

Grove Manitowoc National Crane Potain



Shuttlelift CD5500 Series

Product Guide



Features

- CD5540F: 13,6 t (15 USt) capacity three-section boom with 12,5 m (41 ft) outreach
- CD5560B: 16,3 t (18 USt) capacity four-section boom with 16,6 m (54 ft 6 in) outreach
- 4,6 m (15 ft) offsettable swingaway extension
- 9072 kg (20,000 lb) deck carrying capacity
- Available with diesel or dual fuel engine



Features

Outriggers

The CD5540F is equipped with single-position oblique style outriggers. The CD5560B comes equipped with two-position beam/jack style outriggers.



Cab

Both models come equipped with a standard open air cab shell with overhead safety glass.

An **optional** enclosed cab with front, right and rear glass, a split (two-piece) hinged door with sliding glass. Front windshield wiper, heater and defroster fan is available.



Steering

Standard steering modes on the 5540F is two-wheel, four-wheel, and crab steer with an option for electronic self-alignment.

Standard steering modes on the 5560B include two-wheel, fourwheel, crab steer and electronic self-alignment





Cummins engine

The Cummins QSB 3,3 L, Tier III, diesel comes standard in both models.

Horsepower rating: CD5540F: 63 kW (85 hp) at 2600 rpm. CD5560B: 73,8 kW (99 hp) at 2600 rpm.



Boom

A 12,5 m (41 ft) main boom comes standard on the CD5540F. An optional fourth main boom section adds 3,4 m (11 ft) additional boom length.

The CD5560B comes standard with a 16,6 m (54 ft 6 in) main boom.



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Specifications

Superstructure



Boom

CD5540F: 5,6 m – 12,5 m (18 ft 6 in – 41 ft 0 in) three-section full power boom.

Maximum tip height: 14,1 m (46 ft 3 in)

CD5560B: 5,6 m – 16,6 m (18 ft 6 in – 54 ft 6 in)

four-section full power boom.

Maximum tip height: 19,0 m (62 ft 6 in)



*Optional boom

CD5540F: Manual fourth main boom fly section Maximum tip height: 17,0 m (56 ft 3 in)



*Boom extension

4,6 m (15 ft) offsettable swingaway extension



Boom nose

CD5540F: Two sheave non-pivoting boom nose **CD5560B:** Two sheave, -3-position $(0^{\circ}, +40^{\circ}, +$ 80°) pivoting boom nose for minimizing head space requirements. Lowers head height 0,4 m (15.9 in) when nose is pivoted fully forward.



Boom elevation

CD5540F: Single double acting hydraulic cylinder with integral holding valve.

CD5560B: Two double acting hydraulic cylinders with integral holding valve.

Elevation: 0° to 69° for the CD5540F 0° to 80° for the **CD5560B**



Anti-two block device

Standard anti-two block device, when activated, provides an audible warning to the crane operator and disengages all crane functions whose movement can cause two-blocking.



Load indicator (wireless LSI)

A simple effective and easy to use load indicating system used in conjunction with the anti-two block system to assist the operator in efficient operation of the unit within the limits of the load chart. The display panel displays the hook load and warns the operator when a preset load capacity is exceeded. The warning is by a flashing light on the display panel. In conjunction with the load display panel (receiver), there is a wireless transmitter and load sensing pin attached to the boom head that transmits the hook load to the display panel.



*Load moment indicator (hardwired LMI)

Digital display of boom angle, boom length, boom radius, capacity, and allows for operator input to set the limits based on load chart. Displays color coded light bar and audible alarm with function cutout if load exceeds entered parameters.



Swing

Ball bearing swing circle with 360° continuous rotation. Hydraulic driven worm gear and pinion.

Maximum speed: **CD5540F:** 2.1 rpm CD5560B: 2.5 rpm



Hydraulic system

Four section gear pump providing a system pressure of 241,3 bars (3500 psi)

Combined flow: 333,1 Lpm (88.0 gpm)

CD5540F: Six-section valve bank mounted in dash with direct mechanical linkage for low effort lever control. **CD5560B:** Six-section valve bank chassis mounted;

operated via dash mounted, pilot pressure hydraulic joysticks.

Return line filter with full flow by-pass protection and service indicator.

