

# 519/529/559/ 559B/569/579

## Knuckleboom Loaders



	519	529	559	559B	569	579
Cat® Diesel Engines	C6.6 Tier 3	C6.6 Tier 3	C6.6 Tier 3	C6.6 Tier 3	C6.6 Tier 3	C6.6 Tier 3
Gross Power	116.3 kW (156 hp)	116.3 kW (156 hp)	129.9 kW (173 hp)	124.5 kW (167 hp)	129.8 kW (173 hp)	129.8 kW (173 hp)
Knuckleboom Length	8.2 m (27 ft)	8.8 m (29 ft)	9.8 m (32 ft)	9.8 m (32 ft)	9.9 m (32 ft 6 in)	9.9 m (32 ft 6 in)
Operating Weight	8663 kg (19,099 lb)	12 655 kg (27,900 lb)	14 605 kg (32,200 lb)	14 605 kg (32,200 lb)	15 422 kg (34,000 lb)	15 422 kg (34,000 lb)



## Cat Knuckleboom Loader Features

### Power Train

Powerful Cat® engines meet applicable EPA emissions standards. Powerful inline 6 cylinder, four-stroke-cycle diesel provides smooth consistent power under challenging conditions in the forest.

### Engineered Performance

Cat loaders feature swing torque ratings up to nearly 108.4 kN-m (80,000 ft-lb). Combined with swing speeds up to 11 rpm, Cat loaders provide excellent performance in all applications from shortwood loading, to drag loading, and pull-through delimiting.

### Rugged Boom Design

Cat loader booms are built tough with welded high-strength steel. Delimiting booms feature heavy steel castings at the base end, stick end, and cylinder junctions of the main boom.

### Boom Reach

Boom reach ranges from 8.2 m (27 ft) on the 519 up to 10.9 m (36 ft) on the 579.

### Grapple Design

Continuous rotation grapples are constructed of wear resistant, high tensile steel with heavy-duty rotators designed for strenuous pull-through delimiting applications.

### Subframe Stability

Cat heavy-duty subframes are engineered for high reliability. Lock valves integrated into the stabilizer circuit reduce cylinder movement and increase stability. Wide stabilizer leg spread, large pad size and deep below grade reach provide a stable base.



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**Cat® trailer-mount knuckleboom loaders feature hydraulic systems that provides smooth performance and fuel efficiency.**

**High swing torque, swing speed and lift capacity reduce cycle times and lower cost per ton. The heavy-duty booms and structures provide reliable operation and reduce service costs. Spacious work stations, excellent visibility, and ergonomic controls reduce operator fatigue, resulting in a more productive shift.**

**A wide range of machine sizes with optional factory installed hydraulic packages are available to increase loader utilization. Options include bar slasher, circle saw slasher, delimber, carrier and grapple saw.**





# Operator Station

Unprecedented visibility and comfort

The operator station is designed with comfort in mind. The spacious cabs feature a large, fully adjustable suspension seat with lumbar support. Fold-up armrests are fully adjustable to allow adjustment of the joystick controls to match the operator for ease of operation and increased performance.

Excellent visibility of the work area is provided through large tinted cab windows. Overhead visibility is maximized through the large, tinted Lexan skylight. Operator protection is afforded through the front guard. This swing-out guard is designed for quick and simple access to allow cleaning of the front window.

559B Shown



# Hydraulic Packages

Factory installed hydraulic packages increase job site performance and versatility



Cat knuckleboom loader hydraulic systems are designed to satisfy the productivity demands of loggers.

## **519, 529 and 569**

The 519, 529 and 569 are equipped with a simple open-center hydraulic system with a triple section gear pump supplying the flow. This system is time tested and provides good performance and provides many different types of option packages, such as carrier hydraulics for millyard mobility, slasher hydraulics on the 519 for cutting trees into log lengths, and a Delimber/Slasher (DS) hydraulic package on the 569 for a complete timber merchandising machine.

The 529 features a unique “flow-on-demand” hydraulic system for the subframe hydraulic components like the stabilizers, slasher or delimber. This system directs flow and pressure to the subframe systems only when required for activating a function. This results in improved hydraulic efficiency, reduced heat and lower overall system horsepower demand when compared to a standard open-center system.

## **579**

The 579 is built around a high performance, closed center, load-sensing hydraulic system. This system provides fast cycle times and the best fuel economy for the highest production requirements.

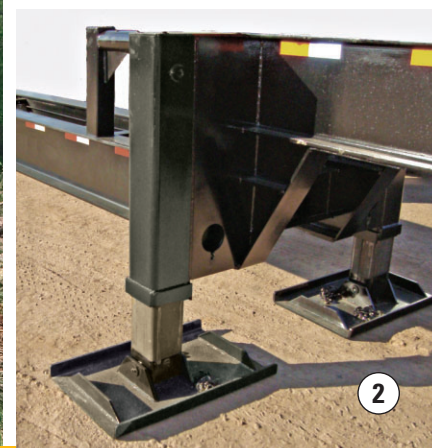
## **559/559B**

The 559/559B has an open-center, “Negicon” piston pump hydraulic system at its heart. This hydraulic system provides market leading performance and unmatched reliability which has allowed the 559/559B to be the market leading knuckleboom loader.

The 559 is a high performance Circle Saw Slasher machine. Added to the core hydraulic system is a dedicated, 246 L/min (65 gpm) piston pump to provide flow to the circle saw slasher that produces quick recovery of the saw blade to increase the system productivity.

Three operating modes are provided on the 559B allowing the operator to tailor his machine’s performance to match the job requirements. The “run” mode provides the best combination of fuel efficiency and performance; an “intermediate” position provides additional flow capabilities when higher production is required, and a “power” mode allows the full potential of the machine to come on-line to handle large timber and the heaviest delimiting requirements. All of the operating modes on the 559B provide the best multi-function ability, function response, control and fastest cycle times of any loader available in the market.





# Delimber-Slasher Package

## A complete factory installed timber merchandising system

The Delimber/Slasher (DS) package is a complete factory installed timber merchandising system consisting of a knuckleboom loader and grapple, trailer with trailer-mounted delimeter and an optional ground saw slasher and is available with all delimiting capable loaders – the 529, 559B, 569 and 579. The structural design on these loaders is proven to provide long life in punishing, pull-through delimiting applications.

