988K XE

Wheel Loader

Technical Specifications

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

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988K XE Wheel Loader Specifications

Engine

Engine Model	Cat® C18	
Rated Speed	1,700 rpm	
Peak Power Speed	1,500 rpm	
Engine (ISO 14396:2002)	432 kW	580 hp
Gross (SAE J1995:2014)	439 kW	588 hp
Net Power (SAE J1349:2011)	401 kW	538 hp
Bore	145 mm	5.7 in
Stroke	183 mm	7.2 in
Displacement	18.1 L	1,105 in^3
Peak Torque (1,200 rpm) (SAE J1995:2014)	3023 N·m	2,230 lbf-ft
Torque Rise	58%	

- Meets U.S. EPA Tier 4 Final, EU Stage V, and Japan 2014 emission standards.
- Net power advertised is the power available at the flywheel when the engine is equipped with fan at minimum speed, air intake system, exhaust system, and alternator.

Transmission

Transmission Type	Cat switched reluctance electric drive	
Forward 1 (virtual)	7.0 km/h	4.3 mph
Forward 2 (virtual)	11.3 km/h	7.0 mph
Forward 3 (virtual)	22.2 km/h	13.8 mph
Forward 4 (virtual)	32.1 km/h	20.0 mph
Reverse 1 (virtual)	7.0 km/h	4.3 mph
Reverse 2 (virtual)	11.3 km/h	7.0 mph
Reverse 3 (virtual)	28.2 km/h	17.5 mph

Operating Specifications

Operating Weight	52 781 kg	116,362 lb
Rated Payload – Quarry Face	11.3 tonnes	12.5 tons
Rated Payload – Loose Material	14.5 tonnes	16.0 tons
Bucket Capacity Range	4.7-13.0 m^3	6.2-17.0 yd^3

Hydraulic System – Lift/Tilt

Lift/Tilt System – Circuit	EH-Positive Flow Control, Flow Sharing	
Lift/Tilt System Pumps	Variable displacement piston	
Maximum Flow at 1,400-1,600 rpm	580 L/min	153 gal/min
Relief Valve Setting – Lift/Tilt	32 800 kpa	4,757 psi
Lift Cylinder – Bore	210 mm	8.7 in
Lift Cylinder – Stroke	1050 mm	41.3 in
Tilt Cylinder – Bore	266 mm	8.7 in
Tilt Cylinder – Stroke	685 mm	27.0 in

Hydraulic Cycle Time

Rackback	4.5 seconds
Raise	8.0 seconds
Dump	2.2 seconds
Lower Float Down	3.5 seconds
Total Hydraulic Cycle Time	18.2 seconds

Hydraulic System – Steering

Steering System – Circuit	Pilot, load sensing	
Steering System – Pump	Variable displacement piston	
Maximum Flow @ × 1,400-1,600 rpm	270 L/min	71.3 gal/min
Steering Cut Off Pressure	30,000 kPa	4,351 psi
Total Steering Angle	86°	
Steering Cycle Time (high idle)	3.4 seconds	
Steering Cycle Time (low idle)	5.6 seconds	

Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.8 kg of refrigerant which has a CO_2 equivalent of 2.574 metric tonnes.

Axles

Front	Fixed
Rear	Trunnion
Oscillation Angle	13°

Brakes

Brakes	ISO 3450:2011

Operator Cab

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

Service Refill Capacities

Fuel Tank	555 L	147.0 gal
Cooling System (jacket water)	112 L	30.0 gal
Cooling Systems (power train)	30 L	8.0 gal
Engine Crankcase	60 L	16.0 gal
Diesel Exhaust Fluid Tank	33 L	8.7 gal
Transmission	60 L	16.0 gal
Differentials and Final Drives – front	186 L	49.0 gal
Differentials and Final Drives – rear	186 L	49.0 gal
Hydraulic System – implement/steering	475 L	126.0 gal

- All nonroad Tier 4 Final/Stage V diesel engines are required to use:
  - The machine has the flexibillity to run on either ultra-low-sulfur diesel fuel (ULSD with 15 ppm of sulfur or less).
  - Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels up to:
    - ✓ 20% biodiesel FAME (fatty acid methyl ester)*
    - ✓ 100% renewable diesel, HVO (hydrogenated vegetable oil) and GTL (gas-to-liquid) fuels

  Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.

**Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel.*

  - Cat DEO-ULS™ or oils that meet the Cat ECF-3, API CJ-4, and ACEA E9 specifications are required.
  - Only use DEF that meets ISO 22241-1 standards.

Sound Performance – Tier 4 Final/Stage V

Operator Sound Level (ISO 6396:2008)	72 dB(A)
Machine Sound Level (ISO 6395:2008)	109 dB(A)*

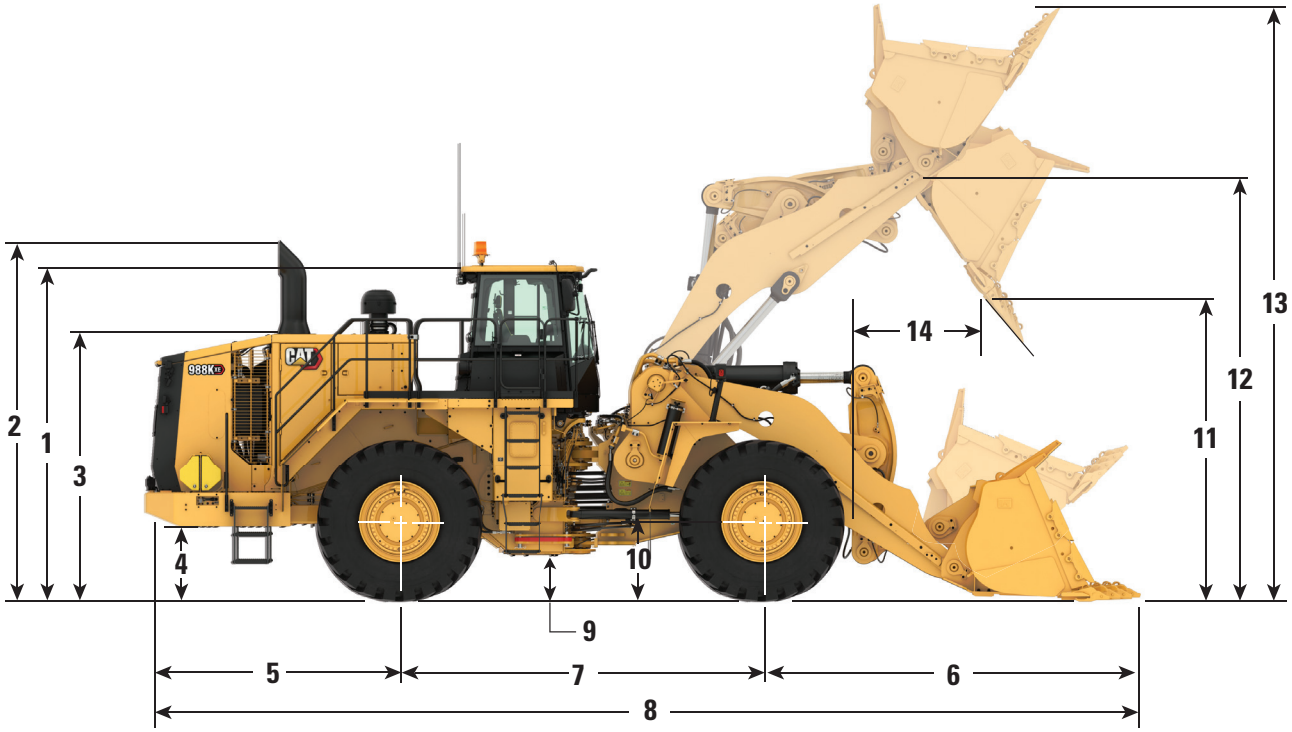
- The operator sound pressure level was measured according to the test procedures and conditions specified in ISO 6396:2008. The measurement was conducted at 70 percent of the maximum engine cooling fan speed.
- Hearing protection may be needed when the machine is operated with a cab that is not properly maintained or when the doors or windows are open for extended periods or in a noisy environment.
- The machine sound power level was measured according to the test procedures and conditions specified in ISO 6395:2008. The measurement was conducted at 70 percent of the maximum engine cooling fan speed.