151,4 L (40 gal) hydraulic reservoir with sight level gauge and steel side plating to guard against side impact damage.



Specifications

Superstructure (continued)



Hoist specifications

Piston motor drive with spring applied / hyd. released brake. Equal speed power up and down.

Drum diameter: 0,25m (9.75 in)

Maximum hoist single line pull: 5443 kg (12,000 lb)

Maximum hoist single line speed: **CD5540F:** 38,4 m/min (126 fpm) **CD5560B:** 48,2 m/min (158 fpm)

Maximum permissible single line pull:

CD5540F: 3402 kg (7500 lb)

(12,7 mm [1/2 in])

CD5560B: 4082 kg (9000 lb)

(12,7 mm [1/2 in])

Rope length:

CD5540F:

(three-section boom) 73,0 m (240 ft) (four-section boom) 88,4 m (290 ft)

CD5560B: 94,5 m (310 ft)

Carrier



Frame

High strength alloy steel constructed with integral outrigger housings; front and rear tie-down lugs. 75 ft² carrydeck size with 9072 kg (20,000 lb) carrying capacity. Deck coated with anti-skid treatment.



Outriggers

CD5540F: Front and rear oblique type beams at all four corners with integral holding valves. Outrigger pads form an integral part of the beam. Outrigger pad size 222 mm x 254 mm (8.75 in x 10 in).

Maximum pad load: 162 p.s.i.

CD5560B: Two-stage hydraulic telescoping beam with oblique type jack on all four corners, provides extended and down and retracted and down lifting capacities. Integral holding valves on both beam and jack. Outrigger pad size 222 mm x 254 mm (8.75 in x 10 in). Maximum pad load: 389 p.s.i.

Outrigger controls

CD5540F: Lever controls located on dash panel and operate the beams in pairs from side to side. Level bubble located inside operators compartment.

CD5560B: Two switch operation mounted on dash panel. One three- position rocker switch to select all beams / jacks, left beams / jacks only, or right beams / jacks only. Separate four- way toggle switch to activate beams out / in and jacks down / up. Level bubble indicator located inside operators compartment.

*Independent outrigger controls available as an option.



Standard engine (Tier III)

CD5540F: Cummins QSB 3,3 L turbo-charged diesel rated at 63,0 kW (85 bhp) at 2600 rpm.

CD5560B: Cummins QSB 3,3 L turbo-charged diesel rated at 73,8 kW (99 bhp) at 2600 rpm.



*Optional engine (2007 EPA)

G.M. 4,3 L V-6 EFI dual fuel (gasoline / L.P.) rated at 69,3 kW (93 bhp) @ 2500 rpm.



Operators control station

Frame mounted, open air style control station with cab shell includes all crane functions, driving controls, and overhead safety glass. Other standard equipment include a durable weather resistant seat with seat belt, hourmeter, sight level bubble, and fire extinguisher. The dash panel includes engine oil pressure gauge, engine water temperature gauge, fuel gauge, transmission low oil and high temperature warning lights, low battery warning light, and brake system low pressure warning light. The LSI (load indicator) receiver is mounted to the top of the dash.



*Operators control station enclosed

Includes the standard cab shell with the addition of front, right, and rear glass, a split (two-piece) hinged door with sliding glass.

Front windshield wiper, heater and defroster fan are included.



Specifications

Carrier (continued)



Fuel tank capacity

151,4 L (40 gal) all steel construction with steel side plate to guard against side impact.



Electrical system

One 12V maintenance free battery, 820CCA @ 0°. 63 amp alternator.

I-●-I Drive

4 x 2 - Front axle drive with planetary hubs and limited slip differential.



CD5540F: Two-wheel, four-wheel, and crab steer CD5560B: Two-wheel, four-wheel, and crab steer with electric self alignment.

Outside turning radius:

CD5540F/CD5560B:

Two wheel steer: 6,55 m (21 ft 6 in) Four wheel steer: 3,76 m (12 ft 4 in)



Transmission

CD5540F: I.T.L. synchromesh four-speeds forward and

CD5560B: I.T.L. powershift four-speeds forward and reverse. Stalk mounted shifter on left side of steering column.



Tires

385/65R 22.5 radial traction tread pneumatic.