A three-knife CTR 320 is standard on the package, or a four-knife CTR 426 pull-through delimeter is available as an option. These delimiters are designed to allow quick, easy loading of trees and produce clean, delimited stems in a flash. These delimiters also have central lubrication banks and ground-level oil fill for quick, easy service. An automatic chain tensioner simplifies maintenance and extends bar and chain life.

The standard delimiting trailer is built with structural reinforcing in critical areas for durability. This trailer features a roll-up gear for transport and a swing down delimiting foot for operation.

The optional delimiting trailer features a hydraulically adjustable landing gear that is adjustable from in cab controls. This feature allows the operator to quickly position the loader in a proper operating position, providing more production capability.

Knuckleboom Loader grapples are available in a wide variety of rotator types, jaw sizes and jaw configurations to suit a variety of material handling applications.

The CTR 107 Slasher is optional for the DS package. A load-sensing saw feed system delivers smooth, fast cutting cycles. This slasher is available in multiple bunk styles and can be customized for specific log-lengths.





# Complete Customer Care

Service you can count on

## **Product Support**

Cat dealers utilize a worldwide parts network to minimize machine downtime. Plus you can save money with Cat remanufactured components.

## **Machine Selection**

Make detailed comparisons of machines you are considering. What are the job requirements and machine attachments? What production is needed? Your Cat dealer can provide recommendations.

## **Purchase**

Consider financing options and day-to-day operating costs. Look at dealer services that can be included in the machine's cost to yield lower owning and operating costs over time.

## **Customer Support Agreements**

Cat dealers offer a variety of customer support agreements and work with you to develop a plan to meet specific needs. These plans can cover the entire machine, including attachments, to help protect your investment.

## **Operation**

Improving operating techniques can boost your profits. Your Cat dealer has videos, literature, and other ideas to help you increase productivity. Caterpillar also offers simulators and certified operator training to help maximize the return on your investment.

## **Replacement**

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

## Engine

Engine RPM (Rated)	
519	2,200
529	2,200
559	2,200
559B	1,850
569	2,200
579	2,200

## Weights

Operating Weight*		
519	8663 kg	19,099 lb
529	12 655 kg	27,900 lb
559	14 605 kg	32,200 lb
559B	14 605 kg	32,200 lb
569	15 422 kg	34,000 lb
579	15 422 kg	34,000 lb

Counterweight		
519	498.9 kg	1,100 lb
529	1496.8 kg	3,300 lb
559	635.0 kg	1,400 lb
559B	635.0 kg	1,400 lb
569	1392.5 kg	3,070 lb
579	1392.5 kg	3,070 lb

\* Wet, with standard boom, less options, carrier and grapple.

## Operating Specifications

Swing Bearing			
Diameter – OD			
519	109.2 cm	43 in	
529	109.2 cm	43 in	
559	129.5 cm	51 in	
559B	129.5 cm	51 in	
569	137.2 cm	54 in	
579	137.2 cm	54 in	

Stabilizers (4) – Pad Size			
519	55.8 cm × 66 cm	22 in × 26 in	
529	55.8 cm × 55 cm	22 in × 23 in	
559	55.8 cm × 71 cm	22 in × 28 in	
559B	55.8 cm × 71 cm	22 in × 28 in	
569	55.8 cm × 66 cm	22 in × 26 in	
579	55.8 cm × 66 cm	22 in × 26 in	

## Service Refill Capacities

Fuel		
519	268.8 L	71 gal
529	276.3 L	73 gal
559	379 L	100 gal
559B	379 L	100 gal
569	336.9 L	89 gal
579	336.9 L	89 gal

Hydraulic		
519	132.5 L	35 gal
529	295.3 L	78 gal
559	302.8 L	80 gal
559B	302.8 L	80 gal
569	246.0 L	65 gal
579	246.0 L	65 gal

## Hydraulic System

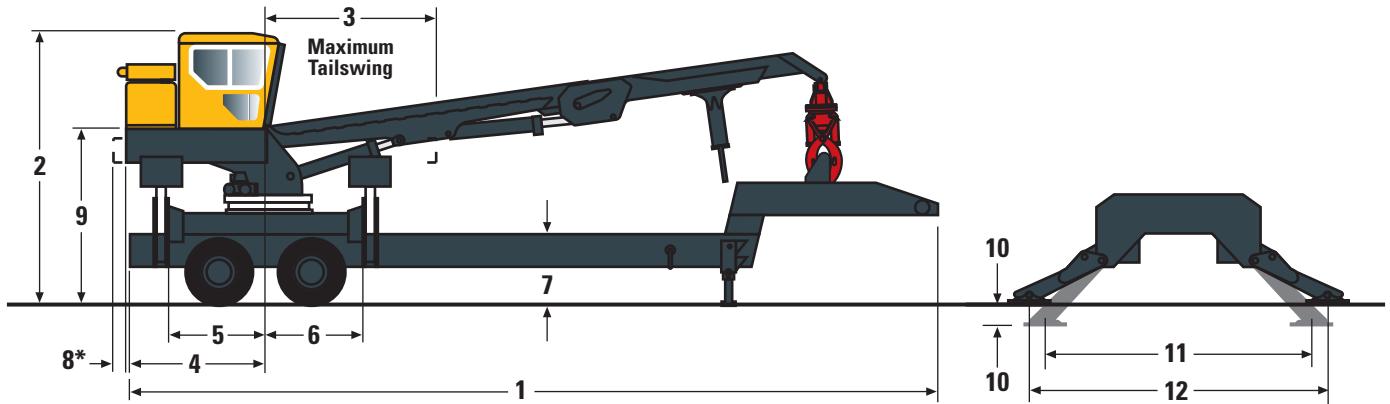
Flows @ Rated Speed		
519	166, 124, 83 L/min	44, 33, 22 gal/min
529	193, 158, 124 L/min	51, 42, 33 gal/min
559	416 L/min	110 gal/min
559B	416 L/min	110 gal/min
569	215, 155, 124 L/min	57, 41, 33 gal/min
579	393 L/min	104 gal/min