  * For machines in European Union countries and in countries that adopt the European Union Directive 2000/14/EC as amended by 2005/88/EC.

988K XE Wheel Loader Specifications

Dimensions

All dimensions are approximate.



		Standard Lift		High Lift	
1	Ground to Top of ROPS	4202 mm	13.8 ft	4202 mm	13.8 ft
2	Ground to Top of Exhaust Stacks	4521 mm	14.8 ft	4521 mm	14.8 ft
3	Ground to Top of Hood	3334 mm	10.9 ft	3334 mm	10.9 ft
4	Ground to Bumper Clearance	933 mm	3.1 ft	933 mm	3.1 ft
5	Rear Axle Center Line to Bumper	3187 mm	10.5 ft	3187 mm	10.5 ft
6	Front Axle Center Line to Bucket Tip	4254 mm	14.0 ft	4661 mm	15.3 ft
7	Wheel Base	4550 mm	14.9 ft	4550 mm	14.9 ft
8	Maximum Overall Length	11 991 mm	39.3 ft	12 398 mm	40.7 ft
9	Ground to Lower Hitch Clearance	568 mm	1.9 ft	568 mm	1.9 ft
10	Ground to Center of Axles	978 mm	3.2 ft	978 mm	3.2 ft
11	Clearance at Maximum Lift (45° Dump)	3641 mm	11.9 ft	4043 mm	13.3 ft
12	B-Pin Height at Maximum Lift	5491 mm	18.0 ft	5887 mm	19.3 ft
13	Maximum Overall Height – Bucket Raised	7455 mm	24.5 ft	7849 mm	25.8 ft
14	Reach at Maximum Lift (45° Dump)	1981 mm	6.5 ft	2062 mm	6.8 ft

Note: Specifications are calculated with 6.9 m^3 (9.0 yd^3) rock bucket and Michelin XLDD2 with 978 mm (3.2 ft) centerline of rear axle height.

Bucket Capacity/Material Density Selection Guide

Standard Lift/High Lift
Rated Payload (Quarry Face) – 11.3 tonnes/12.5 tons

Material Density				Bucket Volume	
kg/m³	lb/yd³	tonnes/m³	tons/yd³	m³	yd³
1468-1614	2,500-2,750	1.47-1.61	1.25-1.38	7.6	10.00
1638-1801	2,778-3,056	1.64-1.80	1.39-1.53	6.9	9.00
1766-1942	3,001-3,300	1.77-1.94	1.50-1.65	6.4	8.33

Standard Lift/High Lift
Rated Payload (Loose Material) – 14.5 tonnes/16 tons

Material Density				Bucket Volume	
kg/m³	lb/yd³	tonnes/m³	tons/yd³	m³	yd³
1510-1667	2,560-2,816	1.51-1.67	1.28-1.41	9.6	12.5
1726-1905	2,909-3,200	1.73-1.90	1.45-1.60	8.4	11.0
1908-2105	3,200-3,520	1.91-2.11	1.60-1.76	7.6	10.0

Note: Rated Payload is the material weight in the bucket that the loader is designed to carry, excluding the weight of the bucket, GET, and wear material. Rated Payloads are published at 100 percent, even though Caterpillar does allow 110 percent. These values are given in terms of mass. There is no consideration to loose density weights of various materials since they are so diverse. Refer to the Large Wheel Loader Payload Policy.

988K XE Wheel Loader Specifications

Aggregate Package Operating Specifications – Standard Lift

		988K XE Std Lift Agg Pkg Tires: 35/65 R33 XLDD2, PN: 399-4568 SLR: 978			
Bucket Type		General Purpose			
Ground Engaging Tool		Segments			
Cutting Edge Type		Straight			
Bucket Part Number		472-0120	435-4029	347-4990	347-4980
Struck Capacity	m^3	8.0	7.0	6.0	5.5
	yd^3	10.5	9.2	7.8	7.2
Heaped Capacity (Rated)	m^3	9.6	8.4	7.6	6.9
	yd^3	12.5	11.0	10.0	9.0
Bucket Width	mm	3897	3897	3897	3897
	ft	12.8	12.8	12.8	12.8
Dump Clearance at Full Lift and 45° Discharge (Bare)	mm	3642	3741	3818	3902
	ft	11.9	12.3	12.5	12.8
Reach at Lift and 45° Discharge (Bare)	mm	1898	1787	1722	1645
	ft	6.2	5.9	5.7	5.4
Reach with Lift Arms Horizontal and Bucket Level (Teeth)	mm	3917	3768	3668	3554
	ft	12.9	12.4	12.0	11.7
Digging Depth (Segment)	mm	200	208	200	195
	in	7.9	8.2	7.9	7.7
Overall Length (Bucket Level Ground)	mm	11 965	11 822	11 716	11 598
	ft	39.3	38.8	38.4	38.1
Overall Height with Bucket at Full Raise	mm	7830	7688	7591	7487
	ft	25.7	25.2	24.9	24.6
Loader Clearance Turning Circle (SAE Carry with Teeth)	mm	17 406	17 325	17 261	17 192
	ft	57.1	56.8	56.6	56.4
Full Dump Angle	degrees	50	50	50	50
Static Tipping Load Straight (Rigid Tire)*	kg	41 081	41 549	41 949	42 351
	lb	90,567	91,600	92,481	93,367
Static Tipping Load Straight (ISO) (Tire Squash)*	kg	38 427	38 947	39 358	39 783
	lb	84,718	85,863	86,769	87,707
Static Tipping Load – Full Turn (Articulated 35°) (Rigid Tire)*	kg	36 700	37 152	37 543	37 931
	lb	80,909	81,906	82,768	83,624
Static Tipping Load – Full Turn (Articulated 35°) (ISO) (Tire Squash)*	kg	32 635	33 158	33 565	33 987
	lb	71,948	73,100	73,998	74,928
Static Tipping Load – Full Turn (Articulated 43°) (Rigid Tire)*	kg	34 573	35 017	35 404	35 786
	lb	76,220	77,200	78,053	78,894
Static Tipping Load – Full Turn (Articulated 43°) (ISO) (Tire Squash)*	kg	30 105	30 624	31 026	31 441
	lb	66,370	67,514	68,401	69,316
Breakout Force**	kN	381	413	437	468
	lb	85,649	92,746	98,315	105,297
Operating Weight	kg	55 533	55 257	54 969	54 729
	lb	122,428	121,822	121,186	120,656
Weight Distribution at SAE Carry (Unloaded)					
Front	kg	28 451	27 973	27 481	27 064
	lb	62,724	61,671	60,585	59,665
Rear	kg	27 081	27 284	27 488	27 665
	lb	59,704	60,151	60,602	60,992
Weight Distribution at SAE Carry (Loaded)					
Front	kg	51 999	51 403	50 859	50 361
	lb	114,639	113,325	112,125	111,026
Rear	kg	18 048	18 369	18 625	18 883
	lb	39,790	40,497	41,062	41,631

*Static tipping loads and operating weights include full fluids and 80 kg (176 lb) operator.
**Measured 100 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with ISO 14397-2:2007.
Full compliance to ISO 14397-1:2007.