Brakes

Hydraulic actuated internal wet-disc service brakes acting on all four wheels. A dash mounted toggle switch activates the dry disc parking brake on the transmission output yoke with a dash warning light.



Suspension

Front: Rigid mounted to frame.

Rear: Provides 1.5° oscillation for use on semi-rough terrain. Axle lock-out must be engaged (locked) whenever picking on rubber or traveling in the crab steer mode. A warning light indicates when the axle lock-outs are engaged.



Lights

Recessed mounted, includes head, tail, rear work, stop, and turn signals.



Maximum speed

CD5540F: 23,3 km/h (14.5 mph) **CD5560B:** 33,8 km/h (21.0 mph)



Gradeability (theoretical)

CD5540F: 73%....no load

41%.... 9072 kg (20,000 lb) load

CD5560B: 68%....no load

40%.... 9072 kg (20,000 lb) load

Gross vehicle weight (G.V.W)

CD5540F: 12 742 kg (28,090 lb) three-section boom

12 966 kg (28,584 lb) four-section boom

CD5560B: 14 769 kg (32,560 lb)

Miscellaneous standard equipment

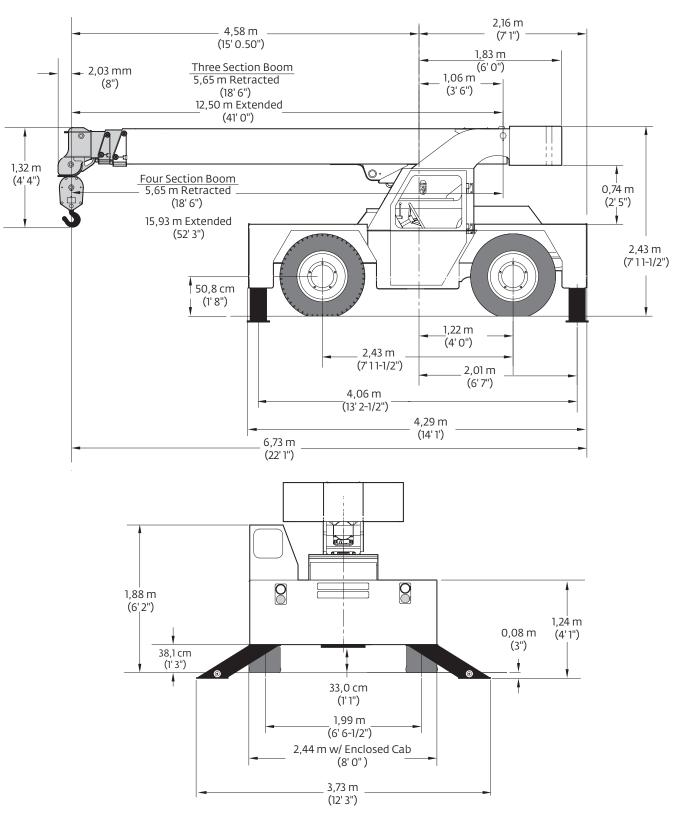
Two sheave, "Quick Reeve" style hookblock; CD5540F: 13,6 t (15.0 USt); CD5560B: 16,3 t (18.0 USt). Back-up alarm Lifting and tie down lugs

Outrigger motion alarm



Dimensions

CD5540F



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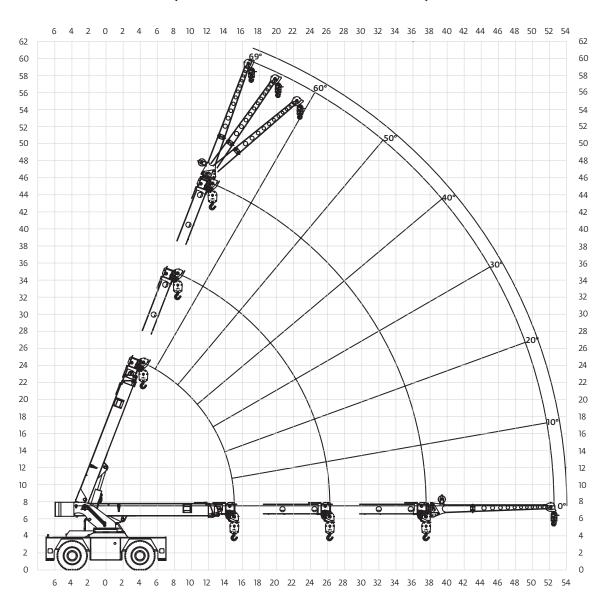
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Shuttlelift CD5500 Series 7