System Pressure		
519	15 513 kPa	2,250 psi
529	18 960 kPa	2,750 psi
559	24 131 kPa	3,500 psi
559B	24 131 kPa	3,500 psi
569	17 236 kPa	2,500 psi
579	24 131 kPa	3,500 psi

Swing Speed	
519	8 rpm
529	8 rpm
559	11 rpm
559B	11 rpm
569	7 rpm
579	9 rpm

# Specifications

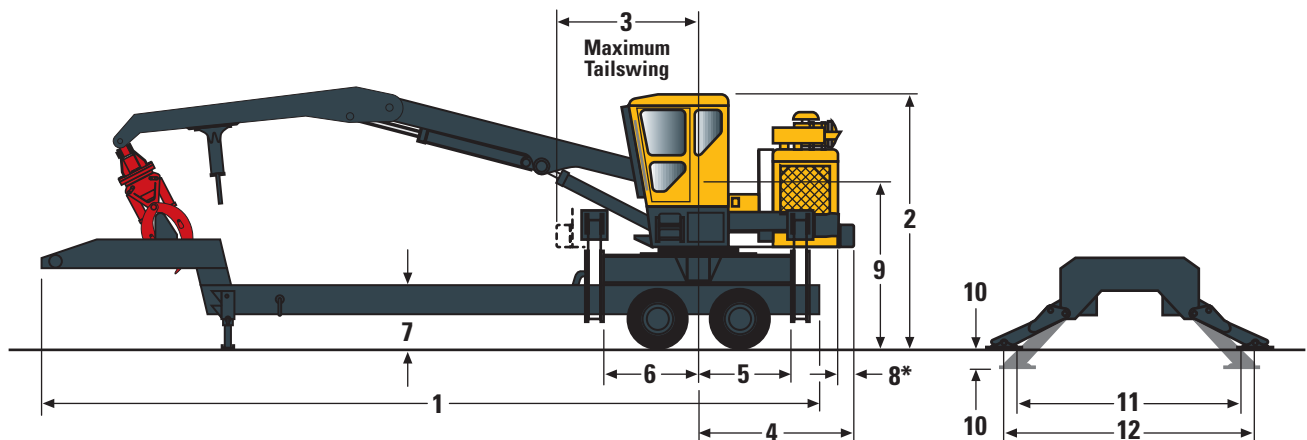
## Machine Dimensions for 519, 529 and 559/559B



	519		529		559/559B		569		579	
	cm	in	cm	in	cm	in	cm	in	cm	in
1	1127.8	444.00	1219.2	480.00	1219.2	480.00	1219.2	480.00	1219.2	480.00
2	401.3	158.00	404.5	159.25	401.6	158.10	398.8	157.00	398.8	157.00
3	256.5	101.00	248.9	98.00	252.7	99.50	248.9	98.00	248.9	98.00
4	228.6	90.00	232.0	91.34	227.8	89.70	238.1	93.75	238.1	93.75
5	137.2	54.00	152.4	60.00	152.4	60.00	152.4	60.00	152.4	60.00
6	137.2	54.00	152.4	60.00	152.4	60.00	152.4	60.00	152.4	60.00
7	99.1	39.00	99.1	39.00	99.1	39.00	99.1	39.00	99.1	39.00
8*	10.2	4.00	24.1	9.50	7.6	3.00	27.3	10.75	27.3	10.75
9	238.8	94.00	246.4	97.00	246.4	97.00	269.2	106.00	269.2	106.00
10	35.6	14.00	36.0	14.18	41.9	16.50	39.4	15.50	39.4	15.50
11	416.6	164.00	392.0	154.35	425.4	167.47	454.7	179.00	454.7	179.00
12	457.2	180.00	447.0	176.00	495.3	195.70	495.3	195.00	495.3	195.00

\* Add for counterweight

## Machine Dimensions for 569 and 579



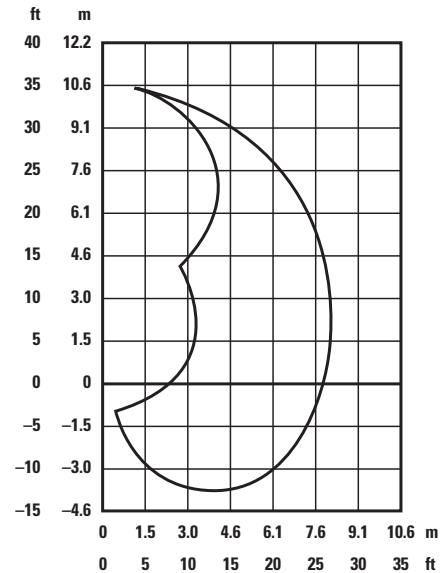


## Machine Lift Charts – 8.2 m (27 ft) Knuckleboom – 519 Model

### Notes

Do not attempt to lift or hold any load that is greater than the rated values over the end or side. The weight of the grapple and all lifting accessories must be deducted from lift capacities shown.

1. The over end capacities and over side capacities do not exceed 87% of hydraulic limited capacity or 75% of stability limited capacity.
2. The lift point is located at the grapple knuckle pin.
3. Lift capacities are based on the machine standing on firm, uniform supporting surface. User must make allowances for job site conditions.
4. Operator should be fully acquainted with the Operator's Manual and all safety instructions furnished by Caterpillar Inc. prior to operating the machine.
5. Lift capacities are in compliance with SAE J2417, "Lift Capacity Calculation Method – Knuckleboom Log Loaders and Certain Forestry Equipment."