Aggregate Package Operating Specifications – High Lift

		988K XE High Lift Agg Pkg Tires: 35/65 R33 XLDD2, PN: 399-4568 SLR: 978			
Bucket Type		General Purpose			
Ground Engaging Tool		Segments			
Cutting Edge Type		Straight			
Bucket Part Number		472-0120	435-4029	347-4990	347-4980
Struck Capacity	m^3	8.0	7.0	6.0	5.5
	yd^3	10.5	9.2	7.8	7.2
Heaped Capacity (Rated)	m^3	9.6	8.4	7.6	6.9
	yd^3	12.5	11.0	10.0	9.0
Bucket Width	mm	3897	3897	3897	3897
	ft	12.8	12.8	12.8	12.8
Dump Clearance at Full Lift and 45° Discharge (Bare)	mm	4035	4135	4211	4296
	ft	13.2	13.6	13.8	14.1
Reach at Lift and 45° Discharge (Bare)	mm	1987	1876	1811	1734
	ft	6.5	6.2	5.9	5.7
Reach with Lift Arms Horizontal and Bucket Level (Teeth)	mm	4256	4107	4007	3893
	ft	14.0	13.5	13.1	12.8
Digging Depth (Segment)	mm	219	227	219	214
	in	8.6	8.9	8.6	8.4
Overall Length (Bucket Level Ground)	mm	12 371	12 227	12 122	12 005
	ft	40.6	40.1	39.8	39.4
Overall Height with Bucket at Full Raise	mm	8224	8082	7985	7881
	ft	27.0	26.5	26.2	25.9
Loader Clearance Turning Circle (SAE Carry with Teeth)	mm	17 741	17 660	17 595	17 525
	ft	58.2	57.9	57.7	57.5
Full Dump Angle	degrees	50	50	50	50
Static Tipping Load Straight (Rigid Tire)*	kg	41 325	41 734	42 110	42 474
	lb	91,106	92,008	92,837	93,638
Static Tipping Load Straight (ISO) (Tire Squash)*	kg	32 825	39 289	39 678	40 068
	lb	85,594	86,616	87,475	88,334
Static Tipping Load – Full Turn (Articulated 35°) (Rigid Tire)*	kg	36 750	37 149	37 518	37 871
	lb	81,020	81,899	82,713	83,491
Static Tipping Load – Full Turn (Articulated 35°) (ISO) (Tire Squash)*	kg	32 691	33 166	33 554	33 944
	lb	72,072	73,118	73,973	74,833
Static Tipping Load – Full Turn (Articulated 43°) (Rigid Tire)*	kg	34 529	34 923	35 289	35 636
	lb	76,124	76,991	77,798	78,565
Static Tipping Load – Full Turn (Articulated 43°) (ISO) (Tire Squash)*	kg	30 027	30 502	30 888	31 276
	lb	66,198	67,245	68,096	68,951
Breakout Force**	kN	350	380	403	431
	lb	78,782	85,375	90,534	97,000
Operating Weight	kg	58 463	58 187	57 899	57 659
	lb	128,888	128,281	127,646	127,116
Weight Distribution at SAE Carry (Unloaded)					
Front	kg	28 499	28 001	27 486	27 051
	lb	62,830	61,731	60,597	59,638
Rear	kg	29 963	30 187	30 413	30 608
	lb	66,058	66,551	67,049	67,478
Weight Distribution at SAE Carry (Loaded)					
Front	kg	53 223	52 622	52 063	51 558
	lb	117,335	116,013	114,779	113,665
Rear	kg	19 755	20 080	20 351	20 616
	lb	43,552	44,269	44,867	45,451

*Static tipping loads and operating weights include full fluids and 80 kg (176 lb) operator.
**Measured 100 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with ISO 14397-2:2007.
Full compliance to ISO 14397-1:2007.

988K XE Wheel Loader Specifications

Operating Specifications – Standard Lift

		988K XE Std Lift Tires: 35/65 R33 XLDD2, PN: 399-4568 SLR: 978					
Bucket Type		**General Purpose**			**Rock**		**HD Rock**
Ground Engaging Tool		**Adapters or BOCE**		**X130**	**X130**	**X130**	**X130**
Cutting Edge Type		**Straight**	**Straight**	**Spade**	**Spade**	**Spade**	**Spade**
Bucket Part Number		**347-4990**	**347-4980**	**498-9992**	**498-9990**	**498-9988**	**498-9994**
Struck Capacity	m^3	6.0	5.5	6.5	5.5	5.0	5.0
	yd^3	7.8	7.2	8.5	7.2	6.5	6.5
Heaped Capacity (Rated)	m^3	7.6	6.9	7.6	6.9	6.4	6.4
	yd^3	10.0	9.0	10.0	9.0	8.3	8.3
Bucket Width	mm	3897	3897	4020	4020	4020	4080
	ft	12.8	12.8	13.2	13.2	13.2	13.4
Dump Clearance at Full Lift and 45° Discharge (Bare)	mm	3818	3902	3603	3681	3736	3722
	ft	12.5	12.8	11.8	12.1	12.3	12.2
Dump Clearance at Full Lift and 45° Discharge (with Teeth)	mm	—	—	3414	3492	3547	3520
	ft	—	—	11.2	11.5	11.6	11.5
Reach at Lift and 45° Discharge (Bare)	mm	1722	1645	1936	1858	1803	1816
	ft	5.7	5.4	6.4	6.1	5.9	6.0
Reach at Lift and 45° Discharge (with Teeth)	mm	—	—	2117	2040	1984	1989
	ft	—	—	6.9	6.7	6.5	6.5
Reach with Lift Arms Horizontal and Bucket Level (Teeth)	mm	3668	3554	4233	4123	4045	4067
	ft	12.0	11.7	13.9	13.5	13.3	13.3
Digging Depth (Segment)	mm	200	195	201	201	201	201
	in	7.9	7.7	7.9	7.9	7.9	7.9
Overall Length (Bucket Level Ground)	mm	11 716	11 598	12 281	12 171	12 093	12 115
	ft	38.4	38.1	40.3	39.9	39.7	39.7
Overall Height with Bucket at Full Raise	mm	7591	7488	7557	7455	7381	7384
	ft	24.9	24.6	24.8	24.5	24.2	24.2
Loader Clearance Turning Circle (SAE Carry with Teeth)	mm	17 261	17 192	17 429	17 366	17 321	17 344
	ft	56.6	56.4	57.2	57.0	56.8	56.9
Full Dump Angle	degrees	49.8	49.8	49.8	49.8	49.8	50
Static Tipping Load Straight (Rigid Tire)*	kg	36 029	36 412	35 067	35 604	35 651	34 592
	lb	79,430	80,276	77,309	78,494	78,597	76,262
Static Tipping Load Straight (ISO) (Tire Squash)*	kg	33 859	34 261	32 922	33 477	33 543	32 494
	lb	74,646	75,533	72,580	73,804	73,949	71,636
Static Tipping Load – Full Turn (Articulated 35°) (Rigid Tire)*	kg	32 325	32 697	31 377	31 906	31 946	30 888
	lb	71,263	72,084	69,175	70,340	70,430	68,097
Static Tipping Load – Full Turn (Articulated 35°) (ISO) (Tire Squash)*	kg	29 081	29 478	28 164	28 716	28 783	27 738
	lb	64,112	64,989	62,090	63,309	63,455	61,152
Static Tipping Load – Full Turn (Articulated 43°) (Rigid Tire)*	kg	30 526	30 893	29 586	30 110	30 148	29 090
	lb	67,299	68,108	65,225	66,381	66,465	64,133
Static Tipping Load – Full Turn (Articulated 43°) (ISO) (Tire Squash)*	kg	26 961	27 355	26 053	26 603	26 668	25 626
	lb	59,439	60,308	57,437	58,650	58,793	56,495
Breakout Force**	kN	437	468	371	394	410	402
	lb	98,315	105,297	83,329	88,591	92,170	90,383
Operating Weight	kg	52 334	52 094	52 902	52 559	52 531	53 510
	lb	115,377	114,847	116,628	115,872	115,810	117,969
Weight Distribution at SAE Carry (Unloaded)							
Front	kg	28 687	28 270	29 779	29 144	29 118	30 717
	lb	63,245	62,325	65,652	64,252	64,194	67,719
Rear	kg	23 647	23 824	23 122	23 414	23 413	22 793
	lb	52,132	52,523	50,976	51,619	51,616	50,250
Weight Distribution at SAE Carry (Loaded)							
Front	kg	46 947	46 467	48 073	47 382	47 317	48 922
	lb	103,501	102,441	105,984	104,460	104,317	107,854
Rear	kg	16 727	16 967	16 168	16 516	16 553	15 928
	lb	36,877	37,406	35,645	36,412	36,493	35,115