Range diagram

CD5540F (Three-section boom)

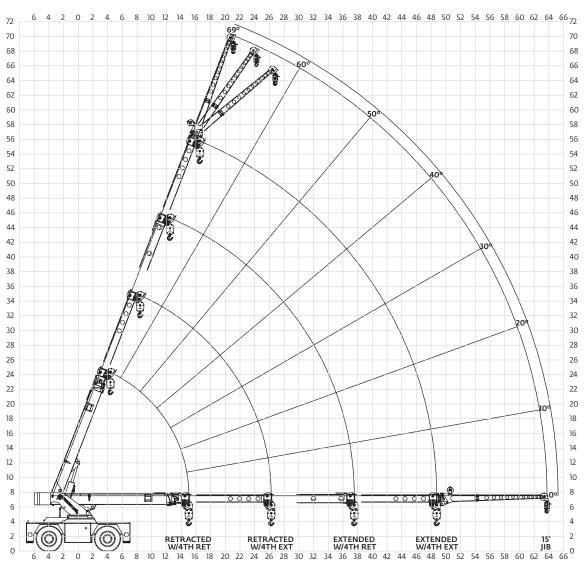


Operating radius in feet from axis of rotation



Range diagram

CD5540F (Four-section boom)



Operating radus in feet from axis of rotation



Load chart

CD5540F (Three-section boom)

	RADIUS	ON OUTRI	GGERS (Ib)	ON RUB	BER (Ib)
	(ft)	F/R	360°	F/R	360°
	6.0	30,000	30,000	17,000	17,000
	8.0	26,200	26,200	13,500	14,600
	10.0	22,300	22,300	10,700	10,880
	12.0	18,600	18,600	8710	8100
	14.0	14,800	14,800	7210	6000
	15.0	13,000	13,000	6600	5250
MAIN BOOM	16.0	12,200	12,200	6060	4760
ō	18.0	10,800	10,800	5120	3900
BC	20.0	9630	9180	4370	3190
Z	22.0	8640	7480	3710	2660
¥	24.0	7790	6210	3070	2200
_	26.0	7040	5310	2620	1820
	28.0	6420	4740	2260	1530
	30.0	5700	4290	1990	1320
	32.0	5060	3920	1790	116 0
	34.0	4510	3580	1610	1040
	36.0	4020	3260	1460	930
	37.5	3700	3060	1370	860
	40.0	3480	2860	1270	800
	42.0	3310	2700	1190	740
В	44.0	3130	2560	1120	690
)B	46.0	2960	2410	1040	640
	48.8	2710	2210	930	570
	52.5	2390	1940	790	480

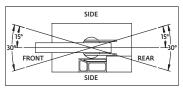
MAIN BOOM ANGLE	CAF	TRUCTU	
(deg)	o°	30°	
69	6000	3900	2800
65	5000	3500	2550
60	4300	3150	2350
55	3800	2850	2200
50	3400	2600	2100
45	3050	2400	2000
40	2800	2250	1950
35	2600	2150	1900
30	2400	2080	1850
25	2300	2050	-
20	2200	2000	-
15	2100	1950	-
10	2050	-	-
5	2020	-	-
0	2000	-	-

NOTES:

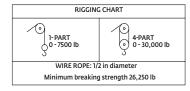
JIB CAPACITY IS LIMITED BY BOTH STRUCTURAL CAPACITY CHART AND MAIN CAPACITY CHART.

SHADED AREAS ARE GOVERNED BY STRUCTURAL

OPERATION OF THIS EQUIPMENT IN EXCESS OF RATING CHARTS AND DISREGARD OF INSTRUCTIONS IS DANGEROUS AND VOIDS WARRANTY.