	3 m (10 ft)		4.6 m (15 ft)		6.1 m (20 ft)		7.6 m (25 ft)		Max Reach		
	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	
<b>9.1 m (30 ft)</b>			<b>4574.6</b>	<b>10,085</b>							<b>100% Hyd</b>
			3979.9	8,774							Over End
			3979.9	8,774							Over Side
<b>7.6 m (25 ft)</b>			<b>5208.7</b>	<b>11,483</b>	<b>4076.5</b>	<b>8,978</b>					<b>100% Hyd</b>
			4531.5	9,990	3543.1	7,811					Over End
			4531.5	9,990	3543.1	7,811					Over Side
<b>6.1 m (20 ft)</b>			<b>5246.8</b>	<b>11,567</b>	<b>4611.3</b>	<b>10,166</b>					<b>100% Hyd</b>
			4564.6	10,063	4011.6	8,844					Over End
			4564.6	10,063	4011.6	8,844					Over Side
<b>4.6 m (15 ft)</b>			<b>5673.2</b>	<b>12,507</b>	<b>4742.4</b>	<b>10,455</b>	<b>3954.5</b>	<b>8,718</b>	<b>1850.2</b>	<b>4,079</b>	<b>100% Hyd</b>
			4935.6	10,881	4125.9	9,096	3440.5	7,585	1609.8	3,549	Over End
			4935.6	10,881	4125.9	9,096	3215.1	*7,088	1609.8	3,549	Over Side
<b>3 m (10 ft)</b>			<b>6305.5</b>	<b>13,901</b>	<b>5545.7</b>	<b>12,226</b>	<b>3920.5</b>	<b>8,643</b>	<b>1776.5</b>	<b>3,917</b>	<b>100% Hyd</b>
			5485.8	12,094	4824.9	10,637	3410.6	7,519	1545.9	3,408	Over End
			5485.8	12,094	4582.7	*10,103	3188.3	*7,029	1545.9	3,408	Over Side
<b>1.5 m (5 ft)</b>			<b>8720.0</b>	<b>*19,224</b>	<b>6520.5</b>	<b>14,375</b>	<b>4068.3</b>	<b>8,969</b>	<b>1771.3</b>	<b>3,905</b>	<b>100% Hyd</b>
			7586.5	*16,725	5672.7	12,506	3539.4	7,803	1540.9	3,397	Over End
			7369.7	*16,247	4106.9	*9,054	3152.5	*6,950	1540.9	3,397	Over Side
<b>0 m (0 ft)</b>	<b>4373.2</b>	<b>9,641</b>	<b>8341.2</b>	<b>*18,389</b>	<b>6061.9</b>	<b>13,364</b>	<b>3553.0</b>	<b>7,833</b>			<b>100% Hyd</b>
	3804.8	8,388	7256.7	*15,998	5274.0	11,627	3091.3	6,815			Over End
	3804.8	8,388	7186.4	*15,843	4395.4	*9,690	3091.3	6,815			Over Side
<b>-1.5 m (-5 ft)</b>	<b>6371.3</b>	<b>14,046</b>	<b>6789.5</b>	<b>14,968</b>	<b>4688.8</b>	<b>10,337</b>					<b>100% Hyd</b>
	5543.0	12,220	5906.8	13,022	4079.2	8,993					Over End
	5543.0	12,220	5906.8	13,022	4079.2	8,993					Over Side
<b>-3 m (-10 ft)</b>	<b>4980.1</b>	<b>10,979</b>	<b>3743.6</b>	<b>8,253</b>	<b>1100.0</b>	<b>2,425</b>					<b>100% Hyd</b>
	4332.8	9,552	3256.8	7,180	957.1	2,110					Over End
	4332.8	9,552	3256.8	7,180	957.1	2,110					Over Side

\* Stability limited capacities

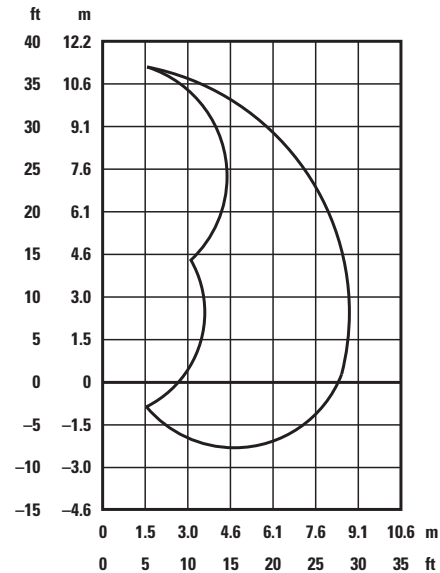
# Specifications

## Machine Lift Charts – 8.8 m (29 ft) Knuckleboom – 529 Model

### Notes

Do not attempt to lift or hold any load that is greater than the rated values over the end or side. The weight of the grapple and all lifting accessories must be deducted from lift capacities shown.

1. The over end capacities and over side capacities do not exceed 87% of hydraulic limited capacity or 75% of stability limited capacity.
2. The lift point is located at the grapple knuckle pin.
3. Lift capacities are based on the machine standing on firm, uniform supporting surface. User must make allowances for job site conditions.
4. Operator should be fully acquainted with the Operator's Manual and all safety instructions furnished by Caterpillar Inc. prior to operating the machine.
5. Lift capacities are in compliance with SAE J2417, "Lift Capacity Calculation Method – Knuckleboom Log Loaders and Certain Forestry Equipment."



