3009	3271	3049	3301	3171	274
A† Digging Depth	mm	103	78	103	78	50	-5
2† Shipping Length (with Bucket)	mm	9310	9551	9350	9581	9472	338
B [†] Overall Height with Bucket at Maximum Lift	mm	6193	6234	6234	6265	6057	335
Loader Clearance Circle Radius with Bucket at Carry Position	mm	7607	7703	7618	7711	7726	170
Static Tipping Load, Straight (With Tire Deflection)*	kg	18 233	17 921	18 151	17 857	18 317	-1583
Static Tipping Load, Straight (No Tire Deflection)*	kg	19 464	19 161	19 388	19 101	19 562	-1747
Static Tipping Load, Articulated (With Tire Deflection)*	kg	15 901	15 570	15 820	15 507	15 920	-1416
Static Tipping Load, Articulated (No Tire Deflection)*	kg	17 139	16 820	17 065	16 761	17 177	-1593
Breakout Force***	kN	196	200	190	195	193	_7
Operating Weight*	kg	25 121	25 506	25 176	25 550	26 189	85

*Static tipping loads and operating weights are based on a machine configuration with Michelin 26.5R25 XHA2 L3 radial tires, full fluids, operator, standard counterweight, cold start, roading fenders, Product Link, manual diff lock/open axles (front/rear), power train guard, secondary steering and sound suppression.

**Maximum values.

***Measure 102 mm behind tip of cutting edge with bucket hinge pin as pivot in accordance with SAE J732C. Specifications and ratings confirm to all applicable standards recommended by the Society of Automotive Engineers, including SAE Standard J732C governing loader ratings.

****Rock bucket specifications are given on Michelin 26.5R25 XLDD2 L5 radial tires.

(With Tire Deflection) Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing. (No Tire Deflection) Compliance to ISO 14397-1:2007 Sections 1 thru 5.

Tillustration shown with Dimension charts.

FMT = Flush Mounted Teeth

Additional buckets are available and offerings vary by region. Consult your local Cat dealer for further details.

Operating Specifications with Buckets – Aggregate Handler

Machine			Aggregate Handler***	
Pin/Quick Coupler			Pin-On	
Bucket Type			Material Handling	
Edge Type		Bolt-On Cutting Edges	Bolt-On Cutting Edges	Bolt-On Cutting Edges
Capacity – Rated	m ³	5.00	5.20	5.40
Capacity – Rated at 110% Fill Factor	m ³	5.50	5.70	5.90
Width	mm	3230	3230	3230
16 [†] Dump Clearance at Maximum Lift and 45° Discharge	mm	3092	3049	3021
17† Reach at Maximum Lift and 45° Discharge	mm	1272	1314	1343
Reach at Level Lift Arm and Bucket Level	mm	3014	3074	3114
A† Digging Depth	mm	108	108	108
12† Shipping Length (with Bucket)	mm	9005	9065	9105
B [†] Overall Height with Bucket at Maximum Lift	mm	6234	6265	6306
Loader Clearance Circle Radius with Bucket at Carry Position	mm	7615	7631	7642
Static Tipping Load, Straight (With Tire Deflection)*	kg	19 368	19 309	19 227
Static Tipping Load, Straight (No Tire Deflection)*	kg	20 712	20 659	20 583
Static Tipping Load, Articulated (With Tire Deflection)*	kg	16 857	16 799	16 718
Static Tipping Load, Articulated (No Tire Deflection)*	kg	18 214	18 161	18 087
Breakout Force**	kN	191	186	181
Operating Weight*	kg	25 715	25 755	25 809

*Static tipping loads and operating weights are based on a machine configuration with Michelin 26.5R25 XHA2 L3 radial tires, full fluids, operator, standard counterweight, cold start, roading fenders, Product Link, manual diff lock/open axles (front/rear), power train guard, secondary steering and sound suppression.

**Measure 102 mm behind tip of cutting edge with bucket hinge pin as pivot in accordance with SAE J732C. Specifications and ratings confirm to all applicable standards recommended by the Society of Automotive Engineers, including SAE Standard J732C governing loader ratings.

***Aggregate Handler Configurations are NOT compatible with L5 Tires, Teeth, Teeth and Segments, and Spade Nose Rock Bucket.

(With Tire Deflection) Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

(No Tire Deflection) Compliance to ISO 14397-1:2007 Sections 1 thru 5.

†Illustration shown with Dimension charts.

Additional buckets are available and offerings vary by region. Consult your local Cat dealer for further details.

