



5500 Series

product guide

features

- 2 models ...
 - 5540F: 15.0T (13.6mt) 3-section boom with 41 ft. 0 in. (12.5m) outreach
 - 5560B: 18.0T (16.3mt) 4-section boom with 54 ft. 6 in. (16.6m) outreach
- 15 ft. (4.6m) offsettable swingaway extension
- 20,000 lb. (9 072kg) deck carrying capacity
- 101 bhp (75.3 kW) GM EFI dual fuel engine or 99 bhp (73.8 kW) Cummins, Tier III, diesel engine



Industrial Hydraulic Crane

www.manitowoc.com

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features

2



- Single position oblique style outriggers (5540F).
- 2-position beam / jack style outriggers (5560B).



Standard:

- Cummins QSB 3.3L, Tier III, diesel rated @ 99 bhp (73.8Kw) @ 2600 r.p.m.



Standard: Open air cab shell w/overhead safety glass

Optional: Closed cab with hinged door, heater, and defroster

5500 Series



- Standard:** 41 ft. (12.5m) main boom on the 5540F
54 ft. 6 in. (16.6m) main boom on the 5560B
- Optional:** 5540F: Manual 4th main boom section adds 11 ft. (3.4m) additional main boom length



Standard: 2-wheel, 4-wheel and crab steer (5540F)

Optional: 2-wheel, -4-wheel, and crab steer with electronic self-alignment (std. on 5560B)



specifications

Superstructure



Boom

5540F: 18 ft. 6 in. – 41 ft. 0 in. (5.6m – 12.5m) three-section full power boom.

Maximum tip height: 46 ft. 3 in. (14.1m)

5560B: 18 ft. 6 in. – 54 ft. 6 in. (5.6m – 16.6m) four-section full power boom.

Maximum tip height: 62 ft. 6 in. (19.0m)



*Optional Boom

5540F: Manual 4th main boom fly section

Maximum tip height: 56 ft. 3 in. (17.0m)



*Boom Extension

15 ft. (4.6m) offsettable swingaway extension



Boom Nose

5540F: 2 sheave non-pivoting boom nose

5560B: Two sheave, -3-position (0°, +40°, +80°) pivoting boom nose for minimizing head space requirements. Lowers head height 15.9 in. (0.4m) when nose is pivoted fully forward.



Boom Elevation

5540F: Single double acting hydraulic cylinder with integral holding valve.

5560B: Two double acting hydraulic cylinders with integral holding valve.

Elevation: 0° to 69° for the 5540F

0° to 80° for the 5560B



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.



*Rated Capacity Limiter (wireless RCL)

Similar to the Load Indicator, but stops the telescope out and boom lift down function when a load limit is exceeded. Uses a similar display panel with the addition of displaying boom angle and boom length read outs on the 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: 5540F: 2.1 rpm

5560B: 2.5 rpm



Hydraulic System

4 section gear pump providing a system pressure of 3500 psi (241.3 bars)

Combined flow: 88.0 gpm (333.1 Lpm)

5540F: Six section valve bank mounted in dash with direct mechanical linkage for low effort lever control.

5560B: 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.

40 gallon (151.4 L) hydraulic reservoir with sight level gauge and steel side plating to guard against side impact damage.



Hoist Specifications

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

Drum Diameter: 9.75 in. (0.25m)

Maximum hoist single line pull: 12,000 lb. (5 443kg)

Maximum hoist single line speed:

5540F: 126 FPM (38.4m / min)

5560B: 158 FPM (48.2m / min)

Maximum Permissible Single Line Pull:

5540F: 7,500 lb (3 402kg)

(1/2" [12.7mm] EEIPS)

5560B: 9,000 lb (4 082kg)

(1/2" [12.7mm] Python Ultra)

Rope Length:

5540F:

(3-section boom) 240 ft. (73.0m)

(4-section boom) 290 ft. (88.4m)

5560B:

310 ft. (94.5m)

*Denotes optional equipment

3

5500 Series



specifications

5500 Series

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Carrier



Frame

High strength alloy steel constructed with integral outrigger housings; front and rear tie-down lugs. 75 ft.² carrydeck size with 20,000 lb (9 072kg) carrying capacity. Deck coated with anti-skid treatment.



Outriggers

5540F: 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 8.75" x 10" (222 mm x 254 mm).

5560B: 2-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 8.75" x 10" (222 mm x 254 mm).



Outrigger Controls

5540F: Lever controls located on dash panel and operate the beams in pairs from side to side. Level bubble located inside operators compartment.

5560B: Two switch operation mounted on dash panel. One 3-position rocker switch to select all beams / jacks, left beams / jacks only, or right beams / jacks only. Separate 4-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.



Std. Engine

Cummins QSB 3.3L turbo-charged diesel rated @ 99 bhp (73.8kW) @ 2600 rpm.



