

# 980 Wheel Loader

# **Technical Specifications**

Not all attachments available in all regions. Consult your Cat® dealer for specific configurations available in your region.

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Engine		
Engine Model	Cat C13	
Engine Power @ 1,800 rpm	303 kW	406 hp
ISO 14396:2002	412 hp (meta	ric)
Gross Power @ 1,800 rpm	307 kW	412 hp
SAE J1995:2014	417 hp (meta	ric)
Net Power @ 1,800 rpm	282 kW	378 hp
ISO 9249:2007, SAE J1349:2011	383 hp (meta	ric)
Engine Torque (1,300 rpm)	2172 N·m	1,602 lbf-ft
ISO 14396:2002		
Gross Torque (1,300 rpm)	2192 N·m	1,617 lbf-ft
SAE J1995:2014		
Net Torque (1,000 rpm)	2070 N·m	1,527 lbf-ft
ISO 9249:2007, SAE J1349:2011		
Bore	130 mm	5.12 in
Stroke	157 mm	6.18 in
Displacement	12.5 L	763 in <sup>3</sup>

- Cat engine meets Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3, EU Stage IIIA, and China Nonroad Stage III.
- The net power advertised is the power available at the flywheel when the engine is equipped with fan, alternator, air cleaner, and muffler.
- Cat engines are compatible with diesel fuel blended with following lower-carbon intensity fuels\*\* up to:
- 100% biodiesel FAME (fatty acid methyl ester)\*
- 100% renewable diesel, HVO (hydrotreated 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.
- \*\* Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.

Buckets		
Bucket Capacities	4.0-14.5 m <sup>3</sup>	5.25-19.0 yd <sup>3</sup>

# Weight Operating Weight 30 344 kg 66,877 lb

 Weight based on a machine configuration with Bridgestone 29.5R25 VSNT L4 radial tires, full fluids, operator, standard counterweight, ride control, cold start, roading fenders, Product Link™, open differential axles (front/rear), secondary steering, sound suppression, and a 5.4 m³ (7.1 yd³) general purpose bucket with BOCE.

Operating Specifications		
Static Tipping Load – Full 40° Turn		
With Tire Deflection	19 706 kg	43,432 lb
No Tire Deflection	20 965 kg	46,208 lb
Breakout Force	227 kN	51,008 lbf

- 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	6.9 km/h	4.3 mph
Forward 2	13.3 km/h	8.3 mph
Forward 3	23.5 km/h	14.6 mph
Forward 4	39.5 km/h	24.5 mph
Reverse 1	7.8 km/h	4.8 mph
Reverse 2	15.2 km/h	9.4 mph
Reverse 3	26.9 km/h	16.7 mph
Reverse 4	39.5 km/h	24.5 mph

 Maximum travel speed in standard vehicle with empty bucket and standard L4 tires with 935 mm (37 in) roll radius.

Implement Pump Type	Variable Displacement	
	Piston, load sensing	
Implement System:		
Maximum Pump Output (2,250 rpm)	449 L/min	119 gal/min
Maximum Operating Pressure	34 300 kPa	4,975 psi
Optional 3 <sup>rd</sup> Function Maximum Flow	240 L/min	63 gal/min
Optional 3 <sup>rd</sup> Function	20 684 kPa	3,000 psi
Maximum Pressure at Work Tool		
Hydraulic Cycle Time with Rated Payloa	d:	
Raise from Carry Position	5.3 sec	
Dump, at Maximum Raise	1.7 sec	
Lower, Empty, Float Down	3.1 sec	
Total	10.1 sec	

Brakes	
Brakes	Brakes meet ISO 3450:2011
Bruites	standards

Axles	
Front	Fixed
Rear	Oscillating

Service Refill Capacities			
Fuel Tank	426 L	112.5 gal	
Cooling System	50 L	13.2 gal	
Crankcase	37 L	9.8 gal	
Transmission	77 L	20.3 gal	
Differentials and Final Drives – Front	84 L	22.2 gal	
Differentials and Final Drives – Rear	84 L	22.2 gal	
Hydraulic Tank	153 L	40.4 gal	

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

Sound Performance	
Operator Sound Pressure Level (ISO 6396:2008)	75 dB(A)
Exterior Sound Power Level (ISO 6395:2008)	112 dB(A)
Operator Sound Pressure Level (ISO 6396:2008)*	72 dB(A)
Exterior Sound Power Level (ISO 6395:2008)**	109 dB(A)

<sup>\*</sup>Including countries that adopt the EU and UK Directives

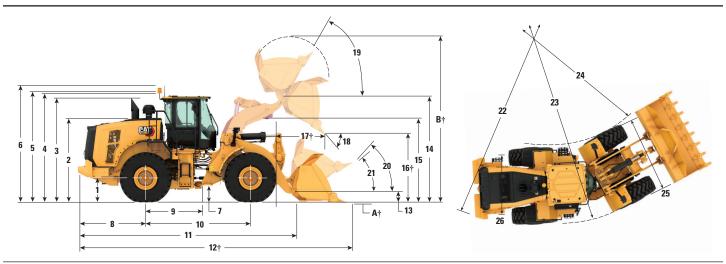
### **Air Conditioning System**

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.6 kg (3.52 lb) of refrigerant which has a CO<sub>2</sub> equivalent 2.288 metric tonnes (2.522 tons).

<sup>\*\*</sup>EU Noise Directive 2000/14/EC and UK Noise Regulation 2001 No. 1701

#### **Dimensions**

All dimensions are approximate.



		Standard Lift		High Lift	
1	Height to Axle Centerline	899 mm	2'11"	899 mm	2'11"
2	Height to Top of Hood	3064 mm	10'1"	3064 mm	10'1"
3	Height to Top of Exhaust Pipe	3764 mm	12'5"	3764 mm	12'5"
4	Height to Top of ROPS	3829 mm	12'7"	3829 mm	12'7"
5	Height to Top of Product Link Antenna	3835 mm	12'7"	3835 mm	12'7"
6	Height to Top of Warning Beacon	4108 mm	13'6"	4108 mm	13'6"
7	Ground Clearance	456 mm	1'5"	456 mm	1'5"
8	Center Line of Rear Axle to Edge of Counterweight	2661 mm	8'9"	2661 mm	8'9"
9	Center Line of Rear Axle to Hitch	1900 mm	6'3"	1900 mm	6'3"
10	Wheelbase	3800 mm	12'6"	3800 mm	12'6"
11	Overall Length (without bucket)	8155 mm	26'10"	8355 mm	27'5"
12	Shipping Length (with bucket level on ground)*†	9673 mm	31'9"	9875 mm	32'5"
13	Hinge Pin Height at Carry Height	632 mm	2'0"	682 mm	2'2"
14	Hinge Pin Height at Maximum Lift	4554 mm	14'11"	4775 mm	15'7"
15	Lift Arm Clearance at Maximum Lift	3881 mm	12'8"	4125 mm	13'6"
	Dump Clearance at Maximum Lift and 45° Discharge*†	3287 mm	10'9"	3508 mm	11'6"
17	Reach at Maximum Lift and 45° Discharge*†	1481 mm	4'10"	1484 mm	4'10"
18	Dump Angle at Maximum Lift and Dump (on stops)*	52 deg	rees	55 degrees	
19	Rack Back at Maximum Lift*	61 deg	rees	61 degrees	
20	Rack Back at Carry Height*	48 deg	rees	50 degrees	
21	Rack Back at Ground*	40 deg	rees	40 degrees	
22	Clearance Circle (dia) to Counterweight	13 692 mm	45'0"	13 692 mm	45'0"
23	Clearance Circle (dia) to Outside of Tires	13 700 mm	45'0"	13 700 mm	45'0"
24	Clearance Circle (dia) to Inside of Tires	7180 mm	23'7"	7180 mm	23'7"
25	Width over Tires (unloaded)	3240 mm	10'8"	3240 mm	10'8"
	Width over Tires (loaded)	3260 mm	10'9"	3260 mm	10'9"
26	Tread Width	2440 mm	8'0"	2440 mm	8'0"

†Dimensions are listed in Operating Specifications charts.

All height and tire related dimensions are with Bridgestone 29.5R25 VSNT L4 radial tires (see Tire Option Chart for other tires). "Width over Tires" dimensions are over the bulge and include growth.

<sup>•</sup> All dimensions are approximate and based on machine equipped with 5.4 m³ (7.1 yd³) general purpose bucket with BOCE and Bridgestone 29.5R25 VSNT L4 radial tires. (see Operating Specifications for other buckets)

### **Tire Options**

Tire Brand	Bridgestone	Michelin	Michelin	Michelin	Bridgestone	Michelin
Tire Size	29.5R25	29.5R25	29.5R25	29.5R25	29.5R25	29.5R25
Tread Type	L-4	L-4	L-5	L-5	L-3	L-3
Tread Pattern	VSNT	XLDD1	XLDD2	XMINED2	VJT	XHA2
Width over Tires – Maximum (empty)*	3240 mm 10'8"	3258 mm 10'9"	3256 mm 10'9"	3275 mm 10'9"	3263 mm 10'9"	3270 mm 10'9"
Width over Tires – Maximum (loaded)*	3260 mm 10'9"	3302 mm 10'10"	3296 mm 10'10"	3294 mm 10'10"	3289 mm 10'10"	3296 mm 10'10"
Change in Vertical Dimensions (average of front and rear)		−7 mm −0.3"	−6 mm −0.2"	5 mm 0.2"	-23 mm -0.9"	−40 mm −1.6"
Change in Horizontal Reach		-1 mm 0"	3 mm 0.1"	3 mm 0.1"	20 mm 0.8"	23 mm 0.9"
Change in Clearance Circle to Outside of Tires		42 mm 1.7"	36 mm 1.4"	34 mm 1.3"	29 mm 1.1"	36 mm 1.4"
Change in Clearance Circle to Inside of Tires		−42 mm −1.7"	−36 mm −1.4"	-34 mm -1.3"	−29 mm −1.1"	−36 mm −1.4"
Change in Operating Weight (without Ballast)		-156 kg -344 lb	208 kg 459 lb	532 kg 1,173 lb	−684 kg −1,508 lb	−700 kg −1,544 lb
Change in Static Tipping Load – Straight		−119 kg −262 lb	158 kg 349 lb	405 kg 892 lb	−520 kg −1,147 lb	−532 kg −1,174 lb
Change in Static Tipping Load – Articulated		-103 kg -228 lb	138 kg 304 lb	352 kg 777 lb	–453 kg –998 lb	−463 kg −1,022 lb
Rear Axle Oscillation Angle	±13 degrees	±13 degrees	±13 degrees	±13 degrees	±13 degrees	±13 degrees
Maximum Single-wheel Rise and Fall	549 mm 1'10"	549 mm 1'10"	549 mm 1'10"	549 mm 1'10"	549 mm 1'10"	549 mm 1'10"

<sup>\*</sup>Width over tire bulge and includes tire growth.

Tire Brand	Bridgestone	Bridgestone	Maxam	Maxam	Maxam	Brawler
Tire Size	29.5R25	29.5R25	29.5R25	29.5R25	29.5R25	29.5-25
Tread Type	L-5	L-5	L-3	L-4	L-5	Solid
Tread Pattern	VSDT	VSDL	MS302	MS405DX	MS503	Traction/Smooth
Width over Tires – Maximum (empty)*	3272 mm	3250 mm	3270 mm	3256 mm	3268 mm	3227 mm
	10'9"	10'8"	10'9"	10'9"	10'9"	10'8"
Width over Tires – Maximum (loaded)*	3301 mm	3275 mm	3290 mm	3282 mm	3304 mm	3230 mm
	10'10"	10'9"	10'10"	10'10"	10'11"	10'8"
Change in Vertical Dimensions (average of front and rear)	4 mm	20 mm	−19 mm	−33 mm	−6 mm	9 mm
	0.1"	0.8"	−0.8"	−1.3"	−0.2"	0.4"
Change in Horizontal Reach	0 mm	−10 mm	6 mm	19 mm	−3 mm	30 mm
	0"	−0.4"	0.2"	0.7"	−0.1"	1.2"
Change in Clearance Circle to Outside of Tires	41 mm	15 mm	30 mm	22 mm	44 mm	−30 mm
	1.6"	0.6"	1.2"	0.9"	1.7"	−1.2"
Change in Clearance Circle to Inside of Tires	−41 mm	−15 mm	−30 mm	−22 mm	−44 mm	30 mm
	−1.6"	−0.6"	−1.2"	−0.9"	−1.7"	1.2"
Change in Operating Weight (without Ballast)	500 kg	708 kg	−528 kg	−388 kg	252 kg	5772 kg
	1,103 lb	1,561 lb	−1,164 lb	−856 lb	556 lb	12,727 lb
Change in Static Tipping Load – Straight	380 kg	538 kg	-402 kg	−295 kg	192 kg	4390 kg
	838 lb	1,187 lb	-885 lb	−651 lb	423 lb	9,679 lb
Change in Static Tipping Load – Articulated	331 kg	469 kg	−350 kg	−257 kg	167 kg	3821 kg
	730 lb	1,033 lb	−771 lb	−566 lb	368 lb	8,425 lb
Rear Axle Oscillation Angle	±13 degrees	±8 degrees				
Maximum Single-wheel Rise and Fall	549 mm	340 mm				
	1'10"	1'10"	1'10"	1'10"	1'10"	1'1"

 $<sup>{}^*\!</sup>W$ idth over tire bulge and includes tire growth.

### **Tire Options**

Tire Brand	Michelin	Bridgestone	Bridgestone	Maxam
Tire Size	875/65R29	875/65R29	875/65R29	875/65R29
Tread Type	L-3	L-3	L-4	L–4
Tread Pattern	XHA2	VTS	VLTS	MS405DX
Width over Tires – Maximum (empty)*	3373 mm	3341 mm	3344 mm	3357 mm
	11'1"	11'0"	11'0"	11'1"
Width over Tires – Maximum (loaded)*	3384 mm	3359 mm	3366 mm	3382 mm
	11'2"	11'1"	11'1"	11'2"
Change in Vertical Dimensions (average of front and rear)	−25 mm	−19 mm	−16 mm	−34 mm
	−1"	−0.8"	−0.6"	−1.3"
Change in Horizontal Reach	18 mm	20 mm	19 mm	19 mm
	0.7"	0.8"	0.7"	0.7"
Change in Clearance Circle to Outside of Tires	124 mm	99 mm	106 mm	122 mm
	4.9"	3.9"	4.2"	4.8"
Change in Clearance Circle to Inside of Tires	−124 mm	−99 mm	−106 mm	−122 mm
	−4.9"	−3.9"	−4.2"	−4.8"
Change in Operating Weight (without Ballast)	-40 kg	240 kg	316 kg	308 kg
	-88 lb	529 lb	697 lb	679 lb
Change in Static Tipping Load – Straight	−30 kg	183 kg	240 kg	234 kg
	−67 lb	402 lb	530 lb	516 lb
Change in Static Tipping Load – Articulated	−26 kg	159 kg	209 kg	204 kg
	−58 lb	350 lb	461 lb	450 lb
Rear Axle Oscillation Angle	±8 degrees	±8 degrees	±8 degrees	±8 degrees
Maximum Single-wheel Rise and Fall	340 mm	340 mm	340 mm	340 mm
	1'1"	1'1"	1'1"	1'1"

<sup>\*</sup>Width over tire bulge and includes tire growth.

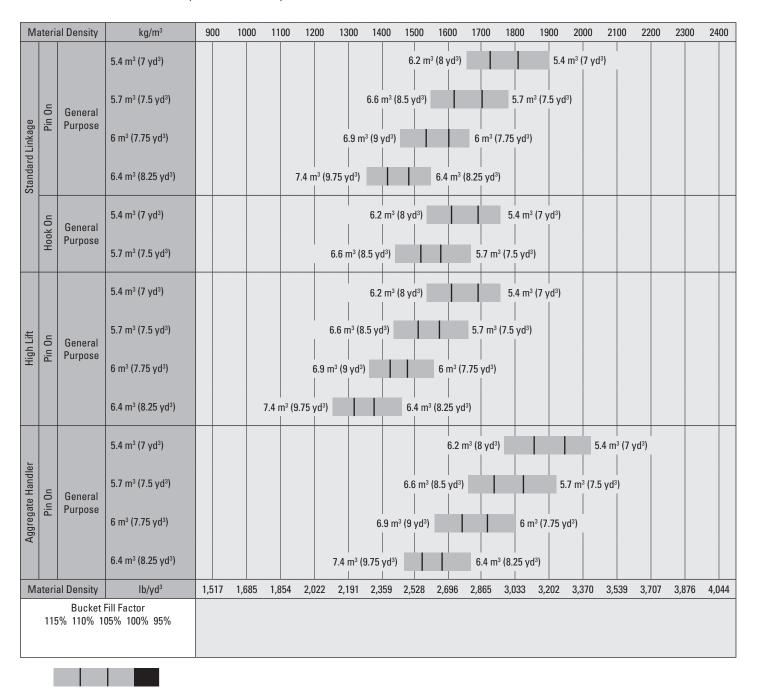
#### **Bucket Fill Factors and Selection Guide**

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		Fill Factor (%)*	<b>Material Density</b>
Earth/Clay		115	1.5-1.7
Sand and Gravel		115	1.5-1.7
Aggregate:	25-76 mm (1 to 3 in)	110	1.6-1.7
	19 mm (0.75 in) and smaller	105	1.8
Rock:	76 mm (3 in) and larger	100	1.6

<sup>\*</sup>As a % of ISO 7546:1983 rated capacity.

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



Note: All buckets are showing Bolt-On Edges.

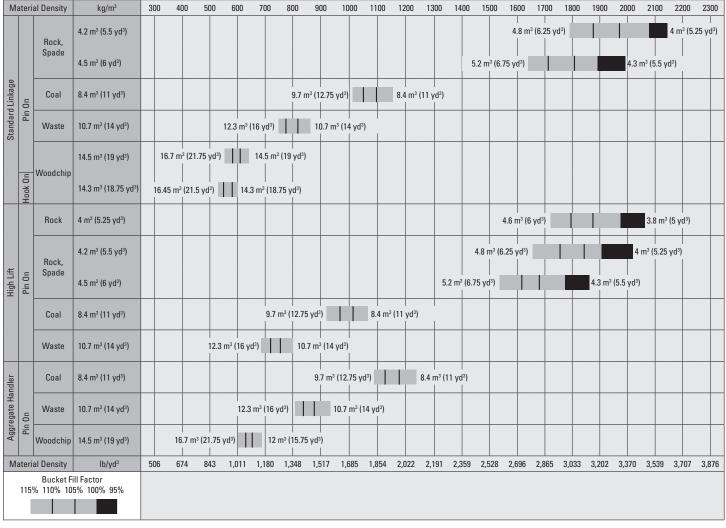
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<sup>\*</sup>As a % of ISO 7546:1983 rated capacity.

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Note: All buckets are showing Bolt-On Edges.

#### **Operating Specifications – Buckets**

Linkage		Standar	d Linkage		
Bucket Type			General Pu	rpose – Pin On	
Edge Type		Bolt-On Cutting Edges	Teeth and Segments	Bolt-On Cutting Edges	Teeth and Segments
Capacity – Rated	m <sup>3</sup>	5.40	5.40	5.70	5.70
	$yd^3$	7.00	7.00	7.50	7.50
Capacity - Rated at 110% Fill Factor	$m^3$	5.90	5.90	6.30	6.30
	$yd^3$	7.75	7.75	8.25	8.25
Width	mm	3447	3535	3447	3535
	ft/in	11'3"	11'7"	11'3"	11'7"
16† Dump Clearance at Maximum Lift	mm	3287	3121	3219	3051
and 45° Discharge	ft/in	10'9"	10'2"	10'6"	10'0"
17† Reach at Maximum Lift and	mm	1481	1618	1529	1664
45° Discharge	ft/in	4'10"	5'3"	5'0"	5'5"
Reach at Level Lift Arm and	mm	2966	3177	3050	3261
Bucket Level	ft/in	9'8"	10'5"	10'0"	10'8"
A† Digging Depth	mm	88	88	88	88
	in	3.4"	3.4"	3.4"	3.4"
12† Overall Length	mm	9673	9915	9757	9999
	ft/in	31'9"	32'7"	32'1"	32'10"
<b>B</b> † Overall Height with Bucket at	mm	6435	6435	6258	6258
Maximum Lift	ft/in	21'2"	21'2"	20'7"	20'7"
Loader Clearance Circle Radius	mm	7612	7725	7635	7749
with Bucket at Carry Position	ft/in	25'0"	25'5"	25'1"	25'6"
Static Tipping Load, Straight (ISO)*	kg	22 809	22 623	22 564	22 377
	lb	50,271	49,861	49,732	49,321
Static Tipping Load, Straight	kg	24 219	24 032	23 977	23 788
(Rigid Tire)*	lb	53,380	52,967	52,845	52,429
Static Tipping Load,	kg	19 706	19 520	19 478	19 291
Articulated (ISO)*	lb	43,432	43,022	42,931	42,518
Static Tipping Load, Articulated	kg	20 965	20 777	20 740	20 552
(Rigid Tire)*	lb	46,208	45,794	45,713	45,296
Breakout Force (§)	kN	227	224	214	211
	lbf	51,008	50,477	48,132	47,613
Operating Weight*	kg	30 344	30 482	30 427	30 565
	lb	66,877	67,182	67,060	67,365

<sup>\*</sup> Static tipping loads and operating weights shown are based on a machine configuration with Bridgestone 29.5R25 VSNT L4 radial tires, full fluids, operator, counterweight, ride control, cold start, roading fenders, power train guard, secondary steering and sound suppression.

<sup>†</sup> Illustration shown with Dimension charts.

<sup>\*\*\*</sup>Rock bucket specifications are given on Bridgestone 29.5R25 VSDT L5 Radial tires.

<sup>(§)</sup>Measured 102 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732C.

<sup>(§)</sup> Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers, including SAE Standard J732C governing loader ratings.

<sup>(</sup>ISO) Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

<sup>(</sup>Rigid Tire) Compliance to ISO 14397-1:2007 Sections 1 thru 5.

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

#### **Operating Specifications – Buckets**

Linkage				Standar	d Linkage			
Bucket '	Туре		General Purpose – Pin On					
Edge Ty	тре		Bolt-On Cutting Edges	Teeth and Segments	Bolt-On Cutting Edges	Teeth and Segments		
Cap	pacity – Rated	$m^3$	6.00	6.00	6.40	6.40		
		$yd^3$	7.75	7.75	8.25	8.25		
Cap	pacity – Rated at 110% Fill Factor	$m^3$	6.60	6.60	7.00	7.00		
		$yd^3$	8.75	8.75	9.25	9.25		
Wid	dth	mm	3447	3535	3447	3535		
		ft/in	11'3"	11'7"	11'3"	11'7"		
<b>16</b> † Dun	mp Clearance at Maximum Lift	mm	3201	3034	3145	2977		
and	45° Discharge	ft/in	10'6"	9'11"	10'3"	9'9"		
17† Rea	ach at Maximum Lift and	mm	1551	1686	1603	1737		
45°	Discharge	ft/in	5'1"	5'6"	5'3"	5'8"		
Rea	nch at Level Lift Arm and	mm	3078	3289	3155	3366		
Buc	cket Level	ft/in	10'1"	10'9"	10'4"	11'0"		
A† Dig	ging Depth	mm	88	88	88	88		
		in	3.4"	3.4"	3.4"	3.4"		
<b>12</b> † Ove	erall Length	mm	9785	10 027	9862	10 104		
		ft/in	32'2"	32'11"	32'5"	33'2"		
B† Ove	erall Height with Bucket at	mm	6284	6284	6604	6604		
Max	ximum Lift	ft/in	20'8"	20'8"	21'8"	21'8"		
Loa	nder Clearance Circle Radius	mm	7643	7757	7664	7779		
with	h Bucket at Carry Position	ft/in	25'1"	25'6"	25'2"	25'7"		
Stat	tic Tipping Load, Straight (ISO)*	kg	22 424	22 237	22 253	22 064		
		lb	49,423	49,011	49,046	48,631		
Stat	tic Tipping Load, Straight	kg	23 839	23 649	23 676	23 485		
(Rig	gid Tire)*	lb	52,541	52,124	52,182	51,762		
Stat	tic Tipping Load,	kg	19 343	19 155	19 183	18 994		
Arti	iculated (ISO)*	lb	42,632	42,219	42,280	41,864		
	tic Tipping Load, Articulated	kg	20 608	20 418	20 457	20 266		
(Rig	gid Tire)*	lb	45,420	45,002	45,087	44,667		
Brea	akout Force(§)	kN	210	207	199	197		
		lbf	47,182	46,666	44,880	44,374		
0	erating Weight*	kg	30 523	30 661	30 585	30 723		
Ope	5140111B 11 61B110	0						

<sup>\*</sup> Static tipping loads and operating weights shown are based on a machine configuration with Bridgestone 29.5R25 VSNT L4 radial tires, full fluids, operator, counterweight, ride control, cold start, roading fenders, power train guard, secondary steering and sound suppression.

<sup>†</sup> Illustration shown with Dimension charts.

<sup>\*\*\*</sup>Rock bucket specifications are given on Bridgestone 29.5R25 VSDT L5 Radial tires.

<sup>(\$)</sup>Measured 102 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732C.

<sup>(§)</sup> Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers, including SAE Standard J732C governing loader ratings.

<sup>(</sup>ISO) Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

<sup>(</sup>Rigid Tire) Compliance to ISO 14397-1:2007 Sections 1 thru 5.

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

#### **Operating Specifications – Buckets (continued)**

Linkage	Standard Linkage					
Bucket Type	General Purpose – Pin On – Abrasion					
Edge Type		Bolt-On Cutting Edges	Teeth and Segments	Bolt-On Cutting Edges	Teeth and Segments	
Capacity – Rated	$m^3$	5.70	5.70	6.00	6.00	
	yd³	7.50	7.50	7.75	7.75	
Capacity – Rated at 110% Fill Factor	m <sup>3</sup>	6.30	6.30	6.60	6.60	
	$yd^3$	8.25	8.25	8.75	8.75	
Width	mm	3447	3535	3447	3546	
	ft/in	11'3"	11'7"	11'3"	11'7"	
6† Dump Clearance at Maximum Lift and 45° Discharge	mm	3219	3051	3201	3037	
	ft/in	10'6"	10'0"	10'6"	9'11"	
<b>7</b> † Reach at Maximum Lift and 45° Discharge	mm	1529	1664	1550	1685	
	ft/in	5'0"	5'5"	5'1"	5'6"	
Reach at Level Lift Arm and Bucket Level	mm	3050	3261	3077	3286	
	ft/in	10'0"	10'8"	10'1"	10'9"	
A† Digging Depth	mm	88	88	88	88	
	in	3.4"	3.4"	3.4"	3.4"	
2† Overall Length	mm	9757	9999	9784	10 021	
	ft/in	32'1"	32'10"	32'2"	32'11"	
<b>B</b> † Overall Height with Bucket at Maximum Lift	mm	6258	6258	6524	6524	
	ft/in	20'7"	20'7"	21'5"	21'5"	
Loader Clearance Circle Radius with Bucket	mm	7635	7749	7642	7760	
at Carry Position	ft/in	25'1"	25'6"	25'1"	25'6"	
Static Tipping Load, Straight (ISO)*	kg	22 405	22 218	22 350	22 189	
	lb	49,381	48,969	49,259	48,906	
Static Tipping Load, Straight (Rigid Tire)*	kg	23 815	23 626	23 754	23 592	
	lb	52,489	52,073	52,355	51,998	
Static Tipping Load, Articulated (ISO)*	kg	19 319	19 132	19 279	19 118	
	lb	42,580	42,167	42,491	42,137	
Static Tipping Load, Articulated (Rigid Tire)*	kg	20 579	20 390	20 535	20 373	
	lb	45,357	44,941	45,259	44,903	
Breakout Force(§)	kN	213	211	210	208	
(0)	lbf	48,005	47,485	47,198	46,738	
Operating Weight*	kg	30 573	30 711	30 522	30 639	
1 0 0 0 0	lb	67,382	67,687	67,269	67,528	

<sup>\*</sup> Static tipping loads and operating weights shown are based on a machine configuration with Bridgestone 29.5R25 VSNT L4 radial tires, full fluids, operator, counterweight, ride control, cold start, roading fenders, power train guard, secondary steering and sound suppression.

(Rigid Tire) Compliance to ISO14397-1:2007 Sections 1 thru 5.

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

 $<sup>\</sup>ensuremath{^{\dagger}}$  Illustration shown with Dimension charts.

<sup>\*\*\*</sup>Rock bucket specifications are given on Bridgestone 29.5R25 VSDT L5 Radial tires.

<sup>(§)</sup>Measured 102 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732C.

<sup>(§)</sup>Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers, including SAE Standard J732C governing loader ratings.

<sup>(</sup>ISO) Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

Linkage		Standard Linkage					
Bucket Type		Flat Floor – Pin On		Flat Floor – Pin On – Light Material (Coal)			
Edge Type		Bolt-On Cutting Edges	Teeth and Segments	Bolt-On Cutting Edges			
Capacity – Rated	m <sup>3</sup>	5.70	5.70	8.40			
	$yd^3$	7.50	7.50	11.00			
Capacity - Rated at 110% Fill Factor	$m^3$	6.30	6.30	9.20			
	$yd^3$	8.25	8.25	12.00			
Width	mm	3447	3535	3638			
	ft/in	11'3"	11'7"	11'11"			
6† Dump Clearance at Maximum Lift	mm	3120	2943	2936			
and 45° Discharge	ft/in	10'2"	9'7"	9'7"			
<b>7</b> † Reach at Maximum Lift and	mm	1444	1566	1628			
45° Discharge	ft/in	4'8"	5'1"	5'4"			
Reach at Level Lift Arm and	mm	3075	3286	3335			
Bucket Level	ft/in	10'1"	10'9"	10'11"			
A† Digging Depth	mm	88	88	88			
	in	3.4"	3.4"	3.4"			
<b>2</b> † Overall Length	mm	9782	10 024	10 042			
	ft/in	32'2"	32'11"	33'0"			
3† Overall Height with Bucket at	mm	6257	6257	6781			
Maximum Lift	ft/in	20'7"	20'7"	22'3"			
Loader Clearance Circle Radius	mm	7642	7756	7802			
with Bucket at Carry Position	ft/in	25'1"	25'6"	25'8"			
Static Tipping Load, Straight (ISO)*	kg	22 062	21 878	21 915			
	lb	48,626	48,220	48,314			
Static Tipping Load, Straight	kg	23 432	23 246	23,387			
(Rigid Tire)*	lb	51,644	51,234	51,559			
Static Tipping Load,	kg	19 030	18 846	18 842			
Articulated (ISO)*	lb	41,943	41,536	41,540			
Static Tipping Load, Articulated	kg	20 254	20 068	20 164			
(Rigid Tire)*	lb	44,640	44,230	44,454			
Breakout Force(§)	kN	210	208	178			
	lbf	47,288	46,772	40,069			
Operating Weight*	kg	30 552	30 690	30 851			
	lb	67,336	67,641	68,013			

<sup>\*</sup> Static tipping loads and operating weights shown are based on a machine configuration with Bridgestone 29.5R25 VSNT L4 radial tires, full fluids, operator, counterweight, ride control, cold start, roading fenders, power train guard, secondary steering and sound suppression.

<sup>†</sup> Illustration shown with Dimension charts.

<sup>\*\*\*</sup>Rock bucket specifications are given on Bridgestone 29.5R25 VSDT L5 Radial tires.

<sup>(§)</sup>Measured 102 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732C.

<sup>(§)</sup> Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers, including SAE Standard J732C governing loader ratings.

<sup>(</sup>ISO) Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

<sup>(</sup>Rigid Tire) Compliance to ISO 14397-1:2007 Sections 1 thru 5.

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

#### **Operating Specifications – Buckets (continued)**

Linkage		Standard Linkage			
Bucket Type		Rock, Spade*** – Pin On			
Edge Type		Teeth and Segments	Teeth and Segments		
Capacity – Rated	$m^3$	4.40	4.50		
	yd³	5.75	6.00		
Capacity - Rated at 110% Fill Factor	$m^3$	4.80	5.00		
	$yd^3$	6.25	6.50		
Width	mm	3524	3524		
	ft/in	11'6"	11'6"		
6† Dump Clearance at Maximum Lift	mm	3134	3134		
and 45° Discharge	ft/in	10'3"	10'3"		
7† Reach at Maximum Lift and	mm	1768	1768		
45° Discharge	ft/in	5'9"	5'9"		
Reach at Level Lift Arm and	mm	3278	3278		
Bucket Level	ft/in	10'9"	10'9"		
A† Digging Depth	mm	83	83		
	in	3.2"	3.2"		
† Overall Length	mm	9990	9990		
	ft/in	32'10"	32'10"		
3† Overall Height with Bucket at	mm	6209	6209		
Maximum Lift	ft/in	20'5"	20'5"		
Loader Clearance Circle Radius	mm	7738	7738		
with Bucket at Carry Position	ft/in	25'5"	25'5"		
Static Tipping Load, Straight (ISO)*	kg	23 435	23 076		
	lb	51,651	50,874		
Static Tipping Load, Straight	kg	24 871	24 523		
(Rigid Tire)*	lb	54,817	54,064		
Static Tipping Load,	kg	20 232	19 867		
Articulated (ISO)*	lb	44,593	43,801		
Static Tipping Load, Articulated	kg	21 513	21 158		
(Rigid Tire)*	lb	47,415	46,646		
Breakout Force(§)	kN	213	211		
νο,	lbf	47,885	47,563		
Operating Weight*	kg	31 030	31 455		
1 0 0	lb	68,390	69,345		

<sup>\*</sup> Static tipping loads and operating weights shown are based on a machine configuration with Bridgestone 29.5R25 VSNT L4 radial tires, full fluids, operator, counterweight, ride control, cold start, roading fenders, power train guard, secondary steering and sound suppression.

(Rigid Tire) Compliance to ISO 14397-1:2007 Sections 1 thru 5.

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

<sup>†</sup> Illustration shown with Dimension charts.

<sup>\*\*\*</sup>Rock bucket specifications are given on Bridgestone 29.5R25 VSDT L5 Radial tires.

<sup>(§)</sup>Measured 102 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732C.

<sup>(§)</sup>Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers, including SAE Standard J732C governing loader ratings.

<sup>(</sup>ISO) Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

Linkage		Standar	d Linkage			
Bucket Type		General Purpose — Hook On — Fusion™				
Edge Type		Bolt-On Cutting Edges	Teeth and Segments	Bolt-On Cutting Edges	Teeth and Segments	
Capacity – Rated	m <sup>3</sup>	5.40	5.40	5.70	5.70	
	$yd^3$	7.00	7.00	7.50	7.50	
Capacity - Rated at 110% Fill Factor	$m^3$	5.90	5.90	6.30	6.30	
	$yd^3$	7.75	7.75	8.25	8.25	
Width	mm	3447	3535	3447	3535	
	ft/in	11'3"	11'7"	11'3"	11'7"	
16† Dump Clearance at Maximum Lift	mm	3183	3017	3117	2950	
and 45° Discharge	ft/in	10'5"	9'10"	10'2"	9'8"	
17† Reach at Maximum Lift and	mm	1588	1724	1640	1775	
45° Discharge	ft/in	5'2"	5'7"	5'4"	5'9"	
Reach at Level Lift Arm and	mm	3116	3327	3200	3411	
Bucket Level	ft/in	10'2"	10'11"	10'6"	11'2"	
A† Digging Depth	mm	93	93	93	93	
	in	3.6"	3.6"	3.6"	3.6"	
12† Overall Length	mm	9827	10 069	9911	10 153	
	ft/in	32'3"	33'1"	32'7"	33'4"	
<b>B</b> † Overall Height with Bucket at	mm	6532	6532	6599	6599	
Maximum Lift	ft/in	21'6"	21'6"	21'8"	21'8"	
Loader Clearance Circle Radius	mm	7694	7817	7721	7845	
with Bucket at Carry Position	ft/in	25'3"	25'8"	25'4"	25'9"	
Static Tipping Load, Straight (ISO)*	kg	21 361	21 177	21 136	20 950	
	lb	47,080	46,674	46,584	46,175	
Static Tipping Load, Straight	kg	22 728	22 542	22 511	22 324	
(Rigid Tire)*	1b	50,092	49,682	49,615	49,202	
Static Tipping Load,	kg	18 354	18 169	18 140	17 954	
Articulated (ISO)*	lb	40,452	40,046	39,981	39,572	
Static Tipping Load, Articulated	kg	19 576	19 390	19 372	19 185	
(Rigid Tire)*	lb	43,147	42,737	42,697	42,284	
Breakout Force(§)	kN	203	201	193	190	
	lbf	45,829	45,315	43,399	42,894	
Operating Weight*	kg	31 086	31 224	31 196	31 334	
	lb	68,513	68,817	68,755	69,060	

<sup>\*</sup> Static tipping loads and operating weights shown are based on a machine configuration with Bridgestone 29.5R25 VSNT L4 radial tires, full fluids, operator, counterweight, ride control, cold start, roading fenders, power train guard, secondary steering and sound suppression.

<sup>†</sup> Illustration shown with Dimension charts.

<sup>\*\*\*</sup>Rock bucket specifications are given on Bridgestone 29.5R25 VSDT L5 Radial tires.

<sup>(§)</sup>Measured 102 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732C.

<sup>(§)</sup> Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers, including SAE Standard J732C governing loader ratings.

<sup>(</sup>ISO) Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

<sup>(</sup>Rigid Tire) Compliance to ISO 14397-1:2007 Sections 1 thru 5.

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

Linkage		High Lif	ft Linkage		
Bucket Type			General Pur	pose – Pin On	
Edge Type		Bolt-On Cutting Edges	Teeth and Segments	Bolt-On Cutting Edges	Teeth and Segments
Capacity – Rated	$m^3$	5.40	5.40	5.70	5.70
	$yd^3$	7.00	7.00	7.50	7.50
Capacity - Rated at 110% Fill Factor	$m^3$	5.90	5.90	6.30	6.30
	$yd^3$	7.75	7.75	8.25	8.25
Width	mm	3447	3535	3447	3535
	ft/in	11'3"	11'7"	11'3"	11'7"
16† Dump Clearance at Maximum Lift	mm	3508	3342	3439	3272
and 45° Discharge	ft/in	11'6"	10'11"	11'3"	10'8"
17† Reach at Maximum Lift and	mm	1484	1621	1532	1667
45° Discharge	ft/in	4'10"	5'3"	5'0"	5'5"
Reach at Level Lift Arm and	mm	3126	3337	3210	3421
Bucket Level	ft/in	10'3"	10'11"	10'6"	11'2"
A† Digging Depth	mm	86	86	86	86
	in	3.4"	3.4"	3.4"	3.4"
12† Overall Length	mm	9875	10 114	9959	10 198
	ft/in	32'5"	33'3"	32'9"	33'6"
<b>B</b> † Overall Height with Bucket at	mm	6656	6656	6478	6478
Maximum Lift	ft/in	21'11"	21'11"	21'4"	21'4"
Loader Clearance Circle Radius	mm	8114	8226	8137	8250
with Bucket at Carry Position	ft/in	26'8"	27'0"	26'9"	27'1"
Static Tipping Load, Straight (ISO)*	kg	20 833	20 650	20 603	20 419
	lb	45,917	45,513	45,410	45,004
Static Tipping Load, Straight	kg	22 033	21 849	21 805	21 619
(Rigid Tire)*	lb	48,562	48,156	48,058	47,649
Static Tipping Load,	kg	18 354	18 171	18 137	17 953
Articulated (ISO)*	lb	40,453	40,049	39,975	39,569
Static Tipping Load, Articulated	kg	19 430	19 245	19 215	19 029
(Rigid Tire)*	lb	42,823	42,416	42,351	41,941
Breakout Force(§)	kN	230	228	217	215
	lbf	51,775	51,273	48,860	48,369
Operating Weight*	kg	30 477	30 616	30 560	30 699
	lb	67,171	67,476	67,354	67,659

<sup>\*</sup> Static tipping loads and operating weights shown are based on a machine configuration with Bridgestone 29.5R25 VSNT L4 radial tires, full fluids, operator, counterweight, ride control, cold start, roading fenders, power train guard, secondary steering and sound suppression.

<sup>†</sup> Illustration shown with Dimension charts.