REDUCTION CHART					
	FROM MAIN BOOM RATINGS	FROM JIB RATINGS			
MAIN BLOCK	210 lb	N/A			
HOOK & BALL	100 lb	100 lb			
JIB, STOWED	0 lb	N/A			
JIB, DEPLOYED	700 lb	0 lb			



- 1) The rated loads are the maximum lifting capacities as determined by operating radius only. Any combination of boom lengths and angles may be used to obtain operating radius. The operating radius is the horizontal distance from a projection of the axis of rotation to the supporting surface, before loading, to the center of vertical hoist line or tackle with load applied.
- 2) The rated loads shown on outriggers do not exceed 85% of actual tipping. The rated loads shown on rubber do not exceed 75% of actual tipping. These ratings are based on freely suspended loads with the crane leveled, standing on a firm, uniform supporting surface. Practical working loads depend on supporting surface, operating radius and other factors affecting stability. Hazardous suroundings, climatic conditions, experience of operator and proper training must be taken into account by the operator.
- 3) The weights of all load handling devices, such as hooks, hook blocks, slings, etc., except the hoist rope, shall be considered as part of the load. See reduction chart.

- 4) Ratings on outriggers are with outriggers fully extended.
- 5) Ratings on rubber depend on tire capacity, , condition of tires and proper inflation pressure (120 psi). Loads on rubber may be transported at a maximum speed of 2.5 mph on a smooth, hard, level surface with the boom retracted to the shortest length possible and centered over the front.
- 6) For operating radius not shown, use load rating of next larger radius.
- 7) The maximum combined total boom and deck load is 16,000 lb. The maximum deck load only is 20.000 lb.
- 8) Do not induce any external side loads to boom or jib.

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Load chart

CD5540F (Four-section boom)

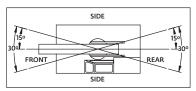
	4TH RETRACTED							4TH EX	TENDED	
RADIUS	ON OUTRI	GGERS (lb)	GGERS (Ib) ON RUBBER (Ib)			RADIUS	ON OUTRI	GGERS (Ib)	ON RUBBER (lb)	
(ft)	F/R	360°	F/R	360°		(ft)	F/R	360°	F/R	360°
6.0	30,000	30,000	17,000	17,000	Г	6.0	-	-	-	-
8.0	26,200	26,200	13,500	14,600		8.0	11,000	11,000	11,000	11,000
10.0	22,300	22,300	10,700	11,000	1	10.0	10,700	10,700	10,700	10,700
12.0	18,600	18,600	8710	7650		12.0	9250	9250	9250	9250
14.0	14,800	14,800	7210	5480		14.0	8290	8390	7760	7500
15.0	13,000	13,000	6600	4890		15.0	8200	8200	7150	6080
16.0	12,200	12,200	6060	4500		16.0	8110	8110	6610	5510
18.0	10,800	10,600	4950	3750		18.0	7950	7950	5680	4500
20.0	9630	8630	3980	3080	Σ	20.0	7820	7820	4730	3560
22.0	8640	7350	3230	2460	BOOM	22.0	7710	7710	3980	3000
24.0	7790	6460	2720	1990	🛎	24.0	7630	7270	3410	2520
26.0	6800	5700	2360	1610	Ā	26.0	7100	6330	2940	2150
28.0	5820	5040	2100	1410	Ì	28.0	6590	5420	2550	1840
30.0	5020	4420	1880	1220		30.0	5710	4760	2190	1580
32.0	4400	3950	1650	1070		32.0	5180	4080	1880	1360
34.0	3930	3570	1460	920		34.0	4680	3570	1600	1160
36.0	3510	3190	1280	770		36.0	4250	3190	1370	990
37.5	3210	2890	1180	680	Į	37.5	3830	2970	1240	880
40.0	2950	2600	1070	610	Λ	40.0	3400	2700	1070	740
42.0	2760	2430	970	550	\	42.0	3150	2490	960	630
44.0	2590	2250	890	500		44.0	2890	2300	870	540
46.0	2430	2090	800	450		46.0	2630	2130	790	470
48.8	2240	1850	680	380	۱ ۱	48.8	2320	1930	710	370
52.5	2030	1480	500	290	9	52.5	2070	1710	590	280
58.0	-	-	-	-		58.0	1720	1380	420	170
63.8	-	-	-	-		63.8	1330	1020	230	60