*Optional Engine

G.M. 4.3L V-6 EFI dual fuel (gasoline / L.P.) rated @ 101 bhp (75.3kW) @ 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. Hinged full door with sliding glass.

Front windshield wiper, heater and defroster are included.



Fuel Tank Capacity

40 gallon (151.4 L) all steel construction with steel side plate to guard against side impact.



Electrical System

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



Drive

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



Steer

5540F: 2-wheel, 4-wheel, and crab steer

5560B: 2-wheel, -4-wheel, and crab steer w/electric self alignment.



Transmission

5540F: I.T.L. synchromesh 4-speeds forward and reverse.

5560B: I.T.L. powershift 4-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 & Rear: Rigid mounted to frame.

Option: 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.

*Optional 4° oscillation.



Lights

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



Maximum Speed

5540F: 14.5 mph (23.3km/h)

5560B: 21.0 mph (33.8km/h)



Gradeability**

5540F: 73%.....no load

41%.....20,000lb (9 072kg) load

5560B: 68%.....no load

40%.....20,000lb (9 072kg) load

G.V.W.

5540F: 26,300 lb (11 930kg) 3-section boom

26,750 lb (12 134kg) 4-section boom

5560B: 30,000 lb (13 608kg)

Miscellaneous Standard Equipment

Two sheave, "Quick Reeve" style hookblock;

5540F: 15.0T (13.6mt); 5560B: 18.0T (16.3mt).

Back-up alarm

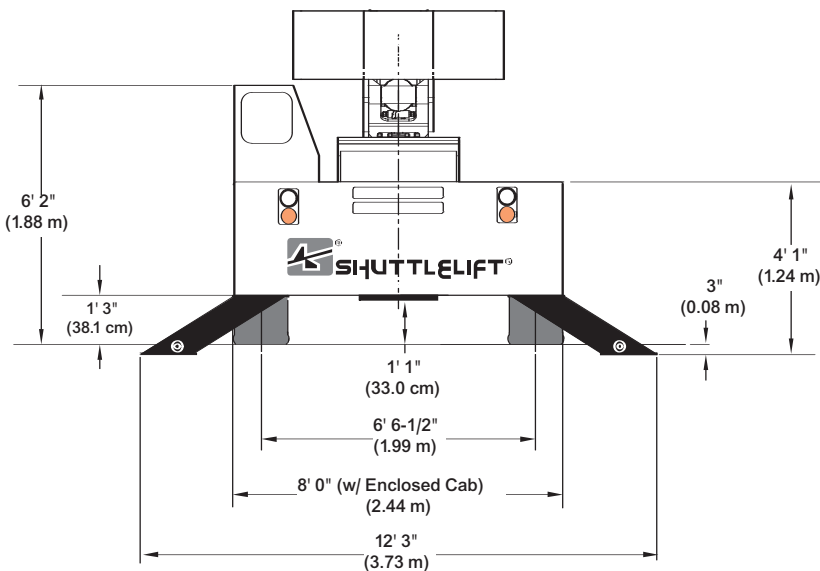
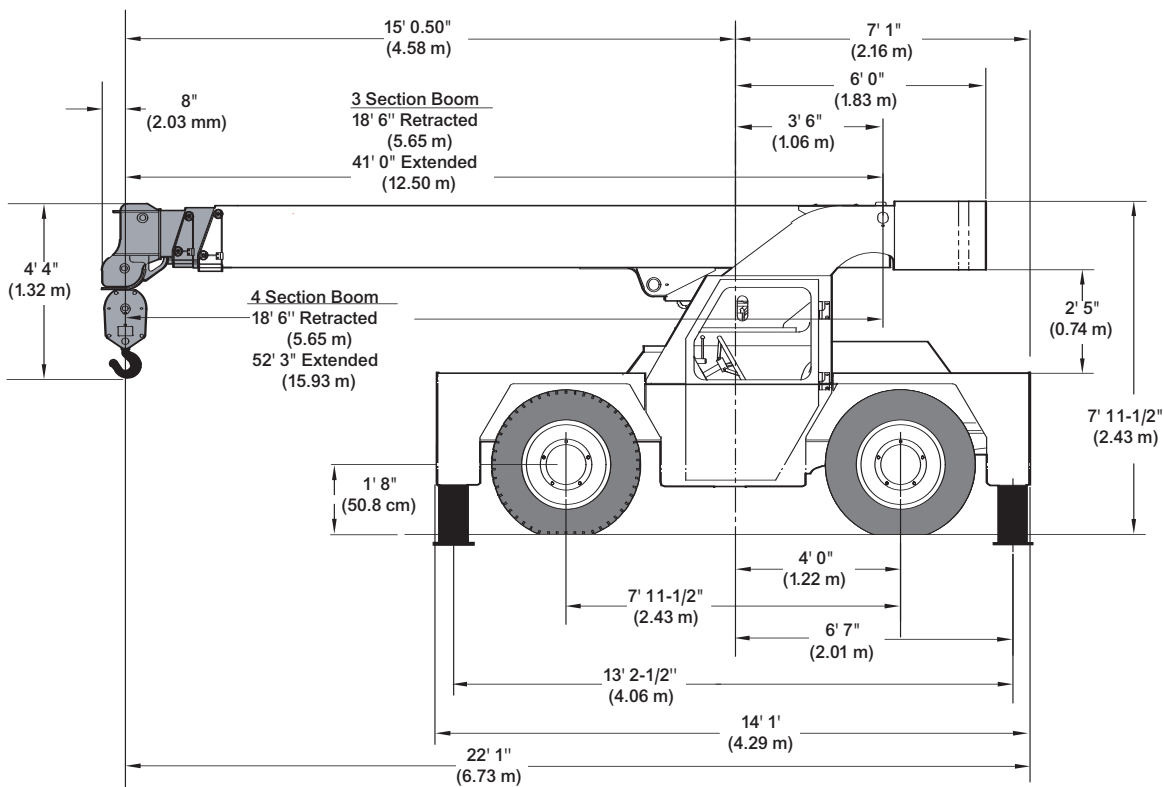
Lifting and tie down lugs