Operating Specifications with High Dump Buckets



Machine		A	ggregate Han	dler
Interface		Pin-On	Fusion QC	Universal QC
Edge Type		Bolt-On Cutting Edges	Bolt-On Cutting Edges	Bolt-On Cutting Edges
Capacity – Rated	m ³	11.10	11.10	11.10
Capacity – Rated at 110% Fill Factor	m ³	12.20	12.20	12.20
Width	mm	3656	3656	3656
Nominal Material Density – 110% Fill Factor	kg/m³	670	650	610
1 Dump Clearance at Maximum Lift, Maximum Rack, Bucket Rolled out to 45° Discharge	mm	4795	4811	4965
2 Clearance at Maximum Lift, Maximum Rack, Bucket Rolled out to Level	mm	5477	5494	5647
3 Reach at Maximum Lift, Maximum Rack, Bucket Rolled out to 45° Discharge	mm	1936	1947	2051
4 Reach at Level Lift Arm and Bucket Level	mm	3958	3978	4163
5 Digging Depth	mm	73	73	73
6 Overall Length	mm	9945	9965	10 150
7 Overall Height with Bucket at Maximum Height and Maximum Rack	mm	7614	7631	7784
Clearance Circle (Radius) with Bucket at Carry Position	mm	8112	8083	8141
Static Tipping Load, Straight (With Tire Deflection)*	kg	16 513	16 065	15 214
Static Tipping Load, Straight (No Tire Deflection)*	kg	17 877	17 415	16 513
Static Tipping Load, Articulated (With Tire Deflection)*	kg	14 153	13 710	12 938
Static Tipping Load, Articulated (No Tire Deflection)*	kg	15 544	15 092	14 273
Breakout Force	kN	114	113	102
Operating Weight*	kg	27 026	27 510	27 669

*Static tipping loads and operating weights are based on a machine configuration with Michelin 23.5R25 XHA2 L3 radial tires, full fluids, operator, auxiliary counterweight, cold start, roading fenders, Product Link, manual diff lock/open axles (front/rear), power train guard, secondary steering and sound suppression. (With Tire Deflection) Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing. (No Tire Deflection) Compliance to ISO 14397-1:2007 Sections 1 thru 5.

QC = Quick Coupler

Additional high dump buckets are available and offerings vary by region. Consult your local Cat dealer for further details.

Operating Specifications with Pallet Fork



		Standard Counterweight
Interface		Fusion QC
1 Tine Length	mm	1829
2 Load Center	mm	915
3 Maximum Overall Length	mm	10 012
4 Reach with Forks at Ground Level	mm	1267
5 Ground to Top of Tine at Minimum Height and Fork Level	mm	10
6 Reach with Arms Horizontal and Forks Level	mm	1834
7 Reach with Fork at Maximum Height	mm	788
8 Ground to Top of Tine with Arms Horizontal and Fork Level	mm	1956
9 Ground to Top of Tine at Maximum Height and Fork Level	mm	4262
10 Overall Height of Fork at Full Lift (Top of Carriage to Ground)	mm	5302
11 Clearance at Full Lift and Maximum Dump	mm	2516
12 Maximum Discharge Angle from Horizontal	degrees	51
13 Overall Carriage Width	mm	2528
14 Overall Carriage Height	mm	1130
15 Outside Tine Width (Maximum Spread)	mm	2178
16 Outside Tine Width (Minimum Spread)	mm	576
Tine Width (Single Tine)	mm	180.0
Tine Thickness	mm	90.0
Tine Capacity	kg	14 800
Static Tipping Load – Straight (Forks Level)*	kg	13 012
Static Tipping Load – Articulated (Forks Level)*	kg	11 401
Rated Load (SAE J1197 – 50% FTSTL)**	kg	5701
Rated Load (CEN EN 474-3 Rough Terrain – 60% FTSTL)**	kg	6841
Rated Load (CEN EN 474-3 Firm and Level Ground – 80% FTSTL)**	kg	9121
Operating Weight*	kg	24 378

*Static tipping loads and operating weights are based on L3 Michelin XHA tires, air conditioning, ride control, power train guard, full fluids, fuel tank, coolant, lubricants, and operator.

**The rated operating load for a loader equipped with a pallet fork is determined by: SAE J1197: 50% of full turn static tipping load or hydraulic limit. CEN EN 474-3: 60% of full turn static tipping load on rough terrain or hydraulic limit. CEN EN 474-3: 80% of full turn static tipping load on firm and level ground or hydraulic limit. SAE – Society of Automotive Engineers. CEN – European Committee for Standardization. Refer to the Forks Product Bulletins for capacity load charts.

QC = Quick Coupler

Additional forks are available and offerings vary by region. Consult your local Cat dealer for further details.

