

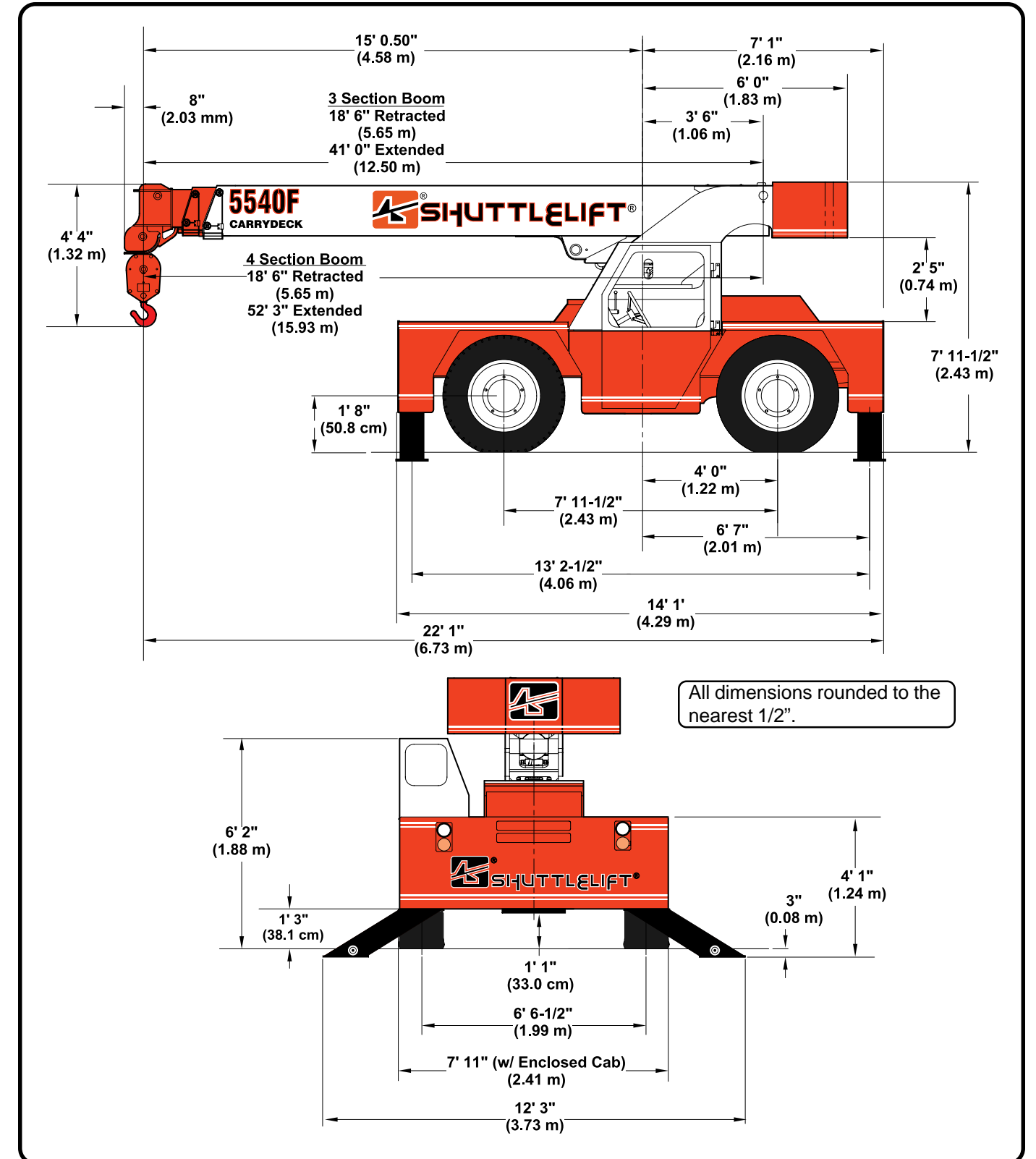
Rated Load Capacities (5540F With 4 Section Boom)