*Denotes Optional Equipment

**Theoretical

dimensions

5540F



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5500 Series

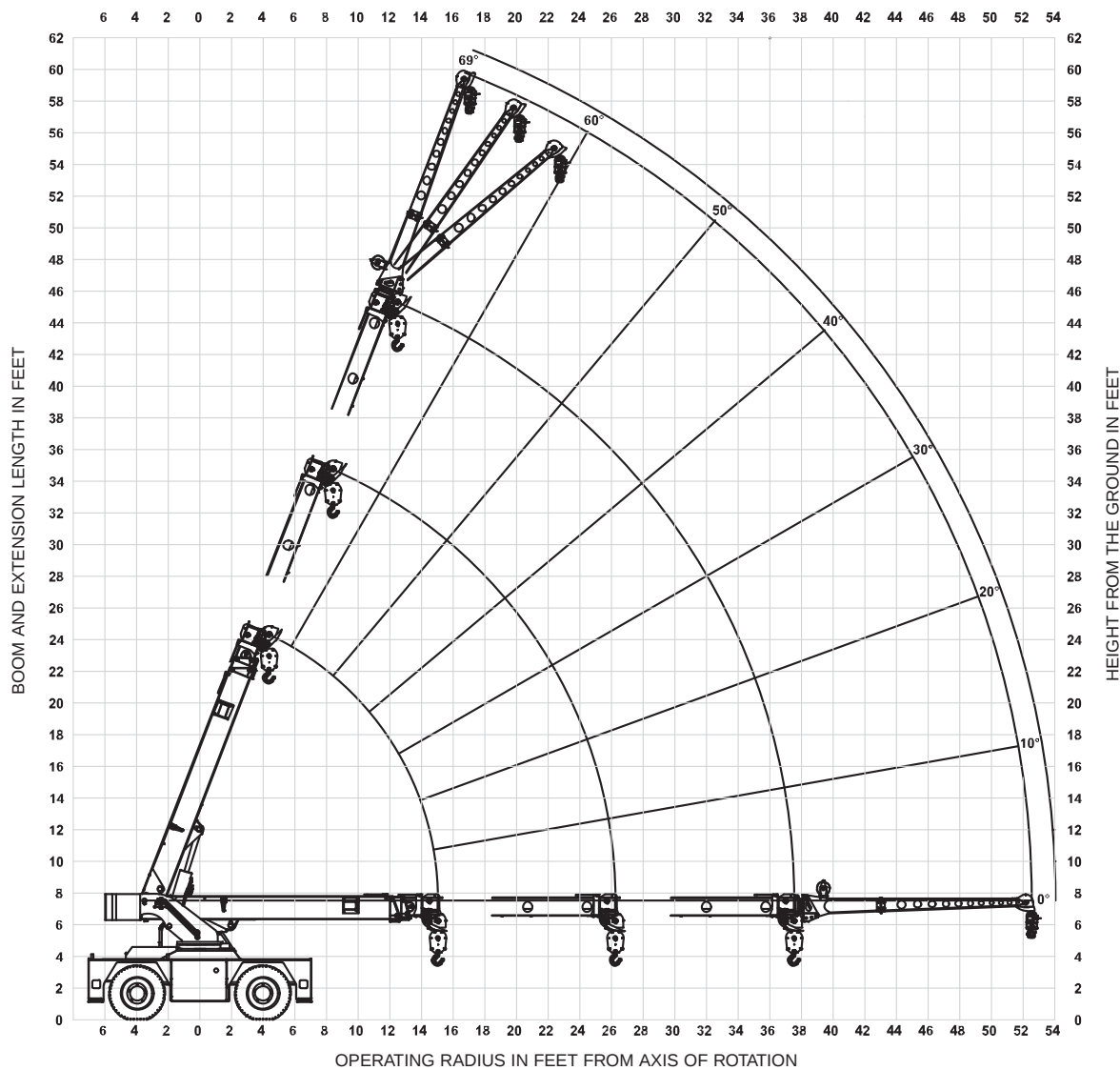


range diagram

