



# Cat<sup>®</sup> 559D/579D

## *Knuckleboom Loaders*

### Performance

- The Cat<sup>®</sup> C4.4 ACERT™ U.S. EPA Tier 4 Final engine provides equivalent power (129.3 kW/173 hp) and optimized performance compared to C Series while minimizing overall fluid consumption
- Advanced controls manage pump and engine interface to optimize performance and fuel efficiency
- Leading hydraulic multi-functioning capability enables operator to lift, swing, and rotate grapple simultaneously without impairing performance

### Efficiency

- Auto idle minimizes fuel consumption when machine is on and not actively working
- High capacity cooling system only pulls in cool external air to maximize efficiency
- Electrically controlled variable speed fan is modulated to provide cooling only as required, reducing fluid consumption

### Comfort

- Smooth hydraulic controls and superior balance provide market leading comfort and controllability
- High capacity HVAC system provides dependable cooling and heating for maximum comfort
- Improved stabilizer controls to equalize stabilizer actuation resulting in optimized uniformity of footing in varying ground conditions

### Safety

- Stabilizer movement alarm alerts bystanders of stabilizer movement
- Pilot enable alarm alerts bystanders when pilot function is engaged
- Ground level access of engine, fuel, pilot, and case drain filters as well as electrical service box

### Durability

- Reinforced fabricated booms with optimized cross sections designed to withstand heavy side-to-side delimiting applications and maximize lift capability
- Field proven cooling system keeps engine and robust hydraulic system cool, extending component life
- Larger diameter pins feature heavy-duty plating for improved durability and excluder seals to retain grease and keep free of SP contaminant

### Serviceability

- Single cylinder main boom has fewer parts to service than traditional dual cylinder lift system
- Standard electric fill pump for hydraulic oil is at ground level for safe, easy service
- Hinged doors provide industry-leading access to core components, daily check points, and service locations

### Cat Work Tools

- Optimized Cat XT™-6 ToughGuard™ hose routings on **GLK Series** grapple designed to minimize loosening of fittings and improve hose life
- Larger **GLK Series** cylinder pins and bushings reduce bearing stress by 25 percent
- Available now in both a TW “Tapered Wide” and SN “Straight Narrow,” the **GLK Series** grapple is suitable for additional applications
- Standard hold valves on **GLK Series** log grapples improve log retention
- **GLK Series** grapples feature optional three port swivel which allows mounting of grapple saw
- **DLK426** delimeter knives now have larger diameter pins that reduce bearing stress by 12 percent



# Cat® 559D/579D Knuckleboom Loaders

	Engine			
	559D		579D	
Engine Model	Cat C4.4 ACERT		Cat C4.4 ACERT	
Gross Power at 1,800 rpm	129.3 kW	173 hp	129.3 kW	173 hp

	Weights			
	559D		579D	
Operating Weight without Grapple	15 331 kg	33,800 lb	16 556 kg	36,500 lb
Counterweight	N/A	N/A	653 kg	1,440 lb

	Hydraulic System			
	559D		579D	
Hydraulic Oil Flow @ 1,800 rpm	230/174 L/min	60/46 gal/min	230/230 L/min	60/60 gal/min
Hydraulic Pressure				
System	24 994 kPa	3,625 psi	24 994 kPa	3,625 psi
Swing	24 994 kPa	3,625 psi	24 994 kPa	3,625 psi
Cylinders – Main	one		one	
Cylinders – Stick	one		one	
Cylinders – Stabilizers	four		four	

	Operating Specifications			
	559D		579D	
Maximum Reach (standard boom)	9.8 m	32 ft	9.8 m	32 ft
Swing Torque*	66 870 N·m	49,173 lbf-ft	100 360 N·m	73,800 lbf-ft
Swing Speed	11 rpm		9.5 rpm	
Tail Swing	2692 mm	106 in	2750 mm	108.2 in
Swing Bearing Diameter (ball path)	1105 mm	43.5 in	1105 mm	43.5 in
*Theoretical				

	Service Refill Capacities			
	559D		579D	
Fuel Tank	378 L	100 gal	378 L	100 gal
Hydraulic Tank	302 L	80 gal	302 L	80 gal
Engine Oil	8 L	2.1 gal	8 L	2.1 gal
Cooling System	29 L	7.5 gal	29 L	7.5 gal
Swing Drive	4 L	1.0 gal	4 L	2.6 gal
DEF Tank	19 L	5 gal	19 L	5 gal

	Dimensions			
	559D		579D	
Height to Top of Cab	4003 mm	157.6 in	4041 mm	159.1 in
Stabilizer Spread at Grade	4758 mm	187.3 in	4670 mm	183.8 in
Stabilizer Spread at Maximum Down Reach	4237 mm	166.8 in	4237 mm	166.8 in
Stabilizer Reach Below Grade	433 mm	17 in	394 mm	15.5 in
Stabilizer Pad Size	508 × 711 mm	20 × 28 in	508 × 711 mm	20 × 28 in

- 559D dimensions are on non-suspension trailer.
- 579D dimensions are on suspension trailer.

Standards	
559D	579D
OFPS cab meets SAE J2267	OFPS cab meets SAE J2267

	Shipping Dimensions (mounted trailer)			
	559D		579D	
Width	2573 mm	101.3 in	2573 mm	101.3 in
Height	4003 mm	157.6 in	4041 mm	159.1 in

GLK Series Grapples		
GLK55		
Height (open/excluding rotation)	1186 mm	46.7 in
Height (open/including rotation)	1724 mm	68 in
Weight (excluding rotation)	640 kg	1,411 lb
Weight (including rotation)	867 kg	1,911 lb
Area (tip to tip)	1.15 m <sup>2</sup>	3.8 ft <sup>2</sup>
Open	1372 mm	54 in
Close	127 mm	5 in
GLK48		
Height (open/excluding rotation)	1146 mm	45.1 in
Height (open/including rotation)	1685 mm	66 in
Weight (excluding rotation)	638 kg	1,407 lb
Weight (including rotation)	865 kg	1,907 lb
Area (tip to tip)	0.91 m <sup>2</sup>	3.0 ft <sup>2</sup>
Open	1219 mm	48 in
Close	114 mm	4.5 in

**Note:** All specifications are approximate.

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