*Static tipping loads and operating weights include full fluids and 80 kg (176 lb) operator.
**Measured 100 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with ISO 14397-2:2007.
Full compliance to ISO 14397-1:2007.

Operating Specifications – High Lift

		988K XE High Lift Tires: 35/65 R33 XLDD2, PN: 399-4568 SLR: 978					
Bucket Type		**General Purpose**			**Rock**		**HD Rock**
Ground Engaging Tool		**Adapters or BOCE**		**X130**	**X130**	**X130**	**X130**
Cutting Edge Type		**Straight**	**Straight**	**Spade**	**Spade**	**Spade**	**Spade**
Bucket Part Number		**347-4990**	**347-4980**	**498-9992**	**498-9990**	**498-9988**	**498-9994**
Struck Capacity	m^3	6.0	5.5	6.5	5.5	5.0	5.0
	yd^3	7.8	7.2	8.5	7.2	6.5	6.5
Heaped Capacity (Rated)	m^3	7.6	6.9	7.6	6.9	6.4	6.4
	yd^3	10.0	9.0	10.0	9.0	8.3	8.3
Bucket Width	mm	3897	3897	4020	4020	4020	4080
	ft	12.8	12.8	13.2	13.2	13.2	13.4
Dump Clearance at Full Lift and 45° Discharge (Bare)	mm	4211	4296	3997	4074	4130	4116
	ft	13.8	14.1	13.1	13.4	13.5	13.5
Dump Clearance at Full Lift and 45° Discharge (with Teeth)	mm	—	—	3808	3885	3940	3914
	ft	—	—	12.5	12.7	12.9	12.8
Reach at Lift and 45° Discharge (Bare)	mm	1811	1734	2024	1947	1892	1905
	ft	5.9	5.7	6.6	6.4	6.2	6.2
Reach at Lift and 45° Discharge (with Teeth)	mm	—	—	2206	2128	2073	2077
	ft	—	—	7.2	7.0	6.8	6.8
Reach with Lift Arms Horizontal and Bucket Level (Teeth)	mm	4007	3893	4572	4462	4384	4406
	ft	13.1	12.8	15.0	14.6	14.4	14.5
Digging Depth (Segment)	mm	219	214	220	220	220	220
	in	8.6	8.4	8.7	8.7	8.7	8.7
Overall Length (Bucket Level Ground)	mm	12 122	12 005	12 688	12 578	12 500	12 521
	ft	39.8	39.4	41.6	41.3	41.0	41.1
Overall Height with Bucket at Full Raise	mm	7985	7881	7951	7849	7775	7778
	ft	26.2	25.9	26.1	25.7	25.5	25.5
Loader Clearance Turning Circle (SAE Carry with Teeth)	mm	17 595	17 525	17 763	17 699	17 654	17 678
	ft	57.7	57.5	58.3	58.1	57.9	58.0
Full Dump Angle	degrees	50	50	50	50	50	50
Static Tipping Load Straight (Rigid Tire)*	kg	33 846	34 190	32 933	33 427	33 456	32 402
	lb	74,617	75,377	72,605	73,695	73,757	71,434
Static Tipping Load Straight (ISO) (Tire Squash)*	kg	31 957	32 321	31 063	31 576	31 622	30 577
	lb	70,453	71,256	68,482	69,613	69,715	67,411
Static Tipping Load – Full Turn (Articulated 35°) (Rigid Tire)*	kg	30 229	30 566	29 329	29 818	29 842	28 790
	lb	66,644	67,386	64,660	65,737	65,790	63,470
Static Tipping Load – Full Turn (Articulated 35°) (ISO) (Tire Squash)*	kg	27 271	27 634	26 393	26 908	26 958	25 918
	lb	60,121	60,923	58,187	59,323	59,432	57,139
Static Tipping Load – Full Turn (Articulated 43°) (Rigid Tire)*	kg	28 474	28 806	27 580	28 065	28 088	27 036
	lb	62,774	63,507	60,803	61,873	61,923	59,604
Static Tipping Load – Full Turn (Articulated 43°) (ISO) (Tire Squash)*	kg	25 199	25 559	24 330	24 842	24 891	23 852
	lb	55,554	56,347	53,639	54,768	54,874	52,584
Breakout Force**	kN	403	431	341	363	377	370
	lb	90,534	97,000	76,633	81,539	84,840	83,123
Operating Weight	kg	53 806	53 566	54 374	54 031	54 003	54 982
	lb	118,622	118,092	119,873	119,117	119,055	121,214
Weight Distribution at SAE Carry (Unloaded)							
Front	kg	29 321	28 886	30 458	29 797	29 770	31 454
	lb	64,642	63,683	67,148	65,691	65,631	69,344
Rear	kg	24 485	24 680	23 916	24 234	24 233	23 528
	lb	53,980	54,410	52,725	53,426	53,424	51,870
Weight Distribution at SAE Carry (Loaded)							
Front	kg	48 518	48 028	49 689	48 979	48 919	50 609
	lb	106,963	105,883	109,545	107,980	107,848	111,575
Rear	kg	16 628	16 878	16 025	16 391	16 423	15 712
	lb	36,659	37,210	35,328	36,137	36,207	34,640

*Static tipping loads and operating weights include full fluids and 80 kg (176 lb) operator.
**Measured 100 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with ISO 14397-2:2007.
Full compliance to ISO 14397-1:2007.