3-SECTION BOOM

5540F

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5500 Series

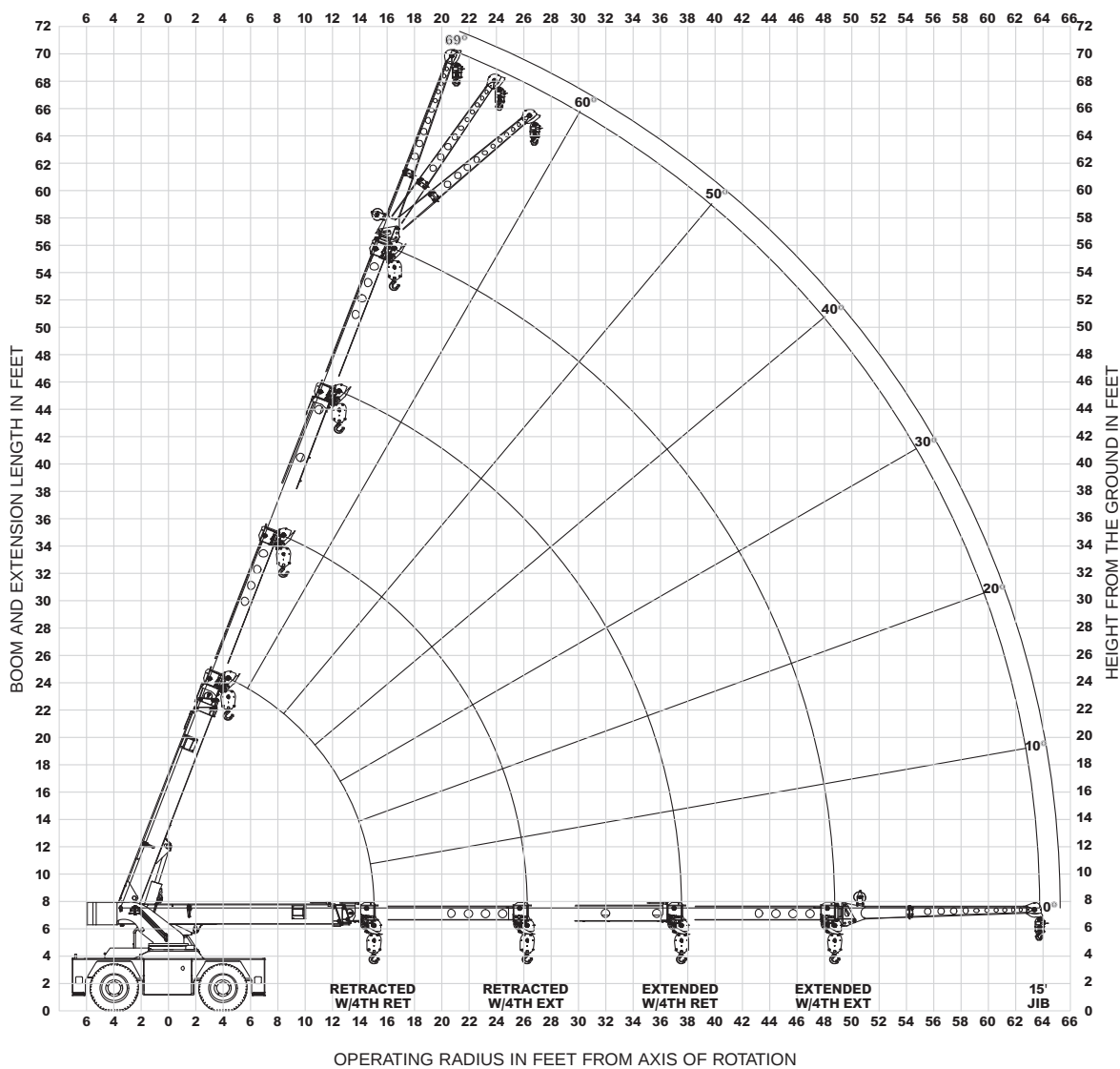
THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.