	3 m (10 ft)		4.6 m (15 ft)		6.1 m (20 ft)		7.6 m (25 ft)		Max Reach		
	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	
<b>9.1 m (30 ft)</b>			<b>5591.9</b>	<b>12,328</b>							<b>100% Hyd</b>
			4864.8	10,725							Over End
			4864.8	10,725							Over Side
<b>7.6 m (25 ft)</b>			<b>5854.1</b>	<b>12,906</b>	<b>5136.6</b>	<b>11,324</b>					<b>100% Hyd</b>
			5093.1	11,228	4468.8	9,852					Over End
			5093.1	11,228	4468.8	9,852					Over Side
<b>6.1 m (20 ft)</b>			<b>5896.7</b>	<b>13,000</b>	<b>5481.7</b>	<b>12,085</b>	<b>4159.5</b>	<b>9,170</b>			<b>100% Hyd</b>
			5130.2	11,310	4769.2	10,514	3618.8	7,978			Over End
			5130.2	11,310	4769.2	10,514	3618.8	7,978			Over Side
<b>4.6 m (15 ft)</b>			<b>6384.8</b>	<b>14,076</b>	<b>5641.8</b>	<b>12,438</b>	<b>4650.8</b>	<b>10,253</b>	<b>2379.5</b>	<b>5,246</b>	<b>100% Hyd</b>
			5554.7	12,246	4908.4	10,821	4046.1	8,920	2070.2	4,564	Over End
			5554.7	12,246	4908.4	10,821	4046.1	8,920	2070.2	4,564	Over Side
<b>3 m (10 ft)</b>			<b>7557.4</b>	<b>16,661</b>	<b>6542.2</b>	<b>14,423</b>	<b>5072.6</b>	<b>11,183</b>	<b>2344.2</b>	<b>5,168</b>	<b>100% Hyd</b>
			6574.8	14,495	5691.7	12,548	4413.1	9,729	2039.4	4,496	Over End
			6574.8	14,495	5691.7	12,548	4413.1	9,729	2039.4	4,496	Over Side
<b>1.5 m (5 ft)</b>			<b>8857.8</b>	<b>19,528</b>	<b>6573.1</b>	<b>14,491</b>	<b>4963.7</b>	<b>10,943</b>	<b>2355.9</b>	<b>5,194</b>	<b>100% Hyd</b>
			7706.2	16,989	5718.5	12,607	4318.2	9,520	2049.8	4,519	Over End
			7706.2	16,989	5718.5	12,607	4318.2	9,520	2049.8	4,519	Over Side
<b>0 m (0 ft)</b>	<b>6924.5</b>	<b>15,266</b>	<b>8425.6</b>	<b>18,575</b>	<b>6101.3</b>	<b>13,451</b>	<b>4259.8</b>	<b>9,391</b>			<b>100% Hyd</b>
	6024.2	13,281	7330.2	16,160	5308.1	11,702	3705.9	8,170			Over End
	6024.2	13,281	7330.2	16,160	5308.1	11,702	3705.9	8,170			Over Side
<b>-1.5 m (-5 ft)</b>	<b>7980.1</b>	<b>17,593</b>	<b>6807.2</b>	<b>15,007</b>	<b>4782.3</b>	<b>10,543</b>					<b>100% Hyd</b>
	6942.8	15,306	5922.2	13,056	4160.4	9,172					Over End
	6942.8	15,306	5922.2	13,056	4160.4	9,172					Over Side

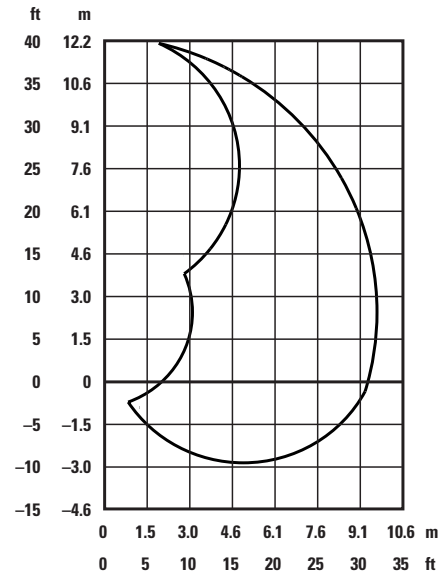


## Machine Lift Charts – 9.8 m (32 ft) Knuckleboom – 559/559B Model

### Notes

Do not attempt to lift or hold any load that is greater than the rated values over the end or side. The weight of the grapple and all lifting accessories must be deducted from lift capacities shown.

1. The over end capacities and over side capacities do not exceed 87% of hydraulic limited capacity or 75% of stability limited capacity.
2. The lift point is located at the grapple knuckle pin.
3. Lift capacities are based on the machine standing on firm, uniform supporting surface. User must make allowances for job site conditions.
4. Operator should be fully acquainted with the Operator's Manual and all safety instructions furnished by Caterpillar Inc. prior to operating the machine.
5. Lift capacities are in compliance with SAE J2417, "Lift Capacity Calculation Method – Knuckleboom Log Loaders and Certain Forestry Equipment."



	3 m (10 ft)		4.6 m (15 ft)		6.1 m (20 ft)		7.6 m (25 ft)		9.1 m (30 ft)		9.8 m (32 ft)		
	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	
<b>10.6 m (35 ft)</b>			<b>5687.1</b>	<b>12,538</b>									<b>100% Hyd</b>
			4947.8	10,908									Over End
			4947.8	10,908									Over Side
<b>9.1 m (30 ft)</b>					<b>5398.7</b>	<b>11,902</b>							<b>100% Hyd</b>
					4696.9	10,355							Over End
					4696.9	10,355							Over Side
<b>7.6 m (25 ft)</b>					<b>5630.9</b>	<b>12,414</b>	<b>4732.4</b>	<b>10,433</b>					<b>100% Hyd</b>
					4898.8	10,800	4117.3	9,077					Over End
					4898.8	10,800	4117.3	9,077					Over Side
<b>6.1 m (20 ft)</b>					<b>5751.1</b>	<b>12,679</b>	<b>5133.3</b>	<b>11,317</b>					<b>100% Hyd</b>
					5003.6	11,031	4466.1	9,846					Over End
					5003.6	11,031	4466.1	9,846					Over Side
<b>4.6 m (15 ft)</b>			<b>7265.2</b>	<b>16,017</b>	<b>6594.8</b>	<b>14,539</b>	<b>5594.2</b>	<b>12,333</b>	<b>4182.6</b>	<b>9,221</b>	<b>2665.8</b>	<b>5,877</b>	<b>100% Hyd</b>
			6320.8	13,935	5737.5	12,649	4867.1	10,730	3638.7	8,022	2319.2	5,113	Over End
			6320.8	13,935	5737.5	12,649	4867.1	10,730	3631.9	*8,007	2319.2	5,113	Over Side
<b>3 m (10 ft)</b>			<b>9105.9</b>	<b>20,075</b>	<b>7195.8</b>	<b>15,864</b>	<b>5946.1</b>	<b>13,109</b>	<b>4455.2</b>	<b>9,822</b>	<b>2691.2</b>	<b>5,933</b>	<b>100% Hyd</b>
			7921.9	17,465	6260.5	13,802	5173.6	11,405	3875.9	8,522	2341.4	5,162	Over End
			7921.9	17,465	6260.5	13,802	5173.6	*10,851	3582.2	7,897	2341.4	5,162	Over Side
<b>1.5 m (5 ft)</b>			<b>10 155.1</b>	<b>22,300</b>	<b>7591.8</b>	<b>16,737</b>	<b>6015.5</b>	<b>13,262</b>	<b>4253.4</b>	<b>9,377</b>	<b>2797.8</b>	<b>6,168</b>	<b>100% Hyd</b>
			8800.2	19,401	6604.8	14,561	5233.5	11,538	3700.5	8,158	2433.9	5,366	Over End
			8800.2	19,401	6604.8	14,561	4776.4	*10,530	3526.7	*7,775	2433.9	5,366	Over Side
<b>0 m (0 ft)</b>	<b>8249.5</b>	<b>18,187</b>	<b>10 288.4</b>	<b>22,682</b>	<b>7553.7</b>	<b>16,653</b>	<b>5758.4</b>	<b>12,695</b>	<b>3705.9</b>	<b>8,170</b>			<b>100% Hyd</b>
	7177.2	15,823	8950.8	19,733	6571.7	14,488	5009.9	11,045	3224.2	7,108			Over End
	7177.2	15,823	8950.8	19,733	6571.7	14,488	4667.5	*10,290	3224.2	7,108			Over Side
<b>-1.5 m (-5 ft)</b>	<b>8217.3</b>	<b>18,116</b>	<b>9281.9</b>	<b>20,463</b>	<b>6782.6</b>	<b>14,953</b>	<b>4870.2</b>	<b>10,737</b>					<b>100% Hyd</b>
	7149.1	15,761	8075.4	17,803	5900.8	13,009	4237.0	9,341					Over End
	7149.1	15,761	8075.4	17,803	5900.8	13,009	4237.0	9,341					Over Side