988K XE Wheel Loader Standard and Optional Equipment

Standard and Optional Equipment

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

	Standard	Optional
ELECTRICAL		
Alarm, back-up	✓	
Alternator, single 150 amp	✓	
Batteries, dry	✓	
Converter, 10/15 amp, 24V to 12V	✓	
Hazardous voltage lamp	✓	
Lighting system (halogen, work lights, access and service platform lighting)	✓	
Starting and charging system, 24V	✓	
Starter emergency start receptacle	✓	
Starter lockout in bumper	✓	
Transmission lockout in bumper	✓	
OPERATOR ENVIRONMENT		
Air conditioner	✓	
Cat Detect, object detection system		✓
Cat Production Measurement		✓
Cat Production Measurement ready	✓	
Cat Vision, rear-vision camera system	✓	
Cab precleaner		✓
Cab, sound suppressed and pressurized, integrated rollover protective structure (ROPS/FOPS) radio ready for entertainment, includes antenna, speakers and converter (12-volt 5-amp) and power port	✓	
Controls, lift and tilt function	✓	
Graphical information display, displays real time operating information, performs calibrations and customizes operator settings	✓	
Handrail mounted mirrors		✓
Heater, defroster	✓	
Horn, electric	✓	
Instrumentation, gauges: coolant temperature, engine hour meter, hydraulic oil temperature, power train oil temperature	✓	
LED warning strobe		✓
Light, cab, dome	✓	
Lights, directional	✓	
Lights, HID or LED		✓
Lunchbox, beverage holders	✓	
Mirrors, heated		✓
Mirrors, rearview (externally mounted)	✓	
Radio, AM/FM/CD/MP3 Bluetooth® with Satellite Sirius		✓

	Standard	Optional
OPERATOR ENVIRONMENT (CONTINUED)		
Radio, CB ready	✓	
Rimpull Control System (RCS)	✓	
Seat, Premium Plus containing forced air heating and cooling, 2-way thigh adjustment, power lumbar and back bolster adjustment, ride stiffness, dynamic end dampening and leather finish	✓	
Seat belt minder	✓	
Seat belt, retractable, 76 mm (3 in) wide	✓	
Steering and Transmission Integrated Control (STIC™) System	✓	
UV glass	✓	
Virtual gear indicator	✓	
Vital Information Management System (VIMS™) with graphical information display: external data port, customizable operator profiles, cycle timer, integrated payload control system	✓	
Wet-arm wipers/washers (front and rear) – intermittent front and rear wipers	✓	
Window pull-down visor		✓
POWER TRAIN		
Antifreeze -50°C (-58°F)		✓
Automatic retarding controls	✓	
Brakes, oil-cooled, multi-disc, service/secondary	✓	
Case drain screens	✓	
Cat Integrated Powered Electronics	✓	
Cat SR drive motor	✓	
Cat SR generator/pump drive	✓	
Crankcase guard		✓
Electro hydraulic parking brake	✓	
Engine block heater 120V or 240V		✓
Engine brake, SEA		✓
Engine, C18 MEUI™ diesel, turbocharged/aftercooled	✓	
Engine oil change system, high speed, Wiggins		✓
Ground-level engine shutoff	✓	
High ambient cooling – software		✓
Turbine precleaner, engine air intake	✓	
Radiator, Aluminum Modular Radiator (AMR)	✓	
Starting aid, ether, automatic	✓	
Throttle lock, electronic	✓	
Manual switch and automatic fuel priming	✓	

Standard and Optional Equipment

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

	Standard	Optional
ADDITIONAL EQUIPMENT		
Autodig™ feature, Tire Slip Prevention	✓	
Autodig features, Auto Set Tires & Lift Stall Prevention		✓
Autolube with Auto shutoff		✓
Automatic bucket lift kickout/positioner	✓	
Base machine price includes a rim allowance	✓	
Cat Clean Emission Module (CEM)	✓	
Cold weather starting (extra starter plus two batteries)		✓
Couplings, Cat O-ring face seals	✓	
Doors, service access (locking)	✓	
Ecology drains for engine, radiator, hydraulic tank	✓	
EZ Clean cooling system		✓
Fast fill fuel system (Shaw-Aero)		✓
Front and rear roading fenders		✓
Fuel tank, 555 L (147 gal)	✓	
Hitch, drawbar with pin	✓	
Hoses, Cat XT™	✓	
Hydraulic, steering and brake filtration/ screening system	✓	

	Standard	Optional
ADDITIONAL EQUIPMENT (CONTINUED)		
Hydraulically driven demand fan	✓	
Load and carry counterweight		✓
Oil sampling valves	✓	
Operator coaching		✓
Premixed 50% concentration of extended life coolant with freeze protection to -34°C (-29°F)	✓	
Rear access to cab and service platform	✓	
Steering, load sensing	✓	
Tire Pressure Monitoring System		✓
Toe kicks	✓	
Transmission brake	✓	
Vandalism protection caplocks	✓	
Wheel chocks		✓
OTHER OPTIONAL CONFIGURATIONS		
Aggregate Handler		✓
Load and Carry		✓
Millyard		✓

988K XE Environmental Declaration

The following information applies to the machine at the time of final manufacture as configured for sale in the regions covered in this document. The content of this declaration is valid as of the date issued; however, content related to machine features and specifications are subject to change without notice. For additional information, please see the machine's Operation and Maintenance Manual.

For more information on sustainability in action and our progress, please visit https://www.caterpillar.com/en/company/sustainability.

Engine

- The Cat® C18 engine meets U.S. EPA Tier 4 Final, EU Stage V, and Japan 2014 emission standards.
- Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels up to:
  - ✓ 20% biodiesel FAME (fatty acid methyl ester)*
  - ✓ 100% renewable diesel, HVO (hydrogenated vegetable oil) and GTL (gas-to-liquid) fuels

  Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.

**Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel.*

Air Conditioning System

- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.8 kg (3.9 lb) of refrigerant which has a CO2 equivalent of 2.574 metric tonnes (2.837 tons).

Paint

- Based on best available knowledge, the maximum allowable concentration, measured in parts per million (PPM), of the following heavy metals in paint are:
  - Barium < 0.01%
  - Cadmium < 0.01%
  - Chromium < 0.01%
  - Lead < 0.01%

Sound Performance

Operator Sound Level (ISO 6396:2008) 72 dB(A)
Machine Sound Level (ISO 6395:2008) 109 dB(A)*

- The measurements listed above were conducted at 70 percent of the maximum engine cooling fan speed.
- Hearing protection may be needed when the machine is operated with a cab that is not properly maintained or when the doors or windows are open for extended periods or in a noisy environment.

* For machines in European Union countries and in countries that adopt the European Union Directive 2000/14/EC as amended by 2005/88/EC.

Oils and Fluids

- Caterpillar factory fills with ethylene glycol coolants. Cat Diesel Engine Antifreeze/Coolant (DEAC) and Cat Extended Life Coolant (ELC) can be recycled. Consult your Cat dealer for more information.
- Cat Bio HYDO Advanced is an EU Ecolabel approved biodegradable hydraulic oil.
- Additional fluids are likely to be present, please consult the Operations and Maintenance Manual or the Application and Installation guide for complete fluid recommendations and maintenance intervals.

Features and Technology

- The following features and technology may contribute to fuel savings and/or carbon reduction. Features may vary. Consult your Cat dealer for details.
  - Up to 25% better fuel efficiency overall, up to 49% in truck loading applications
  - ECO mode minimizes fuel consumption for light applications
  - Increased hydraulic speed and faster cycle times for decreased idle, decreased fuel burn, and increased efficiency
  - Reduce fuel burn while idling with engine idle shutdown
  - Extended maintenance intervals reduce fluid and filter consumption
  - Boost productivity with optional technologies like Operator Coaching and new AutoDig features including Tire Slip Prevention and Auto Set Tires

Recycling

- The materials included in machines are categorized as below with approximate weight percentage. Because of variations of product configurations, the following values in the table may vary.