MAIN	JIB STRUCTURAL CAPACITIES (Ib)							
ANGLE	4TH	RETRAC	TED	4TH	EXTENI	DED		
(deg)	0°	15°	30°	0°	15°	30°		
69	6000	3900	2800	5180	3900	2800		
65	5000	3500	2550	4970	3500	2550		
60	4300	3150	2350	4300	3150	2350		
55	3800	2850	2200	3800	2850	2200		
50	3400	2600	2100	3400	2600	2100		
45	3050	2400	2000	3050	2400	2000		
40	2800	2250	1950	2800	2250	1950		
35	2600	2150	1900	2600	2150	1900		
30	2400	2080	1850	2400	2080	1850		
25	2300	2050	-	2300	2050	-		
20	2200	2000	-	2200	2000	-		
15	2100	1950	-	2100	1950	-		
10	2050	-	-	2050	-	-		
5	2020	-	-	2020	-	-		
0	2000	-	-	2000	-	-		

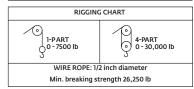
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REDUCTION CHART						
FROM FROM JIB RATINGS						
MAIN BLOCK	210 lb	N/A				
HOOK & BALL	100 lb	100 lb				
JIB, STOWED	0 lb	N/A				
JIB, DEPLOYED	700 lb	0 lb				



- The rated loads are the maximum lifting capacities as determined by operating radius only. Any combination of boom lengths and angles may be used to obtain operating radius. The operating radius is the horizontal distance from a projection of the axis of rotation to the supporting surface, before loading, to the center of vertical hoist line or tackle with load applied.
- 2) The rated loads shown on outriggers do not exceed 85% of actual tipping. The rated loads shown on rubber do not exceed 75% of actual tipping. These ratings are based on freely suspended loads with the crane leveled, standing on a firm, uniform supporting surface, Practical working loads depend on supporting surface, operating radius and other factors affecting stability. Hazardous suroundings, climatic conditions, experience of operator and proper training must be taken into account by the operator.
- The weights of all load handling devices, such as hooks, hook blocks, slings, etc., except the hoist rope, shall be considered as part of the load. See reduction chart.

- 4) Ratings on outriggers are with outriggers fully extended.
- 5) Ratings on rubber depend on tire capacity, condition of tires and proper inflation pressure (120 psi). Loads on rubber may be transported at a maximum speed of 2.5 mph on a smooth, hard, level surface with the boom retracted to the shortest length possible and centered over the front.
- 6) For operating radius not shown, use load rating of next larger radius.
- The maximum combined total boom and deck load is 16,000 lb.
 The maximum deck load only is 20,000 lb.
- Do not induce any external side loads to boom or jib.

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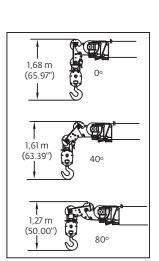
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Shuttlelift CD5500 Series

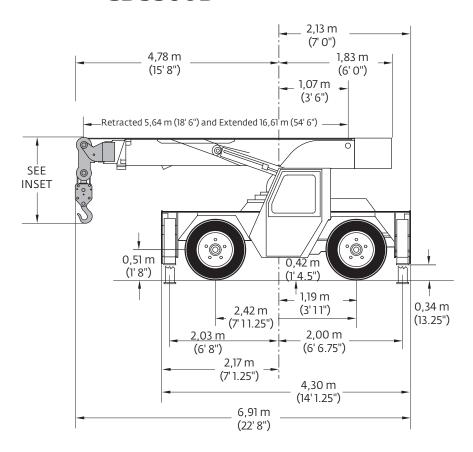


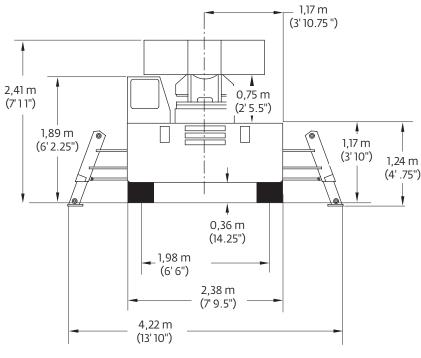
Dimensions

CD5560B



Dimensions are with the boom horizontal and the anti-two block bottomed.