range diagram

5540F

4-SECTION BOOM



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5500 Series

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load chart

5540F w/3-section boom

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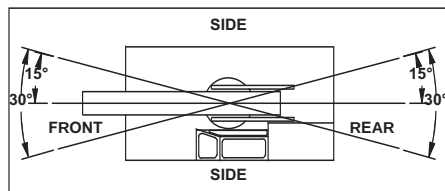
	RADIUS (ft)	ON OUTRIGGERS (lbs)		ON RUBBER (lbs)	
		F/R	360°	F/R	360°
MAIN BOOM	6.0	30000	30000	17000	17000
	8.0	26200	26200	13500	14600
	10.0	22300	22300	10700	10880
	12.0	18600	18600	8710	8100
	14.0	14800	14800	7210	6000
	15.0	13000	13000	6600	5250
	16.0	12200	12200	6060	4760
	18.0	10800	10800	5120	3900
	20.0	9630	9180	4370	3190
	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	1160
	34.0	4510	3580	1610	1040
	36.0	4020	3260	1460	930
	37.5	3700	3060	1370	860
JIB	40.0	3480	2860	1270	800
	42.0	3310	2700	1190	740
	44.0	3130	2560	1120	690
	46.0	2960	2410	1040	640
	48.8	2710	2210	930	570
	52.5	2390	1940	790	480

MAIN BOOM ANGLE (deg)	JIB STRUCTURAL CAPACITIES (lbs)		
	0°	15°	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	-	-

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

SHADED AREAS ARE GOVERNED BY STRUCTURAL STRENGTH, DO NOT RELY ON TIPPING.

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 lbs	N/A
HOOK & BALL	100 lbs	100 lbs
JIB, STOWED	0 lbs	N/A
JIB, DEPLOYED	700 lbs	0 lbs

RIGGING CHART	
 1-PART 0-7500 lbs	 4-PART 0-30000 lbs
WIRE ROPE: 1/2 inch diameter Min. breaking strength 26250 lbs.	

- 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.
- 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 surroundings, 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.
- Ratings on outriggers are with outriggers fully extended.
- 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.
- For operating radius not shown, use load rating of next larger radius.
- The maximum combined total boom and deck load is 16000 lbs. The maximum deck load only is 20000 lbs.
- Do not induce any external side loads to boom or jib.

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load chart

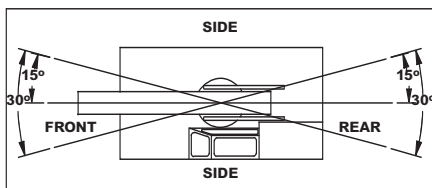
5540F w/ 4-section boom

RADIUS (ft)	4TH RETRACTED				RADIUS (ft)	4TH EXTENDED			
	ON OUTRIGGERS (lbs)		ON RUBBER (lbs)			ON OUTRIGGERS (lbs)		ON RUBBER (lbs)	
	F/R	360°	F/R	360°		F/R	360°	F/R	360°
6.0	30000	30000	17000	17000	6.0	-	-	-	-
8.0	26200	26200	13500	14600	8.0	11000	11000	11000	11000
10.0	22300	22300	10700	11000	10.0	10700	10700	10700	10700
12.0	18600	18600	8710	7650	12.0	9250	9250	9250	9250
14.0	14800	14800	7210	5480	14.0	8290	8390	7760	7500
15.0	13000	13000	6600	4890	15.0	8200	8200	7150	6080
16.0	12200	12200	6060	4500	16.0	8110	8110	6610	5510
18.0	10800	10600	4950	3750	18.0	7950	7950	5680	4500
20.0	9630	8630	3980	3080	20.0	7820	7820	4730	3560
22.0	8640	7350	3230	2460	22.0	7710	7710	3980	3000
24.0	7790	6460	2720	1990	24.0	7630	7270	3410	2520
26.0	6800	5700	2360	1610	26.0	7100	6330	2940	2150
28.0	5820	5040	2100	1410	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	37.5	3830	2970	1240	880
40.0	2950	2600	1070	610	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	48.8	2320	1930	710	370
52.5	2030	1480	500	290	52.5	2070	1710	590	280
58.0	-	-	-	-	58.0	1720	1380	420	170
63.8	-	-	-	-	63.8	1330	1020	230	60

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REDUCTION CHART		
	FROM MAIN BOOM RATINGS	FROM JIB RATINGS
MAIN BLOCK	210 lbs	N/A
HOOK & BALL	100 lbs	100 lbs
JIB, STOWED	0 lbs	N/A
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RIGGING CHART	
1-PART 0-7500 lbs	4-PART 0-30000 lbs
WIRE ROPE: 1/2 inch diameter Min. breaking strength 26250 lbs.	

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- Ratings on outriggers are with outriggers fully extended.
- 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.
- For operating radius not shown, use load rating of next larger radius.
- The maximum combined total boom and deck load is 16000 lbs. The maximum deck load only is 20000 lbs.
- Do not induce any external side loads to boom or jib.