Material Type	Weight Percentage
Steel	73.32%
Iron	3.21%
Nonferrous Metal	1.39%
Mixed Metal	0.00%
Mixed-Metal and Nonmetal	4.59%
Plastic	0.13%
Rubber	0.12%
Mixed Nonmetallic	0.00%
Fluid	0.25%
Other	2.35%
Uncategorized	14.64%
Total	100%

- A machine with higher recyclability rate will ensure more efficient usage of valuable natural resources and enhance End-of-Life value of the product. According to ISO 16714 (Earthmoving machinery – Recyclability and recoverability – Terminology and calculation method), recyclability rate is defined as percentage by mass (mass fraction in percent) of the new machine potentially able to be recycled, reused, or both.

  All parts in the bill of material are first evaluated by component type based on a list of components defined by the ISO 16714 and Japan CEMA (Construction Equipment Manufacturers Association) standards. Remaining parts are further evaluated for recyclability based on material type.

  Because of variations of product configurations, the following value in the table may vary.

Recyclability – 96%

988K XE

Millyard

Millyard applications demand the additional performance, productivity, and safety that Cat Forestry Wheel Loaders deliver.

Proven Reliability

- With 20 years of electric-drive experience, the 988K XE combines the simple and robust switched reluctance technology with proven machine design.
- More than 90 percent identical to the 988K Millyard.
- Fewer moving parts than traditional torque converter and mechanical transmission systems.
- Solid-state, fully sealed, and liquid-cooled powered electronics maximize durability in extreme conditions.
- Cat C18 engine is built and tested to meet your most demanding applications.
- Advanced filtration system for extended performance and reliability of the hydraulic system.

Durability

- Achieves longer engine life and improved fuel efficiency with reduced rated speed.
- Automatic retarder controls maintain speed on grade.
- One-piece castings provide enhanced strength in key pin areas.
- Full box section rear frame resists torsional shock and twisting forces.
- Durable construction withstands the toughest loading conditions and multiple life cycles.

Achieve Greater Productivity

- Unload a typical full-length log truck in a single pass with the larger lift and tilt cylinders and a unique tilt lever to maximize linkage force. Up to 20% more lift capacity and 26% more tilt capacity over the standard 988K.
- Electric-drive system eliminates shifting and simplifies operator control, accelerating the learning curve of new operators.
- Superior acceleration, smoother directional shifts, and reduced travel times.
- Maximum responsiveness with Steering and Integrated Control (STIC™).
- Convenient, responsive electro-hydraulic controls increase operator productivity.
- Purpose-built lift arm with lowered cross member to increase visibility to the tips of the forks helping to increase the speed when lining up the load and reduce operator movements to see the forks.

Superior Fuel Efficiency

- Continuously variable speed control up to maximum ground speed.
- Positive Flow Control (PFC) hydraulic system increases efficiency and attachment responsiveness with consistent performance.
- Economy mode for reduced rated engine speed and reduced fuel consumption.
- Fully integrated electronic engine controls make your fuel go farther.
- Engine idle shutdown for less fuel used while idling.
- Flow sharing hydraulics for full-flow at reduced engine rpm.
- Increased hydraulic speed and faster cycle times for decreased idle, decreased fuel burn, and increased efficiency.

Safety Features

- Hazardous voltage lamp assures electric drive system is de-energized and machine is safe to work on.
- Achieve precise positioning for easy loading in tight areas with 43 degrees of steering articulation.
- Precise machine control by load-sensing hydraulic steering system.
- Reduced stairway angles and standard stairway lighting provide reduced risk of slips, trips, and falls due to better visbility of the steps and stairway.
- Left- and right-hand stairs with 45-degree angle.
- Computerized monitoring system with warning indicators.
- Standard Cat Vision enhances visibility behind the machine, helping you work safely and confidently.
- Pressurized cabin with filtered air and reduced sound levels.

Reduced Maintenance Time and Costs

- Electric-drive system maximizes consumable life, reducing oil and filter waste. Enables two times the life for power train oil and four times the life for filters.
- Longer life, rebuildability, and high resale value with 10 percent lower maintenance costs.
- Grouped service points and swing-out engine compartment service doors provide easy access to critical daily service checks.
- Ecology drains to prevent spilled contaminants.
- Reduced waste with maintenance-free batteries.
- Operators can now check tire pressure during operation with any change sending a fault code to VisionLink®, preventing premature tire failure.
- Swing out fan radiator design for easier service in high-debris millyard applications reducing maintenance and service down time. Auto reversing fan system to help dislodge debris and keep air flowing across the radiator cores.

Easy, Comfortable Operator Environment

- Best-in-class operator comfort and ergonomics.
- Comfort Series III seats with extra thick, contoured cushions provide total comfort throughout the workday.
- Easy-to-reach levers and seat-mounted implement pod to reduce fatigue.
- Reduced vibrations from isolated cab mounts and seat air suspension.

Engine

Engine Model	Cat C18	
Rated Speed	1,700 rpm	
Peak Power Speed	1,500 rpm	
Engine (ISO 14396:2002)	432 kW	580 hp
Gross (SAE J1995:2014)	439 kW	588 hp
Net Power (SAE J1349:2011)	401 kW	538 hp
Bore	145 mm	5.7 in
Stroke	183 mm	7.2 in
Displacement	18.1 L	1,105 in^3
Peak Torque (1,200 rpm) (SAE J1995:2014)	3023 N·m	2,230 lbf-ft
Torque Rise	58%	

- Meets U.S. EPA Tier 4 Final, EU Stage V, and Japan 2014 emission standards.
- Net power advertised is the power available at the flywheel when the engine is equipped with fan at minimum speed, air intake system, exhaust system, and alternator.

Transmission

Transmission Type	Cat switched reluctance electric drive	
Forward 1 (virtual)	7.0 km/h	4.3 mph
Forward 2 (virtual)	11.3 km/h	7.0 mph
Forward 3 (virtual)	22.2 km/h	13.8 mph
Forward 4 (virtual)	32.1 km/h	20.0 mph
Reverse 1 (virtual)	7.0 km/h	4.3 mph
Reverse 2 (virtual)	11.3 km/h	7.0 mph
Reverse 3 (virtual)	28.2 km/h	17.5 mph

Operating Specifications

Operating Weight	52 781 kg	116,362 lb
Rated Payload – Quarry Face	11.3 tonnes	12.5 tons
Rated Payload – Loose Material	14.5 tonnes	16.0 tons
Bucket Capacity Range	4.7-13.0 m^3	6.2-17.0 yd^3

Hydraulic System – Lift/Tilt

Lift/Tilt System – Circuit	EH-Positive Flow Control, Flow Sharing	
Lift/Tilt System Pumps	Variable displacement piston	
Maximum Flow at 1,400-1,600 rpm	580 L/min	153 gal/min
Relief Valve Setting – Lift/Tilt	32 800 kpa	4,757 psi
Lift Cylinder – Bore	210 mm	8.7 in
Lift Cylinder – Stroke	1050 mm	41.3 in
Tilt Cylinder – Bore	266 mm	8.7 in
Tilt Cylinder – Stroke	685 mm	27.0 in

Hydraulic Cycle Time

Rackback	4.5 seconds
Raise	8.0 seconds
Dump	2.2 seconds
Lower Float Down	3.5 seconds
Total Hydraulic Cycle Time	18.2 seconds

Hydraulic System – Steering

Steering System – Circuit	Pilot, load sensing	
Steering System – Pump	Variable displacement piston	
Maximum Flow @ × 1,400-1,600 rpm	270 L/min	71.3 gal/min
Steering Cut Off Pressure	30,000 kPa	4,351 psi
Total Steering Angle	86°	
Steering Cycle Time (high idle)	3.4 seconds	
Steering Cycle Time (low idle)	5.6 seconds	

Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.8 kg of refrigerant which has a CO_2 equivalent of 2.574 metric tonnes.