<sup>\*\*\*</sup>Rock bucket specifications are given on Bridgestone 29.5R25 VSDT L5 Radial tires.

<sup>(§)</sup>Measured 102 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732C.

<sup>(§)</sup>Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers, including SAE Standard J732C governing loader ratings.

<sup>(</sup>ISO) Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

<sup>(</sup>Rigid Tire) Compliance to ISO 14397-1:2007 Sections 1 thru 5.

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

Linkage			High Li	ft Linkage	
Bucket Type			General Pur	rpose – Pin On	
Edge Type		Bolt-On Cutting Edges	Teeth and Segments	Bolt-On Cutting Edges	Teeth and Segments
Capacity – Rated	$m^3$	6.00	6.00	6.40	6.40
	$yd^3$	7.75	7.75	8.25	8.25
Capacity - Rated at 110% Fill Factor	$m^3$	6.60	6.60	7.00	7.00
	$yd^3$	8.75	8.75	9.25	9.25
Width	mm	3447	3535	3447	3535
	ft/in	11'3"	11'7"	11'3"	11'7"
16† Dump Clearance at Maximum Lift	mm	3421	3254	3366	3198
and 45° Discharge	ft/in	11'2"	10'8"	11'0"	10'5"
17† Reach at Maximum Lift and	mm	1554	1688	1606	1740
45° Discharge	ft/in	5'1"	5'6"	5'3"	5'8"
Reach at Level Lift Arm and	mm	3238	3449	3315	3526
Bucket Level	ft/in	10'7"	11'3"	10'10"	11'6"
A† Digging Depth	mm	86	86	86	86
	in	3.4"	3.4"	3.4"	3.4"
12† Overall Length	mm	9987	10 226	10 064	10 303
	ft/in	32'10"	33'7"	33'1"	33'10"
<b>B</b> † Overall Height with Bucket at	mm	6504	6504	6824	6824
Maximum Lift	ft/in	21'5"	21'5"	22'5"	22'5"
Loader Clearance Circle Radius	mm	8144	8258	8166	8279
with Bucket at Carry Position	ft/in	26'9"	27'2"	26'10"	27'2"
Static Tipping Load, Straight (ISO)*	kg	20 466	20 282	20 302	20 117
	lb	45,108	44,702	44,747	44,338
Static Tipping Load, Straight	kg	21 669	21 483	21 512	21 324
(Rigid Tire)*	lb	47,760	47,350	47,413	47,000
Static Tipping Load,	kg	18 004	17 820	17 850	17 664
Articulated (ISO)*	lb	39,682	39,275	39,342	38,932
Static Tipping Load, Articulated	kg	19 084	18 898	18 937	18 749
(Rigid Tire)*	lb	42,062	41,651	41,737	41,323
Breakout Force(§)	kN	213	211	202	200
	lbf	47,897	47,409	45,564	45,084
Operating Weight*	kg	30 656	30 795	30 718	30 857
	lb	67,566	67,871	67,703	68,007

<sup>\*</sup> Static tipping loads and operating weights shown are based on a machine configuration with Bridgestone 29.5R25 VSNT L4 radial tires, full fluids, operator, counterweight, ride control, cold start, roading fenders, power train guard, secondary steering and sound suppression.

<sup>†</sup> Illustration shown with Dimension charts.

<sup>\*\*\*</sup>Rock bucket specifications are given on Bridgestone 29.5R25 VSDT L5 Radial tires.

<sup>(§)</sup>Measured 102 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732C.

<sup>(§)</sup>Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers, including SAE Standard J732C governing loader ratings.

<sup>(</sup>ISO) Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

<sup>(</sup>Rigid Tire) Compliance to ISO 14397-1:2007 Sections 1 thru 5.

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

Linkage	High Lift Linkage				
Bucket Type			General Purpose	– Pin On – Abrasion	
Edge Type		Bolt-On Cutting Edges	Teeth and Segments	Bolt-On Cutting Edges	Teeth and Segments
Capacity – Rated	$m^3$	5.70	5.70	6.00	6.00
	yd³	7.50	7.50	7.75	7.75
Capacity - Rated at 110% Fill Factor	$m^3$	6.30	6.30	6.60	6.60
	$yd^3$	8.25	8.25	8.75	8.75
Width	mm	3447	3535	3447	3546
	ft/in	11'3"	11'7"	11'3"	11'7"
16† Dump Clearance at Maximum Lift	mm	3439	3272	3422	3258
and 45° Discharge	ft/in	11'3"	10'8"	11'2"	10'8"
17† Reach at Maximum Lift and	mm	1532	1667	1553	1688
45° Discharge	ft/in	5'0"	5'5"	5'1"	5'6"
Reach at Level Lift Arm and	mm	3210	3421	3237	3446
Bucket Level	ft/in	10'6"	11'2"	10'7"	11'3"
A† Digging Depth	mm	86	86	86	86
	in	3.4"	3.4"	3.4"	3.4"
12† Overall Length	mm	9959	10 198	9986	10 221
	ft/in	32'9"	33'6"	32'10"	33'7"
<b>B</b> † Overall Height with Bucket at	mm	6478	6478	6744	6744
Maximum Lift	ft/in	21'4"	21'4"	22'2"	22'2"
Loader Clearance Circle Radius	mm	8137	8250	8144	8261
with Bucket at Carry Position	ft/in	26'9"	27'1"	26'9"	27' 2"
Static Tipping Load, Straight (ISO)*	kg	20 445	20 261	20 403	20 245
	lb	45,062	44,656	44,968	44,621
Static Tipping Load, Straight	kg	21 645	21 459	21 598	21 439
(Rigid Tire)*	lb	47,706	47,296	47,604	47,253
Static Tipping Load,	kg	17 980	17 795	17 949	17 791
Articulated (ISO)*	lb	39,628	39,222	39,560	39,212
Static Tipping Load, Articulated	kg	19 055	18 870	19 022	18 862
(Rigid Tire)*	lb	41,999	41,589	41,924	41,573
Breakout Force(§)	kN	216	214	213	211
	lbf	48,733	48,241	47,914	47,479
Operating Weight*	kg	30 707	30 845	30 655	30 773
	lb	67,677	67,981	67,563	67,822

<sup>\*</sup> Static tipping loads and operating weights shown are based on a machine configuration with Bridgestone 29.5R25 VSNT L4 radial tires, full fluids, operator, counterweight, ride control, cold start, roading fenders, power train guard, secondary steering and sound suppression.

<sup>†</sup> Illustration shown with Dimension charts.

<sup>\*\*\*</sup>Rock bucket specifications are given on Bridgestone 29.5R25 VSDT L5 Radial tires.

<sup>(§)</sup>Measured 102 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732C.

<sup>(§)</sup>Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers, including SAE Standard J732C governing loader ratings.

<sup>(</sup>ISO) Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

<sup>(</sup>Rigid Tire) Compliance to ISO 14397-1:2007 Sections 1 thru 5.

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

Linkage		High Lift Linkage				
Bucket Type		Flat Floor	Flat Floor – Pin On – Light Material (Coal)			
Edge Type		Bolt-On Cutting Edges	Teeth and Segments	Bolt-On Cutting Edges		
Capacity – Rated	m <sup>3</sup>	5.70	5.70	8.40		
	$yd^3$	7.50	7.50	11.00		
Capacity - Rated at 110% Fill Factor	$m^3$	6.30	6.30	9.20		
	$yd^3$	8.25	8.25	12.00		
Width	mm	3447	3535	3638		
	ft/in	11'3"	11'7"	11'11"		
6† Dump Clearance at Maximum Lift	mm	3340	3163	3156		
and 45° Discharge	ft/in	10'11"	10'4"	10'4"		
7† Reach at Maximum Lift and	mm	1447	1569	1631		
45° Discharge	ft/in	4'8"	5'1"	5'4"		
Reach at Level Lift Arm and	mm	3235	3446	3495		
Bucket Level	ft/in	10'7"	11'3"	11'5"		
A† Digging Depth	mm	86	86	88		
	in	3.4"	3.4"	3.4"		
2† Overall Length	mm	9984	10 223	10 244		
	ft/in	32'10"	33'7"	33'8"		
B† Overall Height with Bucket at	mm	6477	6477	7001		
Maximum Lift	ft/in	21'3"	21'3"	23'0"		
Loader Clearance Circle Radius	mm	8143	8257	8303		
with Bucket at Carry Position	ft/in	26'9"	27'2"	27'3"		
Static Tipping Load, Straight (ISO)*	kg	20 155	19 973	19 951		
	lb	44,423	44,022	43,985		
Static Tipping Load, Straight	kg	21 323	21 140	21 198		
(Rigid Tire)*	lb	46,996	46,592	46,735		
Static Tipping Load,	kg	17 730	17 548	17 498		
Articulated (ISO)*	lb	39,077	38,677	38,578		
Static Tipping Load, Articulated	kg	18 777	18 594	18 623		
(Rigid Tire)*	lb	41,386	40,982	41,057		
Breakout Force(§)	kN	213	211	181		
	lbf	48,005	47,516	40,689		
Operating Weight*	kg	30 685	30 824	30 984		
	lb	67,630	67,935	68,307		

<sup>\*</sup> Static tipping loads and operating weights shown are based on a machine configuration with Bridgestone 29.5R25 VSNT L4 radial tires, full fluids, operator, counterweight, ride control, cold start, roading fenders, power train guard, secondary steering and sound suppression.

<sup>†</sup> Illustration shown with Dimension charts.

<sup>\*\*\*</sup>Rock bucket specifications are given on Bridgestone 29.5R25 VSDT L5 Radial tires.

<sup>(§)</sup>Measured 102 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732C.

<sup>(§)</sup> Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers, including SAE Standard J732C governing loader ratings.

<sup>(</sup>ISO) Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

<sup>(</sup>Rigid Tire) Compliance to ISO 14397-1:2007 Sections 1 thru 5.

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

#### **Operating Specifications – Buckets (continued)**

Linkage		High Lif	t Linkage	
Bucket Type		Rock, Spade	e*** – Pin On	
Edge Type		Teeth and Segments	Teeth and Segments	
Capacity – Rated	$m^3$	4.40	4.50	
	yd³	5.75	6.00	
Capacity – Rated at 110% Fill Factor	m <sup>3</sup>	4.80	5.00	
	$yd^3$	6.25	6.50	
Width	mm	3524	3524	
	ft/in	11'6"	11'6"	
6† Dump Clearance at Maximum Lift	mm	3355	3355	
and 45° Discharge	ft/in	11'0"	11'0"	
7† Reach at Maximum Lift and	mm	1771	1771	
45° Discharge	ft/in	5'9"	5'9"	
Reach at Level Lift Arm and	mm	3438	3438	
Bucket Level	ft/in	11'3"	11'3"	
A† Digging Depth	mm	81	81	
	in	3.2"	3.2"	
2† Overall Length	mm	10 192	10 192	
	ft/in	33'6"	33'6"	
3† Overall Height with Bucket at	mm	6422	6429	
Maximum Lift	ft/in	21'1"	21'2"	
Loader Clearance Circle Radius	mm	8239	8239	
with Bucket at Carry Position	ft/in	27'1"	27'1"	
Static Tipping Load, Straight (ISO)*	kg	21 403	21 035	
	lb	47,172	46,375	
Static Tipping Load, Straight	kg	22 626	22 266	
(Rigid Tire)*	lb	49,867	49,089	
Static Tipping Load,	kg	18 844	18 472	
Articulated (ISO)*	lb	41,533	40,725	
Static Tipping Load, Articulated	kg	19 938	19 574	
(Rigid Tire)*	lb	43,944	43,154	
Breakout Force(§)	kN	216	214	
	lbf	48,615	48,291	
Operating Weight*	kg	31 164	31 588	
	lb	68,685	69,639	

<sup>\*</sup> Static tipping loads and operating weights shown are based on a machine configuration with Bridgestone 29.5R25 VSNT L4 radial tires, full fluids, operator, counterweight, ride control, cold start, roading fenders, power train guard, secondary steering and sound suppression.

(Rigid Tire) Compliance to ISO 14397-1:2007 Sections 1 thru 5.

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

<sup>†</sup> Illustration shown with Dimension charts.

<sup>\*\*\*</sup>Rock bucket specifications are given on Bridgestone 29.5R25 VSDT L5 Radial tires.

<sup>(§)</sup>Measured 102 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732C.

<sup>(§)</sup>Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers, including SAE Standard J732C governing loader ratings.

<sup>(</sup>ISO) Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

Linkage		High Lift Linkage			
Bucket Type			General Purpose	– Hook On – Fusion	
Edge Type		Bolt-On Cutting Edges	Teeth and Segments	Bolt-On Cutting Edges	Teeth and Segments
Capacity – Rated	$m^3$	5.40	5.40	5.70	5.70
	$yd^3$	7.00	7.00	7.50	7.50
Capacity - Rated at 110% Fill Factor	$m^3$	5.90	5.90	6.30	6.30
	$yd^3$	7.75	7.75	8.25	8.25
Width	mm	3447	3535	3481	3546
	ft/in	11'3"	11'7"	11'5"	11'7"
16† Dump Clearance at Maximum Lift	mm	3403	3237	3339	3175
and 45° Discharge	ft/in	11'2"	10'7"	10'11"	10'5"
17† Reach at Maximum Lift and	mm	1591	1727	1641	1776
45° Discharge	ft/in	5'2"	5'8"	5'4"	5'9"
Reach at Level Lift Arm and	mm	3276	3487	3358	3567
Bucket Level	ft/in	10'8"	11'5"	11'0"	11'8"
A† Digging Depth	mm	91	91	91	91
	in	3.6"	3.6"	3.6"	3.6"
12† Overall Length	mm	10 028	10 268	10 110	10 345
	ft/in	32'11"	33'9"	33'3"	34'0"
<b>B</b> † Overall Height with Bucket at	mm	6752	6752	6820	6820
Maximum Lift	ft/in	22'2"	22'2"	22'5"	22'5"
Loader Clearance Circle Radius	mm	8199	8321	8240	8351
with Bucket at Carry Position	ft/in	26'11"	27'4"	27'1"	27'5"
Static Tipping Load, Straight (ISO)*	kg	19 474	19 292	19 237	19 081
	lb	42,920	42,521	42,400	42,054
Static Tipping Load, Straight	kg	20 638	20 455	20 406	20 248
(Rigid Tire)*	lb	45,488	45,084	44,975	44,626
Static Tipping Load,	kg	17 068	16 887	16 842	16 685
Articulated (ISO)*	lb	37,619	37,219	37,121	36,775
Static Tipping Load, Articulated	kg	18 114	17 931	17 892	17 734
(Rigid Tire)*	lb	39,923	39,520	39,435	39,086
Breakout Force(§)	kN	207	204	196	194
	lbf	46,533	46,045	44,095	43,669
Operating Weight*	kg	31 219	31 358	31 342	31 460
	lb	68,807	69,112	69,077	69,336

<sup>\*</sup> Static tipping loads and operating weights shown are based on a machine configuration with Bridgestone 29.5R25 VSNT L4 radial tires, full fluids, operator, counterweight, ride control, cold start, roading fenders, power train guard, secondary steering and sound suppression.

<sup>†</sup> Illustration shown with Dimension charts.

<sup>\*\*\*</sup>Rock bucket specifications are given on Bridgestone 29.5R25 VSDT L5 Radial tires.

<sup>(§)</sup>Measured 102 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732C.

<sup>(§)</sup> Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers, including SAE Standard J732C governing loader ratings.

<sup>(</sup>ISO) Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

<sup>(</sup>Rigid Tire) Compliance to ISO 14397-1:2007 Sections 1 thru 5.

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

Linkage			Aggregate H	andler Linkage	
Bucket Type			General Pur	rpose – Pin On	
Edge Type		Bolt-On Cutting Edges	Teeth and Segments	Bolt-On Cutting Edges	Teeth and Segments
Capacity – Rated	$m^3$	5.40	5.40	5.70	5.70
	$yd^3$	7.00	7.00	7.50	7.50
Capacity - Rated at 110% Fill Factor	$m^3$	5.90	5.90	6.30	6.30
	yd³	7.75	7.75	8.25	8.25
Width	mm	3447	3535	3447	3535
	ft/in	11'3"	11'7"	11'3"	11'7"
<b>16</b> † Dump Clearance at Maximum Lift	mm	3287	3121	3219	3051
and 45° Discharge	ft/in	10'9"	10'2"	10'6"	10'0"
17† Reach at Maximum Lift and	mm	1481	1618	1529	1664
45° Discharge	ft/in	4'10"	5'3"	5'0"	5'5"
Reach at Level Lift Arm and	mm	2966	3177	3050	3261
Bucket Level	ft/in	9'8"	10'5"	10'0"	10'8"
A† Digging Depth	mm	88	88	88	88
	in	3.4"	3.4"	3.4"	3.4"
12† Overall Length	mm	9677	9919	9761	10 003
	ft/in	31'9"	32'7"	32'1"	32'10"
<b>B</b> † Overall Height with Bucket at	mm	6435	6435	6258	6258
Maximum Lift	ft/in	21'2"	21'2"	20'7"	20'7"
Loader Clearance Circle Radius	mm	7612	7725	7635	7749
with Bucket at Carry Position	ft/in	25'0"	25'5"	25'1"	25'6"
Static Tipping Load, Straight (ISO)*	kg	24 404	24 218	24 149	23 963
	lb	53,786	53,377	53,226	52,814
Static Tipping Load, Straight	kg	25 939	25 752	25 687	25 498
(Rigid Tire)*	lb	57,171	56,758	56,615	56,199
Static Tipping Load,	kg	21 012	20 826	20 776	20 589
Articulated (ISO)*	lb	46,312	45,902	45,792	45,380
Static Tipping Load, Articulated	kg	22 406	22 218	22 173	21 984
(Rigid Tire)*	lb	49,383	48,969	48,870	48,454
Breakout Force(§)	kN	227	224	214	211
	lbf	51,008	50,477	48,132	47,613
Operating Weight*	kg	30 985	31 123	31 068	31 206
	lb	68,290	68,595	68,473	68,778

<sup>\*</sup> Static tipping loads and operating weights shown are based on a machine configuration with Bridgestone 29.5R25 VSNT L4 radial tires, full fluids, operator, counterweight, ride control, cold start, roading fenders, power train guard, secondary steering and sound suppression.

<sup>\*\*</sup> Aggregate Handler configuration is not compatible with rock buckets, and high lift.

<sup>†</sup> Illustration shown with Dimension charts.

<sup>(§)</sup>Measured 102 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732C.

<sup>(§)</sup> Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers, including SAE Standard J732C governing loader ratings.

<sup>(</sup>ISO) Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

<sup>(</sup>Rigid Tire) Compliance to ISO 14397-1:2007 Sections 1 thru 5.

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

Linkage		Aggregate Handler Linkage			
Bucket Type			General Pu	rpose – Pin On	
Edge Type		Bolt-On Cutting Edges	Teeth and Segments	Bolt-On Cutting Edges	Teeth and Segments
Capacity – Rated	$m^3$	6.00	6.00	6.40	6.40
	$yd^3$	7.75	7.75	8.25	8.25
Capacity – Rated at 110% Fill Factor	$m^3$	6.60	6.60	7.00	7.00
	$yd^3$	8.75	8.75	9.25	9.25
Width	mm	3447	3535	3447	3535
	ft/in	11'3"	11'7"	11'3"	11'7"
16† Dump Clearance at Maximum Lift	mm	3201	3034	3145	2977
and 45° Discharge	ft/in	10'6"	9'11"	10'3"	9'9"
17† Reach at Maximum Lift and	mm	1551	1686	1603	1737
45° Discharge	ft/in	5'1"	5'6"	5'3"	5'8"
Reach at Level Lift Arm and	mm	3078	3289	3155	3366
Bucket Level	ft/in	10'1"	10'9"	10'4"	11'0"
A† Digging Depth	mm	88	88	88	88
	in	3.4"	3.4"	3.4"	3.4"
12† Overall Length	mm	9789	10 031	9866	10 108
	ft/in	32'2"	32'11"	32'5"	33'2"
<b>B</b> † Overall Height with Bucket at	mm	6284	6284	6604	6604
Maximum Lift	ft/in	20'8"	20'8"	21'8"	21'8"
Loader Clearance Circle Radius	mm	7643	7757	7664	7779
with Bucket at Carry Position	ft/in	25'1"	25'6"	25'2"	25'7"
Static Tipping Load, Straight (ISO)*	kg	24 006	23 819	23 828	23 639
	lb	52,910	52,498	52,517	52,102
Static Tipping Load, Straight	kg	25 547	25 357	25 377	25 186
(Rigid Tire)*	lb	56,305	55,888	55,932	55,512
Static Tipping Load,	kg	20 638	20 451	20 472	20 283
Articulated (ISO)*	lb	45,488	45,074	45,121	44,705
Static Tipping Load, Articulated	kg	22 038	21 849	21 882	21 691
(Rigid Tire)*	lb	48,572	48,155	48,228	47,807
Breakout Force (§)	kN	210	207	199	197
	lbf	47,182	46,666	44,880	44,374
Operating Weight*	kg	31 164	31 302	31 226	31 364
	lb	68,685	68,990	68,822	69,126

<sup>\*</sup> Static tipping loads and operating weights shown are based on a machine configuration with Bridgestone 29.5R25 VSNT L4 radial tires, full fluids, operator, counterweight, ride control, cold start, roading fenders, power train guard, secondary steering and sound suppression.

<sup>\*\*</sup> Aggregate Handler configuration is not compatible with rock buckets, and high lift.

<sup>†</sup> Illustration shown with Dimension charts.

<sup>(\$)</sup>Measured 102 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732C.

<sup>(§)</sup> Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers, including SAE Standard J732C governing loader ratings.

<sup>(</sup>ISO) Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

<sup>(</sup>Rigid Tire) Compliance to ISO 14397-1:2007 Sections 1 thru 5.

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

Linkage		Aggregate Handler Linkage			
Bucket Type		Flat Floor	– Pin On	Flat Floor – Pin On – Light Material (Coal)	
Edge Type		Bolt-On Cutting Edges	Teeth and Segments	Bolt-On Cutting Edges	
Capacity – Rated	m <sup>3</sup>	5.70	5.70	8.40	
	$yd^3$	7.50	7.50	11.00	
Capacity - Rated at 110% Fill Factor	$m^3$	6.30	6.30	9.20	
	$yd^3$	8.25	8.25	12.00	
Width	mm	3447	3535	3638	
	ft/in	11'3"	11'7"	11'11"	
16† Dump Clearance at Maximum Lift	mm	3120	2943	2936	
and 45° Discharge	ft/in	10'2"	9'7"	9'7"	
17† Reach at Maximum Lift and	mm	1444	1566	1628	
45° Discharge	ft/in	4'8"	5'1"	5'4"	
Reach at Level Lift Arm and	mm	3075	3286	3335	
Bucket Level	ft/in	10'1"	10'9"	10'11"	
A† Digging Depth	mm	88	88	88	
	in	3.4"	3.4"	3.4"	
12† Overall Length	mm	9786	10 028	10 046	
	ft/in	32'2"	32'11"	33'0"	
<b>B</b> † Overall Height with Bucket at	mm	6257	6257	6781	
Maximum Lift	ft/in	20'7"	20'7"	22'3"	
Loader Clearance Circle Radius	mm	7642	7756	7802	
with Bucket at Carry Position	ft/in	25'1"	25'6"	25'8"	
Static Tipping Load, Straight (ISO)*	kg	23 621	23 437	23 486	
	lb	52,061	51,655	51 778	
Static Tipping Load, Straight	kg	25 111	24 925	25 090	
(Rigid Tire)*	lb	55,346	54,936	55,314	
Static Tipping Load,	kg	20 307	20 122	20 127	
Articulated (ISO)*	lb	44,757	44,350	44,373	
Static Tipping Load, Articulated	kg	21 661	21 475	21 590	
(Rigid Tire)*	lb	47,741	47,330	47,599	
Breakout Force(§)	kN	210	208	178	
	lbf	47,288	46,772	40 069	
Operating Weight*	kg	31 193	31 331	31 492	
	lb	68,749	69,054	69,427	

<sup>\*</sup> Static tipping loads and operating weights shown are based on a machine configuration with Bridgestone 29.5R25 VSNT L4 radial tires, full fluids, operator, counterweight, ride control, cold start, roading fenders, power train guard, secondary steering and sound suppression.

<sup>\*\*</sup> Aggregate Handler configuration is not compatible with rock buckets, and high lift.

<sup>†</sup> Illustration shown with Dimension charts.

<sup>(§)</sup>Measured 102 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732C.

<sup>(§)</sup> Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers, including SAE Standard J732C governing loader ratings.

<sup>(</sup>ISO) Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

<sup>(</sup>Rigid Tire) Compliance to ISO 14397-1:2007 Sections 1 thru 5.

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

Linkage		Aggregate Handler Linkage			
Bucket Type			General Purpose – Hook On – Fusion		
Edge Type		Bolt-On Cutting Edges	Teeth and Segments	Bolt-On Cutting Edges	Teeth and Segments
Capacity – Rated	$m^3$	5.40	5.40	5.70	5.70
	$yd^3$	7.00	7.00	7.50	7.50
Capacity - Rated at 110% Fill Factor	$m^3$	5.90	5.90	6.30	6.30
	$yd^3$	7.75	7.75	8.25	8.25
Width	mm	3447	3535	3447	3535
	ft/in	11'3"	11'7"	11'3"	11'7"
<b>16</b> † Dump Clearance at Maximum Lift	mm	3183	3017	3117	2950
and 45° Discharge	ft/in	10'5"	9'10"	10'2"	9'8"
17† Reach at Maximum Lift and	mm	1588	1724	1640	1775
45° Discharge	ft/in	5'2"	5'7"	5'4"	5'9"
Reach at Level Lift Arm and	mm	3116	3327	3200	3411
Bucket Level	ft/in	10'2"	10'11"	10'6"	11'2"
A† Digging Depth	mm	93	93	93	93
	in	3.6"	3.6"	3.6"	3.6"
12† Overall Length	mm	9831	10 072	9915	10 156
	ft/in	32'4"	33'1"	32'7"	33'4"
<b>B</b> † Overall Height with Bucket at	mm	6532	6532	6599	6599
Maximum Lift	ft/in	21'6"	21'6"	21'8"	21'8"
Loader Clearance Circle Radius	mm	7694	7817	7721	7845
with Bucket at Carry Position	ft/in	25'3"	25'8"	25'4"	25'9"
Static Tipping Load, Straight (ISO)*	kg	22 905	22 721	22 672	22 487
	lb	50,483	50,078	49,970	49,561
Static Tipping Load, Straight	kg	24 393	24 207	24 170	23 983
(Rigid Tire)*	lb	53,763	53,353	53,271	52,858
Static Tipping Load,	kg	19 618	19 434	19 398	19 212
Articulated (ISO)*	lb	43,239	42,833	42,753	42,344
Static Tipping Load, Articulated	kg	20 971	20 785	20 762	20 574
(Rigid Tire)*	lb	46,221	45,812	45,759	45,346
Breakout Force(§)	kN	203	201	193	190
	lbf	45,829	45,315	43,399	42,894
Operating Weight*	kg	31 727	31 865	31 837	31 975
	lb	69,926	70,231	70,168	70,473

<sup>\*</sup> Static tipping loads and operating weights shown are based on a machine configuration with Bridgestone 29.5R25 VSNT L4 radial tires, full fluids, operator, counterweight, ride control, cold start, roading fenders, power train guard, secondary steering and sound suppression.

<sup>\*\*</sup> Aggregate Handler configuration is not compatible with rock buckets, and high lift.

<sup>†</sup> Illustration shown with Dimension charts.

<sup>(§)</sup>Measured 102 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732C.

<sup>(§)</sup> Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers, including SAE Standard J732C governing loader ratings.

<sup>(</sup>ISO) Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

<sup>(</sup>Rigid Tire) Compliance to ISO 14397-1:2007 Sections 1 thru 5.

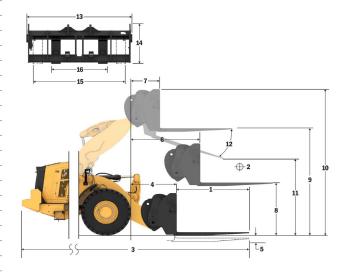
Other buckets are available and offerings vary by region. Consult your local Cat dealer for further details.

#### **Fork Specifications**

#### **Fork Specifications**

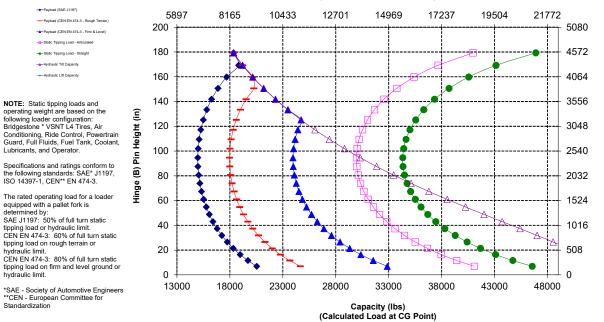
. •	opeomeanem		
1	Tine Length	mm in	1830 72.0
2	Load Center	mm	915
	Load Center	in	36.0
	Static Tipping Load - Straight (Forks Level)	kg	15570
	, , , , , , , , , , , , , , , , , , ,	lbs	34316 13586
	Static Tipping Load - Articulated (Forks Level)	kg Ibs	29943
	D-t-111(0AE 14407, F00/ FTOTL)	kg	6793
	Rated Load (SAE J1197 - 50% FTSTL)	lbs	14971
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg	8151
	Trailor Louis (OLIV LIV II TO Trough Tolliam Gover Toll)	lbs	17966
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	kg Ibs	8327 18352
		mm	10442
3	Maximum Overall Length	in	411.1
4	Reach with Forks at Ground Level	mm	1199
	Reacti with Forks at Glound Level	in	47.2
5	*Ground to Bottom of Tine at Minimum Height and Fork Level	mm	-151
		in	-5.9
6	Reach with Arms Horizontal and Forks Level	mm in	1809 71.2
_	D 1 2 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	mm	883
7	Reach with Fork at Maximum Height	in	34.7
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm	2024
	Ordana to Top of Time Wall / Wille Tronzontal and Tom 2016	in	79.7
9	Ground to Top of Tine at Maximum Height and Fork Level	mm in	4292 169.0
		mm	5067
10	Overall Height of Fork at Full Lift (top of carriage to ground)	in	199.5
11	Clearance at Full Lift and Max Dump	mm	2676
_''	Clearance at Full Lift and Max Dump	in	105.4
12	Max Discharge Angle from Horizontal	deg	45
40	Occasil Occasions Michile	mm	2217
13	Overall Carriage Width	in	87.3
14	Overall Carriage Height	mm	840
	Overall Carriage Freign	in	33.1
15	Outside Tine Width (max spread)	mm in	2070 81.5
		mm	470
16	Outside Tine Width (min spread)	in	18.5
	Tine Width (single tine)	mm	150.0
	into interior (originality)	in	5.9
	Tine Thickness	mm	65.0
_		in ka	2.6 5246
	Tine Capacity	lbs	11562
	Operating Weight	kg	29081
	Operating Weight	lbs	64093





Payload (CEN EN 474-3 - Firm & Level

### Capacity (kg) (Calculated Load at CG Point)





Lubricants, and Operator.

Specifications and ratings conform to the following standards: SAE\* J1197, ISO 14397-1, CEN\*\* EN 474-3.

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 rough terrain or hydraulic limit.



WARNING: Do not exceed tine load capacity. Individual tine capacity is stamped on the side of each tine.

Hinge (B) Pin Height (mm)

<sup>\*</sup>Negative values indicate below grade

### **Fork Specifications**

Fork S	pecifications
--------	---------------

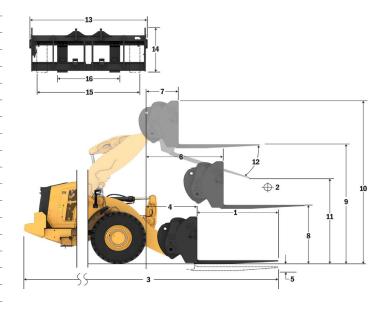
10	ik opecifications		
1	Tine Length	mm in	1829 72.0
_	Lead October	mm	915
2	Load Center	in	36.0
	Static Tipping Load - Straight (Forks Level)	kg	15292
	Otatic Tipping Load - Otraignt (1 Onto Level)	lbs	33703
	Static Tipping Load - Articulated (Forks Level)	kg	13299
	11 5	lbs	29312
	Rated Load (SAE J1197 - 50% FTSTL)	kg	6650 14656
_		lbs kg	7980
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	lbs	17587
		ka	8691
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	lbs	19155
_	Manifestore Occasional and anti-	mm	10383
3	Maximum Overall Length	in	408.8
4	Reach with Forks at Ground Level	mm	1141
	Neach with Lorks at Ground Level	in	44.9
5	*Ground to Bottom of Tine at Minimum Height and Fork Level	mm	-65
	Ground to Bottom of Time at Minimum Floight and Tolk Edvor	in	-2.5
6	Reach with Arms Horizontal and Forks Level	mm	1797
		in	70.7
7	Reach with Fork at Maximum Height	mm	870
	<u> </u>	in	34.2 2135
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm in	84.0
		mm	4403
9	Ground to Top of Tine at Maximum Height and Fork Level	in	173.4
		mm	5443
10	Overall Height of Fork at Full Lift (top of carriage to ground)	in	214.3
11	Clearance at Full Lift and Max Dump	mm	2597
11	Clearance at Full Lift and Max Dump	in	102.3
12	Max Discharge Angle from Horizontal	deg	51
	Wax Discharge Angle Iron Florizontal		
13	Overall Carriage Width	mm	2833
		in	111.5
14	Overall Carriage Height	mm	1130
_		in	44.5 2483
15	Outside Tine Width (max spread)	mm in	97.8
		mm	590
16	Outside Tine Width (min spread)	in	23.2
	T 147 HI ( ' 1 K )	mm	180.0
	Tine Width (single tine)	in	7.1
	Tine Thickness	mm	90.0
	THIC THICKNESS	in	3.5
	Tine Capacity	kg	14800
	тис Оараоку	lbs	32619
	Operating Weight	kg	29520
	-1 5 5"	lbs	65061
	*No gotive values indicate below goods		



\*Build 14A

\*Parallel Z-Bar Linkage

\*Standard Lift Configuration



Hinge (B) Pin Height (mm)

#### \*Negative values indicate below grade

#### Capacity (kg) (Calculated Load at CG Point)

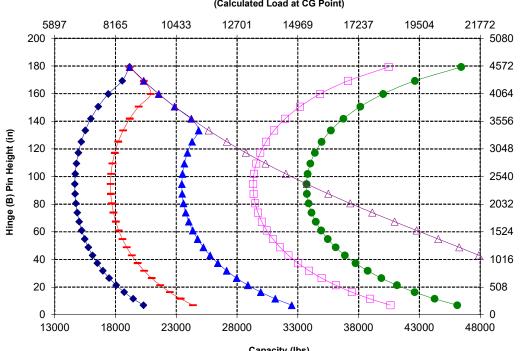


NOTE: Static tipping loads and operating weight are based on the following loader configuration: Bridgestone \* VSNT L4 Tires, Air Conditioning, Ride Control, Powertrain Guard, Full Fluids, Fuel Tank, Coolant, Lubricants, and Operator.

Specifications and ratings conform to the following standards: SAE\* J1197, ISO 14397-1, CEN\*\* EN 474-3.

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



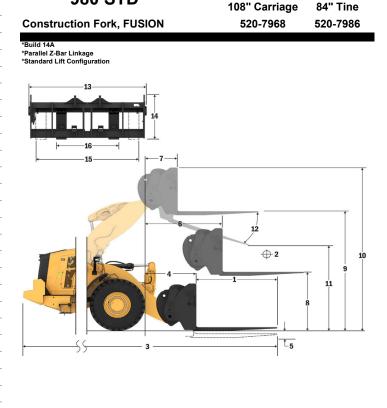
Capacity (lbs) (Calculated Load at CG Point)

980 STD

#### **Fork Specifications**

#### **Fork Specifications**

	in opcomouncie		
1	Tine Length	mm in	2134 84.0
_	1 10 1	mm	1067
2	Load Center	in	42.0
	Ctatic Tinning Load Ctraight (Forks Lovel)	kg	14622
	Static Tipping Load - Straight (Forks Level)	lbs	32227
	Static Tipping Load - Articulated (Forks Level)	kg	12709
	otatio ripping zoda i rittodiatoa (rionto zorol)	lbs	28010
	Rated Load (SAE J1197 - 50% FTSTL)	kg	6354
	,	lbs	14005 7625
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg lbs	16806
		ka	7759
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	lbs	17102
_	Manifestore Occasillation with	mm	10688
3	Maximum Overall Length	in	420.8
4	Reach with Forks at Ground Level	mm	1141
-	Treach with Forks at Ground Level	in	44.9
5	*Ground to Bottom of Tine at Minimum Height and Fork Level	mm	-65
_	Ground to Bottom or Time at Minimidum Holght and Fork Ecver	in	-2.5
6	Reach with Arms Horizontal and Forks Level	mm	1797
_		in	70.7
7	Reach with Fork at Maximum Height	mm	870
	<u> </u>	in mm	34.2 2135
8	Ground to Top of Tine with Arms Horizontal and Fork Level	in	84.0
_		mm	4403
9	Ground to Top of Tine at Maximum Height and Fork Level	in	173.4
40	Overall Height of Fauls at Full Lift (top of comings to ground)	mm	5443
10	Overall Height of Fork at Full Lift (top of carriage to ground)	in	214.3
11	Clearance at Full Lift and Max Dump	mm	2359
• •	Clearance at 1 un Liit and wax bump	in	92.9
12	Max Discharge Angle from Horizontal	deg	51
_			
13	Overall Carriage Width	mm	2833
	-	in	111.5 1130
14	Overall Carriage Height	mm in	44.5
	O 1 1 T 145 H 1	mm	2483
15	Outside Tine Width (max spread)	in	97.8
40	Outside Time Middle (using source d)	mm	590
16	Outside Tine Width (min spread)	in	23.2
	Tine Width (single tine)	mm	180.0
	THE WIGH (SHIGHE HITE)	in	7.1
	Tine Thickness	mm	90.0
	1110 1110111000	in	3.5
	Tine Capacity	kg	12700
_	inia angany	lbs	27991
	Operating Weight	kg	29582
	· · · · · · · · · · · · · · · · · · ·	lbs	65198



#### Capacity (kg) (Calculated Load at CG Po



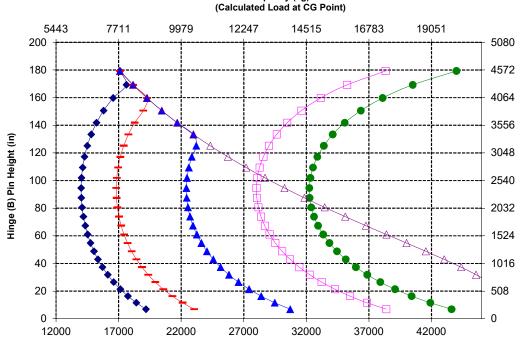
NOTE: Static tipping loads and operating weight are based on the following loader configuration: Bridgestone \* VSNT L4 Tires, Air Conditioning, Ride Control, Powertrain Guard, Full Fluids, Fuel Tank, Coolant, Lubricants, and Operator.