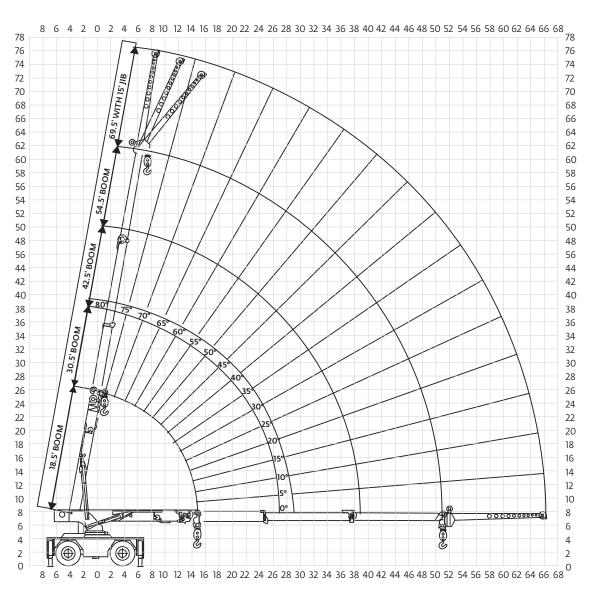
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Range diagram

CD5560B



Operating radius in feet from axis of rotation

Height from the ground in feet



Load chart

CD5560B

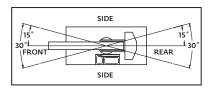
	MAIN BOOM LOAD RATINGS ON OUTIGGERS Extended and Down 360° or Retracted and Down Front/Re				nt/Rear			
	18.5 ft	8.5 ft BOOM 30.5 ft BOOM 42.5 ft BOOM 5			54.5 ft	54.5 ft BOOM		
Radius (ft)	Boom Angle (deg)		Boom Angle (deg)		Boom Angle (deg)	Rated Load (lb)	Boom Angle (deg)	
6 8 10 12 14 15.0 16 18 20 22 24 26 27.0 28 30 32 34 36 38.0 39.0 40 42 44 46 8 51.0	64 57 49 39 25 0 - - - - - - - - - - - -	36,000 31,500 19,500 16,200 15,000	75 71 67 63 58 55 53 48 37 29 18 0 - - - -	24,500 24,500 24,000 20,000 16,800 15,500 14,400 12,500 11,000 9800 7800 7400	79 77 74 71 68 66 65 49 55 52 48 6 44 40 36 30 24 15 0	23,700 23,000 23,000 19,700 17,000 15,800 14,600 12,700 11,200 10,000 9000 8100 7700 6500 6500 6500 4500 4000 3900	- 80 77 75 73 77 66 64 61 59 58 54 45 41 39 33 31 27 21 0	- 17,400 15,800 14,000 12,000 11,400 10,500 9600 8900 7500 7500 7500 6700 6700 6700 4300 4300 4300 4300 4300 2900 2700 2700 2400

	MAIN BOOM ON RUBBER Any Boom Length				
Radius (ft)	Front Rating (lb)	360° Rating (lb)			
6 8 10 12 14 15.0	16,000 13,000 11,000 9100 7800 7100	10,900 8700 7400 6400 5600 5300			
16 18 20 22 24 26 27.0 28 30 32 34 36 38 39.0 40 42 44 46 48 51.0	6500 5600 4800 4200 3600 2950 2800 2450 2100 1900 1750 1525 1450 1350 950 950 880 700	4900 4200 3500 3500 2500 2200 2050 1900 1650 1400 1200 1000 850 775 725 625 525 425 300 200			

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	RATING REDUCTIONS FOR LOAD HANDLING DEVICES INSTALLED (Ib)						
FROM MAIN BOOM FROM JIB							
	MAIN BLOCK	230	NOT APPLICABLE				
	HOOK & BALL	100	100				
	JIB STOWED	NO REDUCTION	NOT APPLICABLE				
	JIB DEPLOYED	700	NO REDUCTION				