Axles

Front	Fixed
Rear	Trunnion
Oscillation Angle	13°

Brakes

Brakes	ISO 3450:2011

Operator Cab

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

Service Refill Capacities

Fuel Tank	555 L	147.0 gal
Cooling System (jacket water)	112 L	30.0 gal
Cooling Systems (power train)	30 L	8.0 gal
Engine Crankcase	60 L	16.0 gal
Diesel Exhaust Fluid Tank	33 L	8.7 gal
Transmission	60 L	16.0 gal
Differentials and Final Drives – front	186 L	49.0 gal
Differentials and Final Drives – rear	186 L	49.0 gal
Hydraulic System – implement/steering	475 L	126.0 gal

- All nonroad Tier 4 Final/Stage V diesel engines are required to use:
  - The machine has the flexibillity to run on either ultra-low-sulfur diesel fuel (ULSD with 15 ppm of sulfur or less).
  - Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels up to:
    - ✓ 20% biodiesel FAME (fatty acid methyl ester)*
    - ✓ 100% renewable diesel, HVO (hydrogenated vegetable oil) and GTL (gas-to-liquid) fuels

  Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.

  **Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel.*
  - Cat DEO-ULS or oils that meet the Cat ECF-3, API CJ-4, and ACEA E9 specifications are required.
  - Only use DEF that meets ISO 22241-1 standards.

Sound Performance – Tier 4 Final/Stage V

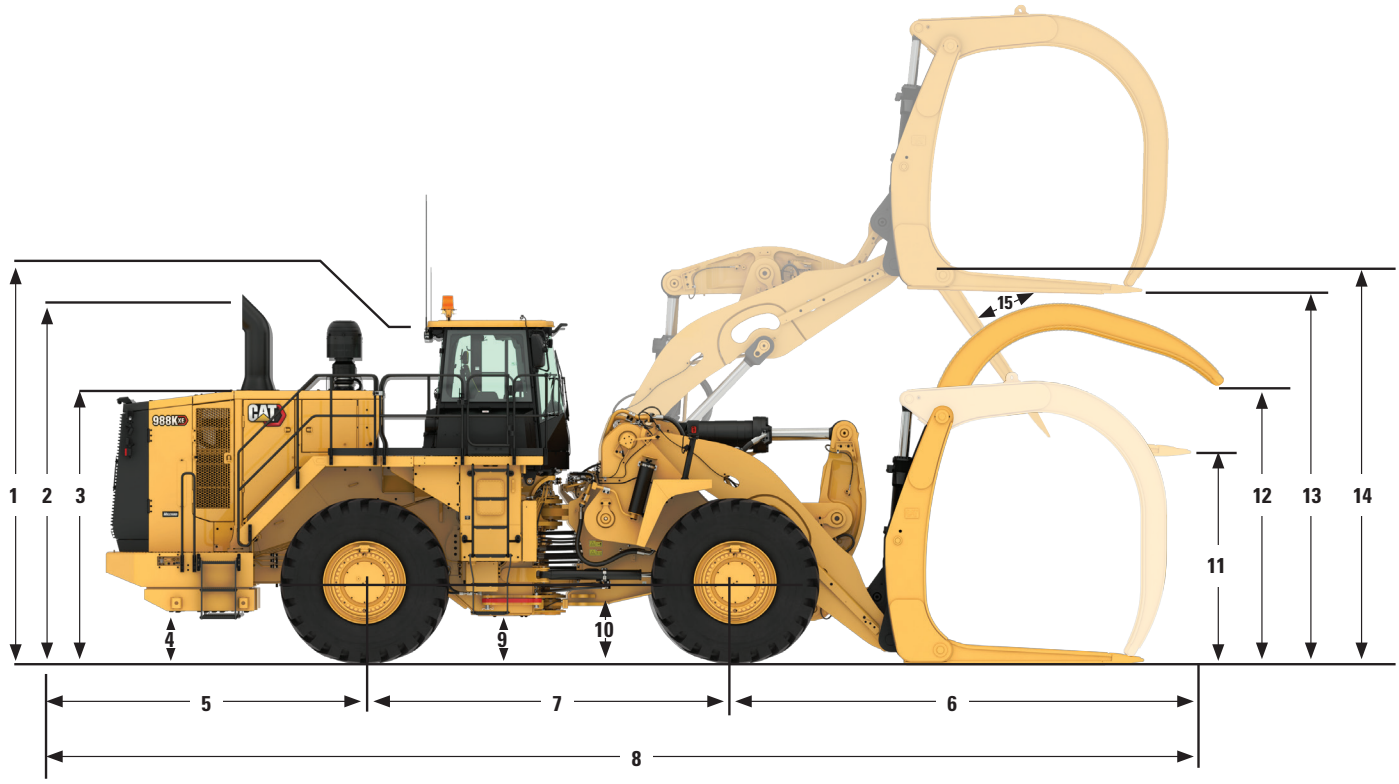
Operator Sound Level (ISO 6396:2008)	72 dB(A)
Machine Sound Level (ISO 6395:2008)	109 dB(A)*

- The operator sound pressure level was measured according to the test procedures and conditions specified in ISO 6396:2008. The measurement was conducted at 70 percent of the maximum engine cooling fan speed.
- Hearing protection may be needed when the machine is operated with a cab that is not properly maintained or when the doors or windows are open for extended periods or in a noisy environment.
- The machine sound power level was measured according to the test procedures and conditions specified in ISO 6395:2008. The measurement was conducted at 70 percent of the maximum engine cooling fan speed.

  * For machines in European Union countries and in countries that adopt the European Union Directive 2000/14/EC as amended by 2005/88/EC.

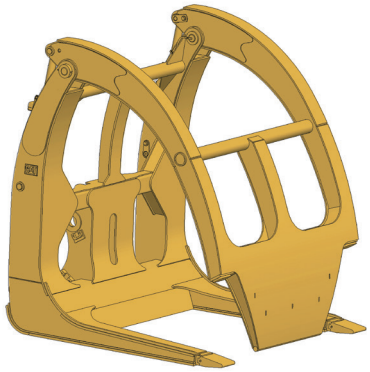
Dimensions

All dimensions are approximate.



		Millyard Linkage	
1	Ground to Top of ROPS	4221 mm	13.8 ft
2	Ground to Top of Exhaust Stack	4214 mm	13.8 ft
3	Ground to Top of Hood	3334 mm	10.9 ft
4	Ground to Bumper Clearance	933 mm	3.1 ft
5	Rear Axle Center Line to Bumper	3187 mm	10.5 ft
6	Front Axle Center Line to Fork Tip	5023 mm	16.5 ft
7	Wheelbase	4550 mm	14.9 ft
8	Maximum Overall Length	12 761 mm	41.9 ft
9	Ground to Lower Hitch Clearance	568 mm	1.9 ft
10	Ground to Center of Front Axle	978 mm	3.2 ft
11	Fork Height with Level Arms	2474 mm	8.1 ft
12	Fork Top Clamp Opening	4006 mm	13.1 ft
13	Fork Height at Maximum Lift	5242 mm	17.2 ft
14	Hinge Pin Height at Maximum Lift	4918 mm	16.1 ft
15	Dump Angle at Maximum Lift	-39.4 degrees	