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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

\*SAE - Society of Automotive Engineers \*\*CEN - European Committee for Standardization



Capacity (lbs) (Calculated Load at CG Point) Hinge (B) Pin Height (mm)

<sup>\*</sup>Negative values indicate below grade

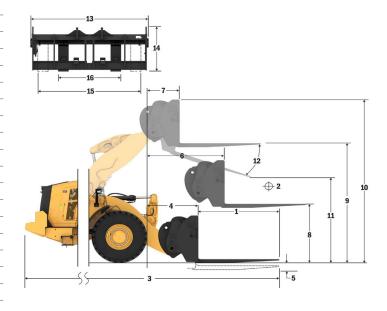
### **Fork Specifications**

Fork	<b>Specifications</b>	
I OIK	Opecinications	

. •	. K Opcomouncie		
1	Tine Length	mm in	2438 96.0
2	Load Center	mm	1219
	Load Center	in	48.0
	Static Tipping Load - Straight (Forks Level)	kg lbs	13999 30855
	Otatia Timin all and Additional dead (Forder Learn)	kg	12159
	Static Tipping Load - Articulated (Forks Level)	lbs	26799
	Rated Load (SAE J1197 - 50% FTSTL)	kg	6080
		lbs kg	13399 6988
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	lbs	15401
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	kq	6988
	,	lbs	15401 10992
3	Maximum Overall Length	mm in	432.8
4	Reach with Forks at Ground Level	mm	1141
	Reacti with Forks at Ground Level	in	44.9
5	*Ground to Bottom of Tine at Minimum Height and Fork Level	mm	-65
	<u> </u>	in mm	-2.5 1797
6	Reach with Arms Horizontal and Forks Level	in	70.7
7	Reach with Fork at Maximum Height	mm	870
	Treach with the at Maximum Height	in	34.2
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm in	2135 84.0
_	One world to Ton of Time at Manifestory United to and Foods Lavel	mm	4403
9	Ground to Top of Tine at Maximum Height and Fork Level	in	173.4
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm	5443
	* * * * * * * * * * * * * * * * * * * *	in mm	214.3 2122
11	Clearance at Full Lift and Max Dump	in	83.5
12	Max Discharge Angle from Horizontal	deg	51
	- Wax Bloomargo / Argio Hom Florizoniai		
13	Overall Carriage Width	mm in	2833 111.5
14	Overall Carriage Height	mm	1130
14	Overall Carriage Height	in	44.5
15	Outside Tine Width (max spread)	mm	2483
		<u>in</u> mm	97.8 590
16	Outside Tine Width (min spread)	in	23.2
	Tine Width (single tine)	mm	180.0
	(g)	in	7.1
	Tine Thickness	mm in	90.0 3.5
	Tine Conseils	kg	11300
	Tine Capacity	lbs	24905
	Operating Weight	kg	29645
	-1 5 5 -	lbs	65336
	AND CONTRACTOR OF CONTRACTOR O		



\*Build 14A
\*Parallel Z-Bar Linkage
\*Standard Lift Configuration



Hinge (B) Pin Height (mm)

\*Negative values indicate below grade

### Capacity (kg)

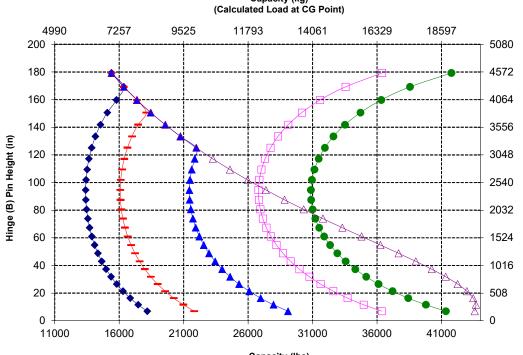


NOTE: Static tipping loads and operating weight are based on the following loader configuration: Bridgestone \* VSNT L4 Tires, Air Conditioning, Ride Control, Powertrain Guard, Full Fluids, Fuel Tank, Coolant, Lubricants, and Operator.

Specifications and ratings conform to the following standards: SAE\* J1197, ISO 14397-1, CEN\*\* EN 474-3.

The rated operating load for a loader equipped with a pallet fork is determined by:
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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



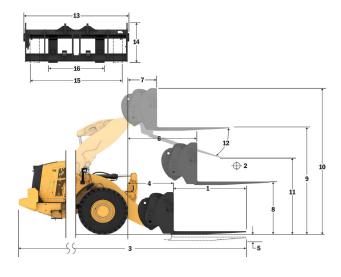
Capacity (lbs) (Calculated Load at CG Point)

#### **Fork Specifications**

#### **Fork Specifications**

1	Tine Length	mm in	1829 72.0
2	Load Center	mm	914
	Load Center	in	36.0
	Static Tipping Load - Straight (Forks Level)	kg Ibs	14965 32984
		ka	12974
	Static Tipping Load - Articulated (Forks Level)	lbs	28595
	Rated Load (SAE J1197 - 50% FTSTL)	kg	6487
	Trace Edda (O/LE 01107 - 00/01 TOTE)	lbs	14298
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg Ibs	7785 17157
		ka	8905
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	lbs	19627
3	Maximum Overall Length	mm	10404
	Maximum Overali Lengti	in	409.6
4	Reach with Forks at Ground Level	mm	1162
		in mm	45.8 -99
5	*Ground to Bottom of Tine at Minimum Height and Fork Level	in	-3.9
6	Reach with Arms Horizontal and Forks Level	mm	1796
ь	Reach with Arms Horizontal and Forks Level	in	70.7
7	Reach with Fork at Maximum Height	mm	869
_	Trouble marin on at maximum riogit	in	34.2
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm	2095 82.5
_		in mm	4364
9	Ground to Top of Tine at Maximum Height and Fork Level	in	171.8
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm	5407
	everall freight of Fork at Fall Lift (top of barriage to ground)	in	212.9
11	Clearance at Full Lift and Max Dump	mm	2498
	<u> </u>	in	98.3
12	Max Discharge Angle from Horizontal	deg	55
13	Overall Carriage Width	mm	2821 111.1
	<del>-</del>	in mm	11129
14	Overall Carriage Height	in	44.4
4 =	Outside Tine Width (max spread)	mm	2627
13	Outside Title Width (max spread)	in	103.4
16	Outside Tine Width (min spread)	mm in	747 29.4
		mm	250.0
	Tine Width (single tine)	in	9.8
	Tine Thickness	mm	85.0
	THE THORIESS	in	3.3
	Tine Capacity	kq	18700
	· ,	lbs	41215
	Operating Weight	ka Ibs	29958 66026
		ibs	00020

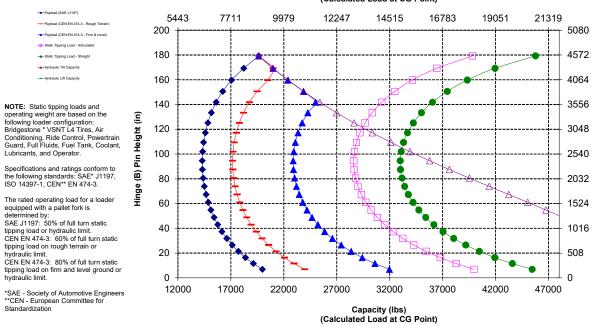




Payload (CEN EN 474-3 - Firm & Level

Lubricants, and Operator.

### Capacity (kg) (Calculated Load at CG Point)



WARNING: Do not exceed tine load capacity. Individual tine capacity is stamped on the side of each tine.

Hinge (B) Pin Height (mm)

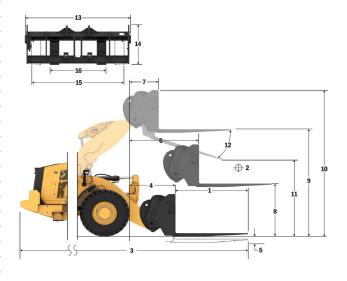
<sup>\*</sup>Negative values indicate below grade

#### **Fork Specifications**

#### **Fork Specifications**

1	Tine Length	mm in	2134 84.0
_		mm	1067
2	Load Center	in	42.0
	Static Tipping Load - Straight (Forks Level)	kg	14267
	Otatic Tipping Load - Otraight (1 Orks Level)	lbs	31445
	Static Tipping Load - Articulated (Forks Level)	kg	12355
	· · · · · · · · · · · · · · · · · · ·	lbs	27231
	Rated Load (SAE J1197 - 50% FTSTL)	kg lbs	6178 13615
		kg	7413
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	lbs	16338
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	kg	7914
	Rated Load (CEN EN 474-3 Film and Level Glound - 60% F131L)	lbs	17442
3	Maximum Overall Length	mm	10713
	Waximum Overali Eengur	in	421.8
4	Reach with Forks at Ground Level	mm	1166
		in	45.9 -99
5	*Ground to Bottom of Tine at Minimum Height and Fork Level	mm in	-3.9
		mm	1796
6	Reach with Arms Horizontal and Forks Level	in	70.7
_	Death with Federal Manierous Uniobs	mm	869
7	Reach with Fork at Maximum Height	in	34.2
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm	2100
	Ground to Top of Title with Arms Horizontal and Fork Level	in	82.7
9	Ground to Top of Tine at Maximum Height and Fork Level	mm	4369
	- · · · · · · · · · · · · · · · · · · ·	in	172.0
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm in	5407 212.9
		mm	2247
11	Clearance at Full Lift and Max Dump	in	88.5
	M 8: 1		
12	Max Discharge Angle from Horizontal	deg	55
12	Overall Carriage Width	mm	2821
	Overall Carriage Width	in	111.1
14	Overall Carriage Height	mm	1129
		in	44.4
15	Outside Tine Width (max spread)	mm	2627 103.4
	· · · · ·	in mm	747
16	Outside Tine Width (min spread)	in	29.4
	Time Milette (simple time)	mm	250.0
	Tine Width (single tine)	in	9.8
	Tine Thickness	mm	90.0
	THE THEMESS	in	3.5
	Tine Capacity	kq	17729
	···- =-py	lbs	39075
	Operating Weight	kg	30060
	· · ·	lbs	66251



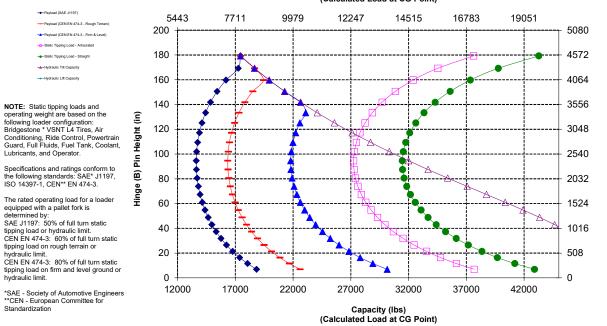


Hinge (B) Pin Height (mm)

Lubricants, and Operator.

Specifications and ratings conform to the following standards: SAE\* J1197, ISO 14397-1, CEN\*\* EN 474-3.

### Capacity (kg) (Calculated Load at CG Point)



Standardization

WARNING: Do not exceed tine load capacity. Individual tine capacity is stamped on the side of each tine.

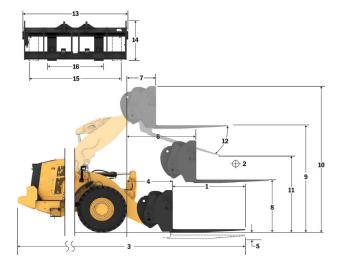
<sup>\*</sup>Negative values indicate below grade

#### **Fork Specifications**

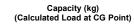
#### **Fork Specifications**

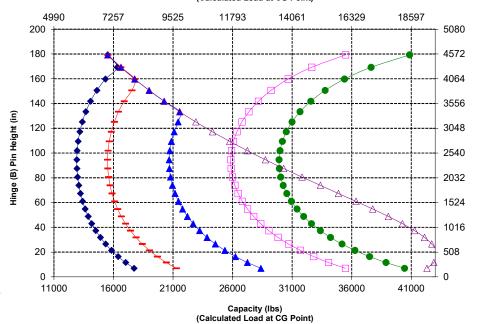
1	Tine Length	mm in	2438 96.0
2	Load Center	mm	1219
_	Load Center	in	48.0
	Static Tipping Load - Straight (Forks Level)	kg	13562
	State Tipping 2544 Statignt (1 Sine 2575)	lbs	29890
	Static Tipping Load - Articulated (Forks Level)	kg	11724
	, ,	lbs	25839
	Rated Load (SAE J1197 - 50% FTSTL)	kg lbs	5862 12920
		kg	7034
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	lbs	15504
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	kg	7041
	Raied Load (CEN EN 474-3 Film and Level Glound - 60% F131L)	lbs	15518
3	Maximum Overall Length	mm	11021
_	Waxinani Overali Edilgai	in	433.9
4	Reach with Forks at Ground Level	mm	1170
		in	46.1
5	*Ground to Bottom of Tine at Minimum Height and Fork Level	mm	-98
_	<u> </u>	in mm	-3.8 1801
6	Reach with Arms Horizontal and Forks Level	in	70.9
_	B 1 20 E 1 10 1 1 10 10 10 10 10 10 10 10 10 10	mm	874
7	Reach with Fork at Maximum Height	in	34.4
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm	2102
•	Ground to Top of Time with Arms Horizontal and Fork Level	in	82.7
9	Ground to Top of Tine at Maximum Height and Fork Level	mm	4370
_		in	172.1
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm	5407
		in mm	212.9 1994
11	Clearance at Full Lift and Max Dump	in	78.5
12	Max Discharge Angle from Horizontal	deg	55
12	Overall Carriage Width	mm	2821
13	Overall Carriage Width	in	111.1
14	Overall Carriage Height	mm	1127
		in	44.4
15	Outside Tine Width (max spread)	mm in	2629 103.5
		mm	747
16	Outside Tine Width (min spread)	in	29.4
	Ti \Middle (-il- 4i)	mm	250.0
	Tine Width (single tine)	in	9.8
	Tine Thickness	mm	90.0
	THE THERES	in	3.5
	Tine Capacity	ka	15750
_	- 1 - 7	lbs	34713
	Operating Weight	ka	30211
		lbs	66584





Payload (CEN EN 474-3 - Firm & Level





NOTE: Static tipping loads and operating weight are based on the following loader configuration: Bridgestone \* VSNT L4 Tires, Air Conditioning, Ride Control, Powertrain Guard, Full Fluids, Fuel Tank, Coolant, Lubricants and Operator. Lubricants, and Operator. Specifications and ratings conform to the following standards: SAE\* J1197, ISO 14397-1, CEN\*\* EN 474-3.

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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 rough terrain or hydraulic limit.

tipping load on firm and level ground or hydraulic limit.

\*SAE - Society of Automotive Engineers \*\*CEN - European Committee for Standardization



WARNING: Do not exceed tine load capacity. Individual tine capacity is stamped on the side of each tine.

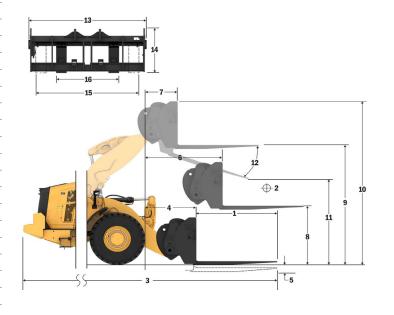
Hinge (B) Pin Height (mm)

<sup>\*</sup>Negative values indicate below grade

### **Fork Specifications**

	Tork oppositions					
1	Tine Length	mm in	1830 72.0			
2	Load Center	mm	915			
	Load Center	in	36.0			
	Static Tipping Load - Straight (Forks Level)	kg	14666			
		lbs kg	32325 13039			
	Static Tipping Load - Articulated (Forks Level)	lbs	28737			
	Rated Load (SAE J1197 - 50% FTSTL)	kg	6519			
	Nated Load (SAL 31197 - 30701 131L)	lbs	14369			
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg	7823			
	,	lbs ka	17242 7970			
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	lbs	17566			
_	Manifestoria Occasional I and other	mm	10650			
3	Maximum Overall Length	in	419.3			
4	Reach with Forks at Ground Level	mm	1407			
		in	55.4			
5	*Ground to Bottom of Tine at Minimum Height and Fork Level	mm in	-149 -5.9			
_	B 1 2/4 11 1 15 1 1 1	mm	1982			
6	Reach with Arms Horizontal and Forks Level	in	78.0			
7	Reach with Fork at Maximum Height	mm	898			
	Treach with 1 ork at waximum ricight	in	35.4			
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm	2023			
		in mm	79.6 4512			
9	Ground to Top of Tine at Maximum Height and Fork Level	in	177.7			
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm	5287			
-10	Overall Height of Fork at Full Lift (top of carriage to ground)	in	208.2			
11	Clearance at Full Lift and Max Dump	mm	2842			
	<u> </u>	in	111.9			
12	Max Discharge Angle from Horizontal	deg	47			
12	Overall Carriage Width	mm	2217			
	Overall Carriage Width	in	87.3			
14	Overall Carriage Height	mm	840			
		in mm	33.1 2070			
15	Outside Tine Width (max spread)	in	81.5			
16	Outside Tine Width (min annead)	mm	470			
-10	Outside Tine Width (min spread)	in	18.5			
	Tine Width (single tine)	mm	150.0			
		in	5.9 65.0			
	Tine Thickness	mm in	2.6			
	Tine Conseils	kg	5246			
	Tine Capacity	lbs	11562			
	Operating Weight	kg	29218			
	-F	lbs	64396			
	AND REPORTED TO					





Hinge (B) Pin Height (mm)

### Capacity (kg)

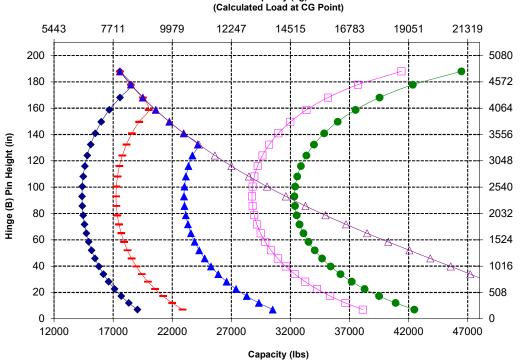


NOTE: Static tipping loads and operating weight are based on the following loader configuration: Bridgestone \* VSNT L4 Tires, Air Conditioning, Ride Control, Powertrain Guard, Full Fluids, Fuel Tank, Coolant, Lubricants, and Operator.

Specifications and ratings conform to the following standards: SAE\* J1197, ISO 14397-1, CEN\*\* EN 474-3.

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

\*SAE - Society of Automotive Engineers \*\*CEN - European Committee for Standardization



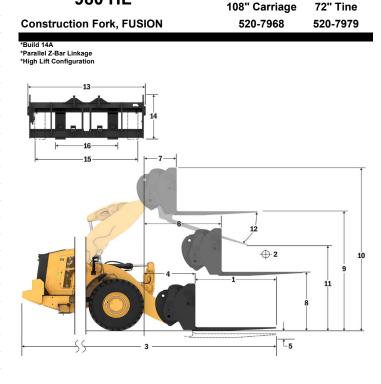
(Calculated Load at CG Point)

<sup>\*</sup>Negative values indicate below grade

#### **Fork Specifications**

#### **Fork Specifications**

1 Tine Length         mm (amount of the company o				
2         Load Center         mm         915 (in a) 36.0 (in 36.0 kg)         14378 (in 36.0 kg)         14378 (in 36.0 kg)         14378 (in 36.0 kg)         14378 (in 14378 (in 14378 kg)         14044 (in 14378 kg)         1404 (in 14378 kg)         1404 (in 14378 kg)         1404 (in 14378 kg)         1404 (in 14378 kg)	1	Tine Length		1829 72.0
Static Tipping Load - Straight (Forks Level)  Static Tipping Load - Articulated (Forks Level)  Static Tipping Load - Articulated (Forks Level)  Rated Load (SAE J1197 - 50% FTSTL)  Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)  Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)  Rated Load (CEN EN 474-3 Firm and Level Grou	2	Load Center		
Static Tipping Load - Straight (Forks Level)   Ibs   31689   2744   12744   168   28088   Rated Load (SAE J1197 - 50% FTSTL)   Ibs   28088   Rated Load (SAE J1197 - 50% FTSTL)   Ibs   14004   Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)   Ikq   7646   Ibs   16853   Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)   Ibs   18422   Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)   Ibs   18422   Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)   Ibs   18422   Ibs   18423   Ibs   18423   Ibs   18423   Ibs   18424   Ibs   18423   Ibs   18424   Ibs		Load Octrici		
Static Tipping Load - Articulated (Forks Level)		Static Tipping Load - Straight (Forks Level)		
Rated Load (SAE J1197 - 50% FTSTL)   Bis   28088   Rated Load (SAE J1197 - 50% FTSTL)   Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)   Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)   Rated Load (CEN EN 474-3 Firm and Level Gr		O. C. T		
Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)         lbs         14044           Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)         kg         7646           Ibs         16853           Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)         kg         8359           Ibs         18422         mm         10593           3 Maximum Overall Length         mm         10593         in         417.1           4 Reach with Forks at Ground Level         mm         1351         in         53.2           5 *Ground to Bottom of Tine at Minimum Height and Fork Level         mm         62         in         -2.4           6 Reach with Arms Horizontal and Forks Level         mm         1970         886         in         34.9           8 Ground to Top of Tine with Arms Horizontal and Fork Level         mm         2135         in         34.1           9 Ground to Top of Tine at Maximum Height and Fork Level         mm         4625         in         34.1           10 Overall Height of Fork at Full Lift (top of carriage to ground)         mm         2768         in         182.1           11 Clearance at Full Lift and Max Dump         mm         2768         in         199.0           12 Max Discharge Angle from Horizontal         deg         53 <th></th> <th>Static Tipping Load - Articulated (Forks Level)</th> <th></th> <th></th>		Static Tipping Load - Articulated (Forks Level)		
Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)		Pated Load (SAE 11107 50% ETSTL)	kg	6372
Rated Load (CEN EN 474-3 Rough Terfall - 00% FTSTL)   Ibs   16853		Nated Load (SAL 31197 - 30 /61131L)	lbs	
Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)		Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)		
Maximum Overall Length		, ,		
3         Maximum Overall Length         mm 10593 in 417.1           4         Reach with Forks at Ground Level         mm 1351 in 53.2           5         *Ground to Bottom of Tine at Minimum Height and Fork Level         mm 6.2 in -2.4           6         Reach with Arms Horizontal and Forks Level         mm 1970 in 77.5           7         Reach with Fork at Maximum Height         mm 886 in 34.9           8         Ground to Top of Tine with Arms Horizontal and Fork Level         mm 2135 in 84.1           9         Ground to Top of Tine at Maximum Height and Fork Level         mm 4625 in 182.1           10         Overall Height of Fork at Full Lift (top of carriage to ground)         mm 5665 in 223.0           11         Clearance at Full Lift and Max Dump         mm 2768 in 199.0           12         Max Discharge Angle from Horizontal         deg 53           13         Overall Carriage Width         mm 2833 in 111.5           14         Overall Carriage Height         mm 130 in 44.5           15         Outside Tine Width (max spread)         mm 59.0 in 7.1           Tine Width (single tine)         mm 180.0 in 7.1           Tine Capacity         kg 14800 in 3.55           Tine Capacity         lbs 32619 in 32619           Operating Weight         Kg 29657		Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)		
Maximum Overail Length   In   417.1				
4 Reach with Forks at Ground Level         mm in 53.2	3	Maximum Overall Length		
5 *Ground to Bottom of Tine at Minimum Height and Fork Level		Peach with Forks at Ground Level	mm	
1	-4	Reach with Forks at Ground Level	in	
1	5	*Ground to Bottom of Tine at Minimum Height and Fork Level		
6         Reach with Fork at Maximum Height         in mm (asset)         886           7         Reach with Fork at Maximum Height         mm (asset)         389           8         Ground to Top of Tine with Arms Horizontal and Fork Level         mm (asset)         2135           9         Ground to Top of Tine at Maximum Height and Fork Level         mm (asset)         4625           10         Overall Height of Fork at Full Lift (top of carriage to ground)         mm (asset)         5665           11         Clearance at Full Lift and Max Dump         mm (asset)         2768           12         Max Discharge Angle from Horizontal         deg (asset)         53           13         Overall Carriage Width         mm (asset)         2833           14         Overall Carriage Height         mm (asset)         1130           15         Outside Tine Width (max spread)         mm (asset)         2483           16         Outside Tine Width (min spread)         mm (asset)         180.0           16         Outside Tine Width (min spread)         mm (asset)         180.0           17         Tine Capacity         kg (asset)         14800           18         32819         29657		Ordana to Bottom of Time at Miniminan Floight and Fork Edvor		
7         Reach with Fork at Maximum Height         mm as 34.9 (in 34.9)         886 (in 34.9)           8         Ground to Top of Tine with Arms Horizontal and Fork Level in 34.1 (in 84.1)         mm 4625 (in 182.1)           9         Ground to Top of Tine at Maximum Height and Fork Level in 182.1 (in 182.1)           10         Overall Height of Fork at Full Lift (top of carriage to ground)         mm 5665 (in 223.0)           11         Clearance at Full Lift and Max Dump         mm 2768 (in 109.0)           12         Max Discharge Angle from Horizontal         deg 53 (in 111.5)           13         Overall Carriage Width         mm 2833 (in 111.5)           14         Overall Carriage Height         mm 130 (in 44.5)           15         Outside Tine Width (max spread)         mm 2483 (in 97.8)           16         Outside Tine Width (min spread)         mm 590 (in 7.1)           Tine Width (single tine)         mm 180.0 (in 7.1)           Tine Thickness         mm 90.0 (in 7.1)           Tine Capacity         kg 14800 (in 32619)           Operating Weight         kg 29657	6	Reach with Arms Horizontal and Forks Level		
8         Ground to Top of Tine with Arms Horizontal and Fork Level         in at 34.9 mm         34.9 mm         2135 in 84.1 mm         84.1 mm         2135 in 84.1 mm         84.1 mm         24.5 mm         82.1 mm         4625 in 182.1 mm         4625 in 182.1 mm         6665 in 223.0 mm         5665 in 223.0 mm         5665 in 223.0 mm         23.0 mm         7.0 mm         2768 in 109.0 mm         2768 in 109.0 mm         2768 in 109.0 mm         23.0 mm         2768 in 109.0 mm         2833 in 109.0 mm         2833 in 111.5 mm         121.1 mm         2833 in 111.5 mm         121.1 mm         121.5 mm         24.5 mm         25.0 mm         26.0 mm         <				
8         Ground to Top of Tine with Arms Horizontal and Fork Level         mm 2135 in 84.1 st. 9         34.1 mm 4625 in 182.1 st. 182.1           9         Ground to Top of Tine at Maximum Height and Fork Level         mm 4625 in 182.1 st. 182.1 st. 182.1 st. 192.0 st.	7	Reach with Fork at Maximum Height		
9         Ground to Top of Tine at Maximum Height and Fork Level         in mm Me25 in 182.1         84.1           10         Overall Height of Fork at Full Lift (top of carriage to ground)         mm 5665 in 223.0         223.0           11         Clearance at Full Lift and Max Dump         mm 2768 in 109.0           12         Max Discharge Angle from Horizontal         deg         53           13         Overall Carriage Width         mm 2833 in 111.5           14         Overall Carriage Height         mm 1130 in 44.5           15         Outside Tine Width (max spread)         mm 2483 in 97.8           16         Outside Tine Width (min spread)         mm 590 in 7.1           Tine Width (single tine)         mm 180.0 in 7.1           Tine Thickness         mm 90.0 in 3.5           Tine Capacity         kg 14800 lbs 32619           Operating Weight         kg 29657				
9         Ground to Top of Tine at Maximum Height and Fork Level         mm in 182.1 (as.)         4625 in 182.1 (as.)           10         Overall Height of Fork at Full Lift (top of carriage to ground)         mm 5665 in 223.0 (as.)           11         Clearance at Full Lift and Max Dump         mm 2768 in 109.0           12         Max Discharge Angle from Horizontal         deg 53           13         Overall Carriage Width         mm 2833 in 111.5 (as.)           14         Overall Carriage Height         mm 1130 in 44.5 (as.)           15         Outside Tine Width (max spread)         mm 2483 in 97.8 (as.)           16         Outside Tine Width (min spread)         mm 590 (as.)           Tine Width (single tine)         mm 180.0 (as.)           Tine Thickness         mm 90.0 (as.)           Tine Capacity         kg 14800 (bs.)           Operating Weight         kg 29657	8	Ground to Top of Tine with Arms Horizontal and Fork Level		
10 Overall Height of Fork at Full Lift (top of carriage to ground)   mm   5665   in   223.0   mm   2768   in   109.0   109.0   12   Max Discharge Angle from Horizontal   deg   53   13   Overall Carriage Width   mm   2833   in   111.5   mm   111.5   14   Overall Carriage Height   mm   2483   in   144.5   15   Outside Tine Width (max spread)   mm   2483   in   37.8   16   Outside Tine Width (min spread)   mm   590   in   23.2   Tine Width (single tine)   mm   180.0   in   7.1   Tine Thickness   mm   90.0   in   3.5   Tine Capacity   kg   14800   lbs   32619   Operating Weight   kg   29657   Operating Weight   kg   29657   Operating Weight   kg   29657   Operating Weight   kg   29657   29657   100.0   200.0	_	Cround to Ton of Ting at Maximum Height and Early Lavel		
11   Clearance at Full Lift (lop of carriage to ground)   in   223.0   mm   2768   in   109.0       12   Max Discharge Angle from Horizontal   deg   53       13   Overall Carriage Width   mm   2833   in   111.5   mm   111.5   mm   144.5       14   Overall Carriage Height   mm   2483   in   44.5       15   Outside Tine Width (max spread)   mm   2483   in   97.8       16   Outside Tine Width (min spread)   mm   590   in   23.2       Tine Width (single tine)   mm   180.0   in   7.1       Tine Thickness   mm   90.0   in   3.5       Tine Capacity   kg   14800   lbs   32619       Operating Weight   kg   29657       Operating Weight   kg		Ground to Top of Time at Maximum Height and Pork Level	in	
11         Clearance at Full Lift and Max Dump         In 223.0 mm           12         Max Discharge Angle from Horizontal         deg 53           13         Overall Carriage Width         mm 2833 in 111.5 mm           14         Overall Carriage Height         mm 143.0 in 44.5 mm           15         Outside Tine Width (max spread)         mm 2483 in 97.8 mm           16         Outside Tine Width (min spread)         mm 550 in 23.2 mm           Tine Width (single tine)         mm 180.0 in 7.1 mm           Tine Thickness         mm 90.0 in 3.5 mm           Tine Capacity         kg 14800 lbs 32619           Operating Weight         kg 29657	10	Overall Height of Fork at Full Lift (top of carriage to ground)		
12 Max Discharge Angle from Horizontal   deg   53     13 Overall Carriage Width   mm   2833   in   111.5     14 Overall Carriage Height   mm   2483   in   44.5     15 Outside Tine Width (max spread)   mm   2483   in   97.8     16 Outside Tine Width (min spread)   mm   590   in   23.2     Tine Width (single tine)   mm   180.0   in   7.1     Tine Thickness   mm   90.0   in   3.5     Tine Capacity   kg   14800   lbs   32619     Operating Weight   kg   29657   Capacity   Capacity   kg   29657   Capacity   C		Oreian Height of Fernat Fan Ein (top of carriage to greatia)		
12 Max Discharge Angle from Horizontal         deg         53           13 Overall Carriage Width         mm         2833 in 11.5           14 Overall Carriage Height         mm         113.0           15 Outside Tine Width (max spread)         mm         2483 in 97.8           16 Outside Tine Width (min spread)         mm         590 in 23.2           Tine Width (single tine)         mm         180.0           Tine Thickness         mm         90.0           Tine Capacity         kg         14800           Operating Weight         kg         29657	11	Clearance at Full Lift and Max Dump		
13 Overall Carriage Width   mm   2833   in   111.5     14 Overall Carriage Height   mm   1130   in   44.5     15 Outside Tine Width (max spread)   in   2483   in   44.5     16 Outside Tine Width (min spread)   mm   590   in   23.2     Tine Width (single tine)   mm   180.0   in   7.1     Tine Thickness   mm   90.0   in   3.5     Tine Capacity   kg   14800   lbs   32619     Operating Weight   682   29657   683   684		<u> </u>	ın	
11.5   Overalin Carriage Width   in   11.5	12	Max Discharge Angle from Horizontal	deg	53
11.5   Overalin Carriage Width   in   11.5	40	O	mm	2833
14 Overalin Carniage Reight   in   44.5       44.5	13	Overall Carriage Width		
15 Outside Tine Width (max spread)   mm   2483   in   97.8	14	Overall Carriage Height	mm	1130
16 Outside Tine Width (min spread)   in   97.8     97.8       16 Outside Tine Width (min spread)   mm   590   in   23.2		Overall Carriage Height		
16 Outside Tine Width (min spread)   mm   590   in   23.2     23.2	15	Outside Tine Width (max spread)		
Tine Width (single tine)   sin   23.2				
Tine Width (single tine)         mm in 7.1 mm 90.0 in 3.5           Tine Thickness         in 3.5 kg 14800 lbs 32619           Operating Weight         kg 29657	16	Outside Tine Width (min spread)		
Tine Width (single tine)   in   7.1				
Tine Thickness         mm yo.0 in 3.5           Tine Capacity         kg 14800 yo.0 is 32619           Operating Weight         kg 29657		Tine Width (single tine)		
1		Tine Thickness		
Tine Capacity		THIC THICKHESS		3.5
Operating Weight kg 29657		Tine Canacity		
		Title Outputty		
ibs 65364		Operating Weight		
		• • •	IDS	05364



#### Capacity (kg) (Calculated Load at CG Point)

980 HL

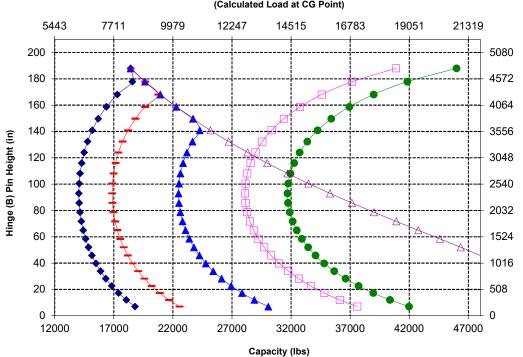


NOTE: Static tipping loads and operating weight are based on the following loader configuration: Bridgestone \* VSNT L4 Tires, Air Conditioning, Ride Control, Powertrain Guard, Full Fluids, Fuel Tank, Coolant, Lubricants, and Operator.

Specifications and ratings conform to the following standards: SAE\* J1197, ISO 14397-1, CEN\*\* EN 474-3.

The rated operating load for a loader equipped with a pallet fork is determined by:
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CEN EN 474-3: 80% of full turn static tipping load on rough terrain or hydraulic limit.
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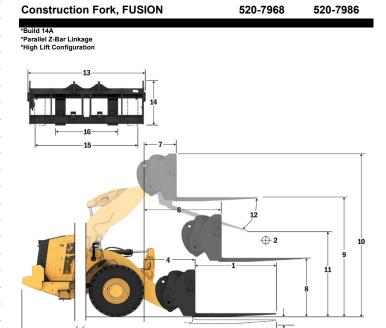


Hinge (B) Pin Height (mm)

<sup>\*</sup>Negative values indicate below grade

### **Fork Specifications**

. •	. K Opcomouncie		
1	Tine Length	mm in	2134 84.0
2	Load Center	mm	1067
	Load Center	in	42.0
	Static Tipping Load - Straight (Forks Level)	kg	13768
	otatio ripping zoda otatigin (romo zorot)	lbs	30345
	Static Tipping Load - Articulated (Forks Level)	kg	12196
	· · · · · · · · · · · · · · · · · · ·	lbs ka	26880 6098
	Rated Load (SAE J1197 - 50% FTSTL)	kg Ibs	13440
		kg	7318
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	lbs	16128
	Detect Load (CEN EN 474 2 Firm and Lovel Crown 900/ FTCTL)	ka	7467
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	lbs	16457
3	Maximum Overall Length	mm	10898
	iviaximum Overan Lengur	in	429.1
4	Reach with Forks at Ground Level	mm	1351
•	Trouble Will Forto at Ground 2010.	in	53.2
5	*Ground to Bottom of Tine at Minimum Height and Fork Level	mm	-62
	<b></b>	in	-2.4
6	Reach with Arms Horizontal and Forks Level	mm	1970
		in	77.5
7	Reach with Fork at Maximum Height	mm in	886 34.9
	<u> </u>	mm	2135
8	Ground to Top of Tine with Arms Horizontal and Fork Level	in	84.1
_		mm	4625
9	Ground to Top of Tine at Maximum Height and Fork Level	in	182.1
40	O	mm	5665
10	Overall Height of Fork at Full Lift (top of carriage to ground)	in	223.0
11	Clearance at Full Lift and Max Dump	mm	2524
	Clearance at I dil Liit and Max Dump	in	99.4
12	Max Discharge Angle from Horizontal	deg	53
	Max Districting 7 ringio nom Honzontar		
13	Overall Carriage Width	mm	2833
		in	111.5
14	Overall Carriage Height	mm in	1130 44.5
		mm	2483
15	Outside Tine Width (max spread)	in	97.8
	O + : 1 T   M/: H / :	mm	590
16	Outside Tine Width (min spread)	in	23.2
	Tine Width (single tine)	mm	180.0
	Tine Width (single tine)	in	7.1
	Tine Thickness	mm	90.0
	THIC THICKICSS	in	3.5
	Tine Capacity	kg	12700
	Timo Oupuoity	lbs	27991
	Operating Weight	kg	29719
	-1	lbs	65501
	AND THE RESERVE TO THE PARTY OF		



108" Carriage

84" Tine

Hinge (B) Pin Height (mm)

980 HL

--- Payload (CEN EN 474-3 - Rough Terrain)

Lubricants, and Operator.