Operating Radius	4 Section Boom (4th Section Retracted)				4 Section Boom (4th Section Extended)			
	On Outriggers		On Rubber		On Outriggers		On Rubber	
	Front	360°	Front	360°	Front	360°	Front	360°
6' (1.8 m)	30,000 lb. (13 610 kg)	30,000 lb. (13 610 kg)	17,000 lb. (7710 kg)	17,000 lb. (7710 kg)	-	-	-	-
8' (2.4 m)	26,200 lb. (11 885 kg)	26,200 lb. (11 885 kg)	13,500 lb. (6125 kg)	14,600 lb. (6620 kg)	11,000 lb. (4990 kg)	11,000 lb. (4990 kg)	11,000 lb. (4990 kg)	11,000 lb. (4990 kg)
10' (3.0 m)	22,300 lb. (10 115 kg)	22,300 lb. (10 115 kg)	10,700 lb. (4855 kg)	11,000 lb. (4990 kg)	10,700 lb. (4855 kg)	10,700 lb. (4855 kg)	10,700 lb. (4855 kg)	10,700 lb. (4855 kg)
12' (3.7 m)	18,600 lb. (8440 kg)	18,600 lb. (8440 kg)	8,710 lb. (3950 kg)	7,650 lb. (3470 kg)	9,250 lb. (4195 kg)	9,250 lb. (4195 kg)	9,250 lb. (4195 kg)	9,250 lb. (4195 kg)
14' (4.3 m)	14,800 lb. (6715 kg)	14,800 lb. (6715 kg)	7,210 lb. (3270 kg)	5,480 lb. (2485 kg)	8,390 lb. (3805 kg)	8,390 lb. (3805 kg)	7,760 lb. (3520 kg)	7,500 lb. (3400 kg)
15' (4.6 m)	13,000 lb. (5900 kg)	13,000 lb. (5900 kg)	6,600 lb. (2995 kg)	4,890 lb. (2220 kg)	8,200 lb. (3720 kg)	8,200 lb. (3720 kg)	7,150 lb. (3250 kg)	6,080 lb. (2760 kg)
16' (4.9 m)	12,200 lb. (5535 kg)	12,200 lb. (5535 kg)	6,060 lb. (2750 kg)	4,500 lb. (2040 kg)	8,110 lb. (3680 kg)	8,110 lb. (3680 kg)	6,610 lb. (3000 kg)	5,510 lb. (2500 kg)
18' (5.5 m)	10,800 lb. (4900 kg)	10,600 lb. (4810 kg)	4,950 lb. (2245 kg)	3,750 lb. (1700 kg)	7,950 lb. (3605 kg)	7,950 lb. (3605 kg)	5,680 lb. (2575 kg)	4,500 lb. (2040 kg)
20' (6.1 m)	9,630 lb. (4370 kg)	8,630 lb. (3915 kg)	3,980 lb. (1805 kg)	3,080 lb. (1400 kg)	7,820 lb. (3550 kg)	7,820 lb. (3550 kg)	4,730 lb. (2145 kg)	3,560 lb. (1615 kg)
22' (6.7 m)	8,640 lb. (3920 kg)	7,350 lb. (3335 kg)	3,230 lb. (1465 kg)	2,460 lb. (1115 kg)	7,710 lb. (3500 kg)	7,710 lb. (3500 kg)	3,980 lb. (1805 kg)	3,000 lb. (1360 kg)
24' (7.5 m)	7,790 lb. (3535 kg)	6,460 lb. (2930 kg)	2,720 lb. (1235 kg)	1,990 lb. (900 kg)	7,630 lb. (3460 kg)	7,270 lb. (3300 kg)	3,410 lb. (1545 kg)	2,520 lb. (1145 kg)
26' (7.9 m)	6,800 lb. (3085 kg)	5,700 lb. (2585 kg)	2,360 lb. (1070 kg)	1,610 lb. (730 kg)	7,100 lb. (3220 kg)	6,330 lb. (2870 kg)	2,940 lb. (1335 kg)	2,150 lb. (975 kg)