\* Stability limited capacities

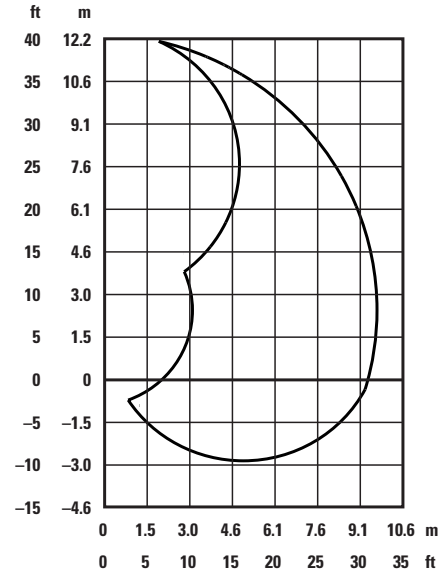
# Specifications

## Machine Lift Charts – 9.9 m (32 ft 6 in) Knuckleboom – 569 Model

### Notes

Do not attempt to lift or hold any load that is greater than the rated values over the end or side. The weight of the grapple and all lifting accessories must be deducted from lift capacities shown.

1. The over end capacities and over side capacities do not exceed 87% of hydraulic limited capacity or 75% of stability limited capacity.
2. The lift point is located at the grapple knuckle pin.
3. Lift capacities are based on the machine standing on firm, uniform supporting surface. User must make allowances for job site conditions.
4. Operator should be fully acquainted with the Operator's Manual and all safety instructions furnished by Caterpillar Inc. prior to operating the machine.
5. Lift capacities are in compliance with SAE J2417, "Lift Capacity Calculation Method – Knuckleboom Log Loaders and Certain Forestry Equipment."



	3 m (10 ft)		4.6 m (15 ft)		6.1 m (20 ft)		7.6 m (25 ft)		9.1 m (30 ft)		Max Reach		
	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	
<b>10.6 m (35 ft)</b>			<b>5286.7</b>	<b>11,655</b>									<b>100% Hyd</b>
			4599.5	10,140									Over End
			4599.5	10,140									Over Side
<b>9.1 m (30 ft)</b>					<b>4972.9</b>	<b>10,963</b>							<b>100% Hyd</b>
					4326.4	9,538							Over End
					4326.4	9,538							Over Side
<b>7.6 m (25 ft)</b>					<b>5758.4</b>	<b>12,695</b>	<b>4410.8</b>	<b>9,724</b>					<b>100% Hyd</b>
					5010.0	11,045	3937.4	8,460					Over End
					5010.0	11,045	3937.4	8,460					Over Side
<b>6.1 m (20 ft)</b>					<b>6363.5</b>	<b>14,029</b>	<b>5428.7</b>	<b>11,968</b>					<b>100% Hyd</b>
					5536.2	12,205	4722.9	10,412					Over End
					5536.2	12,205	4722.9	10,412					Over Side
<b>4.6 m (15 ft)</b>			<b>7299.3</b>	<b>16,092</b>	<b>6877.5</b>	<b>15,162</b>	<b>6073.2</b>	<b>13,389</b>	<b>2767.9</b>	<b>6,102</b>			<b>100% Hyd</b>
			6350.4	14,000	5983.4	13,191	5283.5	11,648	2408.2	5,309			Over End
			6350.4	14,000	5983.4	13,191	5283.5	11,648	2408.2	5,309			Over Side
<b>3 m (10 ft)</b>			<b>9814.5</b>	<b>21,637</b>	<b>8452.4</b>	<b>18,634</b>	<b>6934.2</b>	<b>15,287</b>	<b>3974.0</b>	<b>8,761</b>	<b>2324.2</b>	<b>5,124</b>	<b>100% Hyd</b>
			8538.6	18,824	7353.8	16,212	6032.9	13,300	3457.3	7,622	2022.1	4,458	Over End
			8538.6	18,824	7353.8	16,212	6032.9	13,300	3457.3	7,622	2022.1	4,458	Over Side
<b>1.5 m (5 ft)</b>	<b>18 436.1</b>	<b>40,644</b>	<b>12 083.4</b>	<b>26,639</b>	<b>9112.8</b>	<b>20,090</b>	<b>7295.7</b>	<b>16,084</b>	<b>4668.4</b>	<b>10,292</b>	<b>2366.0</b>	<b>5,216</b>	<b>100% Hyd</b>
	16 039.3	35,360	10 512.6	23,176	7928.0	17,478	6347.2	13,993	4061.5	8,954	2058.4	4,538	Over End
	16 039.3	35,360	10 512.6	23,176	7928.0	17,478	6347.2	13,993	4061.5	8,954	2058.4	4,538	Over Side
<b>0 m (0 ft)</b>	<b>10 192.8</b>	<b>22,471</b>	<b>12 622.8</b>	<b>27,828</b>	<b>9241.6</b>	<b>20,374</b>	<b>7086.8</b>	<b>15,644</b>	<b>4947.4</b>	<b>10,907</b>	<b>2480.3</b>	<b>5,468</b>	<b>100% Hyd</b>
	8867.9	19,550	10 981.6	24,210	8040.1	17,725	6173.5	13,610	4304.2	9,489	2157.8	4,757	Over End
	8867.9	19,550	10 981.6	24,210	8040.1	17,725	6173.5	13,610	4304.2	9,489	2157.8	4,757	Over Side
<b>-1.5 m (-5 ft)</b>	<b>9419.5</b>	<b>20,766</b>	<b>11 628.5</b>	<b>25,636</b>	<b>8447.8</b>	<b>18,624</b>	<b>6120.4</b>	<b>13,493</b>	<b>4361.8</b>	<b>9,616</b>			<b>100% Hyd</b>
	8194.7	18,066	10 116.6	22,303	7349.7	16,203	5324.8	11,739	3794.8	8,366			Over End
	8194.7	18,066	10 116.6	22,303	7349.7	16,203	5324.8	11,739	3794.8	8,366			Over Side