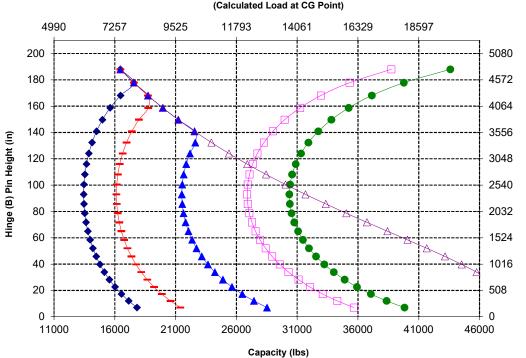
#### Capacity (kg) (Calculated Load at CG Point)



The rated operating load for a loader rine hated operating local for a located 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

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\*\*CEN - European Committee for Standardization



(Calculated Load at CG Point)

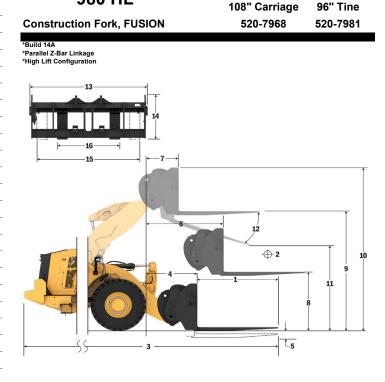
<sup>\*</sup>Negative values indicate below grade

980 HL

#### **Fork Specifications**

#### **Fork Specifications**

. •	. K opecinications		
1	Tine Length	mm in	2438 96.0
_	Lood Conton	mm	1219
2	Load Center	in	48.0
	Static Tipping Load - Straight (Forks Level)	kg	13199
	- Class Tipping 2000 Chargin (1 onto 2010)	lbs	29091
	Static Tipping Load - Articulated (Forks Level)	kg Ibs	11685 25753
	D-4-414 (OAE 14407 FOO) FTOTI \	kg	5842
	Rated Load (SAE J1197 - 50% FTSTL)	lbs	12876
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg	6727
	(* * * * * * * * * * * * * * * * * * *	lbs	14826
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	ka Ibs	6727 14826
_		mm	11202
3	Maximum Overall Length	in	441.0
4	Reach with Forks at Ground Level	mm	1351
	Trought Mari Citie at Ground 2016.	in	53.2
5	*Ground to Bottom of Tine at Minimum Height and Fork Level	mm	-62 -2.4
_		in mm	1970
6	Reach with Arms Horizontal and Forks Level	in	77.5
7	Reach with Fork at Maximum Height	mm	886
	Treach with Fork at Maximum Fleight	in	34.9
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm	2135
		in mm	84.1 4625
9	Ground to Top of Tine at Maximum Height and Fork Level	in	182.1
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm	5665
	Overall freight of Fork at Full Lift (top of carriage to ground)	in	223.0
11	Clearance at Full Lift and Max Dump	mm	2280
	<u>'</u>	in	89.8
12	Max Discharge Angle from Horizontal	deg	53
13	Overall Carriage Width	mm	2833
	Overall Carriage Width	in	111.5
14	Overall Carriage Height	mm	1130
		in mm	44.5 2483
15	Outside Tine Width (max spread)	in	97.8
16	Outside Tine Width (min spread)	mm	590
-10	Outside Title Width (Initi Spread)	in	23.2
	Tine Width (single tine)	mm	180.0
	, ,	in	7.1 90.0
	Tine Thickness	mm in	3.5
	Tine Conseils	kg	11300
	Tine Capacity	lbs	24905
	Operating Weight	kg	29782
	-r	lbs	65640
	AND DESCRIPTION OF THE PROPERTY OF THE PROPERT		



#### Capacity (kg) (Calculated Load at CG Point)

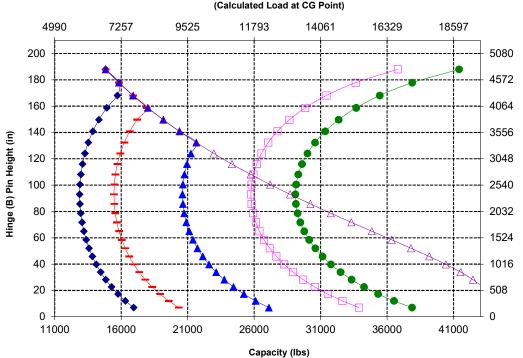


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CEN EN 474-3: 80% of full turn static tipping load on firm and level ground or

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Capacity (lbs)
(Calculated Load at CG Point)

Hinge (B) Pin Height (mm)

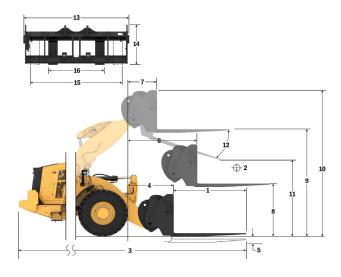
<sup>\*</sup>Negative values indicate below grade

#### **Fork Specifications**

#### **Fork Specifications**

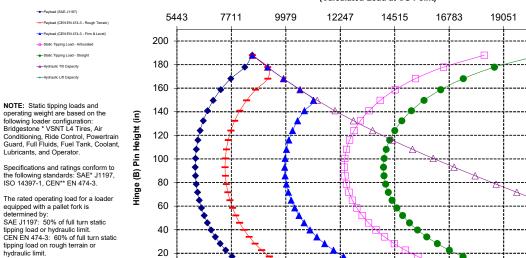
i ork opecifications			
1	Tine Length	mm in	1829 72.0
2	Load Center	mm	914
	Load Certier	in	36.0
	Static Tipping Load - Straight (Forks Level)	kg	14048
	,	lbs kg	30961 12414
	Static Tipping Load - Articulated (Forks Level)	lbs	27362
	Rated Load (SAE J1197 - 50% FTSTL)	kg	6207
	Raied Load (SAE J1197 - 50% F151L)	lbs	13681
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg	7449
	, , ,	lbs kg	16417 8586
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	lbs	18924
3	Maximum Overall Length	mm	10612
	Maximum Overali Lengtii	in	417.8
4	Reach with Forks at Ground Level	mm	1371
	·	in	54.0 -96
5	*Ground to Bottom of Tine at Minimum Height and Fork Level	mm in	-3.8
_	Death with Asset Heimentel and Feeler Level	mm	1969
6	Reach with Arms Horizontal and Forks Level	in	77.5
7	Reach with Fork at Maximum Height	mm	885
	Trouble Marie on at maximum riogit	in	34.8
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm in	2097 82.5
		mm	4586
9	Ground to Top of Tine at Maximum Height and Fork Level	in	180.5
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm	5630
	Overall Fleight of Fork at Fall Lift (top of carriage to ground)	in	221.6
11	Clearance at Full Lift and Max Dump	mm	2674 105.3
		in	
12	Max Discharge Angle from Horizontal	deg	57
13	Overall Carriage Width	mm	2821 111.1
		in mm	1129
14	Overall Carriage Height	in	44.4
15	Outside Tine Width (max spread)	mm	2627
-13	Outside Title Width (Max Spread)	in	103.4
16	Outside Tine Width (min spread)	mm	747
		in mm	29.4 250.0
	Tine Width (single tine)	in	9.8
	Tine Thickness	mm	85.0
	THIC THICKNESS	in	3.3
	Tine Capacity	ka	18700
	. ,	lbs	41215
	Operating Weight	kq Ibs	30095 66329
		ina	30323





- Payload (CEN EN 474-3 - Rough Ter Payload (CEN EN 474-3 - Firm & Level

### Capacity (kg) (Calculated Load at CG Point)



27000

32000

Capacity (lbs)
(Calculated Load at CG Point)

37000

42000

Hinge (B) Pin Height (mm)

21319

5080

4572

4064

3556

3048

2540

2032

1524

1016

508

0

47000

Specifications and ratings conform to the following standards: SAE\* J1197, ISO 14397-1, CEN\*\* EN 474-3.

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 rough terrain or hydraulic limit.

tipping load on firm and level ground or hydraulic limit.

\*SAE - Society of Automotive Engineers \*\*CEN - European Committee for Standardization



WARNING: Do not exceed tine load capacity. Individual tine capacity is stamped on the side of each tine.

12000

17000

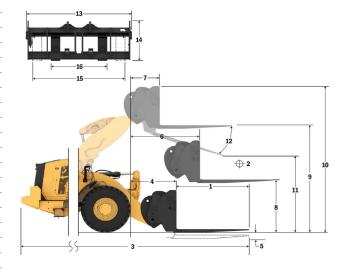
22000

<sup>\*</sup>Negative values indicate below grade

#### **Fork Specifications**

. •	opeoou		
1	Tine Length	mm in	2134 84.0
_	1 10 1	mm	1067
2	Load Center	in	42.0
	Static Tipping Load - Straight (Forks Level)	kg	13409
	Otatio ripping Load - Orangin (Forto Level)	lbs	29553
	Static Tipping Load - Articulated (Forks Level)	kg	11838
	· · · · · · · · · · · · · · · · · · ·	lbs kg	26090 5919
	Rated Load (SAE J1197 - 50% FTSTL)	lbs	13045
	Detect   cod (OEN EN 474 0 Decemb Terrain COO) ETCT )	kg	7103
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	lbs	15654
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	kg	7633
	Transa zona (Oziv ziv ili Torillin ana zovol Olouna Golor Toriz)	lbs	16824
3	Maximum Overall Length	mm in	10921 429.9
		mm	1374
4	Reach with Forks at Ground Level	in	54.1
5	*Cround to Dottom of Ting at Minimum Height and Fork Lavel	mm	-96
	*Ground to Bottom of Tine at Minimum Height and Fork Level	in	-3.8
6	Reach with Arms Horizontal and Forks Level	mm	1969
	Trought Many and Trought and Tomo Edvor	in	77.5
7	Reach with Fork at Maximum Height	mm	885
_		in mm	34.8 2102
8	Ground to Top of Tine with Arms Horizontal and Fork Level	in	82.7
_	One and the Total of Time at Manifestory United the and English and	mm	4591
9	Ground to Top of Tine at Maximum Height and Fork Level	in	180.7
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm	5630
	O Totali Holgitto i Font at Fall Ent (top of samage to ground)	in	221.6
11	Clearance at Full Lift and Max Dump	mm	2418
	<u> </u>	in	95.2
12	Max Discharge Angle from Horizontal	deg	57
13	Overall Carriage Width	mm	2821
	Oreran Carriage Fridan	in	111.1
14	Overall Carriage Height	mm in	1129 44.4
		mm	2627
15	Outside Tine Width (max spread)	in	103.4
16	Outside Tine Width (min spread)	mm	747
-10	Outside Title Width (Hill Spread)	in	29.4
	Tine Width (single tine)	mm	250.0
		in	9.8
	Tine Thickness	mm in	90.0 3.5
_	T 0 "	ka	17729
	Tine Capacity	lbs	39075
	Operating Weight	kg	30197
	Operating Weight	lbs	66554



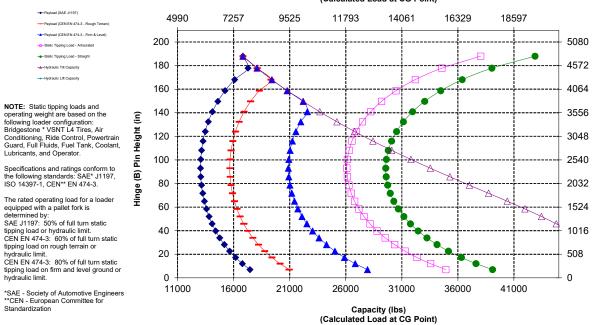


Payload (CEN EN 474-3 - Firm & Level

Lubricants, and Operator.

Specifications and ratings conform to the following standards: SAE\* J1197, ISO 14397-1, CEN\*\* EN 474-3.

### Capacity (kg) (Calculated Load at CG Point)



Standardization

WARNING: Do not exceed tine load capacity. Individual tine capacity is stamped on the side of each tine.

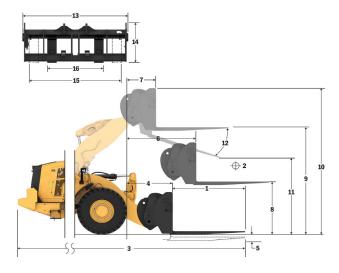
<sup>\*</sup>Negative values indicate below grade

#### **Fork Specifications**

#### **Fork Specifications**

гυ	rk Specifications		
1	Tine Length	mm in	2438 96.0
2	Load Center	mm	1219
	Load Genter	in	48.0
	Static Tipping Load - Straight (Forks Level)	kg Ibs	12757 28117
	Chatia Timeira I and Adia data defenda I arrall	kg	11245
	Static Tipping Load - Articulated (Forks Level)	lbs	24783
	Rated Load (SAE J1197 - 50% FTSTL)	kg	5622
		lbs	12392 6747
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg lbs	14870
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	kg	6791
	Rated Load (CEN EN 474-3 Film and Level Glound - 60% F151L)	lbs	14967
3	Maximum Overall Length	mm	11229
		in mm	442.1 1378
4	Reach with Forks at Ground Level	in	54.2
5	*Ground to Bottom of Tine at Minimum Height and Fork Level	mm	-94
	Glound to Bottom of Time at Minimum Height and Fork Level	in	-3.7
6	Reach with Arms Horizontal and Forks Level	mm	1974
_		in mm	77.7 890
7	Reach with Fork at Maximum Height	in	35.0
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm	2103
	Ground to Top of Title with Arms Horizontal and Fork Level	in	82.8
9	Ground to Top of Tine at Maximum Height and Fork Level	mm	4593
		in mm	180.8 5630
10	Overall Height of Fork at Full Lift (top of carriage to ground)	in	221.6
11	Clearance at Full Lift and Max Dump	mm	2159
_''	Clearance at Full Lift and Max Dump	in	85.0
12	Max Discharge Angle from Horizontal	deg	57
13	Overall Carriage Width	mm in	2821
		mm	111.1 1127
14	Overall Carriage Height	in	44.4
15	Outside Tine Width (max spread)	mm	2629
	Outside Title Width (max spread)	in	103.5
16	Outside Tine Width (min spread)	mm in	747 29.4
		mm	250.0
	Tine Width (single tine)	in	9.8
	Tine Thickness	mm	90.0
	THE INDIVIOUS	in	3.5
	Tine Capacity	ka	15750
		lbs_ ka	34713 30348
	Operating Weight	lbs	66887
		0	





Hinge (B) Pin Height (mm)

\*Negative values indicate below grade



NOTE: Static tipping loads and operating weight are based on the following loader configuration: Bridgestone \* VSNT L4 Tires, Air Conditioning, Ride Control, Powertrain Guard, Full Fluids, Fuel Tank, Coolant, Lubricants and Operator. Lubricants, and Operator.

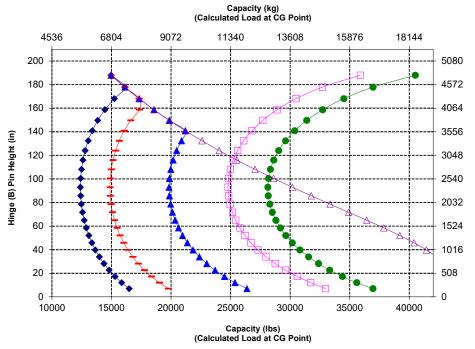
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The rated operating load for a loader equipped with a pallet fork is determined by:

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 rough terrain or hydraulic limit.

tipping load on firm and level ground or hydraulic limit.

\*SAE - Society of Automotive Engineers \*\*CEN - European Committee for Standardization





WARNING: Do not exceed tine load capacity. Individual tine capacity is stamped on the side of each tine.

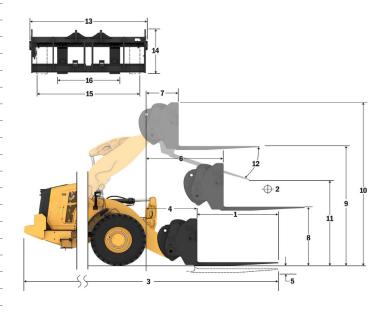
	tions

	•		
1	Tine Length	mm in	1830 72.0
2	Load Center	mm	915
	Loud Como	in	36.0
	Static Tipping Load - Straight (Forks Level)	kg Ibs	16622 36635
	Static Tipping Load - Articulated (Forks Level)	kg	14453
	Static Tipping Load - Articulated (Forks Level)	lbs	31855
	Rated Load (SAE J1197 - 50% FTSTL)	kg lbs	7227 15928
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg	8327
	(	lbs	18352
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	ka Ibs	8327 18352
		mm	10445
3	Maximum Overall Length	in	411.2
4	Reach with Forks at Ground Level	mm	1199
4	Reach with Forks at Ground Level	in	47.2
5	*Ground to Bottom of Tine at Minimum Height and Fork Level	mm	-151
	Ground to Bottom of Time at William Theight and Fork Ecver	in	-5.9
6	Reach with Arms Horizontal and Forks Level	mm	1809
		in	71.2
7	Reach with Fork at Maximum Height	mm in	883 34.7
		mm	2024
8	Ground to Top of Tine with Arms Horizontal and Fork Level	in	79.7
9	Ground to Top of Tine at Maximum Height and Fork Level	mm	4292
	Ground to Top of Time at Maximum Height and Fork Level	in	169.0
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm	5067
	O TOTALL TO IGHT OF TOTAL ALT ALL ZING (IOP OF DAILING)	in	199.5
11	Clearance at Full Lift and Max Dump	mm	2676 105.4
		in	
12	Max Discharge Angle from Horizontal	deg	45
13	Overall Carriage Width	mm	2217
	<u> </u>	in	87.3
14	Overall Carriage Height	mm in	840 33.1
		mm	2070
15	Outside Tine Width (max spread)	in	81.5
16	Outside Tine Width (min spread)	mm	470
-10	Outside Tille Width (Hill Spread)	in	18.5
	Tine Width (single tine)	mm	150.0
	(0.0 mile)	in	5.9
	Tine Thickness	mm	65.0 2.6
		in ka	2.6 5246
	Tine Capacity	lbs	11562
	On a vating Waight	ka	29722
	Operating Weight	lbs	65507
	*Negative values indicate below grade		

 980 AGG
 2x 130 mm HE Tilt Cylinders

 87" Carriage
 72" Tine

 Pallet Fork, FUSION
 530-1861
 530-1869



#### Capacity (kg) (Calculated Load at CG Point)

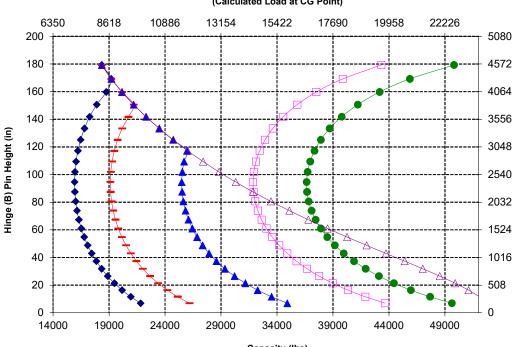


NOTE: Static tipping loads and operating weight are based on the following loader configuration: Bridgestone \* VSNT L4 Tires, Air Conditioning, Ride Control, Powertrain Guard, Full Fluids, Fuel Tank, Coolant, Lubricants, and Operator.

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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

\*SAE - Society of Automotive Engineers \*\*CEN - European Committee for Standardization



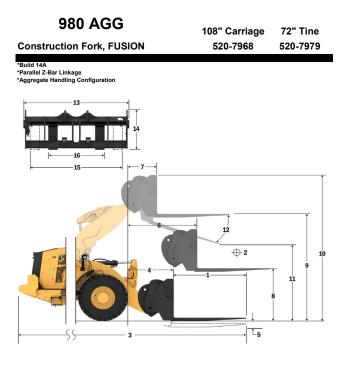
Capacity (lbs) (Calculated Load at CG Point)

<sup>\*</sup>Negative values indicate below grade

#### **Fork Specifications**

#### **Fork Specifications**

1	Tine Length	mm in	1829 72.0
2	Load Center	mm	915
	Load Center	in	36.0
	Static Tipping Load - Straight (Forks Level)	kg	16347
	, , , , , , , , , , , , , , , , , , ,	lbs ka	36029 14170
	Static Tipping Load - Articulated (Forks Level)	lbs	31231
	D-4-414 (0AE 14407 F00/ FT0TL)	kg	7085
	Rated Load (SAE J1197 - 50% FTSTL)	lbs	15615
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg	8502
	Tracou zoda (Oziv ziv 17 1 0 rtoagii romaiii 00% 1 1012)	lbs	18738
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	kg	8691
	,	lbs mm	19155 10387
3	Maximum Overall Length	in	408.9
_	Barack with Faulus at Consumal Laural	mm	1141
4	Reach with Forks at Ground Level	in	44.9
5	*Ground to Bottom of Tine at Minimum Height and Fork Level	mm	-65
	Clouded to Bottom of Time at Millimidin Fleight and Fork Level	in	-2.5
6	Reach with Arms Horizontal and Forks Level	mm	1797
		in	70.7
7	Reach with Fork at Maximum Height	mm	870
	<u> </u>	in mm	34.2 2135
8	Ground to Top of Tine with Arms Horizontal and Fork Level	in	84.0
_	One and to Tax of Time of Manifesters United and Foots Level	mm	4403
9	Ground to Top of Tine at Maximum Height and Fork Level	in	173.4
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm	5443
	everall Fleight of Fork at Fall Lift (top of carriage to ground)	in	214.3
11	Clearance at Full Lift and Max Dump	ḿш	2597
		in	102.3
12	Max Discharge Angle from Horizontal	deg	51
13	Overall Carriage Width	mm	2833
_		in mm	111.5 1130
14	Overall Carriage Height	in	44.5
		mm	2483
15	Outside Tine Width (max spread)	in	97.8
16	Outside Tine Width (min spread)	mm	590
10	Outside Title Width (Hill Spread)	in	23.2
	Tine Width (single tine)	mm	180.0
	(9)	in	7.1
	Tine Thickness	mm	90.0 3.5
		in ka	3.5 14800
	Tine Capacity	lbs	32619
	Onerating Weight	ka	30161
	Operating Weight	lbs	66474

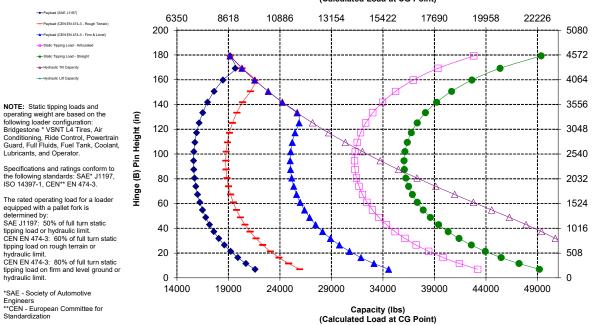


Hinge (B) Pin Height (mm)

\*Negative values indicate below grade

-Payload (CEN EN 474-3 - Firm & Level

### Capacity (kg) (Calculated Load at CG Point)



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 rough terrain or hydraulic limit. tipping load on firm and level ground or hydraulic limit.

Lubricants, and Operator.

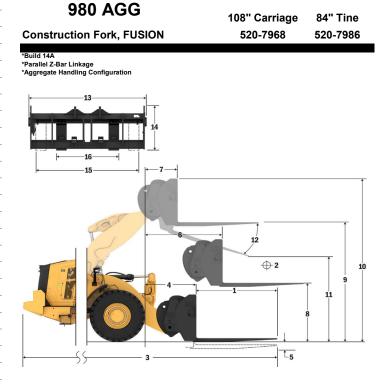
\*SAE - Society of Automotive Engineers
\*\*CEN - European Committee for



WARNING: Do not exceed tine load capacity. Individual tine capacity is stamped on the side of each tine.

#### **Fork Specifications**

	n openioanene		
1	Tine Length	mm in	2134 84.0
_	1 10 1	mm	1067
2	Load Center	in	42.0
	Static Tinning Load Straight (Forks Lovel)	kg	15637
	Static Tipping Load - Straight (Forks Level)	lbs	34463
	Static Tipping Load - Articulated (Forks Level)	kg	13546
	State Tipping 25aa 7 titoalatoa (1 5tito 2516)	<u>lbs</u>	29855
	Rated Load (SAE J1197 - 50% FTSTL)	kg	6773
	,	lbs	14927 7759
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg Ibs	17102
		ka	7759
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	lbs	17102
_	Manifestore Occasillation of	mm	10692
3	Maximum Overall Length	in	420.9
4	Reach with Forks at Ground Level	mm	1141
-	Treach with Forks at Ground Level	in	44.9
5	*Ground to Bottom of Tine at Minimum Height and Fork Level	mm	-65
_	Croding to Bottom of time at willimman rieight and ronk Eever	in	-2.5
6	Reach with Arms Horizontal and Forks Level	mm	1797
		in	70.7
7	Reach with Fork at Maximum Height	mm	870
		in	34.2
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm	2135
	· · · · · · · · · · · · · · · · · · ·	in mm	84.0 4403
9	Ground to Top of Tine at Maximum Height and Fork Level	in	173.4
		mm	5443
10	Overall Height of Fork at Full Lift (top of carriage to ground)	in	214.3
44	Clearence at Full Lift and May Duman	mm	2359
11	Clearance at Full Lift and Max Dump	in	92.9
12	Max Discharge Angle from Horizontal	deg	51
12	Wax Discharge Angle Iron Florizonial	ueg	
13	Overall Carriage Width	mm	2833
	Croran Carrago Triadi	in	111.5
14	Overall Carriage Height	mm	1130
		in	44.5
15	Outside Tine Width (max spread)	mm	2483
		in	97.8 590
16	Outside Tine Width (min spread)	mm in	23.2
		mm	180.0
	Tine Width (single tine)	in	7.1
	Tine Thickness	mm	90.0
	Tine Thickness	in	3.5
	Tine Canacity	kg	12700
	Tine Capacity	lbs	27991
_	Operating Weight	lbs kg	27991 30223



#### Capacity (kg) (Calculated Load at CG Point)

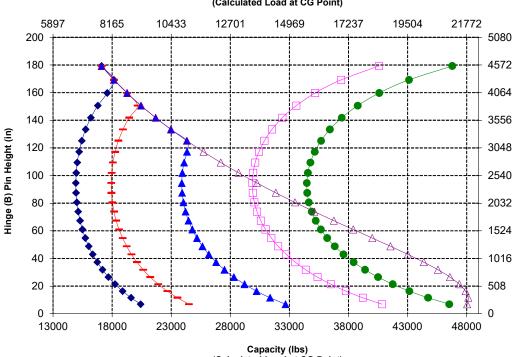


NOTE: Static tipping loads and operating weight are based on the following loader configuration: Bridgestone \* VSNT L4 Tires, Air Conditioning, Ride Control, Powertrain Guard, Full Fluids, Fuel Tank, Coolant, Lubricants, and Operator.

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CEN EN 474-3: 80% of full turn static tipping load on firm and level ground or

\*SAE - Society of Automotive Engineers \*\*CEN - European Committee for Standardization

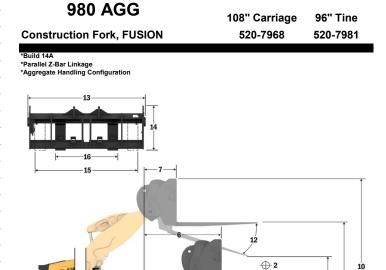


(Calculated Load at CG Point)

<sup>\*</sup>Negative values indicate below grade

Fork	Specification	ne
LOIK	Specification	113

1	Tine Length	mm in	2438 96.0
_	Lood Conton	mm	1219
2	Load Center	in	48.0
	Static Tipping Load - Straight (Forks Level)	kg	14976
	Otatio Tipping Load - Ottaignt (1 Orto Level)	lbs	33008
	Static Tipping Load - Articulated (Forks Level)	kg	12965
	· · · · · · · · · · · · · · · · · · ·	lbs ka	28575
	Rated Load (SAE J1197 - 50% FTSTL)	kg lbs	6483 14288
	D-1-414 (OEN EN 474 O.D   T	kq	6988
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	lbs	15401
	Poted Load (CEN EN 474 2 Firm and Lovel Cround, 2007, ETCTL)	kg	6988
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	lbs	15401
3	Maximum Overall Length	mm	10996
,		in	432.9
4	Reach with Forks at Ground Level	mm	1141
•		in	44.9
5	*Ground to Bottom of Tine at Minimum Height and Fork Level	mm	-65 2.5
	<u> </u>	in	-2.5 1797
6	Reach with Arms Horizontal and Forks Level	mm in	70.7
_	B. I. M. E. I. M. C. H. M. C.	mm	870
7	Reach with Fork at Maximum Height	in	34.2
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm	2135
•	Ground to Top of Time with Arms Horizontal and Fork Level	in	84.0
9	Ground to Top of Tine at Maximum Height and Fork Level	mm	4403
	2.2 to rep or this at maximum floight and fork Lovel	in	173.4
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm	5443
	· · · · · · · · · · · · · · · · · · ·	in	214.3
11	Clearance at Full Lift and Max Dump	mm	2122 83.5
		<u>in</u>	
12	Max Discharge Angle from Horizontal	deg	51
42	Overall Carriage Width	mm	2833
13	Overall Carriage Width	in	111.5
14	Overall Carriage Height	mm	1130
	Overall Garriage Freight	in	44.5
15	Outside Tine Width (max spread)	mm	2483
		in	97.8
16	Outside Tine Width (min spread)	mm	590 23.2
		in mm	180.0
	Tine Width (single tine)	in	7.1
	The Thirdeness	mm	90.0
	Tine Thickness	in	3.5
	Tine Canacity	kg	11300
	Tine Capacity	lbs	24905
	Operating Weight	kg	30286
	Operating Weight	lbs	66750



Hinge (B) Pin Height (mm)



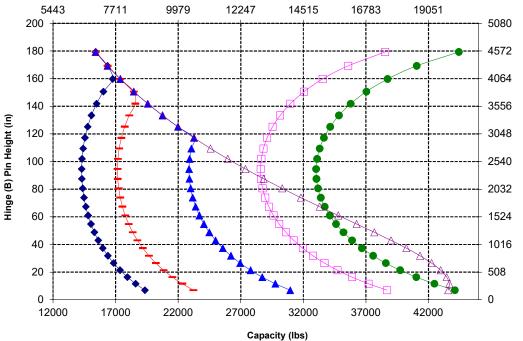
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CEN EN 474-3: 80% of full turn static tipping load on firm and level ground or

\*SAE - Society of Automotive Engineers \*\*CEN - European Committee for Standardization

# Capacity (kg) (Calculated Load at CG Point)

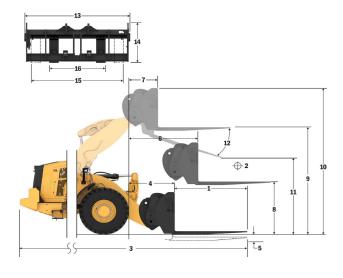


<sup>\*</sup>Negative values indicate below grade

#### **Fork Specifications**

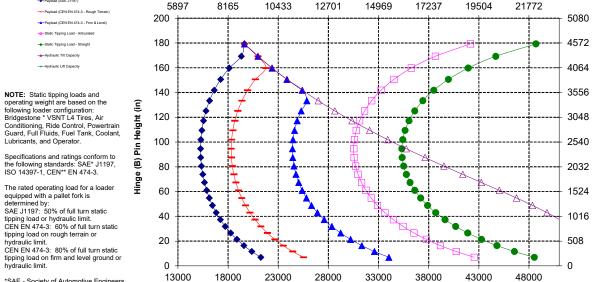
	nk opecinications		
1	Tine Length	mm in	1829 72.0
2	Load Center	mm	914
	Load Center	in	36.0
	Static Tipping Load - Straight (Forks Level)	kg	16020
	,	lbs ka	35309 13844
	Static Tipping Load - Articulated (Forks Level)	lbs	30513
	Rated Load (SAE J1197 - 50% FTSTL)	kg	6922
	Raied Load (SAE JT197 - 50% FTSTL)	lbs	15256
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg	8307
	,	lbs	18308
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	kg lbs	8905 19627
_		mm	10408
3	Maximum Overall Length	in	409.8
4	Reach with Forks at Ground Level	mm	1162
	Treach with Forks at Glound Level	in	45.8
5	*Ground to Bottom of Tine at Minimum Height and Fork Level	mm	-99
		in	-3.9
6	Reach with Arms Horizontal and Forks Level	mm in	1796 70.7
_		mm	869
7	Reach with Fork at Maximum Height	in	34.2
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm	2095
-	Ground to Top of Time with Arms Horizontal and Pork Level	in	82.5
9	Ground to Top of Tine at Maximum Height and Fork Level	mm	4364
		in	171.8
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm in	5407 212.9
		mm	2498
11	Clearance at Full Lift and Max Dump	in	98.3
12	Max Discharge Angle from Horizontal	deg	55
12	Max Discharge Angle Iron Horizontal		
13	Overall Carriage Width	mm	2821
	· · · •	in mm	111.1 1129
14	Overall Carriage Height	in	44.4
	O L I L T MEN / D	mm	2627
15	Outside Tine Width (max spread)	in	103.4
16	Outside Tine Width (min spread)	mm	747
-10	Outside Title Width (Hill Spread)	in	29.4
	Tine Width (single tine)	ḿш	250.0
		in	9.8
	Tine Thickness	mm	85.0 3.3
		in ka	18700
	Tine Capacity	lbs	41215
	Operating Weight	kg	30599
	Operating Weight	lbs	67440





### Capacity (kg) (Calculated Load at CG Point)

Capacity (lbs)
(Calculated Load at CG Point)



\*SAE - Society of Automotive Engineers \*\*CEN - European Committee for Standardization

Lubricants, and Operator.



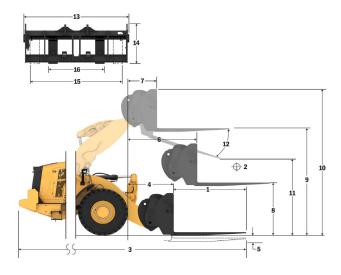
WARNING: Do not exceed tine load capacity. Individual tine capacity is stamped on the side of each tine.

<sup>\*</sup>Negative values indicate below grade

Fork Specifications	;
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	•		
1	Tine Length	mm in	2134 84.0
2	Load Center	mm	1067
	Load Center	in	42.0
	Static Tipping Load - Straight (Forks Level)	kg	15281
	11 0 0 1 ,	lbs ka	33680 13192
	Static Tipping Load - Articulated (Forks Level)	lbs	29075
	D + 11	kg	6596
	Rated Load (SAE J1197 - 50% FTSTL)	lbs	14537
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg	7914
	Trated Load (OLIV LIV 474-5 Rough Terrain - 00 % 1 151L)	lbs	17442
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	kg	7914
	,	lbs	17442 10717
3	Maximum Overall Length	mm in	421.9
_		mm	1166
4	Reach with Forks at Ground Level	in	45.9
5	*Ground to Bottom of Tine at Minimum Height and Fork Level	mm	-99
-	Ground to Bottom or Time at William Height and Fork Level	in	-3.9
6	Reach with Arms Horizontal and Forks Level	mm	1796
_		in	70.7
7	Reach with Fork at Maximum Height	mm	869
_		in mm	34.2 2100
8	Ground to Top of Tine with Arms Horizontal and Fork Level	in	82.7
9	Ground to Top of Tine at Maximum Height and Fork Level	mm	4369
9	Ground to Top of Tine at Maximum Height and Fork Level	in	172.0
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm	5407
	Overall Freight of Fertilat Fall Line (top of samage to greatia)	in	212.9
11	Clearance at Full Lift and Max Dump	mm	2247
	<u> </u>	in	88.5
12	Max Discharge Angle from Horizontal	deg	55
13	Overall Carriage Width	mm	2821
	g	in	111.1
14	Overall Carriage Height	mm in	1129 44.4
		mm	2627
15	Outside Tine Width (max spread)	in	103.4
16	Outside Tine Width (min spread)	mm	747
10	Outside Title Width (Hill Spread)	in	29.4
	Tine Width (single tine)	mm	250.0
	(9)	in	9.8
	Tine Thickness	mm	90.0 3.5
_		in ka	17729
	Tine Capacity	lbs	39075
	Onevating Weight	ka	30701
	Operating Weight	lbs	67664

2x 130 mm HE Tilt Cylinders 980 AGG 108" Carriage 84" Tine Construction Fork, HD, FUSION 523-4199 523-4201



Hinge (B) Pin Height (mm)

### Capacity (kg) (Calculated Load at CG Point)



NOTE: Static tipping loads and operating weight are based on the following loader configuration: Bridgestone \* VSNT L4 Tires, Air Conditioning, Ride Control, Powertrain Guard, Full Fluids, Fuel Tank, Coolant, Lubricants and Operator. Lubricants, and Operator.

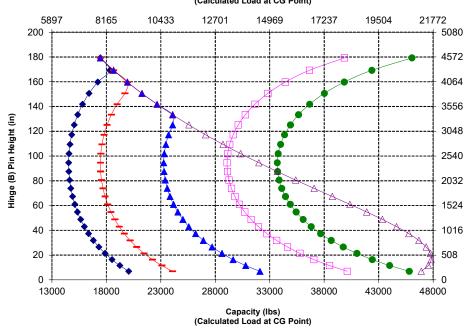
Specifications and ratings conform to the following standards: SAE\* J1197, ISO 14397-1, CEN\*\* EN 474-3.

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 rough terrain or hydraulic limit.

tipping load on firm and level ground or hydraulic limit.

\*SAE - Society of Automotive Engineers \*\*CEN - European Committee for Standardization





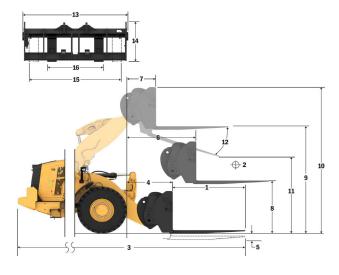
WARNING: Do not exceed tine load capacity. Individual tine capacity is stamped on the side of each tine.

<sup>\*</sup>Negative values indicate below grade

#### **Fork Specifications**

1	Tine Length	mm in	2438 96.0
2	Load Center	mm	1219
_	Load Center	in	48.0
	Static Tipping Load - Straight (Forks Level)	kg	14537
		lbs	32041
	Static Tipping Load - Articulated (Forks Level)	kg lbs	12529 27614
		kg	6265
	Rated Load (SAE J1197 - 50% FTSTL)	lbs	13807
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg	7041
	Rated Load (CEN EN 474-3 Rough Terrain - 60% F131L)	lbs	15518
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	kg	7041
	Traica Edad (OEIT EIT 474 OT IIII and Edver Greand - 00701 1012)	lbs	15518
3	Maximum Overall Length	mm	11025
_		in	434.1
4	Reach with Forks at Ground Level	mm in	1170
		mm	46.1 -98
5	*Ground to Bottom of Tine at Minimum Height and Fork Level	in	-3.8
_		mm	1801
6	Reach with Arms Horizontal and Forks Level	in	70.9
7	Reach with Fork at Maximum Height	mm	874
′	Reach with Fork at Maximum neight	in	34.4
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm	2102
_	Ordana to Top of Time Mary time Herizontal and Total Edver	in	82.7
9	Ground to Top of Tine at Maximum Height and Fork Level	mm	4370
	<u> </u>	in mm	172.1 5407
10	Overall Height of Fork at Full Lift (top of carriage to ground)	in	212.9
		mm	1994
11	Clearance at Full Lift and Max Dump	in	78.5
42	May Discharge Angle from Harizontal		
12	Max Discharge Angle from Horizontal	deg	55
13	Overall Carriage Width	mm	2821
	Overall Carriage Wilder	in	111.1
14	Overall Carriage Height	mm	1127
		in	44.4 2629
15	Outside Tine Width (max spread)	mm in	103.5
		mm	747
16	Outside Tine Width (min spread)	in	29.4
	Tine Width (single tine)	mm	250.0
	Tine Width (single tine)	in	9.8
	Tine Thickness	mm	90.0
	THE HIGHEST	in	3.5
	Tine Capacity	kg	15750
		lbs	34713
	Operating Weight	kg	30852
		lbs	67997





Payload (CEN EN 474-3 - Firm & Level

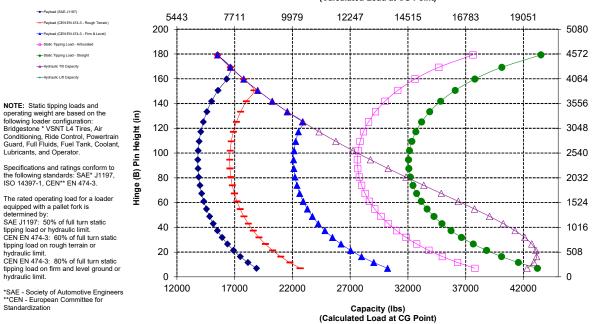
Lubricants, and Operator.

Specifications and ratings conform to the following standards: SAE\* J1197, ISO 14397-1, CEN\*\* EN 474-3.

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 rough terrain or hydraulic limit.

### Capacity (kg) (Calculated Load at CG Point)



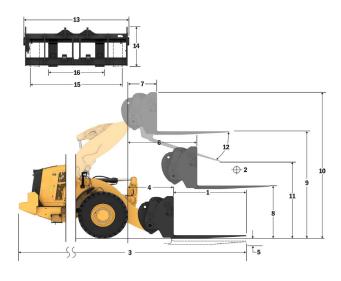
WARNING: Do not exceed tine load capacity. Individual tine capacity is stamped on the side of each tine.