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optiona
POWER TRAIN			OPERATOR ENVIRONMENT		
Axles, ecology drains	√		Air conditioner, heater, and defroster (auto temp and fan)	√	
front axle, open differential rear axle	\checkmark		Beverage holders (2) with storage compartment for cell phone/MP3 player	✓	
locks, axle oil cooler, extreme		\checkmark	Bucket/work tool function lockout	\checkmark	
	✓		Cab air filter	\checkmark	
Brakes, full hydraulic enclosed wet-disc	✓ ✓		Cab, pressurized and sound suppressed (ROPS/FOPS)	✓	
	,		Cab tie-off	\checkmark	
with Diesel Exhaust Fluid (DEF)	\checkmark		Cat seat cover, removable Coat hook (2)	✓	~
			Cover, HVAC metallic		✓
	✓		Door, remote opening system		· · · · · · · · · · · · · · · · · · ·
Stage IV emission standards	\checkmark		EH controls, SAL (single axis lever)	✓	•
	✓		lift and tilt function		
Fan, VPF (variable pitch fan), automatic and manual control		√	EH controls, joystick lift and tilt: – Additional integrated roller switches for 3 rd and 4 th functions		V
Fuel priming pump (electric)	\checkmark		EH controls, SAL 3 rd function:		✓
Fuel/water separator	\checkmark		– Additional roller switch for 4 th function		·
Parking brake, disc and caliper	\checkmark		EH parking brake	✓	
Precleaner, engine air intake	\checkmark		Ergonomic cab access ladders and	✓	
Radiator, high debris with wider fin spacing		\checkmark	handrails Filter, carbon fresh air		√
Switch, transmission neutralizer lockout	✓		Horn, electric	✓	
Torque converter, locking clutch with free wheel stator	✓		Light, two dome (cab)	· ✓	
Transmission, automatic planetary power shift $(4F/4R)$	✓		Mirrors, heated rearview external with integrated spot mirrors		~
CAT® CONNECT TECHNOLOGIES			Mirrors, rearview external with integrated spot mirrors	✓	
Rear vision camera Cat rear object detection	✓	✓	Multi-function 18 cm color touchscreen display for rear vision camera, clock and machine parameters	√	
Product Link	\checkmark	1	Post mounted membrane 16 switch keypad	✓	
		✓	Precleaner, HVAC		✓
		\checkmark	Precleaner, HVAC (RESPA)		\checkmark
Printer, Cat Production Measurement, Aggregate Autodig			Radio, AM/FM/CD/USB/MP3 Bluetooth [®]		✓
Advanced Productivity subscription		✓	Radio ready (entertainment) includes	✓	
Machine security system		✓	antenna, speakers and converter (12V, 10-amp)		
Axles, ecology drains Axles, manually actuated differential lock front axle, open differential rear axle Axles: automatic front/rear differential locks, axle oil cooler, extreme temperature seals, seal guards Brake wear indicators Brakes, full hydraulic enclosed wet-disc with Integrated Braking System (IBS) Cat Clean Emissions Module (CEM) with Diesel Exhaust Fluid (DEF) tank and pump Economy mode (selectable) Engine, Cat C9.3 – meets Stage V or Stage IV emission standards Fan, radiator, on demand Fan, VPF (variable pitch fan), automatic and manual control Fuel priming pump (electric) Fuel/water separator Parking brake, disc and caliper Precleaner, engine air intake Radiator, high debris with wider fin spacing Switch, transmission neutralizer lockout Torque converter, locking clutch with free wheel stator Transmission, automatic planetary power shift (4F/4R) AT® CONNECT TECHNOLOGIES Detect technologies: Rear vision camera Cat rear object detection Link technologies: Product Link VIMS TM Payload technologies: Cat Production Measurement 2.0 (CPM), Printer, Cat Production Measurement, Aggregate Autodig Advanced Productivity subscription			Receptacles (2), 12V	\checkmark	

(continued on next page)

Standard and Optional Equipment (continued)

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

	Standard	Optional	
PERATOR ENVIRONMENT (continued)			ELECTI
Roof, metallic		✓	Mair
Seat, cloth, air suspension	\checkmark		Rece
Seat, suede/cloth, air suspension, heated		✓	Reve
Seat, leather/cloth, air suspension,		\checkmark	Spee
heated/cooled Seat belt, 51 mm retractable,			Start
with indicator	v		Start
Seat belt, 4-point harness, with indicator		✓	Seco
Steering, EH joystick, speed sensing	✓		Spee
with force feedback			FLUIDS
Steering, EH wheel with directional		✓	Bio-c
FNR shifter and gear selector:			Prem
 Additional FNR with implement controls 			freez
Sun visor, front	✓		Prem freez
Sun visor, rear		✓	HYDRA
Viscous mounts	✓		Hose
Wet-arm wipers/washers front and rear,	✓		Hydı
intermittent front wiper			Hydı
Windows, rubber mounted		✓	Oil sa
Window, sliding (left and right sides)	✓		3 rd fu
Windows, with front guard		\checkmark	4 th fu
Windows, with heavy duty front guard		\checkmark	Rem
Windows, with full guards front,		\checkmark	Ride
rear and sides			Steer
LECTRICAL AND LIGHTING			LINKA
Alarm, back-up	\checkmark		High
Alternator, 145-amp brushed	\checkmark		Kick
Batteries (2), maintenance free	\checkmark		Quic
1,400 CCA			Z-ba
Emergency engine shutdown switch	\checkmark		START
External seat belt indicator light		✓	Cold
Ignition key: start/stop switch	√		WORK
Lighting system: four halogen work lights (cab-mounted), two halogen roading	✓		Fork
lights (with signals), two halogen rear			Fork
vision lights (hood-mounted), two rear			Fusio
LED position/stop/turn			Perfc
Work lights, four additional halogen cab-mounted or;		✓	1 0110
Work lights, two additional auxiliary front HI LED and two additional auxiliary rear LED cab-mounted, two LED work lights in the radiator grill, LED front turn signals, replacement of the standard four halogen cab mounted work lights with four LED work lights,		~	