	15 FT JIB CAPACITIES ON EXTENDED OUTRIGGERS								
Main		Jib Offset Angle							
Boom	C)°	1	5°	30°				
Angle (deg)	To 42.5 ft Main Boom	To 54.5 ft Main Boom	To 42,5 ft Main Boom	To 54,5 ft Main Boom	Any Boom Length				
80	-	-	5000	5000	3500				
75 70	7500 6100	-	4400 3900	4400 3900	3100 2800				
65	5000	4600	3500	3500	2550				
60	4300	3800	3150	3150	2350				
55	3800	3300	2850	2850	2200				
50 45	3400 3050	2900 2600	2600 2400	2600 2400	2100 2000				
40	2800	2400	2250	2250	1950				
35	2600	2150	2150	2050	1900				
30 25	2400 2300	1930 1750	2080 2050	1850 1720	1830				
20	2200	1600	2000	1590	-				
15	2100	1500	1950	1520	-				
10 5	2050	1460	-	-	-				
0	2020 2000	1450 1440	-	-	-				

- The rated loads are the maximum lift capacities as determined by operating radius, boom length and boom angle. The operating radius is the horizontal distance from a projection of the axis of rotation to the supporting surface, before loading, to the center of vertical hoist line or tackle with load applied.
- 2) The rated loads shown on otriggers do not exceed 85% of actual tipping. The rated loads shown on rubber do not exceed 75% of actual tipping. Retracted outrigger rated loads meet ASME B30.5-2004. These ratings are based on freely uniform supporting surface. Practical working loads depend on stability. Hazardous surroundings, climatic conditions, experience account by the operator.
- The weights of all load handling devices, such as hooks, hook blocks, slings, etc, except the hoist rope, shall be considered as part of the load. See above.
- 4) Ratings on outriggers are for either outriggers fully extended and down or fully retracted and down. Ratings for outriggers fully retracted and down will apply for any intermediate outrigger setting.
- 5) Ratings on rubber depend on tire capacity, condition of tires and proper inflation pressure (120 psi). Loads on rubber may be transported at a maximum speed of 2.5 mph on a smooth hard level surface with boom retracted to the shortest length possible and centered over front. Do not use jib with crane on rubber
- 6) For operating radius not shown, use load rating of next larger
- 7) The maximum combined total boom and deck load is 16,000 lb the maximum deck load only is 20,000 lb.
- 8) Do not induce any external side loads to boom or jib.

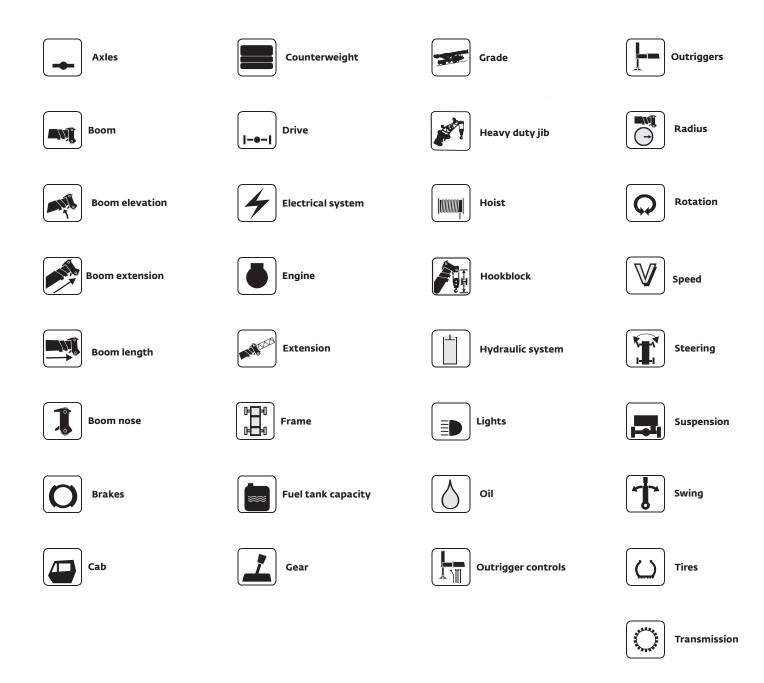
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MAXIMUM PERMISSIBLE SINGLE LINE PULL = 9000 LB

WIRE ROPE: 13 mm Diameter 8 X 25 Galvanized Minimum required breaking strength = 37,200 lb



Symbols glossary



Shuttlelift CD5500 Series 15



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