<sup>\*</sup>Negative values indicate below grade

#### **Fork Specifications**

1         Tine Length         mm 18 in 72         18 in 72           2         Load Center         mm 9 in 78 in 73 in 74
2   Load Center
Static Tipping Load - Straight (Forks Level)   Static Tipping Load - Articulated (Forks Level)   Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)   Static Tipping Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)   Static Tipping Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)   Static Tipping Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)   Static Tipping Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)   Static Tipping Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)   Static Tipping Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)   Static Tipping Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)   Static Tipping Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)   Static Tipping Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)   Static Tipping Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)   Static Tipping Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)   Static Tipping Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)   Static Tipping Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)   Static Tipping Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)   Static Tipping Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)   Static Tipping Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)   Static Tipping Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)   Static Tipping Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL   Static Tipping Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL   Static Tipping Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL   Static Tipping Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL   Static Tipping Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL   Static Tipping Load (CEN EN 474-3 FT
Static Tipping Load - Statilit (Forks Level)   Ibs   366     Static Tipping Load - Articulated (Forks Level)   Rg   144     Rated Load (SAE J1197 - 50% FTSTL)   Rg   72     Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)   Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL   Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL   Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL   Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL   Rated Load (CEN EN 474-
Static Tipping Load - Articulated (Forks Level)
Rated Load (SAE J1197 - 50% FTSTL)   Ibs   318   Rated Load (SAE J1197 - 50% FTSTL)   Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)   Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)   Rated Load (CEN EN 474-3 FTSTL)   Rated Lo
Rated Load (SAE J1197 - 50% FTSTL)
Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)
Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)   Ibs   191
Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)   Res   19   Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)   Res   247   Sax   247   Sax   247   Sax   247   Sax   Sax   247   Sax   S
Section   Sect
3   Maximum Overall Length   mm   104   104   104   104   104   104   104   104   104   105
Maximum Overall Length   In   41:
Reach with Forks at Ground Level   mm   11 in   A7
S *Ground to Bottom of Tine at Minimum Height and Fork Level
Feedback   Feedback
Reach with Arms Horizontal and Forks Level   mm   18   n   71
Reach with Fork at Maximum Height   mm   8   Reach with Fork at Maximum Height   mm   20   mm
7         Reach with Fork at Maximum Height         mm 8 in 3 km 3 km 3 km 3 km 3 km 4 km 4 km 4 km
Section   Sect
8         Ground to Top of Tine with Arms Horizontal and Fork Level         mm 20 in 79 or 79         20 in 79 or 79           9         Ground to Top of Tine at Maximum Height and Fork Level in 160 or 16
9   Ground to Top of Time with Aritis Roll Zollial and Pork Level   in 79   mm 42   161
10   Overall Height of Fork at Full Lift (top of carriage to ground)   mm   50   in   18   19   11   Clearance at Full Lift and Max Dump   mm   26   in   10   11   12   Max Discharge Angle from Horizontal   deg   4   13   Overall Carriage Width   mm   22   in   87   14   Overall Carriage Height   mm   84   in   33   15   Outside Tine Width (max spread)   in   81   15   Outside Tine Width (max spread)   in   81   15   16   16   16   16   16   16   1
10   Overall Height of Fork at Full Lift (top of carriage to ground)   mm   50   mm   50   mm   51   11   Clearance at Full Lift and Max Dump   mm   26   mm   191   12   Max Discharge Angle from Horizontal   deg   4   13   Overall Carriage Width   mm   22   mm   24   mm   25   mm   26   mm   27   mm   27   mm   28   mm   28   mm   28   mm   29   mm   29   mm   20   mm   2
11   Clearance at Full Lift and Max Dump   mm   26 in 19/1   12   Max Discharge Angle from Horizontal   deg   4     13   Overall Carriage Width   mm   22 in 8/1   14   Overall Carriage Height   mm   33 in 3     15   Outside Tine Width (max spread)   mm   8/1   16   Outside Tine Width (max spread)   mm   20 in 8/1
11         Clearance at Full Lift and Max Dump         mm bit in 10% in 1
11 Clearance at Full Lift and Max Dump         in         10!           12 Max Discharge Angle from Horizontal         deg         4           13 Overall Carriage Width         mm         22           14 Overall Carriage Height         mm         84           15 Outside Tine Width (max spread)         mm         20
12         Max Discharge Angle from Horizontal         deg         4           13         Overall Carriage Width         mm         22           14         Overall Carriage Height         in         33           15         Outside Tine Width (max spread)         in         81
13         Overall Carriage Width         mm st (n = 87)         22 (n = 87)           14         Overall Carriage Height         mm st (n = 87)         84 (n = 87)           15         Outside Tine Width (max spread)         in st (n = 81)         81 (n = 87)
13 Overall Carriage Width         in         87           14 Overall Carriage Height         mm         86           15 Outside Tine Width (max spread)         mm         20           in         81           mm         20
14 Overall Carriage Height   mm   8/1
14 Overall carriage Height         in         33           15 Outside Tine Width (max spread)         in         81
15 Outside Tine Width (max spread) mm 20 in 81 in 81
in 81
mm 47
46 Outside Tine Width (min enreed)
16 Outside Tine Width (min spread) in 18
Tine Width (single tine) mm 150
in 5.
Tine Thickness mm 65
in 2.
Tine Capacity Kg 52 Ibs 115
Operating Weight kg 297

000 ACC OC	2x 150 mm HE Til	t Cylinders
980 AGG QC	87" Carriage	72" Tine
Pallet Fork, FUSION	530-1861	530-1869



Hinge (B) Pin Height (mm)

### Capacity (kg) (Calculated Load at CG Point)

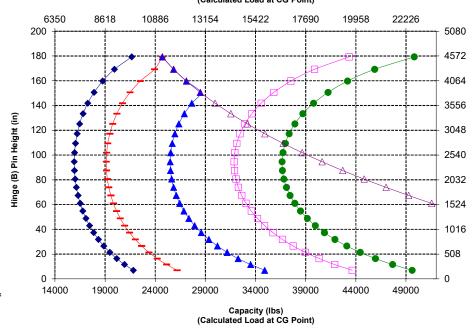


NOTE: Static tipping loads and operating weight are based on the following loader configuration: Bridgestone \* VSNT L4 Tires, Air Conditioning, Ride Control, Powertrain Guard, Full Fluids, Fuel Tank, Coolant, Lubricants and Operator. Lubricants, and Operator.

Specifications and ratings conform to the following standards: SAE\* J1197, ISO 14397-1, CEN\*\* EN 474-3.

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 full furn static tipping load on firm and level ground or hydraulic limit.

\*SAE - Society of Automotive Engineers
\*\*CEN - European Committee for
Standardization





WARNING: Do not exceed tine load capacity. Individual tine capacity is stamped on the side of each tine.

<sup>\*</sup>Negative values indicate below grade

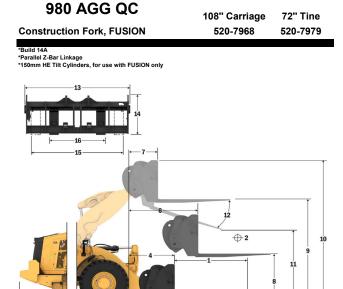
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Hinge (B) Pin Height (mm)

#### **Fork Specifications**

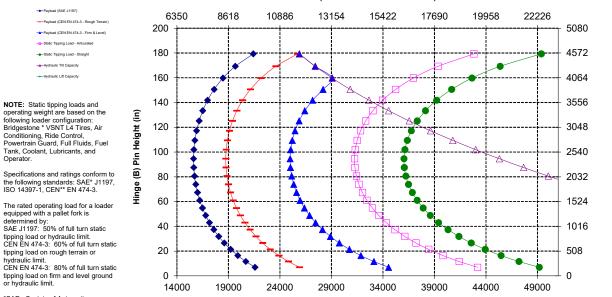
#### **Fork Specifications**

1 Tine Length 2 Load Center Static Tipping Load - Straight (Forks Level) Static Tipping Load - Articulated (Forks Level) Rated Load (SAE J1197 - 50% FTSTL) Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL) Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL) 3 Maximum Overall Length 4 Reach with Forks at Ground Level 5 *Ground to Bottom of Tine at Minimum Height and Fork Level 6 Reach with Arms Horizontal and Forks Level	mm in mm in kg lbs kg lbs kg lbs kg lbs mm in mm in mm in mm	1829 72.0 915 36.0 16347 36028 14169 31229 7085 15614 8501 18737 11335 24983 10387 408.9 1141 44.9
Static Tipping Load - Straight (Forks Level)  Static Tipping Load - Articulated (Forks Level)  Rated Load (SAE J1197 - 50% FTSTL)  Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)  Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)  3 Maximum Overall Length  4 Reach with Forks at Ground Level  5 *Ground to Bottom of Tine at Minimum Height and Fork Level	mm in kg lbs kg lbs kg lbs kg lbs mm in mm	915 36.0 16347 36028 14169 31229 7085 15614 8501 18737 11335 24983 10387 408.9
Static Tipping Load - Straight (Forks Level)  Static Tipping Load - Articulated (Forks Level)  Rated Load (SAE J1197 - 50% FTSTL)  Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)  Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)  3 Maximum Overall Length  4 Reach with Forks at Ground Level  5 *Ground to Bottom of Tine at Minimum Height and Fork Level	in kg lbs kg lbs kg lbs kg lbs mm in mm	36.0 16347 36028 14169 31229 7085 15614 8501 18737 11335 24983 10387 408.9 1141 44.9
Static Tipping Load - Articulated (Forks Level)  Rated Load (SAE J1197 - 50% FTSTL)  Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)  Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)  3 Maximum Overall Length  4 Reach with Forks at Ground Level  5 *Ground to Bottom of Tine at Minimum Height and Fork Level	lbs kg lbs kg lbs kg lbs kg lbs mm in mm	36028 14169 31229 7085 15614 8501 18737 11335 24983 10387 408.9 1141 44.9
Static Tipping Load - Articulated (Forks Level)  Rated Load (SAE J1197 - 50% FTSTL)  Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)  Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)  3 Maximum Overall Length  4 Reach with Forks at Ground Level  5 *Ground to Bottom of Tine at Minimum Height and Fork Level	kg lbs kg lbs kg lbs mm in mm in	14169 31229 7085 15614 8501 18737 11335 24983 10387 408.9 1141 44.9
Rated Load (SAE J1197 - 50% FTSTL)  Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)  Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)  3 Maximum Overall Length  4 Reach with Forks at Ground Level  5 *Ground to Bottom of Tine at Minimum Height and Fork Level	lbs kg lbs kg lbs kg lbs mm in mm in	31229 7085 15614 8501 18737 11335 24983 10387 408.9 1141 44.9
Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)  Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)  3 Maximum Overall Length  4 Reach with Forks at Ground Level  5 *Ground to Bottom of Tine at Minimum Height and Fork Level	kg lbs kg lbs kg lbs mm in mm	7085 15614 8501 18737 11335 24983 10387 408.9 1141 44.9
Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)  Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)  3 Maximum Overall Length  4 Reach with Forks at Ground Level  5 *Ground to Bottom of Tine at Minimum Height and Fork Level	lbs kg lbs kg lbs mm in mm in	15614 8501 18737 11335 24983 10387 408.9 1141 44.9
Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)  3 Maximum Overall Length  4 Reach with Forks at Ground Level  5 *Ground to Bottom of Tine at Minimum Height and Fork Level	lbs kg lbs mm in mm in mm	18737 11335 24983 10387 408.9 1141 44.9
Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)  3 Maximum Overall Length  4 Reach with Forks at Ground Level  5 *Ground to Bottom of Tine at Minimum Height and Fork Level	kg lbs mm in mm in mm	11335 24983 10387 408.9 1141 44.9
3 Maximum Overall Length 4 Reach with Forks at Ground Level 5 *Ground to Bottom of Tine at Minimum Height and Fork Level	Ibs mm in mm in mm	24983 10387 408.9 1141 44.9
Reach with Forks at Ground Level     *Ground to Bottom of Tine at Minimum Height and Fork Level	mm in mm in mm	10387 408.9 1141 44.9
Reach with Forks at Ground Level     *Ground to Bottom of Tine at Minimum Height and Fork Level	in mm in mm	408.9 1141 44.9
5 *Ground to Bottom of Tine at Minimum Height and Fork Level	in mm	1141 44.9
5 *Ground to Bottom of Tine at Minimum Height and Fork Level	mm	
		-65
	in	
Reach with Arms Horizontal and Forks Level		-2.5
	mm in	1797 70.7
- B 1 W - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	mm	870
7 Reach with Fork at Maximum Height	in	34.2
8 Ground to Top of Tine with Arms Horizontal and Fork Level	mm	2135
Ordana to Top of Time with 74 mo Horizontal and Tork 2010	in	84.0
Ground to Top of Tine at Maximum Height and Fork Level	mm	4403
	in mm	173.4 5443
10 Overall Height of Fork at Full Lift (top of carriage to ground)	in	214.3
11 Clearance at Full Lift and Max Dump	mm	2597
TI Clearance at Full Lift and Max Dump	in	102.3
12 Max Discharge Angle from Horizontal	deg	51
40.0 110.1 141.111	mm	2833
13 Overall Carriage Width	in	111.5
14 Overall Carriage Height	mm	1130
14 Overall Garriage Height	in	44.5
15 Outside Tine Width (max spread)	mm in	2483 97.8
	mm	590
16 Outside Tine Width (min spread)	in	23.2
Tine Width (single tine)	mm	180.0
Title Width (Single title)	in	7.1
Tine Thickness	mm	90.0
	in	3.5
Tine Capacity	ka Ibs	14800
	ka	32619 30211
Operating Weight		66585



\*Negative values indicate below grade

#### Capacity (kg) (Calculated Load at CG Point)



Capacity (lbs)
(Calculated Load at CG Point)

\*SAE - Society of Automotive Engineers \*\*CEN - European Committee for Standardization

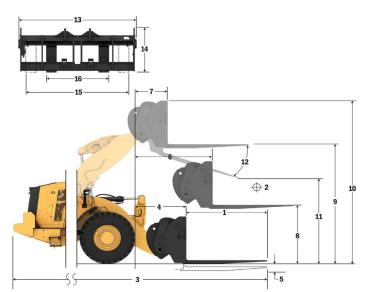
WARNING: Do not exceed tine load capacity. Individual tine capacity is stamped on the side of each tine.

#### **Fork Specifications**

#### **Fork Specifications**

1	Tine Length	mm in	2134 84.0
2	Load Center	mm	1067
	Load Ceriter	in	42.0
	Static Tipping Load - Straight (Forks Level)	kg Ibs	15636 34462
	O. C. T	ka	13545
	Static Tipping Load - Articulated (Forks Level)	lbs	29853
	Rated Load (SAE J1197 - 50% FTSTL)	kg	6773
	Traise Edda (G/IE 01101 - 00/01 TOTE)	lbs	14927
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg lbs	8127 17912
		ka	10508
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	lbs	23160
3	Maximum Overall Length	mm	10692
	Waximum Overali Eengui	in	420.9
4	Reach with Forks at Ground Level	mm	1141
		in mm	44.9 -65
5	*Ground to Bottom of Tine at Minimum Height and Fork Level	in	-2.5
6	Reach with Arms Horizontal and Forks Level	mm	1797
٠	Treach with Airlis Honzontal and Forks Level	in	70.7
7	Reach with Fork at Maximum Height	mm	870
	<u> </u>	in mm	34.2 2135
8	Ground to Top of Tine with Arms Horizontal and Fork Level	in	84.0
9	Ground to Top of Tine at Maximum Height and Fork Level	mm	4403
9	Ground to Top or Title at Maximum Height and Fork Level	in	173.4
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm	5443
		in mm	214.3 2359
11	Clearance at Full Lift and Max Dump	in	92.9
12	Max Discharge Angle from Horizontal	deg	51
	0 110 : 14/5141	mm	2833
13	Overall Carriage Width	in	111.5
14	Overall Carriage Height	mm	1130
		in	44.5
15	Outside Tine Width (max spread)	mm in	2483 97.8
		mm	590
16	Outside Tine Width (min spread)	in	23.2
	Tine Width (single tine)	mm	180.0
	This Width (single title)	in	7.1
	Tine Thickness	mm	90.0
		in kg	3.5 12700
	Tine Capacity	lbs	27991
	Operating Weight	kg	30273
	Operating weight	lbs	66721
	*Negative values indicate below grade	IDS	0012





Hinge (B) Pin Height (mm)

### Capacity (kg)

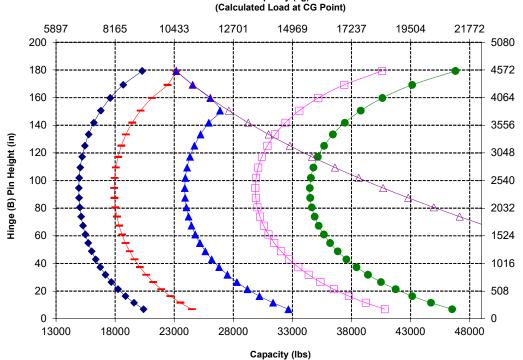


NOTE: Static tipping loads and operating weight are based on the Following loader configuration: Bridgestone \* VSNT L4 Tires, Air Conditioning, Ride Control, Powertrain Guard, Full Fluids, Fuel Tank, Coolant, Lubricants, and

Specifications and ratings conform to the following standards: SAE\* J1197, ISO 14397-1, CEN\*\* EN 474-3.

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

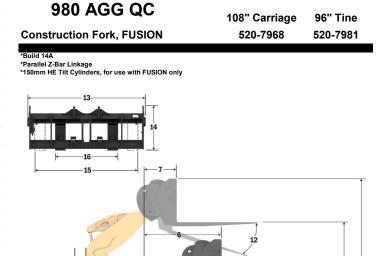


(Calculated Load at CG Point)

<sup>\*</sup>Negative values indicate below grade

#### **Fork Specifications**

	•		
1	Tine Length	mm in	2438 96.0
2	Load Center	mm	1219
	2000 001101	in	48.0
	Static Tipping Load - Straight (Forks Level)	kg Ibs	14976 33007
	Static Tipping Load - Articulated (Forks Level)	kg	12965
	otatio i pping zoda i i i i i i i i i i i i i i i i i i i	lbs	28574
	Rated Load (SAE J1197 - 50% FTSTL)	kg lbs	6482 14287
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg	7779
	, ,	lbs	17144
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	ka Ibs	9491 20919
_		mm	10996
3	Maximum Overall Length	in	432.9
4	Reach with Forks at Ground Level	mm	1141
	Treach with Forks at Ground Level	in	44.9
5	*Ground to Bottom of Tine at Minimum Height and Fork Level	mm	-65
_	<u> </u>	in	-2.5 1797
6	Reach with Arms Horizontal and Forks Level	mm in	70.7
_	D. I. W.E. L. M. C. H. C.	mm	870
7	Reach with Fork at Maximum Height	in	34.2
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm	2135
	Ordana to rop or time mary ame riorizontal and rom zoro	in	84.0
9	Ground to Top of Tine at Maximum Height and Fork Level	mm in	4403 173.4
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm	5443
-10	Overall Height of Fork at Full Lift (top of carnage to ground)	in	214.3
11	Clearance at Full Lift and Max Dump	mm	2122
	<u> </u>	in	83.5
12	Max Discharge Angle from Horizontal	deg	51
13	Overall Carriage Width	mm	2833
	<u> </u>	in	111.5
14	Overall Carriage Height	mm in	1130 44.5
15	Outside Tine Width (max spread)	mm	2483
-13	Outside Tille Width (Max Spread)	in	97.8
16	Outside Tine Width (min spread)	mm	590
	- ( 1 /	in	23.2
	Tine Width (single tine)	mm in	180.0 7.1
	Tion Thinks	mm	90.0
	Tine Thickness	in	3.5
	Tine Capacity	kg	11300
	тис Оараоку	lbs	24905
	Operating Weight	kg	30336
		lbs	66860
	*Negative values indicate below grade		



**+**2

\*Negative values indicate below grade

### Capacity (kg) (Calculated Load at CG Point)

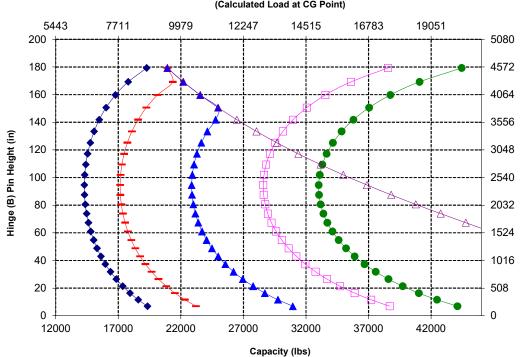


NOTE: Static tipping loads and operating weight are based on the following loader configuration: Bridgestone \* VSNT L4 Tires, Air Conditioning, Ride Control, Powertrain Guard, Full Fluids, Fuel Tank, Coolant, Lubricants, and

Specifications and ratings conform to the following standards: SAE\* J1197, ISO 14397-1, CEN\*\* EN 474-3.

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



(Calculated Load at CG Point)

#### **Fork Specifications**

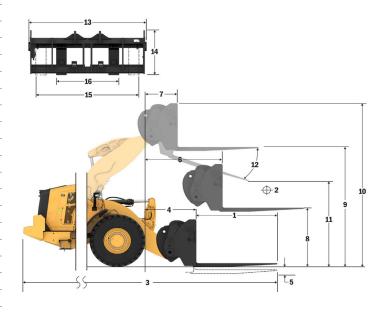
Fork Specifica	ations
----------------	--------

	•		
1	Tine Length	mm in	1829 72.0
2	Load Center	mm	914
	Load Celilei	in	36.0
	Static Tipping Load - Straight (Forks Level)	kg	16020
		lbs kg	35307 13843
	Static Tipping Load - Articulated (Forks Level)	lbs	30511
	Rated Load (SAE J1197 - 50% FTSTL)	kg	6922
	Nated Load (SAL 31197 - 30 /61 131L)	lbs	15255
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg	8306
	,	lbs	18307 11075
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	ka Ibs	24409
_		mm	10408
3	Maximum Overall Length	in	409.8
4	Reach with Forks at Ground Level	mm	1162
	Treach with Forks at Ground Ecver	in	45.8
5	*Ground to Bottom of Tine at Minimum Height and Fork Level	mm	-99
		in mm	-3.9 1796
6	Reach with Arms Horizontal and Forks Level	in	70.7
_	Decelorable Feels of Mexicons Height	mm	869
7	Reach with Fork at Maximum Height	in	34.2
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm	2095
		in	82.5
9	Ground to Top of Tine at Maximum Height and Fork Level	mm in	4364 171.8
		mm	5407
10	Overall Height of Fork at Full Lift (top of carriage to ground)	in	212.9
11	Clearance at Full Lift and Max Dump	mm	2498
	Clearance at Full Lift and Wax Dump	in	98.3
12	Max Discharge Angle from Horizontal	deg	55
	0 110 : 111:111	mm	2821
13	Overall Carriage Width	in	111.1
14	Overall Carriage Height	mm	1129
	Overall Carriage Freight	in	44.4
15	Outside Tine Width (max spread)	mm	2627
	· , , ,	in mm	103.4 747
16	Outside Tine Width (min spread)	in	29.4
	The AMiddle (almost after A	mm	250.0
	Tine Width (single tine)	in	9.8
	Tine Thickness	mm	85.0
	1110 1110111000	in	3.3
	Tine Capacity	kg	18700
	<u> </u>	lbs ka	41215 30649
	Operating Weight	lbs	67550
	*Negative values indicate below grade	100	0.000

 980 AGG QC
 2x 150 mm HE Tilt Cylinders

 108" Carriage
 72" Tine

 Construction Fork, HD, FUSION
 523-4199
 523-4200



Hinge (B) Pin Height (mm)

NOTE: Static tipping loads and operating weight are based on the following loader configuration: Bridgestone \* VSNT L4 Tires, Air Conditioning, Ride Control, Powertrain Guard, Full Fluids, Fuel Tank, Coolant, Lubricants, and Operator.

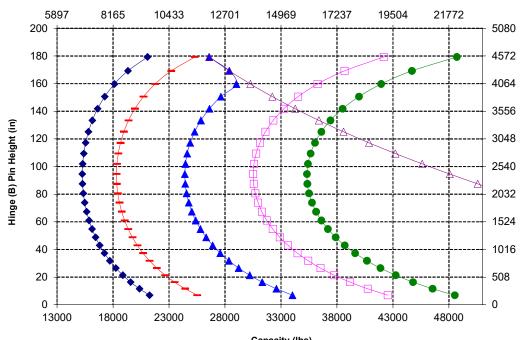
-+- Hydraulic Lift Capacity

Specifications and ratings conform to the following standards: SAE\* J1197, ISO 14397-1, CEN\*\* EN 474-3.

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

\*SAE - Society of Automotive Engineers \*\*CEN - European Committee for Standardization

#### Capacity (kg) (Calculated Load at CG Point)



Capacity (lbs) (Calculated Load at CG Point)

<sup>\*</sup>Negative values indicate below grade

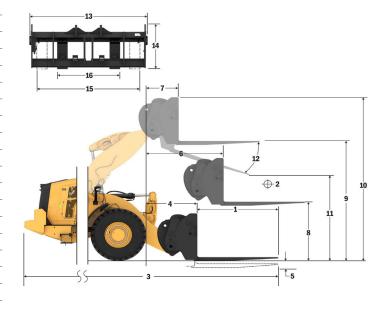
#### **Fork Specifications**

1	Tine Length	mm in	2134 84.0
2	Load Center	mm	1067
	Load Center	in	42.0
	Static Tipping Load - Straight (Forks Level)	kg	15281
		lbs	33678 13191
	Static Tipping Load - Articulated (Forks Level)	kg lbs	29073
	D-4-414 (0AE 14407 F00) FTOTI \	kg	6595
	Rated Load (SAE J1197 - 50% FTSTL)	lbs	14536
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg	7915
	Traise Esta (SEIV EIV 414 STROUGH TSHain SS 701 TSTE)	lbs	17444
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	ka	10553
		lbs mm	23258 10717
3	Maximum Overall Length	in	421.9
	Barack with Faulus at Ones and Laved	mm	1166
4	Reach with Forks at Ground Level	in	45.9
- 5	*Ground to Bottom of Tine at Minimum Height and Fork Level	mm	-99
	Ground to Bottom of Time at William Theight and Tork Level	in	-3.9
6	Reach with Arms Horizontal and Forks Level	mm	1796
		in	70.7
7	Reach with Fork at Maximum Height	mm in	869 34.2
		mm	2100
8	Ground to Top of Tine with Arms Horizontal and Fork Level	in	82.7
9	Ground to Top of Tine at Maximum Height and Fork Level	mm	4369
	Ground to Top of Time at Maximum Height and Fork Level	in	172.0
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm	5407
	everally resignition of the art all all the personnings to greatly	in	212.9
11	Clearance at Full Lift and Max Dump	mm	2247
	<u> </u>	in	88.5
12	Max Discharge Angle from Horizontal	deg	55
12	Overall Carriage Width	mm	2821
13	Overall Carriage Width	in	111.1
14	Overall Carriage Height	mm	1129
		in	44.4
15	Outside Tine Width (max spread)	mm	2627 103.4
		in mm	747
16	Outside Tine Width (min spread)	in	29.4
	Tine Width (single tine)	mm	250.0
	Tille vvidil (siligle tille)	in	9.8
	Tine Thickness	mm	90.0
		in	3.5
	Tine Capacity	kg	17729
		lbs ka	39075 30751
	Operating Weight	kg lbs	67775
		IDS	31113

 980 AGG QC
 2x 150 mm HE Tilt Cylinders

 108" Carriage
 84" Tine

 Construction Fork, HD, FUSION
 523-4199
 523-4201



#### Capacity (kg) (Calculated Load at CG Point)

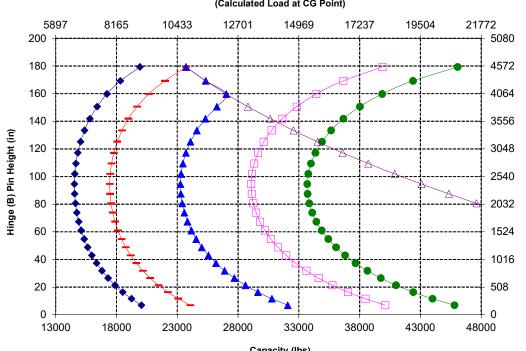


NOTE: Static tipping loads and operating weight are based on the following loader configuration: Bridgestone \* VSNT L4 Tires, Air Conditioning, Ride Control, Powertrain Guard, Full Fluids, Fuel Tank, Coolant, Lubricants, and Operator.

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CEN EN 474-3: 80% of full turn static tipping load on firm and level ground or

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Capacity (lbs) (Calculated Load at CG Point)

<sup>\*</sup>Negative values indicate below grade

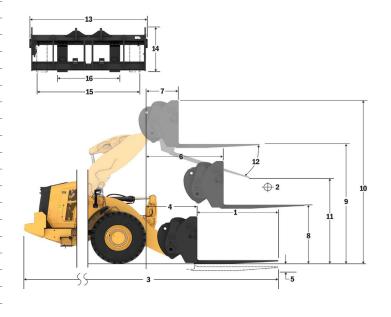
#### **Fork Specifications**

. 0	ik opecinications		
1	Tine Length	mm in	2438 96.0
2	Load Center	mm	1219
	Load Oction	in	48.0
	Static Tipping Load - Straight (Forks Level)	kg lbs	14537 32039
	Static Tipping Load - Articulated (Forks Level)	kg	12528
	Static Tipping Load - Articulated (Forks Level)	lbs	27612
	Rated Load (SAE J1197 - 50% FTSTL)	kg lbs	6264 13806
_	Detect of ACEN EN 474 0 Decemb Terresia COO/ ETCT )	ka	7517
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	lbs	16567
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	ka	9628
	,	lbs mm	21221 11025
3	Maximum Overall Length	in	434.1
4	Reach with Forks at Ground Level	mm	1170
-4	Reacti Willi Forks at Ground Level	in	46.1
5	*Ground to Bottom of Tine at Minimum Height and Fork Level	mm	-98
		in	-3.8
6	Reach with Arms Horizontal and Forks Level	mm in	1801 70.9
_	B 1 20 E 1 100 1 101 10	mm	874
7	Reach with Fork at Maximum Height	in	34.4
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm	2102
_	Ordana to Top of Time Many anno Fronzontal and Fork Zoron	in	82.7
9	Ground to Top of Tine at Maximum Height and Fork Level	mm in	4370 172.1
40	O	mm	5407
10	Overall Height of Fork at Full Lift (top of carriage to ground)	in	212.9
11	Clearance at Full Lift and Max Dump	mm	1994
		in	78.5
12	Max Discharge Angle from Horizontal	deg	55
13	Overall Carriage Width	mm	2821
	Overall Carriage Wilder	in	111.1
14	Overall Carriage Height	mm in	1127 44.4
	0 1 1 T 145 H / 15	mm	2629
15	Outside Tine Width (max spread)	in	103.5
16	Outside Tine Width (min spread)	mm	747
	Cutolac Tine Wall (min oproda)	in	29.4
	Tine Width (single tine)	mm in	250.0 9.8
	The Thister are	mm	90.0
	Tine Thickness	in	3.5
	Tine Capacity	kg	15750
		lbs	34713
	Operating Weight	kg lbs	30902 68108
	*Nonetive values indicate heless and	IDS	00100

 980 AGG QC
 2x 150 mm HE Tilt Cylinders

 108" Carriage
 96" Tine

 Construction Fork, HD, FUSION
 523-4199
 523-4202



Hinge (B) Pin Height (mm)

#### regulive values indicate bolow grade



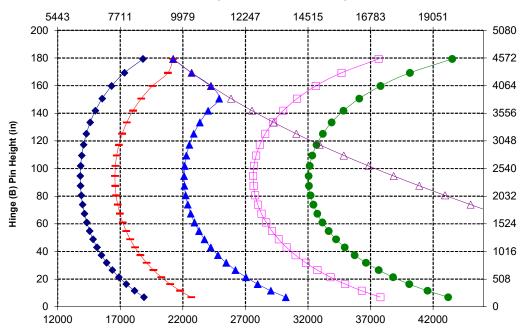
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\*SAE - Society of Automotive Engineers \*\*CEN - European Committee for Standardization

#### Capacity (kg) (Calculated Load at CG Point)



Capacity (lbs) (Calculated Load at CG Point)

<sup>\*</sup>Negative values indicate below grade

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

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

	Standard	Optional
PERATOR ENVIRONMENT		
Cab, pressurized, sound suppression	✓	
Door, remote opening system		✓
EH implement controls, parking brake	✓	
Footrest		✓
HMU steering wheel	✓	
Steering, joystick		✓
Implement joystick (2V, 3V only)		✓
Entertainment radio (FM, AM, USB, Bluetooth®)		✓
Seat belt, monitored	✓	
Entertainment radio (DAB+)		✓
CB radio ready		✓
Seat, cloth, air suspension	✓	
Seat, suede/cloth, air suspension, heated/cooled		✓
Seat, leather/cloth, air suspension, heated/cooled		✓
Touchscreen display	✓	
Keypad, programmable buttons	✓	
Mirrors, heated		✓
Air conditioner, heater, defroster (auto temp, fan)	✓	
Sun visor, front, retractable	✓	
Sun visor, rear, retractable		✓
Windows, front, safety laminated rounded glass	✓	
Windows, front, heavy-duty, or full guards		✓
N-BOARD TECHNOLOGIES		
Autodig with Auto Set Tires	✓	
Operator ID & machine security	✓	
Application Profiles	✓	
Job Aids	✓	
Controls Help and eOMM*	✓	
Cat Payload Scale	✓	
Cat Advanced Payload		✓
Cat Payload Printer with E-ticket		✓
Key Features Inform	✓	
Bucket Carry Display Widget	✓	
Remote Flash	✓	

	Standard	Optional
HYDRAULICS		
Implement system, load sensing with variable displacement piston pump	✓	
Steering system, load sensing with dedicated variable displacement piston pump	✓	
Ride control, dual accumulators		✓
3 <sup>rd</sup> auxiliary function with ride control		✓
Oil sampling valves, Cat XT <sup>™</sup> hoses	✓	
Quick coupler control		✓
POWERTRAIN		
Cat C13 engine	✓	
Electric fuel priming pump	✓	
Fuel-water separator and secondary fuel filter	✓	
Engine, air precleaner	✓	
Turbine, air precleaner		✓
Radiator, high debris		✓
Cooling fan, reversible		✓
Axles, open differentials	✓	
Axles, limited slip differential(s)		✓
Axles, ecology drains, AOC ready, extreme temperature seals		✓
Axles, oil cooler		✓
Transmission, planetary, automatic power shift	✓	
Torque converter with lock-up	✓	
Heavy-duty transmission		✓
Service brakes, hydraulic, fully enclosed wet disc, wear indicators	✓	
Integrated Braking System (IBS)	✓	
Park brake, caliper on front axles, spring applied-pressure released	✓	
Brake pedal neutralizer with decel function	✓	
ELECTRICAL		
Starting and charging system 24V	✓	
Starting and charging system, 24V		
Starter, electric, heavy-duty	•	
	•	✓
Starter, electric, heavy-duty	<b>√</b>	✓

(continued on next page)

<sup>\*</sup> Not available in all languages

<sup>\*\*</sup> Standard where mandated

<sup>\*\*\*</sup> Not Compatible with roading arrangements

### Standard and Optional Equipment (continued)

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

	Standard	Optional
MONITORING SYSTEM		
Front dash with analog gauges, LCD display, and warning lights	✓	
Primary touchscreen monitor (Cat Payload, quad screens, machine settings & messages)	✓	
Tire Pressure Monitor		✓
Maintenance Reminders	✓	
INKAGE		
Standard lift, Z-bar	✓	
High lift, Z-bar		✓
Kickouts: lift and tilt	✓	
ADDITIONAL EQUIPMENT		
Cat Autolube system		✓
Fenders, extensions or roading		✓
Guards: powertrain, crankcase, cab, cylinders, rear		✓
Biodegradable hydraulic oil		✓
High-speed oil change system		✓
Rear cab access		✓
Fast fill fuel tank		✓
Toolbox		✓

	Standard	Optional
SAFETY		
Cat Detect rear radar system		✓
Dedicated rearview screen		✓
Visibility: mirrors, rearview camera	✓	
Multiview (360°) vision system		✓
Window cleaning platform, front	✓	
4-Point seat belt retractor		✓
Reversing strobe lights***		✓
Seat belt monitoring beacon		✓
Secondary steering system, electrical**		✓
Wheel chocks		✓
Warning beacon		✓
SPECIAL CONFIGURATIONS		
Aggregate handler		✓
Waste and scrap		✓
Forestry		✓
Steel mill		✓
Block handler		✓

<sup>\*</sup> Not available in all languages

<sup>\*\*</sup> Standard where mandated

<sup>\*\*\*</sup> Not Compatible with roading arrangements

### 980 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.html.

#### **Engine**

- The Cat® C13 engine meets Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3, EU Stage IIIA, and China Nonroad Stage III.
- Cat engines are compatible with diesel fuel blended with following lowercarbon intensity fuels\*\* up to:
  - ✓ 100% biodiesel FAME (fatty acid methyl ester)\*
  - √ 100% renewable diesel, HVO (hydrotreated 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.
- \*\* Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.

#### **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 (3.52 lb) of refrigerant, which has a  $\rm CO_2$  equivalent of 2.288 metric tonnes (2.522 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 Pressure Level (ISO 6396:2008)	75 dB(A)
Exterior Sound Power Level (ISO 6395:2008)	112 dB(A)
Operator Sound Pressure Level (ISO 6396:2008)*	72 dB(A)
Exterior Sound Power Level (ISO 6395:2008)**	109 dB(A)

- \*Including countries that adopt the EU and UK Directives
- \*\*EU Noise Directive 2000/14/EC and UK Noise Regulation 2001 No. 1701

#### **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<sup>TM</sup> 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.
  - Autodig with Auto Set Tires provides consistent high bucket fill factors for up to 10% more productivity
- Powershift transmission with lock-up clutch increases fuel efficiency while delivering optimal performance
- Automatic engine idle shutdown system reduces idle hours
- Extended maintenance intervals reduce fluid and filter consumption
- Remote Flash and Remote Troubleshoot

#### 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	64.23%
Iron	15.93%
Nonferrous Metal	2.54%
Mixed Metal	0.41%
Mixed-Metal and Nonmetal	0.03%
Plastic	0.61%
Rubber	9.92%
Mixed Nonmetallic	0.02%
Fluid	1.74%
Other	3.77%
Uncategorized	0.81%
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 - 98%



# 980

## Waste & Scrap Handler

Waste and scrap handler models feature guarding and reinforcement necessary for work in transfer stations, recycling depots, scrap vards, and demolition sites.

#### **Proven Reliability**

- Cat C13 engine offers increased power density with a combination of proven electronic fuel and air systems.
- Thorough component design and machine validation processes result in unmatched reliability and uptime.

#### **Durability**

- Waste and scrap handler package adds additional steel guards all around the machine to protect your investment and keep debris out of the implement valve and engine compartments.
- Heavy-duty steel cable lower steps stand up to the harshest of conditions.
- Heavy-duty transmission and axles designed to handle extreme applications.
- Automatic planetary powershift (4F/4R) transmission features durable, long-lasting components.

#### **Superior Fuel Efficiency & Productivity**

- Optional high lift linkage provides additional dump clearance.
- Optional 3rd valve hydraulics for work tools with a top clamp.
- Optional variable pitch fan and high debris cooling cores keep the cores free from debris.
- Powershift transmission with lock-up clutch increases fuel efficiency while delivering optimal performance.
- Single clutch and lock-to-lock shifting for faster acceleration and speed on grades.
- Automatic idle engine shutdown system significantly reduces idle time, overall operating hours, and fuel consumption.
- Optional limited slip differentials increase traction and reduce tire slip, lowering operating costs.
- Deeply integrated engine, power train, and hydraulic systems deliver unmatched productivity and fuel efficiency.

#### **Safety Features**

- Rearview camera enhances visibility behind the machine, helping you work safely and confidently.
- Optional multiview (360°) vision system helps the operator monitor the surroundings of the machine at all times.
- Optional Cat Detect radar technology enhances awareness by monitoring the working environment and alerts operators to hazards.
- Cab access with wide door, optional remote door opening, and stair-like steps add solid stability.
- Floor-to-ceiling windshield, large mirrors with integrated spot mirrors, and rearview camera provide industry leading all-around visibility.

#### **Reduced Maintenance Time and Costs**

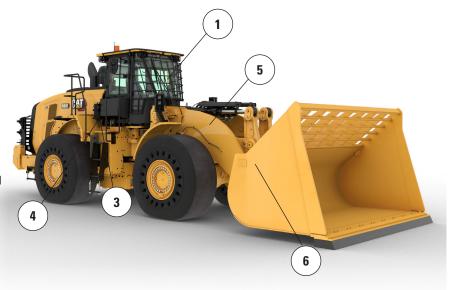
- Extended fluid and filter change intervals reduce maintenance costs by up to 20%.
- Optional turbine engine air precleaner improves air filter life.
- Remote Troubleshoot can connect the machine to the dealer service department to help diagnose problems quickly so you can get back to work.
- Remote Flash works around your schedule to ensure your machine's software is up to date for optimal performance.
- The Cat App helps you manage fleet location, hours, and maintenance schedules; it also alerts you for required maintenance and allows you to request service from your local Cat dealer.
- One-piece tilting hood makes engine compartment access fast and easy.

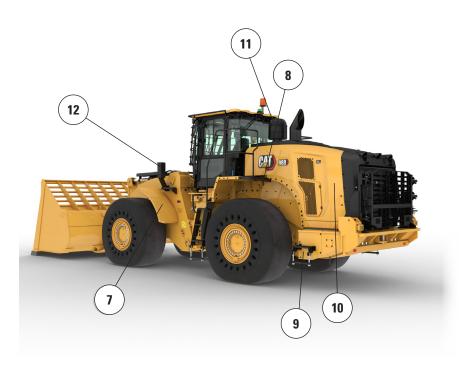
#### Work in Comfort in the All New Cab

- · Carbon cab air filter reduces cabin odors.
- Optional powered cabin precleaner filters the incoming air and pressurize the cab.
- Next-generation, easily adjustable seat and suspension for improved operator comfort. It comes in three trim levels and can be equipped with a 4-point harness.
- New in-cab dashboard and high-resolution touch display(s) are easy to use, intuitive, and user friendly.
- Sound suppression, seals, and viscous cab mounts decrease noise and vibration for a quieter work environment.
- The seat-mounted electro-hydraulic joystick steering system provides precision control and dramatically reduces arm fatigue, resulting in excellent comfort and accuracy. An HMU steering wheel is also available.