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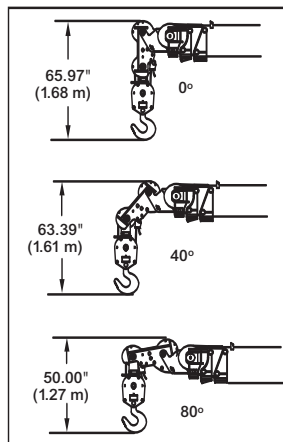
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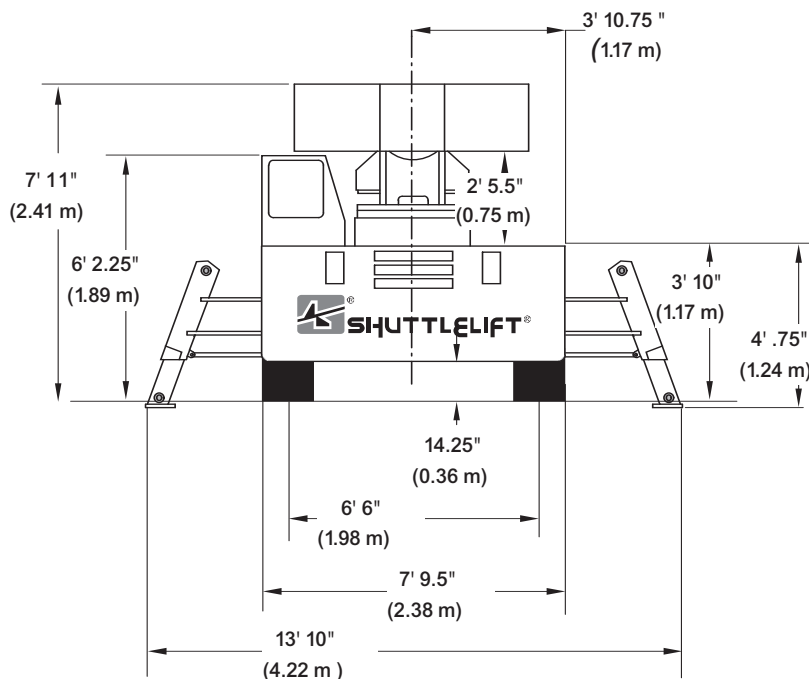
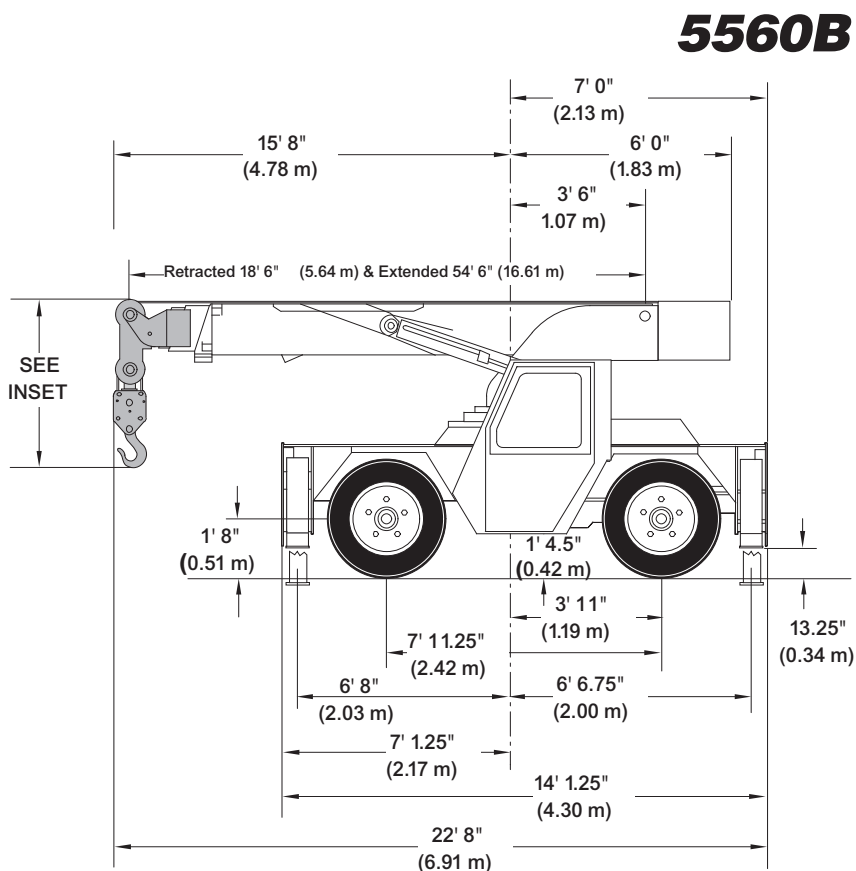