28' (8.5 m)	5,820 lb. (2640 kg)	5,040 lb. (2285 kg)	2,100 lb. (955 kg)	1,410 lb. (640 kg)	6,590 lb. (2990 kg)	5,420 lb. (2460 kg)	2,550 lb. (1150 kg)	1,840 lb. (835 kg)
30' (9.1 m)	5,020 lb. (2280 kg)	4,420 lb. (2005 kg)	1,880 lb. (855 kg)	1,220 lb. (555 kg)	5,710 lb. (2590 kg)	4,760 lb. (2160 kg)	2,190 lb. (995 kg)	1,580 lb. (715 kg)
32' (9.8 m)	4,400 lb. (1995 kg)	3,950 lb. (1790 kg)	1,650 lb. (750 kg)	1,070 lb. (485 kg)	5,180 lb. (2350 kg)	4,080 lb. (1850 kg)	1,880 lb. (850 kg)	1,360 lb. (615 kg)
34' (10.4 m)	3,930 lb. (1785 kg)	3,570 lb. (1620 kg)	1,460 lb. (660 kg)	920 lb. (420 kg)	4,680 lb. (2125 kg)	3,570 lb. (1620 kg)	1,600 lb. (725 kg)	1,160 lb. (525 kg)
36' (11.0 m)	3,510 lb. (1590 kg)	3,190 lb. (1450 kg)	1,280 lb. (580 kg)	770 lb. (350 kg)	4,250 lb. (1930 kg)	3,190 lb. (1445 kg)	1,370 lb. (620 kg)	990 lb. (450 kg)
37.5' (11.4 m)	3,210 lb. (1455 kg)	2,890 lb. (1310 kg)	1,180 lb. (535 kg)	680 lb. (310 kg)	3,830 lb. (1740 kg)	2,970 lb. (1345 kg)	1,240 lb. (560 kg)	880 lb. (400 kg)
40' (12.2 m)	2,950 lb. (1340 kg)	2,600 lb. (1180 kg)	1,070 lb. (485 kg)	610 lb. (275 kg)	3,400 lb. (1540 kg)	2,700 lb. (1225 kg)	1,070 lb. (485 kg)	740 lb. (335 kg)
42' (12.8 m)	2,760 lb. (1250 kg)	2,430 lb. (1100 kg)	970 lb. (440 kg)	550 lb. (250 kg)	3,150 lb. (1430 kg)	2,490 lb. (1130 kg)	960 lb. (435 kg)	630 lb. (285 kg)
44' (13.4 m)	2,590 lb. (1175 kg)	2,250 lb. (1020 kg)	890 lb. (405 kg)	500 lb. (225 kg)	2,890 lb. (1310 kg)	2,300 lb. (1045 kg)	870 lb. (395 kg)	540 lb. (245 kg)
46' (14.0 m)	2,430 lb. (1100 kg)	2,090 lb. (950 kg)	800 lb. (365 kg)	450 lb. (205 kg)	2,630 lb. (1190 kg)	2,130 lb. (965 kg)	790 lb. (360 kg)	470 lb. (215 kg)
48.75' (14.8 m)	2,240 lb. (1015 kg)	1,850 lb. (840 kg)	680 lb. (310 kg)	380 lb. (170 kg)	2,320 lb. (1050 kg)	1,930 lb. (875 kg)	710 lb. (320 kg)	370 lb. (165 kg)
52.5' (16.0 m)	2,030 lb. (920 kg)	1,480 lb. (670 kg)	500 lb. (230 kg)	290 lb. (130 kg)	2,070 lb. (940 kg)	1,710 lb. (775 kg)	590 lb. (265 kg)	280 lb. (125 kg)
58' (17.7 m)					1,720 lb. (780 kg)	1,380 lb. (625 kg)	420 lb. (190 kg)	170 lb. (75 kg)
63.75' (19.4 m)					1,330 lb. (605 kg)	1,020 lb. (460 kg)	230 lb. (105 kg)	60 lb. (25 kg)