#### 980 Waste & Scrap Handler Specifications

- Optional window guarding to provide impact resistance to the glass
- Added steel guards include crankcase, power train, front frame, hitch, steering cylinder, service center, cab, platform, implement valve cover, and tilt cylinder
- 3. Carbon cab air filter removes harsh odors
- Optional powered cab precleaner helps to improve cab filter life and keeps the cab pressurized
- 5. Optional 3rd valve hydraulics available to control a work tool with a top clamp.
- 6. Large line of waste and scrap work tools





- Narrow front steel fenders help to keep the windshield clean and are set inboard of the outer edge of the tire for added protection
- 8. Optional rear guard protects the rear grill and cooling package from impact
- 9. Heavy-duty steel cable lower steps stand up to the harshest conditions
- Optional variable pitch fan and high debris cooling cores help to keep the cooling package clean
- Optional turbine engine air precleaner with a trash screen option help to extend engine air filter life
- 12. Front lights are guarded and positioned close to the frame for added protection

### **Tire Options**

Tire Brand	Brawler	Michelin	Michelin	Michelin	
Tire Size	29.5-25 29.5-25 Solid L–4		29.5-25	29.5-25	
Tread Type			L-5	L-5	
Tread Pattern	Traction/Smooth	XLDD1	XLDD2	XMINED2	
Width over Tires – Maximum (empty)*	3216 mm 10'7"	3258 mm 10'9"	3256 mm 10'9"	3275 mm 10'9"	
Width over Tires – Maximum (loaded)*	3230 mm 10'8"	3302 mm 10'10"	3296 mm 10'10"	3294 mm 10'10"	
Change in Vertical Dimensions (average of front and rear)		−16 mm −0.6"	−15 mm −0.6"	−4 mm −0.2"	
Change in Horizontal Reach		−31 mm −1.2"	−28 mm −1.1"	−28 mm −1.1"	
Change in Clearance Circle to Outside of Tires		72 mm 2.8"	67 mm 2.6"	64 mm 2.5"	
Change in Clearance Circle to Inside of Tires		−72 mm -2.8"	−67 mm −2.6"	−64 mm −2.5"	
Change in Operating Weight (without Ballast)		−5928 kg −13,071 lb	−5564 kg −12,269 lb	−5240 kg −11,554 lb	
Change in Static Tipping Load – Straight		-4508 kg -9,941 lb	-4231 kg -9,330 lb	−3985 kg −8,787 lb	
Change in Static Tipping Load – Articulated		−3924 kg −8,653 lb	-3683 kg -8,122 lb	−3469 kg −7,649 lb	
Rear Axle Oscillation Angle	±8 degrees	±13 degrees	±13 degrees	±13 degrees	
Maximum Single-wheel Rise and Fall	340 mm 1'1"	549 mm 1'10"	549 mm 1'10"	549 mm 1'10"	
*Width over tire bulge and includes tire growth.	1 1	1 10	1 10	1 10	

Tire Brand	Bridgestone	Bridgestone	Bridgestone	Bridgestone
Tire Size	29.5R25	29.5R25	29.5R25	29.5R25
Tread Type	L-3	L-4	L-5	L-5
Tread Pattern	VJT	VSNT	VSDT	VSDL
Width over Tires – Maximum (empty)*	3263 mm	3240 mm	3272 mm	3250 mm
	10'9"	10'8"	10'9"	10'8"
Width over Tires – Maximum (loaded)*	3289 mm	3260 mm	3301 mm	3275 mm
	10'10"	10'9"	10'10"	10'9"
Change in Vertical Dimensions (average of front and rear)	−32 mm	−9 mm	−5 mm	11 mm
	−1.3"	−0.4"	−0.2"	0.4"
Change in Horizontal Reach	−10 mm	−30 mm	−30 mm	−40 mm
	−0.4"	−1.2"	−1.2"	−1.6"
Change in Clearance Circle to Outside of Tires	59 mm	30 mm	72 mm	45 mm
	2.3"	1.2"	2.8"	1.8"
Change in Clearance Circle to Inside of Tires	−59 mm	−30 mm	−72 mm	−45 mm
	−2.3"	−1.2"	−2.8"	−1.8"
Change in Operating Weight (without Ballast)	−6456 kg	−5772 kg	−5272 kg	−5064 kg
	−14,235 lb	−12,727 lb	−11,625 lb	−11,166 lb
Change in Static Tipping Load – Straight	−4910 kg	-4390 kg	-4009 kg	−3851 kg
	−10,826 lb	-9,679 lb	-8,841 lb	−8,492 lb
Change in Static Tipping Load – Articulated	-4274 kg	-3821 kg	−3490 kg	−3352 kg
	-9,424 lb	-8,425 lb	−7,696 lb	−7,392 lb
Rear Axle Oscillation Angle	±13 degrees	±13 degrees	±13 degrees	±13 degrees
Maximum Single-wheel Rise and Fall	549 mm	549 mm	549 mm	549 mm
	1'10"	1'10"	1'10"	1'10"

<sup>\*</sup>Width over tire bulge and includes tire growth.

### **Tire Options**

Tire Brand	Maxam	Maxam	Maxam	Michelin
Tire Size	29.5-25	29.5-25	29.5-25	29.5-25
Tread Type	L-3	L-4	L-5	L-3
Tread Pattern	MS302	MS405DX	MS503	XHA2
Width over Tires – Maximum (empty)*	3270 mm	3256 mm	3268 mm	3270 mm
	10'9"	10'9"	10'9"	10'9"
Width over Tires – Maximum (loaded)*	3290 mm	3282 mm	3304 mm	3296 mm
	10'10"	10'10"	10'11"	10'10"
Change in Vertical Dimensions (average of front and rear)	−28 mm	−42 mm	–15 mm	−49 mm
	−1.1"	−1.7"	-0.6"	−1.9"
Change in Horizontal Reach	−25 mm	-12 mm	−33 mm	−8 mm
	−1"	-0.5"	−1.3"	−0.3"
Change in Clearance Circle to Outside of Tires	60 mm	52 mm	75 mm	66 mm
	2.4"	2.1"	2.9"	2.6"
Change in Clearance Circle to Inside of Tires	−60 mm	−52 mm	−75 mm	−66 mm
	−2.4"	−2.1"	−2.9"	−2.6"
Change in Operating Weight (without Ballast)	−6300 kg	−6160 kg	−5520 kg	−6472 kg
	−13,892 lb	−13,583 lb	−12,172 lb	−14,271 lb
Change in Static Tipping Load – Straight	−4791 kg	-4685 kg	-4198 kg	-4922 kg
	−10,564 lb	-10,330 lb	-9,257 lb	-10,853 lb
Change in Static Tipping Load – Articulated	−4171 kg	-4078 kg	-3654 kg	-4284 kg
	−9,196 lb	-8,992 lb	-8,058 lb	-9,447 lb
Rear Axle Oscillation Angle	±13 degrees	±13 degrees	±13 degrees	±13 degrees
Maximum Single-wheel Rise and Fall *Width over tire bulge and includes tire growth	549 mm	549 mm	549 mm	549 mm
	1'10"	1'10"	1'10"	1'10"

<sup>\*</sup>Width over tire bulge and includes tire growth.

Tire Brand	Michelin	Bridgestone	Bridgestone	Maxam
Tire Size	875/65R29	875/65R29	875/65R29	875/65R29
Tread Type	L-3	L-3	L-4	L–4
Tread Pattern	XHA2	VTS	VLTS	MS405DX
Width over Tires – Maximum (empty)*	3373 mm	3341 mm	3344 mm	3357 mm
	11'1"	11'0"	11'0"	11'1"
Width over Tires – Maximum (loaded)*	3384 mm	3359 mm	3366 mm	3382 mm
	11'2"	11'1"	11'1"	11'2"
Change in Vertical Dimensions (average of front and rear)	−34 mm	−28 mm	−26 mm	−43 mm
	−1.4"	−1.1"	−1"	−1.7"
Change in Horizontal Reach	-13 mm	−10 mm	−12 mm	−12 mm
	-0.5"	−0.4"	−0.5"	152 mm
Change in Clearance Circle to Outside of Tires	155 mm	129 mm	136 mm	6"
	6.1"	5.1"	5.4"	-152 mm
Change in Clearance Circle to Inside of Tires	−155 mm	-129 mm	-136 mm	-6"
	−6.1"	-5.1"	-5.4"	-5464 kg
Change in Operating Weight (without Ballast)	−5812 kg	−5532 kg	−5456 kg	-12,048 lb
	−12,815 lb	−12,198 lb	−12,030 lb	-4155 kg
Change in Static Tipping Load – Straight	-4420 kg	–4207 kg	-4149 kg	−9,163 lb
	-9,746 lb	–9,277 lb	-9,149 lb	−3617 kg
Change in Static Tipping Load – Articulated	−3848 kg	-3662 kg	-3612 kg	-7,976 lb
	−8,484 lb	-8,075 lb	-7,964 lb	8,425 lb
Rear Axle Oscillation Angle	±8 degrees	±8 degrees	±8 degrees	±8 degrees
Maximum Single-wheel Rise and Fall	340 mm	340 mm	340 mm	340 mm
	1'1"	1'1"	1'1"	1'1"

<sup>\*</sup>Width over tire bulge and includes tire growth.

Linkage		Standard Linkage		
Bucket Type		General Purpose – Pin-On	General Purpose – Hook-On – Fusion	
Edge Type		Bolt-On Cutting Edges	Bolt-On Cutting Edges	
Capacity – Rated	$m^3$	5.40	5.40	
	yd³	7.00	7.00	
Capacity - Rated at 110% Fill Factor	$m^3$	5.90	5.90	
	$yd^3$	7.75	7.75	
Width	mm	3447	3447	
	ft/in	11'3"	11'3"	
6† Dump Clearance at Maximum Lift	mm	3292	3187	
and 45° Discharge	ft/in	10'9"	10'5"	
7† Reach at Maximum Lift and	mm	1510	1618	
45° Discharge	ft/in	4'11"	5'3"	
Reach at Level Lift Arm and	mm	2994	3146	
Bucket Level	ft/in	9'9"	10'3"	
A† Digging Depth	mm	84	89	
. 65 6 1	in	3.3"	3.5"	
2† Overall Length	mm	9613	9769	
	ft/in	31'7"	32'1"	
B† Overall Height with Bucket at	mm	6432	6536	
Maximum Lift	ft/in	21'2"	21'6"	
Loader Clearance Circle Radius	mm	7614	7697	
with Bucket at Carry Position	ft/in	25'0"	25'4"	
Static Tipping Load, Straight	kg	N/A	N/A	
(With tire deflection)	lb	N/A	N/A	
Static Tipping Load, Straight	kg	29 260	27 802	
(No tire deflection)	lb	64,490	61,276	
Static Tipping Load,	kg	N/A	N/A	
Articulated (With tire deflection)	lb	N/A	N/A	
Static Tipping Load, Articulated	kg	25 415	24 063	
(No tire deflection)	lb	56,015	53,036	
Breakout Force(§)	kN	226	204	
107	lbf	50,946	45,849	
Operating Weight*	kg	36 885	37 567	
	lb	81,294	82,796	

<sup>\*</sup> Static tipping loads and operating weights shown are based on a machine configuration with Brawler 29.5X25 Smooth solid tires, full fluids, operator, cab precleaner, fabricated counterweight with rear guard, flat window glass with front guard, industrial package, ride control, standard starting, narrow fenders, turbine engine precleaner, Product Link, front limited slip differentials, power train guard, standard steering, industrial sound suppression and variable pitch fan.

<sup>†</sup> Illustration shown with Dimension charts.

<sup>(§)</sup> Measured 100 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with ISO 14397-2:2007.

<sup>(</sup>With tire deflection) Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

<sup>(</sup>No tire deflection) Compliance to ISO 14397-1:2007 Sections 1 thru 5.

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

Linkage	Linkage Standard Linkage		
Bucket Type		General Purpose – Pin-On	General Purpose – Hook-On – Fusion
Edge Type		Bolt-On Cutting Edges	Bolt-On Cutting Edges
Capacity – Rated	m <sup>3</sup>	5.70	5.70
	$yd^3$	7.50	7.50
Capacity - Rated at 110% Fill Factor	$m^3$	6.30	6.30
	$yd^3$	8.25	8.25
Width	mm	3481	3481
	ft/in	11'5"	11'5"
6† Dump Clearance at Maximum Lift	mm	3233	3123
and 45° Discharge	ft/in	10'7"	10'2"
7† Reach at Maximum Lift and	mm	1567	1668
45° Discharge	ft/in	5'1"	5'5"
Reach at Level Lift Arm and	mm	3079	3228
Bucket Level	ft/in	10'1"	10'7"
A† Digging Depth	mm	72	89
	in	2.8"	3.5"
2† Overall Length	mm	9689	9851
	ft/in	31'10"	32'4"
B† Overall Height with Bucket at	mm	6505	6604
Maximum Lift	ft/in	21'5"	21'8"
Loader Clearance Circle Radius	mm	7648	7739
with Bucket at Carry Position	ft/in	25'2"	25'5"
Static Tipping Load, Straight	kg	N/A	N/A
(With tire deflection)	lb	N/A	N/A
Static Tipping Load, Straight	kg	28 232	27 540
(No tire deflection)	lb	62,225	60,698
Static Tipping Load,	kg	N/A	N/A
Articulated (With tire deflection)	lb	N/A	N/A
Static Tipping Load, Articulated	kg	24 387	23 817
(No tire deflection)	lb	53,749	52,494
Breakout Force(§)	kN	210	193
	lbf	47,341	43,442
Operating Weight*	kg	37 820	37 689
	lb	83,354	83,067

<sup>\*</sup> Static tipping loads and operating weights shown are based on a machine configuration with Brawler 29.5X25 Smooth solid tires, full fluids, operator, cab precleaner, fabricated counterweight with rear guard, flat window glass with front guard, industrial package, ride control, standard starting, narrow fenders, turbine engine precleaner, Product Link, front limited slip differentials, power train guard, standard steering, industrial sound suppression and variable pitch fan.

<sup>†</sup> Illustration shown with Dimension charts.

<sup>(§)</sup> Measured 100 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with ISO 14397-2:2007.

<sup>(</sup>With tire deflection) Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

<sup>(</sup>No tire deflection) Compliance to ISO 14397-1:2007 Sections 1 thru 5.

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

Linkage		Standard Linkage		
Bucket Type		General Purpose – Pin-On		
Edge Type		Bolt-On Cutting Edges	Bolt-On Cutting Edges	
Capacity – Rated	$m^3$	6.00	6.40	
	yd³	7.75	8.25	
Capacity - Rated at 110% Fill Factor	$m^3$	6.60	7.00	
	$yd^3$	8.75	9.25	
Width	mm	3481	3413	
	ft/in	11'5"	11'2"	
6† Dump Clearance at Maximum Lift	mm	3205	3150	
and 45° Discharge	ft/in	10'6"	10'4"	
17† Reach at Maximum Lift and	mm	1580	1633	
45° Discharge	ft/in	5'2"	5'4"	
Reach at Level Lift Arm and	mm	3107	3185	
Bucket Level	ft/in	10'2"	10'5"	
A† Digging Depth	mm	84	84	
. 66 6 1	in	3.3"	3.3"	
2† Overall Length	mm	9726	9804	
	ft/in	31'11"	32'2"	
<b>B</b> † Overall Height with Bucket at	mm	6528	6608	
Maximum Lift	ft/in	21'5"	21'9"	
Loader Clearance Circle Radius	mm	7660	7651	
with Bucket at Carry Position	ft/in	25'2"	25'2"	
Static Tipping Load, Straight	kg	N/A	N/A	
(With tire deflection)	lb	N/A	N/A	
Static Tipping Load, Straight	kg	28 965	28 752	
(No tire deflection)	lb	63,840	63,370	
Static Tipping Load,	kg	N/A	N/A	
Articulated (With tire deflection)	lb	N/A	N/A	
Static Tipping Load, Articulated	kg	25 132	24 933	
(No tire deflection)	lb	55,392	54,954	
Breakout Force(§)	kN	209	199	
(0)	lbf	47,095	44,724	
Operating Weight*	kg	37 060	37 145	
1 0 0	lb	81,679	81,867	

<sup>\*</sup> Static tipping loads and operating weights shown are based on a machine configuration with Brawler 29.5X25 Smooth solid tires, full fluids, operator, cab precleaner, fabricated counterweight with rear guard, flat window glass with front guard, industrial package, ride control, standard starting, narrow fenders, turbine engine precleaner, Product Link, front limited slip differentials, power train guard, standard steering, industrial sound suppression and variable pitch fan.

<sup>†</sup> Illustration shown with Dimension charts.

<sup>(§)</sup> Measured 100 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with ISO 14397-2:2007.

<sup>(</sup>With tire deflection) Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

<sup>(</sup>No tire deflection) Compliance to ISO 14397-1:2007 Sections 1 thru 5.

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

Linkage		Standard Linkage		
Bucket Type		Waste, Dozing – Pin-On	Waste, Load and Carry – Pin-On	
Edge Type		Bolt-On Cutting Edges	Rubber Edge	
Capacity – Rated	m <sup>3</sup>	9.90	10.70	
	yd³	13.00	14.00	
Capacity - Rated at 110% Fill Factor	$m^3$	10.90	11.80	
	$yd^3$	14.25	15.50	
Width	mm	3882	3882	
	ft/in	12'8"	12'8"	
16† Dump Clearance at Maximum Lift	mm	3072	2760	
and 45° Discharge	ft/in	10'0"	9'0"	
17† Reach at Maximum Lift and	mm	1490	1650	
45° Discharge	ft/in	4'10"	5'4"	
Reach at Level Lift Arm and	mm	3153	3487	
Bucket Level	ft/in	10'4"	11'5"	
A† Digging Depth	mm	110	70	
	in	4.3"	2.7"	
12† Overall Length	mm	9793	10 207	
	ft/in	32'2"	33'6"	
<b>B</b> † Overall Height with Bucket at	mm	7135	6962	
Maximum Lift	ft/in	23'5"	22'11"	
Loader Clearance Circle Radius	mm	7865	7996	
with Bucket at Carry Position	ft/in	25'10"	26'3"	
Static Tipping Load, Straight	kg	N/A	N/A	
(With tire deflection)	lb	N/A	N/A	
Static Tipping Load, Straight	kg	30 342	27 596	
(No tire deflection)	lb	66,875	60,822	
Static Tipping Load,	kg	N/A	N/A	
Articulated (With tire deflection)	lb	N/A	N/A	
Static Tipping Load, Articulated	kg	26 227	23 791	
(No tire deflection)	lb	57,804	52,437	
Breakout Force(§)	kN	204	170	
	lbf	46,014	38,403	
Operating Weight*	kg	38 062	38 214	
	lb	83,889	84,223	

<sup>\*</sup> Static tipping loads and operating weights shown are based on a machine configuration with Brawler 29.5X25 Smooth solid tires, full fluids, operator, cab precleaner, fabricated counterweight with rear guard, flat window glass with front guard, industrial package, ride control, standard starting, narrow fenders, turbine engine precleaner, Product Link, front limited slip differentials, power train guard, standard steering, industrial sound suppression and variable pitch fan.

<sup>†</sup> Illustration shown with Dimension charts.

<sup>(§)</sup> Measured 100 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with ISO 14397-2:2007.

<sup>(</sup>With tire deflection) Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

<sup>(</sup>No tire deflection) Compliance to ISO 14397-1:2007 Sections 1 thru 5.

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

Linkage		High Lift Linkage		
Bucket Type		General Purpose – Pin-On	General Purpose – Hook-On – Fusion	
Edge Type		Bolt-On Cutting Edges	Bolt-On Cutting Edges	
Capacity – Rated	$m^3$	5.40	5.40	
	$yd^3$	7.00	7.00	
Capacity – Rated at 110% Fill Factor	m <sup>3</sup>	5.90	5.90	
	$yd^3$	7.75	7.75	
Width	mm	3447	3447	
	ft/in	11'3"	11'3"	
<b>6</b> † Dump Clearance at Maximum Lift	mm	3513	3408	
and 45° Discharge	ft/in	11'6"	11'2"	
7† Reach at Maximum Lift and	mm	1513	1621	
45° Discharge	ft/in	4'11"	5'3"	
Reach at Level Lift Arm and	mm	3154	3306	
Bucket Level	ft/in	10'4"	10'10"	
A† Digging Depth	mm	82	87	
	in	3.2"	3.4"	
2† Overall Length	mm	9815	9971	
	ft/in	32'3"	32'9"	
B† Overall Height with Bucket at	mm	6653	6757	
Maximum Lift	ft/in	21'10"	22'2"	
Loader Clearance Circle Radius	mm	8115	8202	
with Bucket at Carry Position	ft/in	26'8"	26'11"	
Static Tipping Load, Straight	kg	N/A	N/A	
(With tire deflection)	lb	N/A	N/A	
Static Tipping Load, Straight	kg	26 713	25 350	
(No tire deflection)	lb	58,877	55,872	
Static Tipping Load,	kg	N/A	N/A	
Articulated (With tire deflection)	lb	N/A	N/A	
Static Tipping Load, Articulated	kg	23 636	22 355	
(No tire deflection)	lb	52,093	49,271	
Breakout Force(§)	kN	230	207	
(07	lbf	51,711	46,549	
Operating Weight*	kg	37 019	37 700	
- r00	lb	81,589	83,091	

<sup>\*</sup> Static tipping loads and operating weights shown are based on a machine configuration with Brawler 29.5X25 Smooth solid tires, full fluids, operator, cab precleaner, fabricated counterweight with rear guard, flat window glass with front guard, industrial package, ride control, standard starting, narrow fenders, turbine engine precleaner, Product Link, front limited slip differentials, power train guard, standard steering, industrial sound suppression and variable pitch fan.

<sup>†</sup> Illustration shown with Dimension charts.

<sup>(§)</sup> Measured 100 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with ISO 14397-2:2007.

<sup>(</sup>With tire deflection) Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

<sup>(</sup>No tire deflection) Compliance to ISO 14397-1:2007 Sections 1 thru 5.

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

Linkage		High Lift Linkage		
Bucket Type		General Purpose – Pin-On	General Purpose – Hook-On – Fusion	
Edge Type		Bolt-On Cutting Edges	Bolt-On Cutting Edges	
Capacity – Rated	m <sup>3</sup>	5.70	5.70	
	$yd^3$	7.50	7.50	
Capacity – Rated at 110% Fill Factor	$m^3$	6.30	6.30	
	$yd^3$	8.25	8.25	
Width	mm	3481	3481	
	ft/in	11'5"	11'5"	
6† Dump Clearance at Maximum Lift	mm	3454	3343	
and 45° Discharge	ft/in	11'3"	10'11"	
7† Reach at Maximum Lift and	mm	1570	1671	
45° Discharge	ft/in	5'1"	5'5"	
Reach at Level Lift Arm and	mm	3239	3388	
Bucket Level	ft/in	10'7"	11'1"	
A† Digging Depth	mm	70	87	
	in	2.7"	3.4"	
2† Overall Length	mm	9891	10 053	
	ft/in	32'6"	33'0"	
B† Overall Height with Bucket at	mm	6725	6824	
Maximum Lift	ft/in	22'1"	22'5"	
Loader Clearance Circle Radius	mm	8149	8243	
with Bucket at Carry Position	ft/in	26'9"	27'1"	
Static Tipping Load, Straight	kg	N/A	N/A	
(With tire deflection)	lb	N/A	N/A	
Static Tipping Load, Straight	kg	25 683	25 097	
(No tire deflection)	lb	56,606	55,315	
Static Tipping Load,	kg	N/A	N/A	
Articulated (With tire deflection)	lb	N/A	N/A	
Static Tipping Load, Articulated	kg	22 606	22 115	
(No tire deflection)	lb	49,825	48,742	
Breakout Force(§)	kN	213	196	
	lbf	48,058	44,110	
Operating Weight*	kg	37 953	37 823	
	lb	83,648	83,361	

<sup>\*</sup> Static tipping loads and operating weights shown are based on a machine configuration with Brawler 29.5X25 Smooth solid tires, full fluids, operator, cab precleaner, fabricated counterweight with rear guard, flat window glass with front guard, industrial package, ride control, standard starting, narrow fenders, turbine engine precleaner, Product Link, front limited slip differentials, power train guard, standard steering, industrial sound suppression and variable pitch fan.

<sup>†</sup> Illustration shown with Dimension charts.

<sup>(§)</sup> Measured 100 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with ISO 14397-2:2007.

<sup>(</sup>With tire deflection) Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

<sup>(</sup>No tire deflection) Compliance to ISO 14397-1:2007 Sections 1 thru 5.

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

Linkage		High Lift	t Linkage
Bucket Type		General Purpose – Pin-On	
Edge Type		Bolt-On Cutting Edges	Bolt-On Cutting Edges
Capacity – Rated	m <sup>3</sup>	6.00	6.40
	yd³	7.75	8.25
Capacity – Rated at 110% Fill Factor	m <sup>3</sup>	6.60	7.00
	$yd^3$	8.75	9.25
Width	mm	3481	3413
	ft/in	11'5"	11'2"
16† Dump Clearance at Maximum Lift	mm	3426	3370
and 45° Discharge	ft/in	11'2"	11'0"
17† Reach at Maximum Lift and	mm	1583	1636
45° Discharge	ft/in	5'2"	5'4"
Reach at Level Lift Arm and	mm	3267	3345
Bucket Level	ft/in	10'8"	10'11"
A† Digging Depth	mm	82	82
	in	3.2"	3.2"
12† Overall Length	mm	9928	10 006
	ft/in	32'7"	32'10"
<b>B</b> † Overall Height with Bucket at	mm	6749	6829
Maximum Lift	ft/in	22'2"	22'5"
Loader Clearance Circle Radius	mm	8161	8152
with Bucket at Carry Position	ft/in	26'10"	26'9"
Static Tipping Load, Straight	kg	N/A	N/A
(With tire deflection)	lb	N/A	N/A
Static Tipping Load, Straight	kg	26 420	26 213
(No tire deflection)	lb	58,231	57,775
Static Tipping Load,	kg	N/A	N/A
Articulated (With tire deflection)	lb	N/A	N/A
Static Tipping Load, Articulated	kg	23 353	23 158
(No tire deflection)	lb	51,471	51,041
Breakout Force(§)	kN	212	202
	lbf	47,808	45,405
Operating Weight*	kg	37 193	37 278
- <del>-</del> -	lb	81,974	82,161

<sup>\*</sup> Static tipping loads and operating weights shown are based on a machine configuration with Brawler 29.5X25 Smooth solid tires, full fluids, operator, cab precleaner, fabricated counterweight with rear guard, flat window glass with front guard, industrial package, ride control, standard starting, narrow fenders, turbine engine precleaner, Product Link, front limited slip differentials, power train guard, standard steering, industrial sound suppression and variable pitch fan.

<sup>†</sup> Illustration shown with Dimension charts.

<sup>(§)</sup> Measured 100 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with ISO 14397-2:2007.

<sup>(</sup>With tire deflection) Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

<sup>(</sup>No tire deflection) Compliance to ISO 14397-1:2007 Sections 1 thru 5.

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

Linkage		High Lift Linkage		
Bucket Type		Waste, Dozing – Pin-On	Waste, Load and Carry – Pin-On	
Edge Type		Bolt-On Cutting Edges	Rubber Edge	
Capacity – Rated	m <sup>3</sup>	9.90	10.70	
	$yd^3$	13.00	14.00	
Capacity - Rated at 110% Fill Factor	$m^3$	10.90	11.80	
	$yd^3$	14.25	15.50	
Width	mm	3882	3882	
	ft/in	12'8"	12'8"	
16† Dump Clearance at Maximum Lift	mm	3292	2980	
and 45° Discharge	ft/in	10'9"	9'9"	
17† Reach at Maximum Lift and	mm	1493	1653	
45° Discharge	ft/in	4'10"	5'5"	
Reach at Level Lift Arm and	mm	3313	3647	
Bucket Level	ft/in	10'10"	11'11"	
A† Digging Depth	mm	108	68	
	in	4.2"	2.6"	
<b>2</b> † Overall Length	mm	9993	10 402	
	ft/in	32'10"	34'2"	
B† Overall Height with Bucket at	mm	7355	7183	
Maximum Lift	ft/in	24'2"	23'7"	
Loader Clearance Circle Radius	mm	8366	8494	
with Bucket at Carry Position	ft/in	27'6"	27'11"	
Static Tipping Load, Straight	kg	N/A	N/A	
(With tire deflection)	lb	N/A	N/A	
Static Tipping Load, Straight	kg	27 373	25 011	
(No tire deflection)	lb	60,331	55,124	
Static Tipping Load,	kg	N/A	N/A	
Articulated (With tire deflection)	lb	N/A	N/A	
Static Tipping Load, Articulated	kg	24 107	21 973	
(No tire deflection)	lb	53,132	48,430	
Breakout Force(§)	kN	207	174	
	lbf	46,725	39,103	
Operating Weight*	kg	38 196	38 347	
<del>-</del>	lb	84,183	84,517	

<sup>\*</sup> Static tipping loads and operating weights shown are based on a machine configuration with Brawler 29.5X25 Smooth solid tires, full fluids, operator, cab precleaner, fabricated counterweight with rear guard, flat window glass with front guard, industrial package, ride control, standard starting, narrow fenders, turbine engine precleaner, Product Link, front limited slip differentials, power train guard, standard steering, industrial sound suppression and variable pitch fan.

<sup>†</sup> Illustration shown with Dimension charts.

<sup>(§)</sup> Measured 100 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with ISO 14397-2:2007.

<sup>(</sup>With tire deflection) Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

<sup>(</sup>No tire deflection) Compliance to ISO 14397-1:2007 Sections 1 thru 5.

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

#### **Fork Specifications**

#### **Fork Specifications**

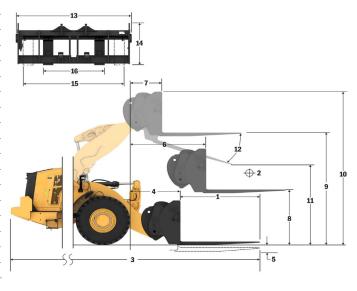
1	Tine Length	mm in	2438 96.0
2	Load Center	mm	1219
	Load Octiles	in	48.0
	Static Tipping Load - Straight (Forks Level)	kg Ibs	16418 36184
	Charlie Timping Lond Antiquiphed (Forder Lovel)	kg	14249
	Static Tipping Load - Articulated (Forks Level)	lbs	31405
	Rated Load (SAE J1197 - 50% FTSTL)	kg Ibs	6761 14902
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg	6761
	,	lbs	14902 6761
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	kg Ibs	14902
3	Maximum Overall Length	mm	11113
_		in mm	437.5 1345
4	Reach with Forks at Ground Level	in	53.0
5	*Ground to Bottom of Tine at Minimum Height and Fork Level	mm	-138
	Ground to Bottom of Time at Millimum Height and Fork Level	in	-5.5
6	Reach with Arms Horizontal and Forks Level	mm	1870
_		in mm	73.6 943
7	Reach with Fork at Maximum Height	in	37.1
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm	2174
	<u> </u>	in	85.6
9	Ground to Top of Tine at Maximum Height and Fork Level	mm in	4442 174.9
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm in	5814 228.9
	Classes at Full Lift and May Dunne	mm	1871
11	Clearance at Full Lift and Max Dump	in	73.7
12	Max Discharge Angle from Horizontal	deg	58
13	Overall Carriage Width	mm	2751
	Overall Carriage vitali	in	108.3
14	Overall Carriage Height	mm in	1575 62.0
	O 4 11 T 10 10 10 1	mm	2671
15	Outside Tine Width (max spread)	in	105.1
16	Outside Tine Width (min spread)	mm	849
	· · · /	in mm	33.4 88.9
	Tine Width (single tine)	in	3.5
	Tine Thickness	mm in	203.2 8.0
	Ti 0 "	kg	11068
	Tine Capacity	lbs	24393
	Operating Weight	kg	36462
	Operating Weight	lbs	80363

### 980 IW STD

Pallet Fork, Pin-On

96" Tine 473-9104

Hinge (B) Pin Height (mm)



\*Negative values indicate below grade

# 

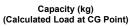
NOTE: Static tipping loads and operating weight are based on the following loader configuration: Brawler Smooth Solid Tires, Air Conditioning, Ride Control, Powertrain Guard, Full Fluids, Fuel Tank, Coolant, Lubricants, and Operator.

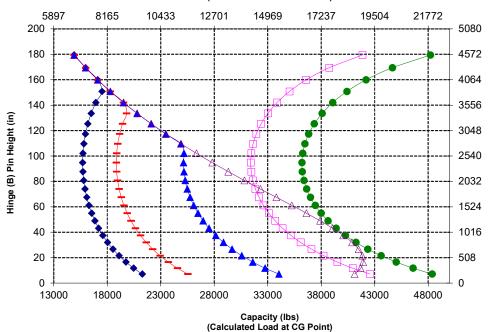
Specifications and ratings conform to the following standards: SAE\* J1197, ISO 14397-1, CEN\*\* EN 474-3.

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 CEN EN 474-3: 80% of full turn static

CEN EN 474-3: 80% of full turn statitipping load on firm and level ground or hydraulic limit.

\*SAE - Society of Automotive Engineers \*\*CEN - European Committee for Standardization





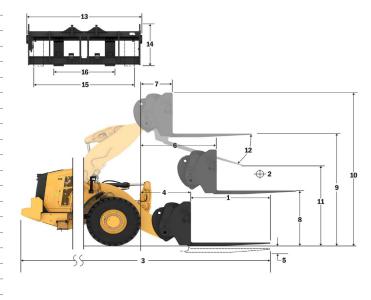
WARNING: Do not exceed tine load capacity. Individual tine capacity is stamped on the side of each tine.

#### **Fork Specifications**

1	Tine Length	mm in	2438 96.0
2	Load Center	mm	1219
_	2000 001101	in	48.0 15574
	Static Tipping Load - Straight (Forks Level)	kg Ibs	34326
	Static Tipping Load - Articulated (Forks Level)	kg	13783
	Otatic Tipping Load - Articulated (Forks Level)	lbs	30378
	Rated Load (SAE J1197 - 50% FTSTL)	kg Ibs	6586 14515
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg Ibs	6586 14515
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	kg Ibs	6586 14515
_		mm	11302
3	Maximum Overall Length	in	444.9
4	Reach with Forks at Ground Level	mm	1534
		in	-137
5	*Ground to Bottom of Tine at Minimum Height and Fork Level	mm in	-13 <i>1</i> -5.4
6	Reach with Arms Horizontal and Forks Level	mm	2030
	Reach with Arms Horizontal and Forks Level	in	79.9
7	Reach with Fork at Maximum Height	mm	946
_	<u> </u>	in mm	37.2 2174
8	Ground to Top of Tine with Arms Horizontal and Fork Level	in	85.6
9	Ground to Top of Tine at Maximum Height and Fork Level	mm in	4663 183.6
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm	6035
-10	Overall Fleight of Fork at Full Lift (top of carriage to ground)	in	237.6
11	Clearance at Full Lift and Max Dump	mm in	2334 91.9
40	May Dischaus Angle from Herinantal		49
12	Max Discharge Angle from Horizontal	deg	
13	Overall Carriage Width	mm	2751
_		in mm	108.3 1575
14	Overall Carriage Height	in	62.0
15	Outside Tine Width (max spread)	mm	2671
	Outside Title Width (max spread)	in	105.1
16	Outside Tine Width (min spread)	mm in	849 33.4
	Tine Width (single tine)	mm	88.9
	Title Width (single title)	in	3.5
	Tine Thickness	mm	203.2
		in kg	8.0 11068
	Tine Capacity	lbs	24393
	Operating Weight	kg	36596
	Operating Weight	lbs	80657

# 980 IW HL Pallet Fork, Pin-On

96" Tine 473-9104



\*Negative values indicate below grade



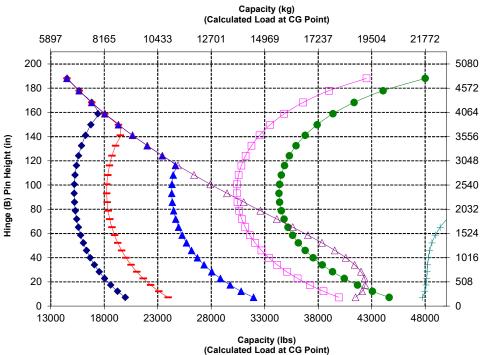
NOTE: Static tipping loads and operating weight are based on the following loader configuration: Brawler Smooth Solid Tires, Air Conditioning, Ride Control, Powertrain Guard, Full Fluids, Fuel Tank, Coolant, Lubricants, and Operator.

Specifications and ratings conform to the following standards: SAE\* J1197, ISO 14397-1, CEN\*\* EN 474-3. 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 rough terrain or hydraulic limit.

tipping load on firm and level ground or hydraulic limit.

\*SAE - Society of Automotive Engineers \*\*CEN - European Committee for Standardization





WARNING: Do not exceed tine load capacity. Individual tine capacity is stamped on the side of each tine.

#### **Fork Specifications**

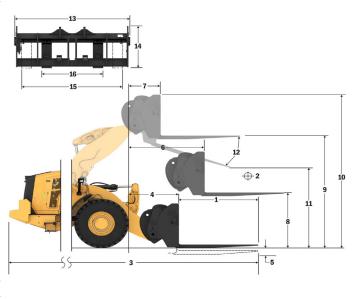
#### **Fork Specifications**

	•		
1	Tine Length	mm in	1829 72.0
2	Load Center	mm	914
	Load Center	in	36.0
	Static Tipping Load - Straight (Forks Level)	kg Ibs	18021 39719
	Static Tipping Load - Articulated (Forks Level)	kg	15675
	Static Tipping Load - Articulated (Forks Level)	lbs	34548
	Rated Load (SAE J1197 - 50% FTSTL)	kg Ibs	7838 17274
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg	8530
	Rateu Loau (CEN EN 474-3 Rough Terrain - 60% FT3TL)	lbs	18799
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	kg Ibs	8530 18799
_	Market Constitution of the	mm	10507
3	Maximum Overall Length	in	413.7
4	Reach with Forks at Ground Level	mm	1349
		in mm	53.1 -145
5	*Ground to Bottom of Tine at Minimum Height and Fork Level	in	-5.7
6	Reach with Arms Horizontal and Forks Level	mm	1870
	Reach with Anns Honzontal and Forks Level	in	73.6
7	Reach with Fork at Maximum Height	mm in	943 37.1
_	Oncome data Transaction and the Association and Established	mm	2167
8	Ground to Top of Tine with Arms Horizontal and Fork Level	in	85.3
9	Ground to Top of Tine at Maximum Height and Fork Level	mm	4436
		in mm	174.6 5814
10	Overall Height of Fork at Full Lift (top of carriage to ground)	in	228.9
11	Clearance at Full Lift and Max Dump	mm	2386
	Cicarance at 1 un Ent and wax bump	in	93.9
12	Max Discharge Angle from Horizontal	deg	58
13	Overall Carriage Width	mm	2751
		in mm	108.3 1581
14	Overall Carriage Height	in	62.3
15	Outside Tine Width (max spread)	mm	2671
	Outside Tille Width (max spread)	in	105.1
16	Outside Tine Width (min spread)	mm in	849 33.4
	Tine Width (single tine)	mm	88.9
	Tine Width (single tine)	in	3.5
	Tine Thickness	mm	203.2
		in kg	8.0 14742
	Tine Capacity	lbs	32491
	Operating Weight	kg	36230
	Operating Weight	lbs	79852

980 IW STD
Pallet Fork, Pin-On

72" Tine 473-9106

Hinge (B) Pin Height (mm)



\*Negative values indicate below grade

#### Capacity (kg) (Calculated Load at CG Point)

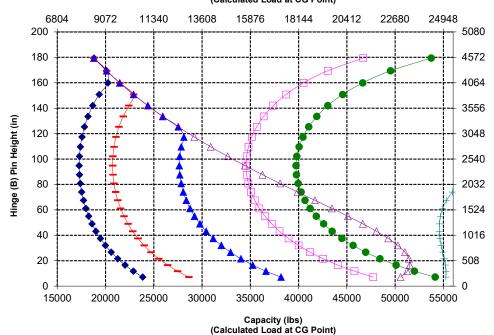


NOTE: Static tipping loads and operating weight are based on the following loader configuration: Brawler Smooth Solid Tires, Air Conditioning, Ride Control, Powertrain Guard, Full Fluids, Fuel Tank, Coolant, Lubricants, and Operator.

Specifications and ratings conform to the following standards: SAE\* J1197, ISO 14397-1, CEN\*\* EN 474-3.