dimensions

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



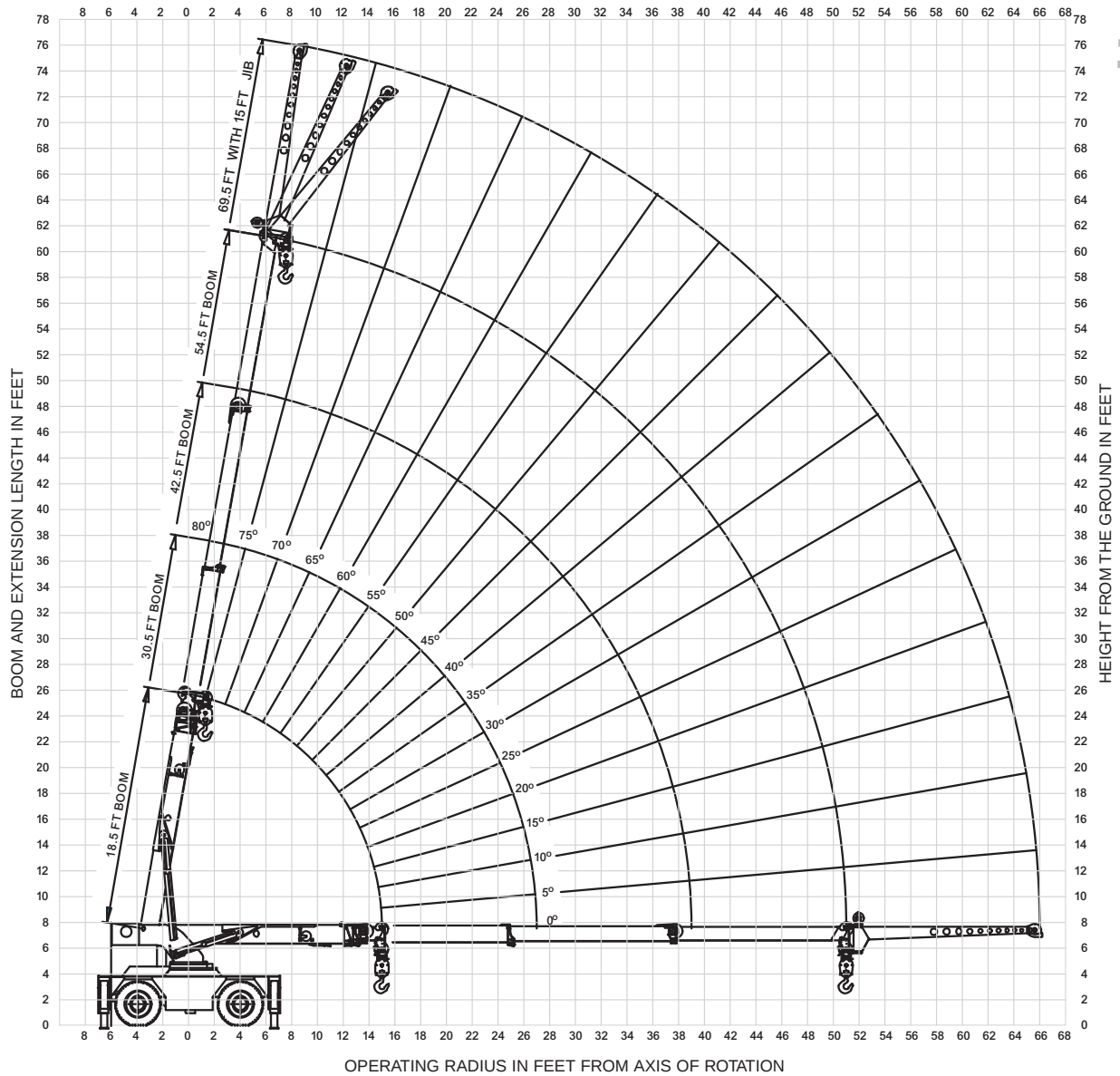
5500 Series

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range diagram

5560B



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5500 Series

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load chart

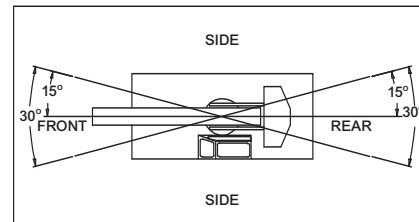
5560B

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MAIN BOOM LOAD RATINGS ON OUTRIGGERS Extended and Down 360° or Retracted and Down Front/Rear									
		18.5 ft BOOM		30.5 ft BOOM		42.5 ft BOOM		54.5 ft BOOM	
Radius (ft)	Boom Angle (deg)	Rated Load (lbs)	Boom Angle (deg)	Rated Load (lbs)	Boom Angle (deg)	Rated Load (lbs)	Boom Angle (deg)	Rated Load (lbs)	
6	64	36000	75	24500	79	23700	-	-	
8	57	31500	71	24500	77	23000	80	17400	
10	49	24000	67	24000	74	21500	77	15800	
12	39	19500	63	20000	71	19700	75	14000	
14	25	16200	58	16800	68	17000	73	12600	
15.0	0	15000	56	15500	66	15800	72	12000	
16	-	-	53	14400	65	14600	71	11400	
18	-	-	48	12500	62	12700	69	10500	
20	-	-	43	11000	59	11200	66	9600	
22	-	-	37	9800	55	10000	64	8900	
24	-	-	29	8700	52	9000	61	8300	
26	-	-	18	7800	48	8100	59	7700	
27.0	-	-	0	7400	46	7700	58	7500	
28	-	-	-	-	44	7300	56	7200	
30	-	-	-	-	40	6500	54	6700	
32	-	-	-	-	36	5700	51	6000	
34	-	-	-	-	30	5100	48	5400	
36	-	-	-	-	24	4500	45	4800	
38	-	-	-	-	15	4000	42	4300	
39.0	-	-	-	-	0	3900	41	4000	
40	-	-	-	-	-	-	39	3800	
42	-	-	-	-	-	-	35	3400	
44	-	-	-	-	-	-	31	3100	
46	-	-	-	-	-	-	27	2900	
48	-	-	-	-	-	-	21	2700	
51.0	-	-	-	-	-	-	0	2400	

MAIN BOOM ON RUBBER		
Radius (ft)	Any Boom Length	
	Front Rating (lbs)	360° Rating (lbs)
6	16000	10900
8	13000	8700
10	11000	7400
12	9100	6400
14	7800	5600
15.0	7100	5300
16	6500	4900
18	5600	4200
20	4800	3500
22	4200	3000
24	3600	2500
26	3150	2200
27.0	2950	2050
28	2800	1900
30	2450	1650
32	2100	1400
34	1900	1200
36	1750	1000
38	1525	850
39.0	1450	775
40	1350	725
42	1150	625
44	1050	525
46	950	425
48	850	300
51.0	700	200

RATING REDUCTIONS FOR LOAD HANDLING DEVICES INSTALLED (lbs)		
	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