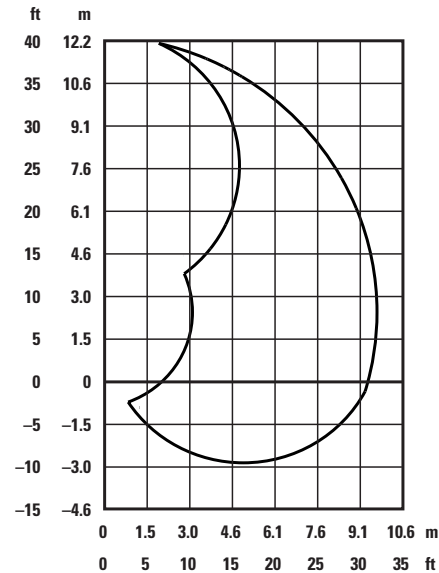


## Machine Lift Charts – 9.9 m (32 ft 6 in) Knuckleboom – 579 Model

### Notes

Do not attempt to lift or hold any load that is greater than the rated values over the end or side. The weight of the grapple and all lifting accessories must be deducted from lift capacities shown.

1. The over end capacities and over side capacities do not exceed 87% of hydraulic limited capacity or 75% of stability limited capacity.
2. The lift point is located at the grapple knuckle pin.
3. Lift capacities are based on the machine standing on firm, uniform supporting surface. User must make allowances for job site conditions.
4. Operator should be fully acquainted with the Operator's Manual and all safety instructions furnished by Caterpillar Inc. prior to operating the machine.
5. Lift capacities are in compliance with SAE J2417, "Lift Capacity Calculation Method – Knuckleboom Log Loaders and Certain Forestry Equipment."



	3 m (10 ft)		4.6 m (15 ft)		6.1 m (20 ft)		7.6 m (25 ft)		9.1 m (30 ft)		Max Reach		
	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	
<b>10.6 m (35 ft)</b>			<b>6514.1</b>	<b>14,361</b>									<b>100% Hyd</b>
			5667.3	12,494									Over End
			5667.3	12,494									Over Side
<b>9.1 m (30 ft)</b>					<b>6142.2</b>	<b>13,541</b>							<b>100% Hyd</b>
					5343.8	11,781							Over End
					5343.8	11,781							Over Side
<b>7.6 m (25 ft)</b>					<b>6077.8</b>	<b>13,399</b>	<b>5470.4</b>	<b>12,060</b>					<b>100% Hyd</b>
					5287.6	11,657	4759.2	10,492					Over End
					5287.6	11,657	4759.2	10,492					Over Side
<b>6.1 m (20 ft)</b>					<b>6246.1</b>	<b>13,770</b>	<b>5763.0</b>	<b>12,705</b>	<b>3497.7</b>	<b>7,711</b>			<b>100% Hyd</b>
					5434.1	11,980	5013.6	11,053	3043.2	6,709			Over End
					5434.1	11,980	5013.6	11,053	3043.2	6,709			Over Side
<b>4.6 m (15 ft)</b>			<b>7689.4</b>	<b>16,952</b>	<b>7085.2</b>	<b>15,620</b>	<b>6041.0</b>	<b>13,318</b>	<b>4944.0</b>	<b>10,914</b>	<b>2967.0</b>	<b>6,541</b>	<b>100% Hyd</b>
			6689.7	14,748	6164.0	13,589	5255.9	11,587	4306.9	9,495	2581.4	5,691	Over End
			6689.7	14,748	6164.0	13,589	5255.9	11,587	4306.9	9,495	2581.4	5,691	Over Side
<b>3 m (10 ft)</b>			<b>10 201.0</b>	<b>22,489</b>	<b>9232.1</b>	<b>20,353</b>	<b>7230.4</b>	<b>15,940</b>	<b>5247.7</b>	<b>11,569</b>	<b>3019.2</b>	<b>6,656</b>	<b>100% Hyd</b>
			8874.7	19,565	8031.9	17,707	6290.5	13,868	4565.5	10,065	2626.8	5,791	Over End
			8874.7	19,565	8031.9	17,707	6290.5	13,868	4565.5	10,065	2626.8	5,791	Over Side
<b>1.5 m (5 ft)</b>	<b>21 356.8</b>	<b>47,083</b>	<b>14 054.3</b>	<b>30,984</b>	<b>10 646.4</b>	<b>23,471</b>	<b>8611.6</b>	<b>18,885</b>	<b>5083.1</b>	<b>11,221</b>	<b>3164.3</b>	<b>6,976</b>	<b>100% Hyd</b>
	18 580.4	40,962	12 227.2	26,956	9262.5	20,420	7452.6	16,430	4428.0	9,762	2752.9	6,069	Over End
	18 580.4	40,962	12 227.2	26,956	9262.5	20,420	6731.0	*14,839	4428.0	9,762	2752.9	6,069	Over Side
<b>0 m (0 ft)</b>	<b>10 070.8</b>	<b>22,202</b>	<b>14 724.3</b>	<b>32,461</b>	<b>10 824.7</b>	<b>23,864</b>	<b>8356.2</b>	<b>18,422</b>	<b>4487.0</b>	<b>9,892</b>			<b>100% Hyd</b>
	8761.7	19,316	12 810.1	28,241	9417.6	20,762	7269.8	16,027	3903.7	8,606			Over End
	8761.7	19,316	12 810.1	28,241	9417.6	20,762	6630.3	*14,617	3903.7	8,606			Over Side
<b>-1.5 m (-5 ft)</b>	<b>9314.2</b>	<b>20,534</b>	<b>13 622.5</b>	<b>30,032</b>	<b>9940.6</b>	<b>21,915</b>	<b>7256.7</b>	<b>15,998</b>					<b>100% Hyd</b>
	8103.6	17,865	11 851.7	26,128	8648.3	19,066	6313.2	13,918					Over End
	8103.6	17,865	11 851.7	26,128	8648.3	19,066	6313.2	13,918					Over Side