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

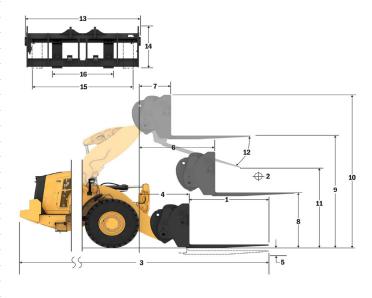


WARNING: Do not exceed tine load capacity. Individual tine capacity is stamped on the side of each tine.

#### **Fork Specifications**

	•		
1	Tine Length	mm in	1829 72.0
2	Load Center	mm	914
	Load Center	in	36.0
	Static Tipping Load - Straight (Forks Level)	kg	17059
		lbs	37597 15127
	Static Tipping Load - Articulated (Forks Level)	kg Ibs	33339
	Rated Load (SAE J1197 - 50% FTSTL)	kg	7563
	Trated Load (OAL 31137 - 30701 TOTL)	lbs	16670
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg Ibs	8317 18330
	B + 11 1/05N 5N 474 0 5' 11 10 1 000' 5T0T! )	ka	8317
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	lbs	18330
3	Maximum Overall Length	mm	10696
	Waximam Ovoran Eorigan	in	421.1
4	Reach with Forks at Ground Level	mm in	1538 60.6
_	+0 P. # (T) # # # #	mm	-143
5	*Ground to Bottom of Tine at Minimum Height and Fork Level	in	-5.6
6	Reach with Arms Horizontal and Forks Level	mm	2030
	Trouble Will / Willo Florizonial and Forto Edver	in	79.9
7	Reach with Fork at Maximum Height	mm in	946 37.2
_		mm	2167
8	Ground to Top of Tine with Arms Horizontal and Fork Level	in	85.3
9	Ground to Top of Tine at Maximum Height and Fork Level	mm	4657
	Ordana to Top of Time at Maximam Holght and Fork 2070	in	183.3
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm in	6035 237.6
		mm	2789
11	Clearance at Full Lift and Max Dump	in	109.8
12	Max Discharge Angle from Horizontal	deg	49
-12	Wax bischarge Angle Iron Florizontal		
13	Overall Carriage Width	mm in	2751 108.3
		mm	1581
14	Overall Carriage Height	in	62.3
15	Outside Tine Width (max spread)	mm	2671
	Outside Title Width (max spread)	in	105.1
16	Outside Tine Width (min spread)	mm in	849 33.4
		mm	88.9
	Tine Width (single tine)	in	3.5
	Tine Thickness	mm	203.2
	THE THEORIES	in	8.0
	Tine Capacity	kg	14742
		lbs kg	32491 36364
	Operating Weight	lbs	80146

**980 IW HL**Pallet Fork, Pin-On
72" Tine
473-9106



\*Negative values indicate below grade

### Capacity (kg) (Calculated Load at CG Point)

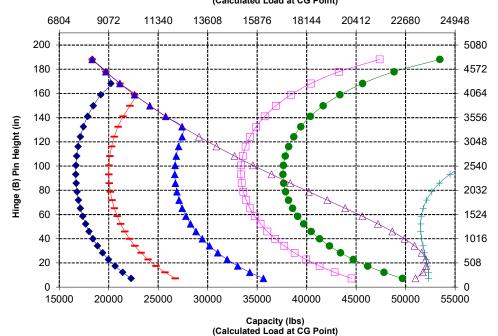


NOTE: Static tipping loads and operating weight are based on the following loader configuration: Brawler Smooth Solid Tires, Air Conditioning, Ride Control, Powertrain Guard, Full Fluids, Fuel Tank, Coolant, Lubricants, and Operator.

Specifications and ratings conform to the following standards: SAE\* J1197, ISO 14397-1, CEN\*\* EN 474-3.

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





WARNING: Do not exceed tine load capacity. Individual tine capacity is stamped on the side of each tine.

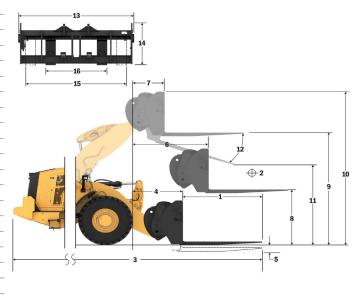
#### **Fork Specifications**

#### **Fork Specifications**

. •			
1	Tine Length	mm in	1830 72.0
2	Load Center	mm in	915 36.0
_	Static Tipping Load - Straight (Forks Level)	kg	18732
	Static Tipping Load - Straight (Forks Lever)	lbs	41286 16368
	Static Tipping Load - Articulated (Forks Level)	kg Ibs	36075
	Rated Load (SAE J1197 - 50% FTSTL)	kg Ibs	8184 18038
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg Ibs	8327 18352
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	kg Ibs	8327 18352
3	Maximum Overall Length	mm in	10384 408.8
4	Reach with Forks at Ground Level	mm in	1225 48.2
5	*Ground to Bottom of Tine at Minimum Height and Fork Level	mm in	-146 -5.8
6	Reach with Arms Horizontal and Forks Level	mm in	1839 72.4
7	Reach with Fork at Maximum Height	mm	913 35.9
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm	2028 79.8
9	Ground to Top of Tine at Maximum Height and Fork Level	mm	4297 169.2
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm	5072 199.7
11	Clearance at Full Lift and Max Dump	mm	2681
	Clearance at Full Lift and Max Burnp	in	105.5
12	Max Discharge Angle from Horizontal	deg	45
13	Overall Carriage Width	mm in	2217 87.3
14	Overall Carriage Height	mm in	840 33.1
15	Outside Tine Width (max spread)	mm	2070 81.5
40	Outside Time Width (min second)	in mm	470
16	Outside Tine Width (min spread)	in	18.5
	Tine Width (single tine)	mm in	150.0 5.9
	Tine Thickness	mm	65.0
_		in kg	2.6 5246
	Tine Capacity	lbs	11562
	Operating Weight	kg Ibs	35561 78377
		เมอ	10011

**980 IW STD**Pallet Fork, FUSION

87" Carriage 72" Tine 530-1869



Hinge (B) Pin Height (mm)

\*Negative values indicate below grade

### Capacity (kg) (Calculated Load at CG Point)

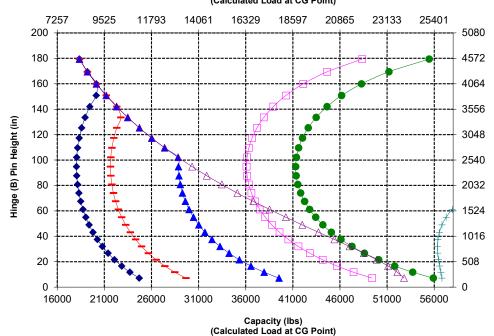


NOTE: Static tipping loads and operating weight are based on the following loader configuration: Brawler Smooth Solid Tires, Air Conditioning, Ride Control, Powertrain Guard, Full Fluids, Fuel Tank, Coolant, Lubricants, and Operator.

Specifications and ratings conform to the following standards: SAE\* J1197, ISO 14397-1, CEN\*\* EN 474-3.

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

\*SAE - Society of Automotive Engineers \*\*CEN - European Committee for Chandardization





or hydraulic limit.

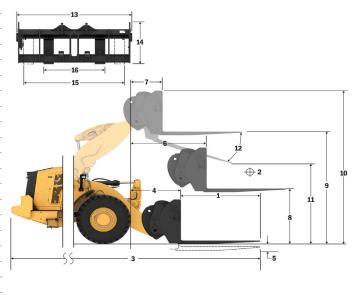
WARNING: Do not exceed tine load capacity. Individual tine capacity is stamped on the side of each tine.

#### **Fork Specifications**

1 0	ik Specifications		
1	Tine Length	mm in	1830 72.0
2	Load Center	mm	915 36.0
_	Static Tipping Load - Straight (Forks Level)	kg	17694
	Static Tipping Load - Straight (Forks Level)	lbs	38998
	Static Tipping Load - Articulated (Forks Level)	kg Ibs	15754 34723
	Rated Load (SAE J1197 - 50% FTSTL)	kg Ibs	7877 17361
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg Ibs	7970 17566
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	kg Ibs	7970 17566
3	Maximum Overall Length	mm	10593 417.0
		mm	1434
4	Reach with Forks at Ground Level	in	56.4
5	*Ground to Bottom of Tine at Minimum Height and Fork Level	mm in	-145 -5.7
6	Reach with Arms Horizontal and Forks Level	mm	2012
	Treach with Anno Honzontal and Forks Level	in	79.2
7	Reach with Fork at Maximum Height	mm in	928 36.5
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm	2028
	Ground to rop or time with rums from zonital and ronk zover	in	79.8
9	Ground to Top of Tine at Maximum Height and Fork Level	mm in	4517 177.8
40	Overall Height of Fork at Full Lift (top of carriage to ground)	mm	5292
10	Overall Height of Fork at Full Lift (top of carriage to ground)	in	208.3
11	Clearance at Full Lift and Max Dump	mm in	2759 108.6
12	Max Discharge Angle from Horizontal	deg	51
13	Overall Carriage Width	mm	2217
	Overall Carriage virgin	in	87.3
14	Overall Carriage Height	mm in	840 33.1
45	Outside Tire Width (may seemed)	mm	2070
15	Outside Tine Width (max spread)	in	81.5
16	Outside Tine Width (min spread)	mm in	470 18.5
	Tine Width (single tine)	mm	150.0
	Tille Width (single tille)	in	5.9
	Tine Thickness	mm in	65.0 2.6
	T. 0 "	kg	5246
	Tine Capacity	lbs	11562
	Operating Weight	kg	35699
		lbs	78680

 980 IW HL
 87" Carriage
 72" Tine

 Pallet Fork, FUSION
 530-1861
 530-1869



\*Negative values indicate below grade

## Capacity (kg) (Calculated Load at CG Point)

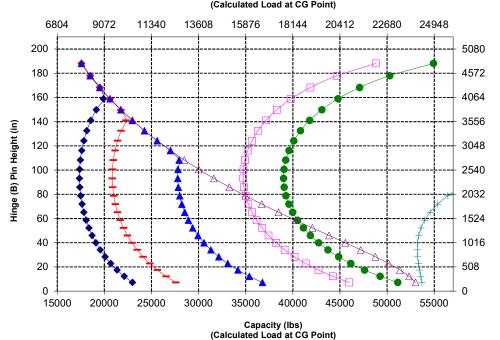


NOTE: Static tipping loads and operating weight are based on the following loader configuration: Brawler Smooth Solid Tires, Air Conditioning, Ride Control, Powertrain Guard, Full Fluids, Fuel Tank, Coolant, Lubricants, and Operator.

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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.

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WARNING: Do not exceed tine load capacity. Individual tine capacity is stamped on the side of each tine.

## 980 Waste & Scrap Handler Specifications

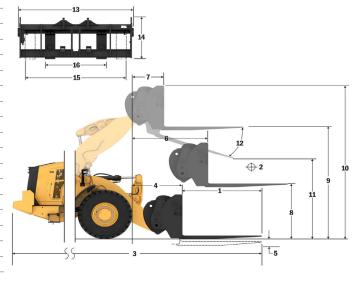
#### **Fork Specifications**

**Fork Specifications** 

1	Tine Length	mm in	1829 72.0
2	Load Center	mm	914
_	Otatio Time in a Local Otacinist (Feeder Level)	in kg	36.0 18136
	Static Tipping Load - Straight (Forks Level)	lbs	39972
	Static Tipping Load - Articulated (Forks Level)	kg Ibs	15764 34743
	Rated Load (SAE J1197 - 50% FTSTL)	kg lbs	7882 17371
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg lbs	8905 19627
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	kg lbs	8905 19627
3	Maximum Overall Length	mm	10347 407.4
4	Reach with Forks at Ground Level	mm	1189 46.8
5	*Ground to Bottom of Tine at Minimum Height and Fork Level	mm	-95 -3.7
6	Reach with Arms Horizontal and Forks Level	mm	1826 71.9
7	Reach with Fork at Maximum Height	mm	899 35.4
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm	2099
9	Ground to Top of Tine at Maximum Height and Fork Level	in mm	82.6 4368
_		in mm	172.0 5412
10	Overall Height of Fork at Full Lift (top of carriage to ground)	in	213.1
11	Clearance at Full Lift and Max Dump	mm in	2502 98.5
12	Max Discharge Angle from Horizontal	deg	55
13	Overall Carriage Width	mm in	2821 111.1
14	Overall Carriage Height	mm in	1129 44.4
15	Outside Tine Width (max spread)	mm in	2627 103.4
16	Outside Tine Width (min spread)	mm	747
	· · · /	in mm	29.4 250.0
	Tine Width (single tine)	in	9.8
	Tine Thickness	mm in	85.0 3.3
_	Tine Canacity	kg	18700
	Tine Capacity	lbs	41215
	Operating Weight	kg Ibs	36438 80310
	*Negative values indicate below grade		

**980 IW STD**Construction Fork, FUSION

108" Carriage 72" Tine 523-4199 523-4200



Hinge (B) Pin Height (mm)

\*Negative values indicate below grade



NOTE: Static tipping loads and operating weight are based on the following loader configuration: Brawler Smooth Solid Tires, Air Conditioning, Ride Control, Powertrain Guard, Full Fluids, Fuel Tank, Coolant, Lubricants, and Operator.

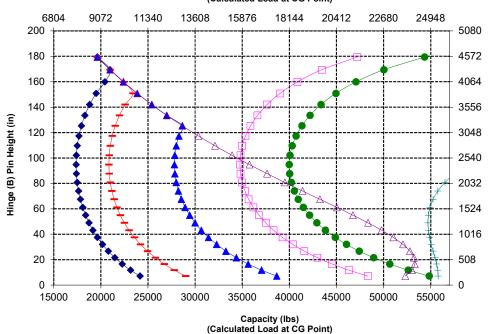
Specifications and ratings conform to the following standards: SAE\* J1197, ISO 14397-1, CEN\*\* EN 474-3.

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.

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#### Capacity (kg) (Calculated Load at CG Point)





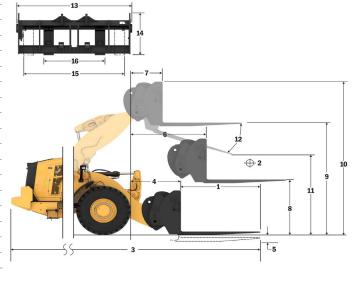
WARNING: Do not exceed tine load capacity. Individual tine capacity is stamped on the side of each tine.

#### **Fork Specifications**

1	Tine Length	mm in	1829 72.0
2	Load Center	mm	914
	<u> </u>	in	36.0 17083
	Static Tipping Load - Straight (Forks Level)	kg Ibs	37651
	Static Tipping Load - Articulated (Forks Level)	kg Ibs	15137 33362
	Rated Load (SAE J1197 - 50% FTSTL)	kg lbs	7568 16681
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg	8586
	,	lbs ka	18924 8586
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	lbs	18924
3	Maximum Overall Length	mm in	10555 415.6
4	Reach with Forks at Ground Level	mm	1397
	Neach with Forks at Glound Level	in	55.0
5	*Ground to Bottom of Tine at Minimum Height and Fork Level	mm	-91
		in	-3.6 1999
6	Reach with Arms Horizontal and Forks Level	mm in	78.7
_	B 1 11 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	mm	915
7	Reach with Fork at Maximum Height	in	36.0
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm	2101
_	<u> </u>	in mm	82.7 4590
9	Ground to Top of Tine at Maximum Height and Fork Level	in	180.7
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm in	5634 221.8
11	Clearance at Full Lift and Max Dump	mm	2613
	<u> </u>	in	102.9
12	Max Discharge Angle from Horizontal	deg	61
13	Overall Carriage Width	mm in	2821 111.1
14	Overall Carriage Height	mm	1129
	Overall carriage ricight	in	44.4
15	Outside Tine Width (max spread)	mm in	2627 103.4
46	Outside Tine Width (min spread)	mm	747
-10	Outside Title Width (Hill Spread)	in	29.4
	Tine Width (single tine)	mm in	250.0 9.8
	Tine Thickness	mm	85.0
	Tine Thickness	in	3.3
	Tine Capacity	kg	18700
		lbs	41215
	Operating Weight	kg Ibs	36576 80613
		105	00013

 980 IW HL
 108" Carriage
 72" Tine

 Construction Fork, FUSION
 523-4199
 523-4200



\*Negative values indicate below grade

#### Capacity (kg) (Calculated Load at CG Point)

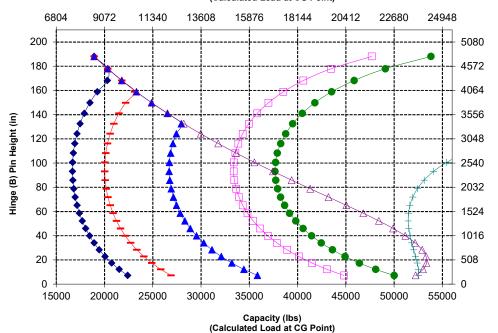


NOTE: Static tipping loads and operating weight are based on the following loader configuration: Brawler Smooth Solid Tires, Air Conditioning, Ride Control, Powertrain Guard, Full Fluids, Fuel Tank, Coolant, Lubricants, and Operator.

Specifications and ratings conform to the following standards: SAE\* J1197, ISO 14397-1, CEN\*\* EN 474-3.

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 full turn static tipping load on full furn at the tipping load on firm and level ground

\*SAE - Society of Automotive Engineers \*\*CEN - European Committee for Standardization





or hydraulic limit.

WARNING: Do not exceed tine load capacity. Individual tine capacity is stamped on the side of each tine.

## 980 Waste & Scrap Handler Specifications

#### **Fork Specifications**

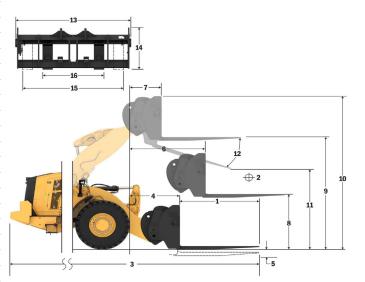
Fork Sp	ecifications
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	оросиновно		
1	Tine Length	mm in	2134 84.0
2	Load Center	mm	1067
_		in ka	42.0 17316
	Static Tipping Load - Straight (Forks Level)	lbs	38165
	Static Tipping Load - Articulated (Forks Level)	kg	15038
	· · · · · · · · · · · · · · · · · · ·	lbs kg	33144 7519
	Rated Load (SAE J1197 - 50% FTSTL)	lbs	16572
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg Ibs	7914 17442
	Detect Load (CEN EN 474 2 Firms and Lovel Crowned 1900/ FTCTL)	kg	7914
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	lbs	17442
3	Maximum Overall Length	mm in	10655 419.5
4	Reach with Forks at Ground Level	mm	1193
4	Reach with Forks at Ground Level	in	47.0
5	*Ground to Bottom of Tine at Minimum Height and Fork Level	mm in	-95 -3.7
-	Reach with Arms Horizontal and Forks Level	mm	1826
6	Reach with Arms Horizontal and Forks Level	in	71.9
7	Reach with Fork at Maximum Height	mm in	899 35.4
_	Consumed to Ton of Time with Asses Having stall and Fault Lavel	mm	2104
8	Ground to Top of Tine with Arms Horizontal and Fork Level	in	82.8
9	Ground to Top of Tine at Maximum Height and Fork Level	mm in	4373 172.2
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm	5412
-10	Overall height of Fork at Full Lift (top of carriage to ground)	in	213.1
11	Clearance at Full Lift and Max Dump	mm in	2251 88.6
42	Max Discharge Angle from Horizontal	deg	55
12	Max Discharge Angle Ironi Horizoniai		
13	Overall Carriage Width	mm in	2821 111.1
1/	Overall Carriage Height	mm	1129
	Overall Carriage Height	in	44.4
15	Outside Tine Width (max spread)	mm in	2627 103.4
16	Outside Tine Width (min spread)	mm	747
-10	Outside Tille Width (Hill Spread)	in	29.4
	Tine Width (single tine)	mm in	250.0 9.8
	Tine Thickness	mm	90.0
	THE THURIESS	in	3.5
	Tine Capacity	kg Ibs	17729 39075
	Operating Weight	kg	36540
	Operating Weight	lbs	80535
	and the second s		

980 IW STD
Construction Fork, FUSION

108" Carriage 523-4199 84" Tine 523-4201

Hinge (B) Pin Height (mm)



\*Negative values indicate below grade

#### Capacity (kg) (Calculated Load at CG Point)

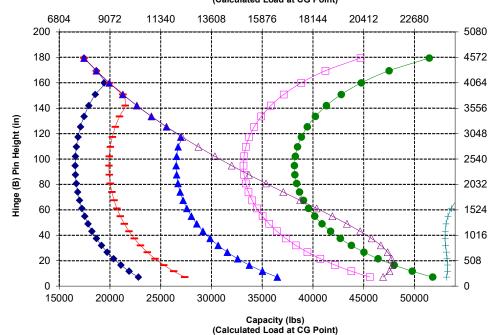


NOTE: Static tipping loads and operating weight are based on the following loader configuration: Brawler Smooth Solid Tires, Air Conditioning, Ride Control, Powertrain Guard, Full Fluids, Fuel Tank, Coolant, Lubricants, and Operator.

Specifications and ratings conform to the following standards: SAE\* J1197, ISO 14397-1, CEN\*\* EN 474-3. 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 or rough terrain or hydraulic limit. CEN EN 474-3: 80% of full turn static tipping load on firm and level ground tipping load on firm and level ground

\*SAE - Society of Automotive Engineers \*\*CEN - European Committee for





or hydraulic limit.

WARNING: Do not exceed tine load capacity. Individual tine capacity is stamped on the side of each tine.

#### Fork Specifications

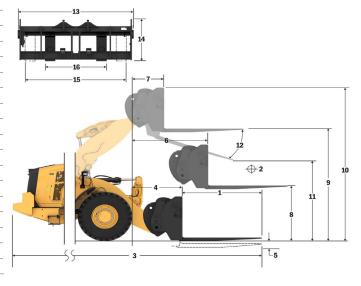
	ik opcomodiono		
1	Tine Length	mm in	2134 84.0
2	Load Center	mm	1067
	Load Center	in	42.0
	Static Tipping Load - Straight (Forks Level)	kg	16333
	7	lbs kg	35997 14461
	Static Tipping Load - Articulated (Forks Level)	lbs	31871
	Rated Load (SAE J1197 - 50% FTSTL)	kg Ibs	7230 15936
	Data di Land (OFN FN 474 O Davide Tamaia 2001/ FTOTI )	kg	7633
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	lbs	16824
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	kg Ibs	7633 16824
3	Maximum Overall Length	mm	10863
	Maximum Overali Lengti	in	427.7
4	Reach with Forks at Ground Level	mm in	1401 55.2
		mm	-91
5	*Ground to Bottom of Tine at Minimum Height and Fork Level	in	-3.6
6	Reach with Arms Horizontal and Forks Level	mm	1999
	Treach with Aims Honzonial and Forks Level	in	78.7
7	Reach with Fork at Maximum Height	mm in	915 36.0
		mm	2106
8	Ground to Top of Tine with Arms Horizontal and Fork Level	in	82.9
9	Ground to Top of Tine at Maximum Height and Fork Level	mm in	4595 180.9
-10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm	5634
10	Overall neight of Fork at Full Lift (top of carnage to ground)	in	221.8
11	Clearance at Full Lift and Max Dump	mm	2346
	<u> </u>	in	92.4
12	Max Discharge Angle from Horizontal	deg	61
13	Overall Carriage Width	mm in	2821 111.1
		mm	1129
14	Overall Carriage Height	in	44.4
15	Outside Tine Width (max spread)	mm	2627
-13	Outside Tille Width (max spread)	in	103.4
16	Outside Tine Width (min spread)	mm in	747 29.4
		mm	250.0
	Tine Width (single tine)	in	9.8
	Tine Thickness	mm	90.0
	THE THERIESS	in	3.5
	Tine Capacity	kg Ibs	17729 39075
	<u> </u>	kg	36678
	Operating Weight	lbs	80838

## 980 IW HL

**Construction Fork, FUSION** 

108" Carriage 523-4199

84" Tine 523-4201



\*Negative values indicate below grade

## Capacity (kg) (Calculated Load at CG Point)



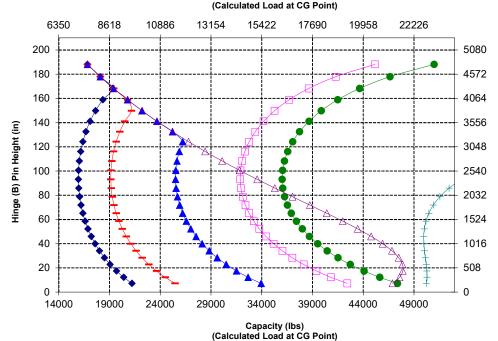
NOTE: Static tipping loads and operating weight are based on the operating weight are based on the following loader configuration:
Brawler Smooth Solid Tires, Air Conditioning, Ride Control, Powertrain Guard, Full Fluids, Fuel Tank, Coolant, Lubricants, and Operator.

Specifications and ratings conform to the following standards: SAE\* J1197, ISO 14397-1, CEN\*\* EN 474-3.

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





WARNING: Do not exceed tine load capacity. Individual tine capacity is stamped on the side of each tine.

## 980 Waste & Scrap Handler Specifications

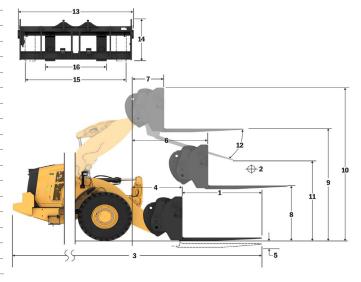
#### **Fork Specifications**

**Fork Specifications** 

. •			
1	Tine Length	mm in	2438 96.0
2	Load Center	mm	1219
_		in kg	48.0 16496
	Static Tipping Load - Straight (Forks Level)	lbs	36358
	Ctatia Timping Land Antiquisted (Fortic Laviel)	kg	14307
	Static Tipping Load - Articulated (Forks Level)	lbs	31532
	Rated Load (SAE J1197 - 50% FTSTL)	kg	7041
	Traise 2544 (5/12 51161 55/61 1512)	lbs	15518
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg Ibs	7041 15518
	<u></u>	ka	7041
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	lbs	15518
_	Maximum Overell Length	mm	10964
3	Maximum Overall Length	in	431.7
4	Reach with Forks at Ground Level	mm	1197
_	Trouble Will 1 Office at Glound Ecvel	in	47.1
5	*Ground to Bottom of Tine at Minimum Height and Fork Level	mm	-93
	<u> </u>	in mm	-3.7 1831
6	Reach with Arms Horizontal and Forks Level	in	72.1
_	B 1 W 5 1 111 1 1 1 1 1 1 1 1 1 1 1 1 1 1	mm	904
7	Reach with Fork at Maximum Height	in	35.6
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm	2106
	Ground to Top of Time with Arms Honzontal and Fork Level	in	82.9
9	Ground to Top of Tine at Maximum Height and Fork Level	mm	4375
		in	172.2 5412
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm in	213.1
	0	mm	1998
11	Clearance at Full Lift and Max Dump	in	78.6
12	Max Discharge Angle from Horizontal	deg	55
12	Max Discharge Angle Iron Florizonial		
13	Overall Carriage Width	mm	2821
	O Toran Carriago Trian	in	111.1
14	Overall Carriage Height	mm in	1127 44.4
		mm	2629
15	Outside Tine Width (max spread)	in	103.5
40	Outside Time Width (min annead)	mm	747
16	Outside Tine Width (min spread)	in	29.4
	Tine Width (single tine)	mm	250.0
		in	9.8
	Tine Thickness	mm	90.0
		in kg	3.5 15750
	Tine Capacity	lbs	34713
	O	kg	36691
	Operating Weight	lbs	80868

**980 IW STD**Construction Fork, FUSION

108" Carriage 96" Tine 523-4199 523-4202



Hinge (B) Pin Height (mm)

\*Negative values indicate below grade



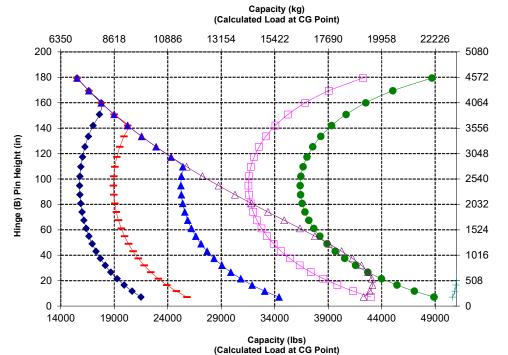
NOTE: Static tipping loads and operating weight are based on the following loader configuration: Brawler Smooth Solid Tires, Air Conditioning, Ride Control, Powertrain Guard, Full Fluids, Fuel Tank, Coolant, Lubricants, and Operator.

Specifications and ratings conform to the following standards: SAE\* J1197, ISO 14397-1, CEN\*\* EN 474-3.

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

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





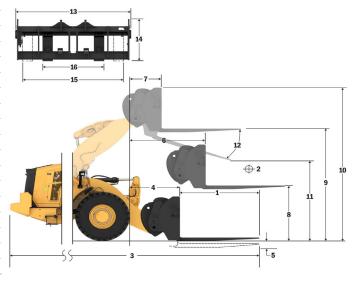
WARNING: Do not exceed tine load capacity. Individual tine capacity is stamped on the side of each tine.

#### **Fork Specifications**

. •			
1	Tine Length	mm in	2438 96.0
2	Load Center	mm	1219
	Load Center	in	48.0
	Static Tipping Load - Straight (Forks Level)	kg Ibs	15576 34328
	Static Tipping Load - Articulated (Forks Level)	kg	13773
	Static Tipping Load - Articulated (Forks Level)	lbs	30356
	Rated Load (SAE J1197 - 50% FTSTL)	kg Ibs	6791 14967
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg	6791
	Nated Load (OLIN LIN 474-3 Nough Terrain - 00 % 1 131L)	lbs	14967
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	kg Ibs	6791 14967
		mm	11172
3	Maximum Overall Length	in	439.8
4	Reach with Forks at Ground Level	mm	1405
	Troubil Will Torro at Ground Eaver	in	55.3
5	*Ground to Bottom of Tine at Minimum Height and Fork Level	mm in	-89 -3.5
	B 1 31 A 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	mm	2004
6	Reach with Arms Horizontal and Forks Level	in	78.9
7	Reach with Fork at Maximum Height	mm	920
	Trouble Harrison at Maraman Torgin	in	36.2
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm in	2108 83.0
9	Ground to Top of Tine at Maximum Height and Fork Level	mm	4597
	Ground to Top of Title at Maximum Height and Fork Level	in	181.0
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm	5634
	· · · · · · · · · · · · · · · · · · ·	in mm	221.8 2076
11	Clearance at Full Lift and Max Dump	in	81.7
12	Max Discharge Angle from Horizontal	deg	61
	wax bischarge Angle Iron Fiorizonial		
13	Overall Carriage Width	mm in	2821 111.1
4.	Overall Camina Height	mm	1127
14	Overall Carriage Height	in	44.4
15	Outside Tine Width (max spread)	mm	2629
	Catolae Tille Triatif (max epieaa)	in	103.5 747
16	Outside Tine Width (min spread)	mm in	29.4
	Tine Width (single tine)	mm	250.0
	Tille Width (Single tille)	in	9.8
	Tine Thickness	mm	90.0
		in kg	3.5 15750
	Tine Capacity	lbs	34713
	Operating Weight	kg	36829
	Operating Weight	lbs	81171

**980 IW HL**Construction Fork, FUSION

108" Carriage 96" Tine
523-4199 523-4202



\*Negative values indicate below grade

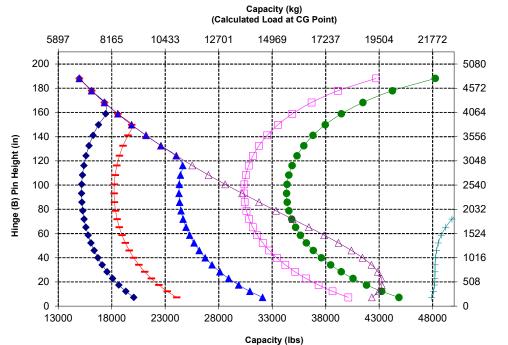


NOTE: Static tipping loads and operating weight are based on the following loader configuration: Brawler Smooth Solid Tires, Air Conditioning, Ride Control, Powertrain Guard, Full Fluids, Fuel Tank, Coolant, Lubricants, and Operator.

Specifications and ratings conform to the following standards: SAE\* J1197, ISO 14397-1, CEN\*\* EN 474-3.

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 full turn static tipping load on full furn at the tipping load on firm and level ground

\*SAE - Society of Automotive Engineers \*\*CEN - European Committee for Standardization



(Calculated Load at CG Point)



or hydraulic limit.

WARNING: Do not exceed tine load capacity. Individual tine capacity is stamped on the side of each tine.



# 980 Forestry Machine

Millyard applications demand the additional performance, productivity, and safety that Cat forestry wheel loaders deliver.

#### **Proven Reliability**

- Cat C13 engine offers increased power density with a combination of proven electronic fuel and air systems.
- Thorough component design and machine validation processes result in unmatched reliability and uptime.

#### **Durability**

- Heavy-duty transmission and axles designed to handle extreme applications.
- Automatic planetary powershift (4F/4R) transmission features durable, long-lasting components.

#### **Superior Fuel Efficiency & Productivity**

- Forestry package includes additional counterweight, heavier rear frame, larger tilt cylinders, shorter tilt links, and an extreme service transmission to increase machine capacity over the base model.
- Optional variable pitch fan and high debris coolers minimize the potential for overheating and reduce downtime for radiator clean out in high debris applications.
- Optional 3rd valve auxiliary hydraulics to control work tools requiring the additional function.
- Extreme service powershift transmission with lock-up clutch increases fuel efficiency while delivering optimal performance.
- Single clutch and lock-to-lock shifting for faster acceleration and speed on grades.
- Automatic idle engine shutdown system significantly reduces idle time, overall operating hours, and fuel consumption.
- Optional limited slip differentials increase traction and reduce tire slip, lowering operating costs.
- Deeply integrated engine, power train, and hydraulic systems deliver unmatched productivity and fuel efficiency.

#### **Safety Features**

- Rearview camera enhances visibility behind the machine, helping you work safely and confidently.
- Optional multiview (360°) vision system helps the operator monitor the surroundings of the machine at all times.
- Optional Cat Detect radar technology enhances awareness by monitoring the working environment and alerts operators to hazards.
- Cab access with wide door, optional remote door opening, and stair-like steps add solid stability.
- Floor-to-ceiling windshield, large mirrors with integrated spot mirrors, and rearview camera provide industry leading all-around visibility.
- Optional access light and under-hood service light system to provide illuminated access to the machine and daily checks even in the dark.

#### **Reduced Maintenance Time and Costs**

- Extended fluid and filter change intervals reduce maintenance costs by up to 20%.
- Remote Troubleshoot can connect the machine to the dealer service department to help diagnose problems quickly so you can get back to work.
- Remote Flash works around your schedule to ensure your machine's software is up to date for optimal performance.
- The Cat App helps you manage fleet location, hours, and maintenance schedules; it also alerts you for required maintenance and allows you to request service from your local Cat dealer.
- One-piece tilting hood makes engine compartment access fast and easy.

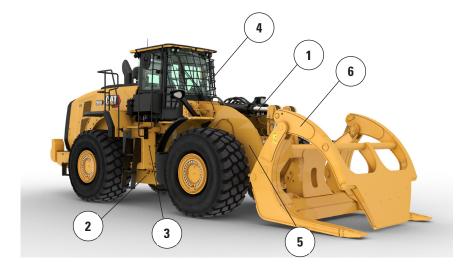
#### Work in Comfort in the All New Cab

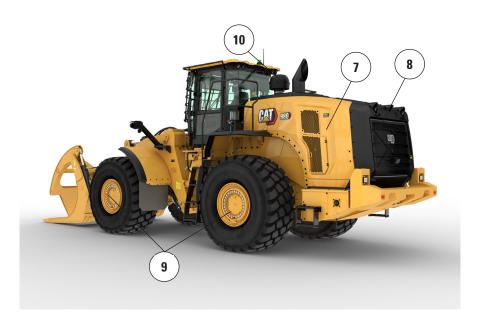
- Next-generation, easily adjustable seat and suspension for improved operator comfort. It comes in three trim levels and can be equipped with a 4-point harness.
- New in-cab dashboard and high-resolution touch display(s) are easy to use, intuitive, and user friendly.
- Sound suppression, seals, and viscous cab mounts decrease noise and vibration for a quieter work environment.
- The seat-mounted electro-hydraulic joystick steering system provides precision control and dramatically reduces arm fatigue, resulting in excellent comfort and accuracy. An HMU steering wheel is also available.

## **980 Forestry Machine Specifications**

#### **980 Forestry Machine Features**

- Larger tilt cylinders and optimized tilt links for increased load control in fork applications
- 2. Heavier rear frame and counterweight provide increased tipping loads in a millyard application
- 3. Extreme service transmission maintains durability
- 4. Optional window guarding to provide impact resistance to the glass
- Optional 3rd function hydraulics provide auxiliary hydraulic control for work tools like millyard or logging forks
- 6. Wide range of millyard work tools





- 7. Optional variable pitch fan help to keep rear grill and cooling cores clean in high debris applications
- 8. Optional high debris/wide fin spacing cooling cores are less prone to plugging
- 9. Optional axle oil cooler provides lower axle oil temperatures in high braking applications
- 10. Optional engine and cab precleaners for use in high debris applications

## **980 Forestry Machine Specifications**

#### **Tire Options**

Tire Brand	Bridgestone	Michelin	Bridgestone	Michelin	Maxam	Maxam
Tire Size	29.5R25	29.5R25	29.5R25	29.5R25	29.5R25	29.5R25
Tread Type	L-4	L-4	L-3	L-3	L-3	L-4
Tread Pattern	VSNT	XLDD1	VJT	XHA2	MS302	MS405DX
Width over Tires – Maximum (empty)*	3240 mm 10'8"	3258 mm 10'9"	3263 mm 10'9"	3270 mm 10'9"	3270 mm 10'9"	3256 mm 10'9"
Width over Tires – Maximum (loaded)*	3260 mm 10'9"	3302 mm 10'10"	3289 mm 10'10"	3296 mm 10'10"	3290 mm 10'10"	3282 mm 10'10"
Change in Vertical Dimensions (average of front and rear)		−7 mm −0.3"	-23 mm -0.9"	−40 mm −1.6"	−19 mm −0.8"	-33 mm -1.3"
Change in Horizontal Reach		-1 mm 0"	20 mm 0.8"	23 mm 0.9"	6 mm 0.2"	19 mm 0.7"
Change in Clearance Circle to Outside of Tires		42 mm 1.7"	29 mm 1.1"	36 mm 1.4"	30 mm 1.2"	22 mm 0.9"
Change in Clearance Circle to Inside of Tires		−42 mm −1.7"	−29 mm −1.1"	−36 mm −1.4"	−30 mm −1.2"	-22 mm -0.9"
Change in Operating Weight (without Ballast)		-156 kg -344 lb	-684 kg -1,508 lb	−700 kg −1,544 lb	-528 kg -1,164 lb	-388 kg -856 lb
Change in Static Tipping Load – Straight		−119 kg −262 lb	−520 kg −1,147 lb	−532 kg −1,174 lb	-402 kg -885 lb	−295 kg −651 lb
Change in Static Tipping Load – Articulated		-103 kg -228 lb	–453 kg –998 lb	−463 kg −1,022 lb	−350 kg −771 lb	−257 kg −566 lb
Rear Axle Oscillation Angle	±13 degrees	±13 degrees	±13 degrees	±13 degrees	±13 degrees	±13 degrees
Maximum Single-wheel Rise and Fall	549 mm 1'10"	549 mm 1'10"	549 mm 1'10"	549 mm 1'10"	549 mm 1'10"	549 mm 1'10"

<sup>\*</sup>Width over tire bulge and includes tire growth.