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- 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.
- 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 surroundings, climatic conditions, experience of personnel and proper handling must all 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 above.
- 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.
- 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.
- For operating radius not shown, use load rating of next larger radius.
- The maximum combined total boom and deck load is 16,000 lbs. The maximum deck load only is 20,000 lbs.
- Do not induce any external side loads to boom or jib.

MAXIMUM PERMISSIBLE SINGLE LINE PULL = 9000 lbs

WIRE ROPE: 1/2 inch dia. 10 x 19 EIPS IWRC BRIGHT
Min. req'd breaking strength = 31,500 lbs

MAIN BOOM LOAD RATINGS ON OUTRIGGERS Retracted and Down 360°									
		18.5 ft BOOM		30.5 ft BOOM		42.5 ft BOOM		54.5 ft BOOM	
Radius (ft)	Boom Angle (deg)	Rated Load (lbs)	Boom Angle (deg)	Rated Load (lbs)	Boom Angle (deg)	Rated Load (lbs)	Boom Angle (deg)	Rated Load (lbs)	
6	64	36000	75	24500	79	23700	-	-	
8	57	29000	71	24500	77	23000	80	17400	
10	49	16000	67	22000	74	20000	77	15800	
12	39	11400	63	12900	71	12800	75	13000	
14	25	8900	58	9900	68	10200	73	10600	
15.0	0	8000	56	8900	66	9300	72	9500	
16	-	-	53	8100	65	8500	71	8500	
18	-	-	48	6800	62	7200	69	7200	
20	-	-	43	5900	59	6200	66	6100	
22	-	-	37	5000	55	5200	64	5300	
24	-	-	29	4100	52	4500	61	4500	
26	-	-	18	3600	48	3800	59	3900	
27.0	-	-	0	3400	46	3600	58	3600	
28	-	-	-	-	44	3300	56	3300	
30	-	-	-	-	40	2900	54	2800	
32	-	-	-	-	36	2500	51	2500	
34	-	-	-	-	30	2200	48	2200	
36	-	-	-	-	24	2000	45	2000	
38	-	-	-	-	15	1800	42	1800	
39.0	-	-	-	-	0	1700	41	1700	
40	-	-	-	-	-	-	39	1600	
42	-	-	-	-	-	-	35	1400	
44	-	-	-	-	-	-	31	1300	
46	-	-	-	-	-	-	27	1100	
48	-	-	-	-	-	-	21	900	
51.0	-	-	-	-	-	-	0	700	

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

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.



notes**13****5500 Series**

notes

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5500 Series



notes**15****5500 Series**



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