	Standard	Optional
ELECTRICAL AND LIGHTING (continued)		
Main disconnect switch	✓	
Receptacle start (cables not included)	✓	
Reversing strobes		✓
Speed limiter – 20 km/h		\checkmark
Starter, electric, heavy duty	\checkmark	
Starting and charging system (24V)	✓	
Secondary steering	✓	
Speed limiter, adjustable	✓	
FLUIDS		
Bio-degradable oil, Cat HYDO™		✓
Premixed extended life coolant with freeze protection to -34°C	✓	
Premixed extended life coolant with freeze protection to -50°C		✓
HYDRAULICS		
Hoses, Cat XT TM	✓	
Hydraulic oil cooler (swing-out)	\checkmark	
Hydraulic system, load sensing	✓	
Oil sampling valves	✓	
3 rd function with Ride Control		✓
4 th function with Ride Control		✓
Remote diagnostic pressure taps	✓	
Ride control, 2V	✓	
Steering, load sensing	✓	
LINKAGE		
High lift		✓
Kickout, lift and tilt, automatic	✓	
Quick coupler ready		\checkmark
Z-bar, cast crosstube/tilt lever	✓	
STARTERS, BATTERIES, AND ALTERNATORS		
Cold start – 240V		✓
WORK TOOLS		
Forks, logging		~
Forks, pallet		\checkmark
Fusion quick coupler		✓
Performance Series buckets		✓
	(continued on	next page

Standard and Optional Equipment (continued)

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

	Standard	Optional		Standard	Optiona
COMPUTERIZED MONITORING SYSTEM			OTHER STANDARD AND OPTIONAL EQUIPME	NT	
With following gauges:	✓		Auto idle shutdown	✓	
			Cat Autolube System		✓
Diesel Exhaust Fluid (DEF) level			Ecology drains for engine, transmission, and hydraulics	✓	
oil, transmission oil			Ether aid ready	✓	
Fuel level			Fenders, non-metallic front with	✓	
IPUTERIZED MONITORING SYSTEM ith following gauges: Speedometer/tachometer Digital gear range indicator Diesel Exhaust Fluid (DEF) level Temperature: engine coolant, hydraulic oil, transmission oil Fuel level ith following warning indicators: Regeneration Temperature: axle oil, engine intake manifold Pressure: engine oil, fuel pressure hi/low, primary steering oil, service brake oil Battery voltage hi/low Engine air filter restriction Hydraulic oil filter restriction Hydraulic oil low Parking brake DEF low level	√		mud-flap/rear with extension		
Regeneration			Fenders, roading		\checkmark
manifold			Filters: fuel, engine air, engine oil, hydraulic oil, transmission	✓	
hi/low, primary steering oil, service			Fuel cooler	✓	
brake oil			Grease zerks	√	
Battery voltage hi/low Engine air filter restriction Hydraulic oil filter restriction Hydraulic oil low Parking brake DEF low level Transmission filter bypass			Grill, airborne debris	✓	
			Guard, power train		✓
			Guard, rear radiator grill		✓
			Hitch, drawbar with pin	✓	
			Hood, non-metallic power tilting	✓	
			Oil change, high-speed engine		✓
			Platform, window washing	✓	
			Precleaner, turbine		✓
			Precleaner, trash		\checkmark
			Precleaner rain cap	✓	
			Service centers (electrical and hydraulic)	✓	
			Sight gauges: engine coolant, hydraulic oil, and transmission oil level	√	
			Toolbox	✓	
			Vandalism protection caplocks	√	
			Wheel chocks		✓
			OTHER CONFIGURATIONS		
			Aggregate handler		✓
			Industrial and waste handler		✓
			Steel Mill		✓

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at **www.cat.com**

Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

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