Tire Brand	Michelin	Bridgestone	Bridgestone	Maxam
Tire Size	875/65R29	875/65R29	875/65R29	875/65R29
Tread Type	L-3	L-3	L–4	L-4
Tread Pattern	XHA2	VTS	VLTS	MS405DX
Width over Tires – Maximum (empty)*	3373 mm	3341 mm	3344 mm	3357 mm
	11'1"	11'0"	11'0"	11'1"
Width over Tires – Maximum (loaded)*	3384 mm	3359 mm	3366 mm	3382 mm
	11'2"	11'1"	11'1"	11'2"
Change in Vertical Dimensions (average of front and rear)	−25 mm	−19 mm	−16 mm	−34 mm
	−1"	−0.8"	−0.6"	−1.3"
Change in Horizontal Reach	18 mm	20 mm	19 mm	19 mm
	0.7"	0.8"	0.7"	0.7"
Change in Clearance Circle to Outside of Tires	124 mm	99 mm	106 mm	122 mm
	4.9"	3.9"	4.2"	4.8"
Change in Clearance Circle to Inside of Tires	−124 mm	−99 mm	−106 mm	-122 mm
	−4.9"	−3.9"	−4.2"	-4.8"
Change in Operating Weight (without Ballast)	-40 kg	240 kg	316 kg	308 kg
	-88 lb	529 lb	697 lb	679 lb
Change in Static Tipping Load – Straight	−30 kg	183 kg	240 kg	234 kg
	−67 lb	402 lb	530 lb	516 lb
Change in Static Tipping Load – Articulated	−26 kg	159 kg	209 kg	204 kg
	−58 lb	350 lb	461 lb	450 lb
Rear Axle Oscillation Angle	±8 degrees	±8 degrees	±8 degrees	±8 degrees
Maximum Single-wheel Rise and Fall	340 mm	340 mm	340 mm	340 mm
	1'1"	1'1"	1'1"	1'1"

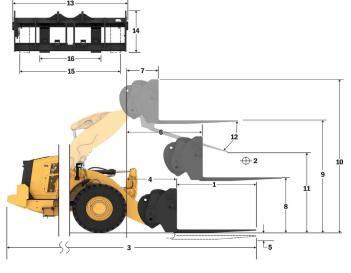
 $<sup>{}^*\!</sup>W$ idth over tire bulge and includes tire growth.

#### Fork Specifications

1	Tine Length	mm in	2438 96.0
2	Load Center	mm	1219
		in ka	48.0 15352
	Static Tipping Load - Straight (Forks Level)	lbs	33835
	Static Tipping Load - Articulated (Forks Level)	kg	13533
	Otatic Tipping Load - Articulated (Forks Level)	lbs	29826
	Rated Load (SAE J1197 - 50% FTSTL)	kg Ibs	6766 14913
		kg	8120
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	lbs	17896
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	kg	10826
	Trained Educa (OEIT EIT 174 O'T IIIIT and Edvor Ground Governore)	lbs	23861
3	Maximum Overall Length	mm in	11174 439.9
		mm	1318
4	Reach with Forks at Ground Level	in	51.9
5	*Ground to Bottom of Tine at Minimum Height and Fork Level	mm	-143
	Ground to Bottom or Time at William Trieignt and Fork Level	in	-5.6
6	Reach with Arms Horizontal and Forks Level	mm	1840
		in mm	72.4 913
7	Reach with Fork at Maximum Height	in	35.9
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm	2169
•	Ground to Top of Title with Arms Horizontal and Fork Level	in	85.4
9	Ground to Top of Tine at Maximum Height and Fork Level	mm	4438
		in mm	174.7 5810
10	Overall Height of Fork at Full Lift (top of carriage to ground)	in	228.7
44	Clearance at Full Lift and Max Dump	mm	2165
-''	Clearance at Full Lift and Max Dump	in	85.3
12	Max Discharge Angle from Horizontal	deg	47
13	Overall Carriage Width	mm	2751
		in mm	108.3 1575
14	Overall Carriage Height	in	62.0
45	Outside Tine Width (max spread)	mm	2671
15	Outside Tille Width (max spread)	in	105.1
16	Outside Tine Width (min spread)	mm	849
	, ,	in mm	33.4 88.9
	Tine Width (single tine)	in	3.5
	Tina Thinkman	mm	203.2
	Tine Thickness	in	8.0
	Tine Capacity	kg	11068
	- Into Capacity	lbs	24393
	Operating Weight	kg Ibs	31500 69426
		เมร	09420

**980 LOG**Pallet, Pin-ON

96" Tine
473-9104



\*Negative values indicate below grade

#### Capacity (kg) (Calculated Load at CG Point)

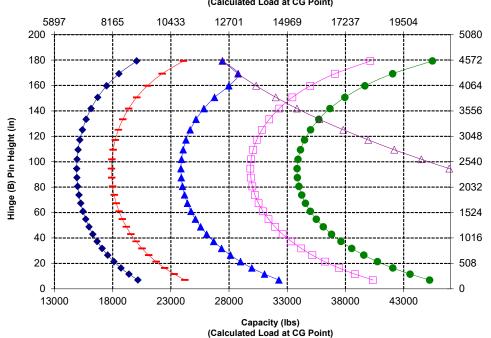


NOTE: Static tipping loads and operating weight are based on the following loader configuration:
Bridgestone \* VSNT L4 Tires, Air Conditioning, Ride Control, Powertrain Guard, Full Fluids, Fuel Tank, Coolant, Lubricants, and Operator.

Specifications and ratings conform to the following standards: SAE\* J1197, ISO 14397-1, CEN\*\* EN 474-3.

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





WARNING: Do not exceed tine load capacity. Individual tine capacity is stamped on the side of each tine.

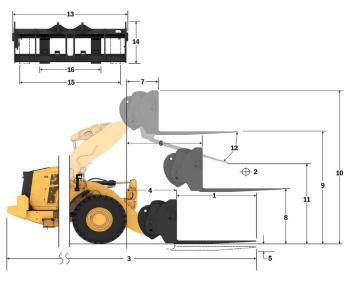
## **980 Forestry Machine Specifications**

#### **Fork Specifications**

#### **Fork Specifications**

1	Tine Length	mm in	1829 72.0
2	Load Center	mm	914
	Otatic Timelina Land Otaticht (Forder Land)	in ka	36.0 16872
	Static Tipping Load - Straight (Forks Level)	lbs	37187
	Static Tipping Load - Articulated (Forks Level)	kg	14904
		lbs kg	32849 7452
	Rated Load (SAE J1197 - 50% FTSTL)	lbs	16424
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg	8943
	Trace Edda (OEIV EIV +1 + O Trough Fortain OO 70 F FOTE)	lbs	19709
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	kg lbs	11923 26279
3	Maximum Overall Length	mm	10568
<u> </u>	Maximum Overali Length	in	416.1
4	Reach with Forks at Ground Level	mm	1322
		in mm	52.1 -149
5	*Ground to Bottom of Tine at Minimum Height and Fork Level	in	-5.9
_	Decident the American Indiana Asia and Estate Indiana	mm	1840
6	Reach with Arms Horizontal and Forks Level	in	72.4
7	Reach with Fork at Maximum Height	mm	913
	Troubit Will Fork at Maximum Floright	in	35.9
8	Ground to Top of Tine with Arms Horizontal and Fork Level	mm in	2163 85.2
_		mm	4432
9	Ground to Top of Tine at Maximum Height and Fork Level	in	174.5
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm	5810
	- Crorain Floight of Forthact all Ent (top of barnage to ground)	in	228.7 2607
11	Clearance at Full Lift and Max Dump	mm in	102.7
12	Max Discharge Angle from Horizontal	deg	47
			2751
13	Overall Carriage Width	mm in	108.3
	Overall Comings Height	mm	1581
14	Overall Carriage Height	in	62.3
15	Outside Tine Width (max spread)	mm	2671
	Catolae Tille Triali (max oprodu)	in	105.1
16	Outside Tine Width (min spread)	mm in	849 33.4
	The AMBRID (steeds the A	mm	88.9
	Tine Width (single tine)	in	3.5
	Tine Thickness	mm	203.2
	1110 1110111000	in	8.0
	Tine Capacity	kg	14742 32491
	<u> </u>	lbs kg	31268
	Operating Weight	lbs	68915

980 LOG 72" Tine Pallet, Pin-ON 473-9106



Hinge (B) Pin Height (mm)

\*Negative values indicate below grade

### Capacity (kg) (Calculated Load at CG Point)



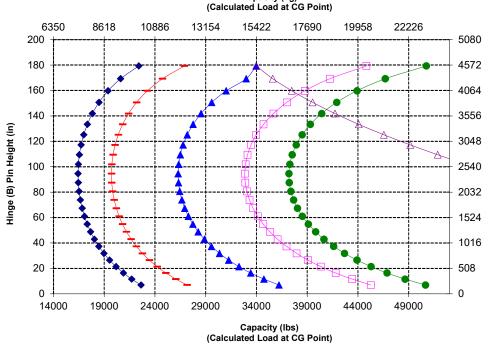
operating weight are based on the following loader configuration: Bridgestone \* VSNT L4 Tires, Air Conditioning, Ride Control, Powertrain Guard, Full Fluids, Fuel Tank, Coolant, Lubricants, and Operator.

Specifications and ratings conform to the following standards: SAE\* J1197, ISO 14397-1, CEN\*\* EN 474-3.

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 \*\*CEN - European Committee for



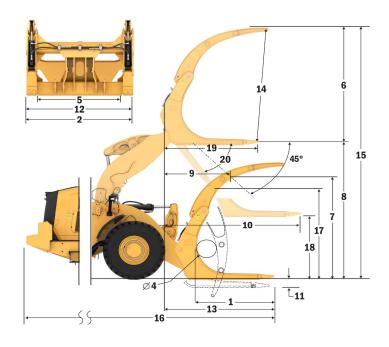


WARNING: Do not exceed tine load capacity. Individual tine capacity is stamped on the side of each tine.

#### **Fork Specifications**

го	ik opecifications		
1	Tine length	mm in	1829 72.0
_	F. J. William	mm	2777
2	Fork width	in	109.3
	End area	m2	1.69
		ft2	18
3	Inside Height	mm	0
	(only applies to double top clamp) Min. opening	in mm	0 555
4	(only applies to millyard forks)	in	22
	, , , ,	kg	32765
	Operating Weight	lbs	72234
5	Distance inside of tine tips	mm	2215
	·	in	87
	Static tipping load, articulated	kg	15998
	Fork level	lbs	35268.4
	Static tipping load, straight Fork level	kg Ibs	18310 40366.2
_	Max. height of fork	mm	3107
6	(w/clamp open if applicable)	in	122.3
7	Clearance w/full lift, 45 deg dump	mm	2982
'	(if max. dump <> 45)	in	117.4
8	Clearance @ full lift fork level	mm	4301
	9	in	169.3
9	Reach w/full lift, 45 deg dump	mm	1600
	(if max. dump <> 45)	in	63.0
10	Reach w/lift arm horizontal and fork level	mm in	3283 129.2
		mm	-77
11	*Ground to Bottom of Tool at Minimum Height and Tool Level	in	-3.0
40	Width over tines	mm	2741
12	widin over lines	in	107.9
13	Reach @ ground level	mm	2566
	Trought & ground level	in	101
14	Max. opening across tine and clamp	mm	2926
	Overall height of fork @ full lift and	in mm	115.2 7408
15	clamp open	in	291.7
	Overall length	mm	9983
16	Tip of tine to rear of machine	in	393.0
17	Clearance @ full lift and max. dump	mm	2939
-17	Discharge (if <> 45)	in	115.7
18	Clearance w/horizontal lift arms and	mm	2032.4
	fork level	in	80.0
19	Reach @ full lift and fork level	mm	2356.0
		in	92.8 47
20	Max. discharge angle from horizontal	deg rad	47 0.8
		iau	0.0

980 LOG 72" Tine Millyard, Pin-On 507-6128



\*Negative values indicate below grade

#### Capacity (kg) (Calculated Load at CG Point)

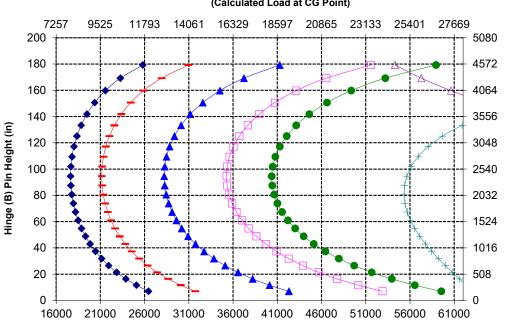


operating weight are based on the following loader configuration:
Bridgestone \* VSNT L4 Tires, Air Conditioning, Ride Control, Powertrain Guard, Full Fluids, Fuel Tank, Coolant, Lubricants, and Operator

Specifications and ratings conform to the following standards: SAE\* J1197, ISO 14397-1, CEN\*\* EN 474-3.

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



Capacity (lbs) (Calculated Load at CG Point)

Fork	Sne	ecific	catio	ns
ı vir	JP	<del>-</del>	Jaur	II O

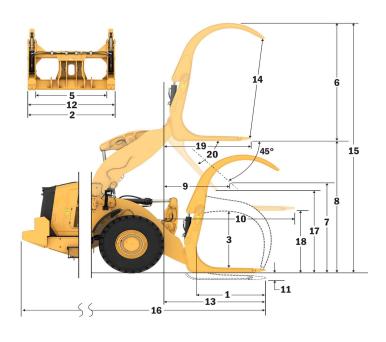
1	Tine length	mm in	1826 71.9
		mm	2802
2	Fork width	in	110.3
		m2	2.43
	End area	ft2	26
	Inside Height	mm	1540
3	(only applies to double top clamp)	in	61
	Min. opening	mm	N/A
4	(only applies to millyard forks)	in	N/A
		kg	31970
	Operating Weight	lbs	70481
		mm	2256
5	Distance inside of tine tips	in	89
	Static tipping load, articulated	kg	15920
	Fork level	lbs	35097.5
	Static tipping load, straight	kg	18102
	Fork level	lbs	39906.6
_	Max. height of fork	mm	3394
6	(w/clamp open if applicable)	in	133.6
7	Clearance w/full lift, 45 deg dump	mm	2979
'	(if max. dump <> 45)	in	117.3
8	Clearance @ full lift fork level	mm	4301
0	9	in	169.3
9	Reach w/full lift, 45 deg dump	mm	1603
	(if max. dump <> 45)	in	63.1
10	Reach w/lift arm horizontal and fork level	mm	3287
	Trough William Trongonial and for level	in	129.4
11	*Ground to Bottom of Tool at Minimum Height and Tool Level	mm	-77
•	Croana to Bottom or root at minimum riolgin and root 2010	in	-3.0
12	Width over tines	mm	2752
		in	108.4
13	Reach @ ground level	mm	2570
		in	101
14	Max. opening across tine and clamp	mm	2936
		in	115.6
15	Overall height of fork @ full lift and	mm	7695
	clamp open	in	303.0
16	Overall length Tip of tine to rear of machine	mm	9987
	Clearance @ full lift and max. dump	in	393.2
17	Discharge (if <> 45)	mm	2936 115.6
	Clearance w/horizontal lift arms and	in mm	2032.2
18	fork level	in	80.0
	lork level	mm	2359.9
19	Reach @ full lift and fork level	in	92.9
		deg	92.9 47
20	Max. discharge angle from horizontal	rad	0.8
		iau	0.0

980 LOG

Logging, Pin-On

72" Tine 383-1822

Hinge (B) Pin Height (mm)



## Capacity (kg) (Calculated Load at CG Point)

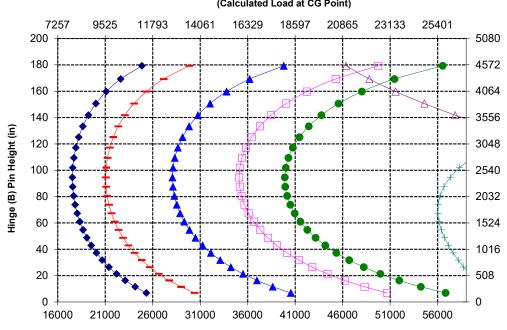


NOTE: Static tipping loads and operating weight are based on the following loader configuration: Bridgestone \* VSNT L4 Tires, Air Conditioning, Ride Control, Powertrain Guard, Full Fluids, Fuel Tank, Coolant, Lubricants, and Operator.

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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



<sup>\*</sup>Negative values indicate below grade



# 980 Steel Mill

Steel mill package is designed for the challenging work environment of steel mills and slag handling applications, incorporating an added level of safety.

#### **Proven Reliability**

- Cat C13 engine offers increased power density with a combination of proven electronic fuel and air systems.
- Thorough component design and machine validation processes result in unmatched reliability and uptime.

#### **Durability**

- Steel mill package adds additional steel guards all around the machine to protect your investment.
- Hydraulic hoses and electrical harnesses outside of the frame are insulated and wrapped with stainless steel braiding.
- Heavy-duty hinge pins with a cross hatch design and high temp bushings are purpose built
- Heavy-duty steel cable lower steps stand up to the harshest of conditions
- Heavy-duty transmission and axles designed to handle extreme applications.
- Automatic planetary powershift (4F/4R) transmission features durable, long-lasting components.

#### **Superior Fuel Efficiency & Productivity**

- Powershift transmission with lock-up clutch increases fuel efficiency while delivering optimal performance.
- Single clutch and lock-to-lock shifting for faster acceleration and speed on grades.
- Automatic idle engine shutdown system significantly reduces idle time, overall operating hours, and fuel consumption.
- Optional limited slip differentials increase traction and reduce tire slip, lowering operating costs.
- Deeply integrated engine, power train, and hydraulic systems deliver unmatched productivity and fuel efficiency.

#### **Safety Features**

- Ground-level parking brake override & engine shutdown switches for emergency machine retrieval.
- Optional rear egress stairs allows for another point of machine exit for the operator.
- In-cab parking brake and transmission override controls provide an added level of safety for a steel mill application.
- Rearview camera enhances visibility behind the machine, helping you work safely and confidently.
- Cab access with wide door, optional remote door opening, and stair-like steps add solid stability.
- Floor-to-ceiling windshield, large mirrors with integrated spot mirrors, and rearview camera provide industry leading all-around visibility.

#### **Reduced Maintenance Time and Costs**

- Extended fluid and filter change intervals reduce maintenance costs by up to 20%.
- Remote Troubleshoot can connect the machine to the dealer service department to help diagnose problems quickly so you can get back to work.
- Remote Flash works around your schedule to ensure your machine's software is up to date for optimal performance.
- The Cat App helps you manage fleet location, hours, and maintenance schedules; it also alerts you for required maintenance and allows you to request service from your local Cat dealer.
- One-piece tilting hood makes engine compartment access fast and easy.

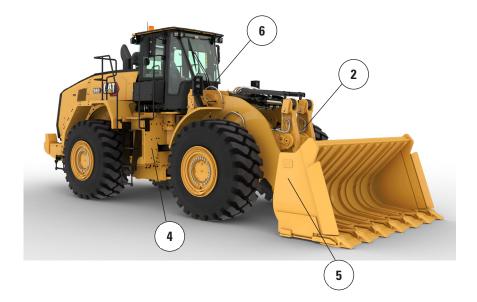
#### Work in Comfort in the All New Cab

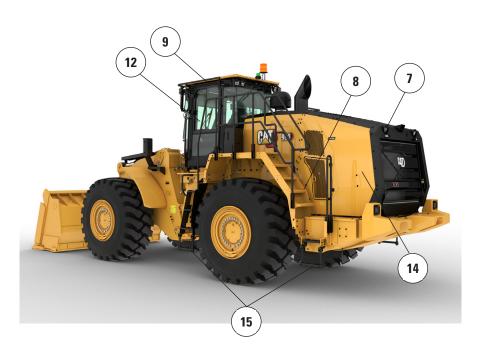
- Next-generation, easily adjustable seat and suspension for improved operator comfort. It comes in three trim levels and can be equipped with a 4-point harness.
- New in-cab dashboard and high-resolution touch display(s) are easy to use, intuitive, and user friendly.
- Sound suppression, seals, and viscous cab mounts decrease noise and vibration for a quieter work environment.
- The seat-mounted electro-hydraulic joystick steering system provides precision control and dramatically reduces arm fatigue, resulting in excellent comfort and accuracy. An HMU steering wheel is also available.

## 980 Steel Mill Specifications

#### 980 Steel Mill Features

- Hydraulic hoses and electrical harness are wrapped with a thermal sleeve
- 2. Hoses and harnesses outside of the frame have an additional stainless-steel sleeve applied
- Added steel guards include crankcase, power train, front frame, hitch, steering cylinder, service center, cab, platform, implement valve cover, and tilt cylinder
- 4. Extreme service transmission
- 5. Heavy-duty hinge pins with a cross hatch design and high temp bushings are purpose built
- 6. Front lights are guarded and positioned close to the frame for added protection





- 7. Ground-level parking brake override & engine shutdown switches
- 8. Optional rear egress with fire suppression left hand mounting point available
- 9. Steel roof cap and steel mirrors integrated into the cab
- In-cab parking brake and transmission override controls
- 11. In-cab secondary engine start
- 12. Non-bonded flat front cab glass allows for easy replacement
- 13. Eco-Safe FR46 hydraulic fluid available from the factory
- 14. Optional steel hood
- 15. Heavy-duty steel cable steps

## **980 Steel Mill Specifications**

#### **Tire Options**

Tire Brand	Bridgestone	Michelin	Michelin	Michelin
Tire Size	29.5-25	29.5-25	29.5-25	29.5-25
Tread Type	L-4	L-4	L-5	L-5
Tread Pattern	VSNT	XLDD1	XLDD2	XMINED2
Width over Tires – Maximum (empty)*	3240 mm 10'8"	3258 mm 10'9"	3256 mm 10'9"	3275 mm 10'9"
Width over Tires – Maximum (loaded)*	3260 mm 10'9"	3302 mm 10'10"	3296 mm 10'10"	3294 mm 10'10"
Change in Vertical Dimensions (average of front and rear)		−7 mm -0.3"	−6 mm −0.2"	5 mm 0.2"
Change in Horizontal Reach		-1 mm 0"	3 mm 0.1"	3 mm 0.1"
Change in Clearance Circle to Outside of Tires		42 mm 1.7"	36 mm 1.4"	34 mm 1.3"
Change in Clearance Circle to Inside of Tires		−42 mm −1.7"	−36 mm −1.4"	−34 mm −1.3"
Change in Operating Weight (without Ballast)		−156 kg −344 lb	208 kg 459 lb	532 kg 1173 lb
Change in Static Tipping Load – Straight		−119 kg −262 lb	158 kg 349 lb	405 kg 892 lb
Change in Static Tipping Load – Articulated		−103 kg −228 lb	138 kg 304 lb	352 kg 777 lb
Rear Axle Oscillation Angle	±8 degrees	±8 degrees	±8 degrees	±8 degrees
Maximum Single-wheel Rise and Fall	340 mm 1'1"	340 mm 1'1"	340 mm 1'1"	340 mm 1'1"
*Width over tire hulge and includes tire growth				

<sup>\*</sup>Width over tire bulge and includes tire growth.

Tire Brand	Bridgestone	Michelin	Bridgestone	Bridgestone
Tire Size	29.5R25	29.5R25	29.5R25	29.5R25
Tread Type	L-3	L–4	L-5	L–5
Tread Pattern	VJT	VSNT	VSDT	VSDL
Width over Tires – Maximum (empty)*	3263 mm	3270 mm	3272 mm	3250 mm
	10'9"	10'9"	10'9"	10'8"
Width over Tires – Maximum (loaded)*	3289 mm	3296 mm	3301 mm	3275 mm
	10'10"	10'10"	10'10"	10'9"
Change in Vertical Dimensions (average of front and rear)	-23 mm	−40 mm	4 mm	20 mm
	-0.9"	−1.6"	0.1"	0.8"
Change in Horizontal Reach	20 mm	23 mm	0 mm	−10 mm
	0.8"	0.9"	0"	−0.4"
Change in Clearance Circle to Outside of Tires	29 mm	36 mm	41 mm	15 mm
	1.1"	1.4"	1.6"	0.6"
Change in Clearance Circle to Inside of Tires	−29 mm	−36 mm	−41 mm	-15 mm
	−1.1"	−1.4"	−1.6"	-0.6"
Change in Operating Weight (without Ballast)	−684 kg	−700 kg	500 kg	708 kg
	−1508 lb	−1,544 lb	1,103 lb	1,561 lb
Change in Static Tipping Load – Straight	−520 kg	−532 kg	380 kg	538 kg
	−1147 lb	−1,174 lb	838 lb	1,187 lb
Change in Static Tipping Load – Articulated	–453 kg	−463 kg	331 kg	469 kg
	–998 lb	−1,022 lb	730 lb	1,033 lb
Rear Axle Oscillation Angle	±8 degrees	±8 degrees	±8 degrees	±8 degrees
Maximum Single-wheel Rise and Fall	340 mm	340 mm	340 mm	340 mm
	1'1"	1'1"	1'1"	1'1"

<sup>\*</sup>Width over tire bulge and includes tire growth.

## **980 Steel Mill Specifications**

#### **Tire Options**

Tire Brand	Maxam	Maxam	Maxam	Brawler
Tire Size	29.5-25	29.5-25	29.5-25	29.5-25
Tread Type	L-3	L-4	L-5	L-3
Tread Pattern	MS302	MS405DX	MS503	XHA2
Width over Tires – Maximum (empty)*	3270 mm	3256 mm	3268 mm	3227 mm
	10'9"	10'9"	10'9"	10'8"
Width over Tires – Maximum (loaded)*	3290 mm	3282 mm	3304 mm	3230 mm
	10'10"	10'10"	10'11"	10'8"
Change in Vertical Dimensions (average of front and rear)	−19 mm	−33 mm	−6 mm	9 mm
	−0.8"	−1.3"	−0.2"	0.4"
Change in Horizontal Reach	6 mm	19 mm	−3 mm	30 mm
	0.2"	0.7"	−0.1"	1.2"
Change in Clearance Circle to Outside of Tires	30 mm	22 mm	44 mm	−30 mm
	1.2"	0.9"	1.7"	−1.2"
Change in Clearance Circle to Inside of Tires	−30 mm	−22 mm	−44 mm	30 mm
	−1.2"	−0.9"	−1.7"	1.2"
Change in Operating Weight (without Ballast)	−528 kg	-388 kg	252 kg	5772 kg
	−1,164 lb	-856 lb	556 lb	12,727 lb
Change in Static Tipping Load – Straight	-402 kg	-295 kg	192 kg	4390 kg
	-885 lb	-651 lb	423 lb	9,679 lb
Change in Static Tipping Load – Articulated	−350 kg	−257 kg	167 kg	3821 kg
	−771 lb	−566 lb	368 lb	8,425 lb
Rear Axle Oscillation Angle	±8 degrees	±8 degrees	±8 degrees	±8 degrees
Maximum Single-wheel Rise and Fall	340 mm	340 mm	340 mm	340 mm
	1'1"	1'1"	1'1"	1'1"
*\\/:\deltime				

<sup>\*</sup>Width over tire bulge and includes tire growth.

Tire Brand	Michelin	Bridgestone	Bridgestone	Maxam
Tire Size	875/65R29	875/65R29	875/65R29	875/65R29
Tread Type	L-3	L-3	L-4	L-4
Tread Pattern	XHA2	VTS	VLTS	MS405DX
Width over Tires – Maximum (empty)*	3373 mm	3341 mm	3344 mm	3357 mm
	11'1"	11'0"	11'0"	11'1"
Width over Tires – Maximum (loaded)*	3384 mm	3359 mm	3366 mm	3382 mm
	11'2"	11'1"	11'1"	11'2"
Change in Vertical Dimensions (average of front and rear)	−25 mm	−19 mm	−16 mm	−34 mm
	−1"	−0.8"	−0.6"	−1.3"
Change in Horizontal Reach	18 mm	20 mm	19 mm	19 mm
	0.7"	0.8"	0.7"	0.7"
Change in Clearance Circle to Outside of Tires	124 mm	99 mm	106 mm	122 mm
	4.9"	3.9"	4.2"	4.8"
Change in Clearance Circle to Inside of Tires	−124 mm	−99 mm	−106 mm	−122 mm
	−4.9"	−3.9"	−4.2"	−4.8"
Change in Operating Weight (without Ballast)	–40 kg	240 kg	316 kg	308 kg
	–88 lb	529 lb	697 lb	679 lb
Change in Static Tipping Load – Straight	−30 kg	183 kg	240 kg	234 kg
	−67 lb	402 lb	530 lb	516 lb
Change in Static Tipping Load – Articulated	−26 kg	159 kg	209 kg	204 kg
	−58 lb	350 lb	461 lb	450 lb
Rear Axle Oscillation Angle	±8 degrees	±8 degrees	±8 degrees	±8 degrees
Maximum Single-wheel Rise and Fall	340 mm	340 mm	340 mm	340 mm
	1'1"	1'1"	1'1"	1'1"

 $<sup>{}^*\!</sup>W$ idth over tire bulge and includes tire growth.

#### **Operating Specifications – Buckets**

Linkage		Standard Linkage		
Bucket Type		Slag — Pin-On		
Edge Type		Teeth and Segments		
Capacity – Rated	m <sup>3</sup>	3.80		
	$yd^3$	5.00		
Capacity - Rated at 110% Fill Factor	$m^3$	4.20		
	yd³	5.50		
Width	mm	3394		
	ft/in	11'1"		
<b>16</b> † Dump Clearance at Maximum Lift	mm	3206		
and 45° Discharge	ft/in	10'6"		
17† Reach at Maximum Lift and	mm	1493		
45° Discharge	ft/in	4'10"		
Reach at Level Lift Arm and	mm	3021		
Bucket Level	ft/in	9'10"		
A† Digging Depth	mm	114		
	in	4.5"		
12† Overall Length	mm	9793		
	ft/in	32'2"		
<b>B</b> † Overall Height with Bucket at	mm	6016		
Maximum Lift	ft/in	19'9"		
Loader Clearance Circle Radius	mm	7635		
with Bucket at Carry Position	ft/in	25'1"		
Static Tipping Load, Straight	kg	20 885		
(With tire deflection)	lb	46,031		
Static Tipping Load, Straight	kg	22 305		
(No tire deflection)	lb	49,161		
Static Tipping Load,	kg	17 710		
Articulated (With tire deflection)	lb	39,033		
Static Tipping Load, Articulated	kg	18 982		
(No tire deflection)	1b	41,836		
Breakout Force (§)	kN	257		
	lbf	57,919		
Operating Weight*	kg	33 895		
	lb	74,704		

<sup>\*</sup> Static tipping loads and operating weights shown are based on a machine configuration with Bridgestone 29.5R25 VSNT L4 radial tires, full fluids, operator, axle oil cooler, standard counterweight, steel mill linkage, flat window, rear egress fenders, ride control, steel roof cap, standard starting, steel mill package, turbine engine precleaner, Product Link, open/open differentials, power train guard, standard 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.

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

<sup>†</sup> Illustration shown with Dimension charts.

<sup>(§)</sup> Measured 100 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with ISO 14397-2:2007.



# 980 Block Handler

The Cat 980 Block Handler is designed to withstand the demanding and harsh environment of block handling applications. The Block Handler's features work together to provide a durable and reliable machine to meet your needs.

#### **Proven Reliability**

- Cat C13 engine offers increased power density with a combination of proven electronic fuel and air systems.
- Thorough component design and machine validation processes result in unmatched reliability and uptime.

#### **Durability**

- Heavy-duty rims have a thicker center disc and rim section that were specifically designed to carry the additional loads that are common in a block handling application.
- Extreme service transmission with lock-up clutch torque convertor for improved performance and durability.

#### **Superior Fuel Efficiency & Productivity**

- Block handler package includes larger tilt cylinders and counterweight for increased load control.
- Rack limiting feature to prevent unintended lever contact with the blocks.
- Block handler counterweight with integrated guard offers higher payload capability for block handling.
- Powershift transmission with lock-up clutch increases fuel efficiency while delivering optimal performance.
- Single clutch and lock-to-lock shifting for faster acceleration and speed on grades.
- Automatic idle engine shutdown system significantly reduces idle time, overall operating hours, and fuel consumption.
- Optional limited slip differentials increase traction and reduce tire slip, lowering operating costs.
- Deeply integrated engine, power train, and hydraulic systems deliver unmatched productivity and fuel efficiency.

#### **Safety Features**

- Rearview camera enhances visibility behind the machine, helping you work safely and confidently.
- Optional multiview (360°) vision system helps the operator monitor the surroundings of the machine at all times.
- Optional Cat Detect radar technology enhances awareness by monitoring the working environment and alerts operators to hazards.
- Cab access with wide door, optional remote door opening, and stair-like steps add solid stability.
- Floor-to-ceiling windshield, large mirrors with integrated spot mirrors, and rearview camera provide industry leading all-around visibility.
- Optional access light and under-hood service light system to provide illuminated access to the machine and daily checks even in the dark.

#### **Reduced Maintenance Time and Costs**

- Extended fluid and filter change intervals reduce maintenance costs by up to 20%.
- Remote Troubleshoot can connect the machine to the dealer service department to help diagnose problems quickly so you can get back to work.
- Remote Flash works around your schedule to ensure your machine's software is up to date for optimal performance.
- The Cat App helps you manage fleet location, hours, and maintenance schedules; it also alerts you for required maintenance and allows you to request service from your local Cat dealer.
- One-piece tilting hood makes engine compartment access fast and easy.

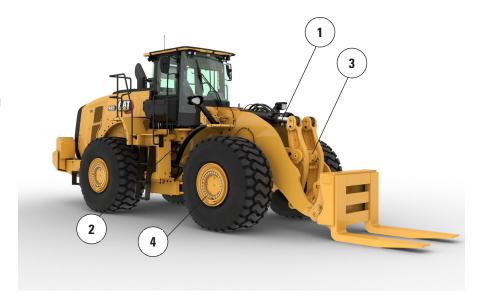
#### Work in Comfort in the All New Cab

- Next-generation, easily adjustable seat and suspension for improved operator comfort. It comes in three trim levels and can be equipped with a 4-point harness.
- New in-cab dashboard and high-resolution touch display(s) are easy to use, intuitive, and user friendly.
- Sound suppression, seals, and viscous cab mounts decrease noise and vibration for a quieter work environment.
- The seat-mounted electro-hydraulic joystick steering system provides precision control and dramatically reduces arm fatigue, resulting in excellent comfort and accuracy. An HMU steering wheel is also available.

## **980 Block Handler Specifications**

#### 980 Block Handler Features

- 1. Larger tilt cylinders for increased load control
- Extreme service transmission with lockup clutch torque convertor for improved performance and durability
- 3. Rack limiting feature to prevent unintended lever contact with the blocks
- 4. Heavy-duty rims have a thicker center disc and rim section that were specifically designed to carry the additional loads that are common in a block handling application





- 5. Heavier counterweight provides for greater tipping loads while the integrated counterweight guard protects the counterweight from impact
- 6. Rear frame is reinforced and features solid steel frame rails rearward of the axle
- 7. Optional axle oil cooler provides lower axle oil temperatures in high braking applications

## **980 Block Handler Specifications**

#### **Tire Options**

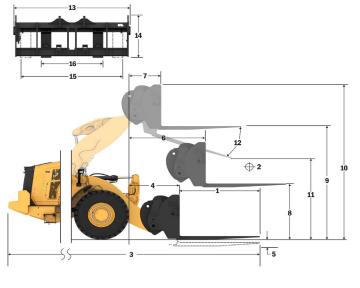
Tire Brand	BRIDGESTONE	GOODYEAR	BRIDGESTONE
Tire Size	29.5R25	29.5R25	29.5R25
Tread Type	L-3	L3	L-5
Tread Pattern	VJT	RT-3B	VSDL
Casing Strength	**	**	**
Width over Tires – Maximum (empty)*	3263 mm	3270 mm	3250 mm
	10'9"	10'9"	10'8"
Width over Tires – Maximum (loaded)*	3289 mm	3311 mm	3275 mm
	10'10"	10'11"	10'9"
Change in Vertical Dimensions		−1 mm	43 mm
(average of front and rear)		0"	1.7"
Change in Horizontal Reach		4 mm	-30 mm
		0.1"	-1.2"
Change in Clearance Circle to Outside of Tires		22 mm	-14 mm
		0.9"	-0.6"
Change in Clearance Circle to Inside of Tires		−22 mm	14 mm
		-0.9"	0.6"
Change in Operating Weight (without Ballast)		348 kg	1392 kg
		767 lb	3,069 lb
Change in Static Tipping Load – Straight		265 kg	1059 kg
		584 lb	2,334 lb
Change in Static Tipping Load – Articulated		230 kg	922 kg
		508 lb	2,032 lb
Rear Axle Oscillation Angle	±8 degrees	±8 degrees	±8 degrees
Maximum Single-wheel Rise and Fall	340 mm	340 mm	340 mm
	1'1"	1'1"	1'1"

<sup>\*</sup>Width over tire bulge and includes tire growth.

#### **Fork Specifications**

1	Tine Length	mm in	1495 58.9
2	Load Center	mm	748
_	Edda Gorico	in	29.4
	Static Tipping Load - Straight (Forks Level)	kg Ibs	21931 48335
	Otatia Timpia a Land Additionate del (Fantos Land)	ka	19180
	Static Tipping Load - Articulated (Forks Level)	lbs	42273
	Rated Load (SAE J1197 - 50% FTSTL)	kg	9590
	,	lbs	21137
	Rated Load (CEN EN 474-3 Rough Terrain - 60% FTSTL)	kg Ibs	11508 25364
	Detect Lond (CEN EN 474 2 Firms and Lovel Crowned 900/ FTCTL)	kg	15344
	Rated Load (CEN EN 474-3 Firm and Level Ground - 80% FTSTL)	lbs	33819
3	Maximum Overall Length	mm	10365
	Maximum Overain Eenigen	in	408.1
4	Reach with Forks at Ground Level	mm in	1259 49.6
		mm	-254
5	*Ground to Bottom of Tine at Minimum Height and Fork Level	in	-10.0
6	Reach with Arms Horizontal and Forks Level	mm	1766
•	Reach with Affis Horizontal and Forks Level	in	69.5
7	Reach with Fork at Maximum Height	mm	839
		in mm	33.0 1971
8	Ground to Top of Tine with Arms Horizontal and Fork Level	in	77.6
_	Crowned to Ton of Time at Mavinovan Height and Fould avail	mm	4239
9	Ground to Top of Tine at Maximum Height and Fork Level	in	166.9
10	Overall Height of Fork at Full Lift (top of carriage to ground)	mm	5284
	Overall Height of Format Fair Lint (top of barriage to ground)	in	208.0
11	Clearance at Full Lift and Max Dump	mm in	2842 111.9
12	Max Discharge Angle from Horizontal	deg	47
13	Overall Carriage Width	mm	1504
	Overall Garriage Wilder	in	59.2
14	Overall Carriage Height	mm	1160 45.7
	- · · · · - · · · · · · · · · · · · · ·	in mm	1454
15	Outside Tine Width (max spread)	in	57.2
16	Outside Tine Width (min spread)	mm	1454
10	Outside Title Width (Hill Spread)	in	57.2
	Tine Width (single tine)	mm	300.0
		in mm	11.8 115.0
	Tine Thickness	in	4.5
	The Oriental	ka	26488
	Tine Capacity	lbs	58380
	Operating Weight	kg	33601
	Operating Freight	lbs	74056
	*Nonetice values indicate below and		





#### Capacity (kg) (Calculated Load at CG Point)

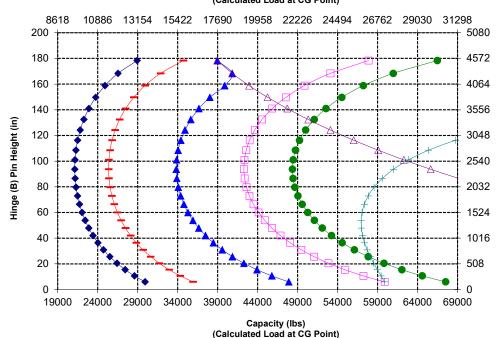


NOTE: Static tipping loads and operating weight are based on the following loader configuration: Bridgestone \*\* VJT L3 Tires, Air Conditioning, Ride Control, Powertrain Guard, Full Fluids, Fuel Tank, Coolant, Lubricants, and Operator.

Specifications and ratings conform to the following standards: SAE\* J1197, ISO 14397-1, CEN\*\* EN 474-3.

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





WARNING: Do not exceed tine load capacity. Individual tine capacity is stamped on the side of each tine.

<sup>\*</sup>Negative values indicate below grade



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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