Forks and Buckets



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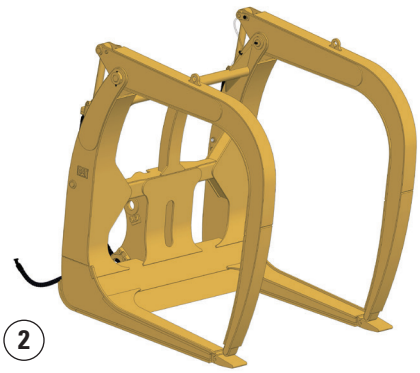

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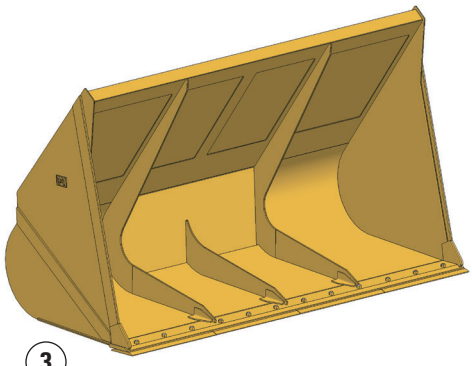

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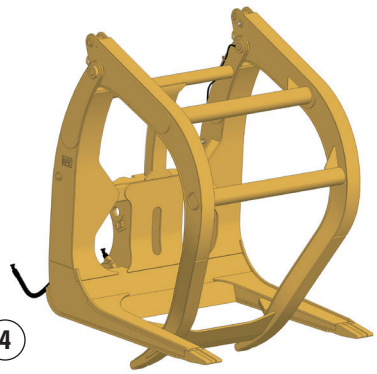

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Forks and Buckets

Millyard and Logging Forks are designed to move wood in the millyard. Woodchip Buckets are designed with performance characteristics to bring productivity and fuel efficiency to load-and-carry work in the yard.

1 **Millyard Forks:** A single top clamp closes down between the tines, allowing individual logs to be picked and placed with ease. An open, high-visibility design allows operators to see the job at hand and work faster and more efficiently.

2 **Logging Forks:** Dual top clamps close down to the tine tips; their curvature maximizes carry capacity. Built to match the task of unloading trucks. An open, high-visibility design allows operators to see the job at hand and work faster and more efficiently.

3 **Woodchip Buckets:** Extra capacity and loading characteristics make this bucket style perfect for handling woodchips. Available in direct pin on models or for use with the Cat Quick Coupler System.

4 **Cat Full Width Forks:** Dual top clamps are connected to allow maximum capacity while still closing between the tines allowing partial loads to be handled.

Standard and Optional Equipment

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

	Standard	Optional
ELECTRICAL		
Alarm, back-up	✓	
Alternator, single 150 amp	✓	
Batteries, dry	✓	
Converter, 10/15 amp, 24V to 12V	✓	
Hazardous voltage lamp	✓	
Lighting system (halogen, work lights, access and service platform lighting)	✓	
Starting and charging system, 24V	✓	
Starter emergency start receptacle	✓	
Starter lockout in bumper	✓	
Transmission lockout in bumper	✓	
OPERATOR ENVIRONMENT		
Air conditioner	✓	
Cat Detect, object detection system		✓
Cat Production Measurement		✓
Cat Production Measurement ready	✓	
Cat Vision, rear-vision camera system	✓	
Cab precleaner		✓
Cab, sound suppressed and pressurized, integrated rollover protective structure (ROPS/FOPS) radio ready for entertainment, includes antenna, speakers and converter (12-volt 5-amp) and power port	✓	
Controls, lift and tilt function	✓	
Graphical information display, displays real time operating information, performs calibrations and customizes operator settings	✓	
Handrail mounted mirrors		✓
Heater, defroster	✓	
Horn, electric	✓	
Instrumentation, gauges: coolant temperature, engine hour meter, hydraulic oil temperature, power train oil temperature	✓	
LED warning strobe		✓
Light, cab, dome	✓	
Lights, directional	✓	
Lights, HID or LED		✓
Lunchbox, beverage holders	✓	
Mirrors, heated		✓
Mirrors, rearview (externally mounted)	✓	
Radio, AM/FM/CD/MP3 Bluetooth® with Satellite Sirius		✓

	Standard	Optional
OPERATOR ENVIRONMENT (CONTINUED)		
Radio, CB ready	✓	
Rimpull Control System (RCS)	✓	
Seat, Premium Plus containing forced air heating and cooling, 2-way thigh adjustment, power lumbar and back bolster adjustment, ride stiffness, dynamic end dampening and leather finish	✓	
Seat belt minder	✓	
Seat belt, retractable, 76 mm (3 in) wide	✓	
STIC System	✓	
UV glass	✓	
Virtual gear indicator	✓	
Vital Information Management System (VIMS) with graphical information display: external data port, customizable operator profiles, cycle timer, integrated payload control system	✓	
Wet-arm wipers/washers (front and rear) – intermittent front and rear wipers	✓	
Window pull-down visor		✓
POWER TRAIN		
Antifreeze -50°C (-58°F)		✓
Automatic retarding controls	✓	
Brakes, oil-cooled, multi-disc, service/secondary	✓	
Case drain screens	✓	
Cat Integrated Powered Electronics	✓	
Cat SR drive motor	✓	
Cat SR generator/pump drive	✓	
Crankcase guard		✓
Electro hydraulic parking brake	✓	
Engine block heater 120V or 240V		✓
Engine brake, SEA		✓
Engine, C18 MEUI diesel, turbocharged/aftercooled	✓	
Engine oil change system, high speed, Wiggins		✓
Ground-level engine shutoff	✓	
High ambient cooling – software		✓
Turbine precleaner, engine air intake	✓	
Radiator, Aluminum Modular Radiator (AMR)	✓	
Starting aid, ether, automatic	✓	
Throttle lock, electronic	✓	
Manual switch and automatic fuel priming	✓	

988K XE Millyard Standard and Optional Equipment

Standard and Optional Equipment

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

	Standard	Optional
ADDITIONAL EQUIPMENT		
Autodig feature, Tire Slip Prevention	✓	
Autodig features, Auto Set Tires & Lift Stall Prevention		✓
Autolube with Auto shutoff		✓
Automatic bucket lift kickout/positioner	✓	
Base machine price includes a rim allowance	✓	
Cat Clean Emission Module (CEM)	✓	
Cold weather starting (extra starter plus two batteries)		✓
Couplings, Cat O-ring face seals	✓	
Doors, service access (locking)	✓	
Ecology drains for engine, radiator, hydraulic tank	✓	
EZ Clean cooling system		✓
Fast fill fuel system (Shaw-Aero)		✓
Front and rear roading fenders		✓
Fuel tank, 555 L (147 gal)	✓	
Hitch, drawbar with pin	✓	
Hoses, Cat XT	✓	

	Standard	Optional
ADDITIONAL EQUIPMENT (CONTINUED)		
Hydraulic, steering and brake filtration/ screening system	✓	
Hydraulically driven demand fan	✓	
Load and carry counterweight		✓
Oil sampling valves	✓	
Premixed 50% concentration of extended life coolant with freeze protection to -34°C (-29°F)	✓	
Rear access to cab and service platform	✓	
Steering, load sensing	✓	
Tire Pressure Monitoring System		✓
Toe kicks	✓	
Transmission brake	✓	
Vandalism protection caplocks	✓	
Wheel chocks	✓	✓
OTHER OPTIONAL CONFIGURATIONS		
Aggregate Handler		✓
Load and Carry		✓

オフロード法２０１４年
基準適合

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.

AEXQ2599-02 (7-2022)
Replaces AEXQ2599-01
(Aus-NZ, Europe, Japan,
N Am, S Am)