\* Stability limited capacities

# Standard Equipment

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

## ENGINES AND DRIVE LINE

Cat® C6.6 116.3 kW (156 hp) Tier 3  
Compliant (519/529)

Cat® C6.6 124.5 kW (167 hp) Tier 3  
Compliant (559B)

Cat® C6.6 129.8 kW (173 hp) Tier 3  
Compliant (559/569/579)

## Electrical

12 V System

Circuit Breaker Protection

Master Electrical Disconnect Switch

Electronic Monitoring System  
(559B/569/579)

2 Cab Mounted Work Lights

Boom Lights (569/579)

## Pump Drive

Direct

## OPERATORS STATION

97.8 cm × 142.2 cm (38.5 in × 56 in)

Right Side Mounted with Isolation Pads  
(519/529/559/559B)

94.0 cm × 127 cm (37 in × 50 in) Left Side  
Mounted with Isolation Pads (569/579)

Tinted Safety Glass Windows, Lexan  
Skylight, Sun Visor

Fully Adjustable Seat with Fold-up Armrest

Operator Protection Guard

Pressurized Cab with Heat/Air Conditioning

Integral Heat/AC Ductwork

Analog Gauges (519/529/559/559B)

Electronic Gauges (559B/569/579)

Windshield Wiper/Washer

Horn

Defroster Fan

12V Power Point

Dome Light

Fire Extinguisher

Sliding Cab Window

Radio Ready (Speakers, AM/FM Antenna)

In Cab Controls for Hydraulic Trailer (559B)

## HYDRAULIC SYSTEM

3 In-line Gear Pumps, Pilot Pump  
(519/529/569)

Two Variable Displacement Axial Piston  
Pumps, Pilot Pump (559/559B/579)

Dedicated Circle Saw Piston Pump –  
246 L/min (65 gpm) (559)

## Swing Motor

Radial Piston Motor (519)

Axial Piston Motor (529/559B/569/579)

## Controls

Pilot Joysticks, Electric Stabilizer Controls

Dual Swing Pedals (579)

Single Rocker Type Swing Pedal  
(519/529/559B/569)

## Performance

Three Position Mode Selection Switch  
(559B)

## Filtration

Single Element Return Filter  
(519/529/559/559B)

Two Single Element Return Filters  
(569/579)

Case Drain Filters (529/559/559B/579)

Saw Return Filters (529/559/559B/579)

## Swivel

Steel Barrel with Durabar Core

## Serviceability

Diagnostic nipples on pumps

Electric Hydraulic Oil Fill Pump  
(529/559/559B)

## Auxiliary Hydraulics

Bar Slasher/Delimiter Hydraulics  
(529/559B)

Circle Saw/Delimiter Hydraulics (559)

## STRUCTURAL

### Upper Frame

48.3 cm (19 in) Fixed Mount Cab Riser –  
3.6 m (12 ft) Eye Level (569/579)

### Booms

8.2 m (27 ft) Knuckleboom (519)

8.8 m (29 ft) Knuckleboom (529)

9.8 m (32 ft) Knuckleboom (559B)

9.9 m (32 ft 6 in) Knuckleboom (569/579)

### Grapple Mounting Knuckle

22.9 cm (9 in) Length

### Lower Frame

Bolt-on Skid Resistant Fenders

Two Wide Tread Ladders

### Turntable Mounting

Centered Turntable



Optional equipment may vary. Consult your Cat dealer for details.

## ENGINES AND DRIVE LINE

### Electrical

Boom Lights (519/529/559/559B)

## OPERATORS STATION

AM/FM/CD Radio (519/569/579)

AM/FM/CD Radio/Satellite Radio  
(529/559/559B)

## HYDRAULIC SYSTEM

### Auxiliary Hydraulics

Bar Slasher/Hydraulics (519)

Bar Slasher/Delimiter Hydraulics (569/579)

Circle Saw Hydraulics (519/579)

Carrier Hydraulics (519/569/579)

Delimiter/Carrier/Bar Slasher Hydraulic  
Package (569/579)

Grapple Saw Hydraulics (559B)

## STRUCTURAL

### Upper Frame

91.4 cm (36 in) Hydraulic Tilt Cab Riser –  
4.1 m (13 ft 5 in) Eye Level (569/579)

139.7 cm (55 in) Fixed Mount Cab Riser –  
4.6 m (15 ft) Eye Level (569/579)

### Booms

9.1 m (30 ft) Knuckleboom (519)

9.1 m (30 ft) Tuckaway Live  
Heel Boom (519)

9.8 m (32 ft) Live Heel Boom (559/559B)

10.2 m (33 ft 6 in) Live Heel Boom (569/579)

11.0 m (36 ft) Knuckleboom (569/579)

### Heels

Single “V” Heel

Double “VV” Heel

### Grapple Mounting Knuckle

30.5 cm (12 in) Length – use with live  
heel booms (559/559B/569/579)

### Turntable Mounting

58.4 cm (23 in) Rear Offset (519)

DS Package with Standard Trailer  
(529/559/559B/569/579)

DS Package with Hydraulic Trailer  
(559/559B/579)

# Knuckleboom Loaders

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at [www.cat.com](http://www.cat.com)

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