BOOM ANGLE (DEG)	BOOM EXTENSION STRUCTURAL CAPACITIES					
	4TH RETRACTED			4TH EXTENDED		
	0°	15°	30°	0°	15°	30°
69°	6,000 lb. (2720 kg)	3,900 lb. (1770 kg)	2,800 lb. (1270 kg)	5,180 lb. (2350 kg)	3,900 lb. (1770 kg)	2,800 lb. (1270 kg)
65°	5,000 lb. (2270 kg)	3,500 lb. (1590 kg)	2,550 lb. (1155 kg)	4,970 lb. (2255 kg)	3,500 lb. (1590 kg)	2,550 lb. (1155 kg)
60°	4,300 lb. (1950 kg)	3,150 lb. (1430 kg)	2,350 lb. (1065 kg)	4,300 lb. (1950 kg)	3,150 lb. (1430 kg)	2,350 lb. (1065 kg)
55°	3,800 lb. (1725 kg)	2,850 lb. (1290 kg)	2,200 lb. (995 kg)	3,800 lb. (1725 kg)	2,850 lb. (1295 kg)	2,200 lb. (1000 kg)
50°	3,400 lb. (1540 kg)	2,600 lb. (1180 kg)	2,100 lb. (955 kg)	3,400 lb. (1540 kg)	2,600 lb. (1180 kg)	2,100 lb. (955 kg)
45°	3,050 lb. (1385 kg)	2,400 lb. (1090 kg)	2,000 lb. (905 kg)	3,050 lb. (1385 kg)	2,400 lb. (1090 kg)	2,000 lb. (910 kg)
40°	2,800 lb. (1270 kg)	2,250 lb. (1020 kg)	1,950 lb. (885 kg)	2,800 lb. (1270 kg)	2,250 lb. (1020 kg)	1,950 lb. (885 kg)
35°	2,600 lb. (1180 kg)	2,150 lb. (975 kg)	1,900 lb. (860 kg)	2,600 lb. (1180 kg)	2,150 lb. (975 kg)	1,900 lb. (860 kg)
30°	2,400 lb. (1090 kg)	2,080 lb. (945 kg)	1,850 lb. (840 kg)	2,400 lb. (1090 kg)	2,080 lb. (945 kg)	1,850 lb. (840 kg)
25°	2,300 lb. (1045 kg)	2,050 lb. (930 kg)	1,850 lb. (840 kg)	2,300 lb. (1045 kg)	2,050 lb. (930 kg)	1,850 lb. (840 kg)
20°	2,200 lb. (1000 kg)	2,000 lb. (905 kg)	1,850 lb. (840 kg)	2,200 lb. (1000 kg)	2,000 lb. (905 kg)	1,850 lb. (840 kg)
15°	2,100 lb. (955 kg)	1,950 lb. (885 kg)	1,850 lb. (840 kg)	2,100 lb. (955 kg)	1,950 lb. (885 kg)	1,850 lb. (840 kg)
10°	2,050 lb. (930 kg)	1,950 lb. (885 kg)	1,850 lb. (840 kg)	2,050 lb. (930 kg)	1,950 lb. (885 kg)	1,850 lb. (840 kg)
5°	2,020 lb. (915 kg)	1,950 lb. (885 kg)	1,850 lb. (840 kg)	2,020 lb. (915 kg)	1,950 lb. (885 kg)	1,850 lb. (840 kg)
0°	2,000 lb. (905 kg)	1,950 lb. (885 kg)	1,850 lb. (840 kg)	2,000 lb. (905 kg)	1,950 lb. (885 kg)	1,850 lb. (840 kg)

SHUTTLELIFT® Carrydeck® Industrial Cranes

MODEL 5540F 15 TON (13 600 KG)



SHADED AREAS ARE GOVERNED BY STRUCTURAL STRENGTH. DO NOT RELY ON TIPPING.
BOOM EXTENSION CAPACITY LIMITED BY BOTH THE STRUCTURAL CAPACITY CHART AND THE MAIN CAPACITY CHART

NOTE: These charts are only a guide and should not be used to operate the crane. The individual crane load charts, operating instructions and other instructional information must be read and understood prior to operating the crane.

Note: Shuttlelift reserves the right to change these specifications without notice and incurring any obligation relating to such changes.



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Specifications

GENERAL INFORMATION

Unit weight	26,300 lb. (11 929 kg)
Boom elevation	0° - 69°
Outrigger pad size	10.75 in. x 16.50 in. (273 mm x 419 mm)

SERVICE CAPACITIES

Fuel tank	40 gal. (151.4 L)
Hydraulic system	30 gal. (113.6 L)
Hydraulic tank	40 gal. (151.4 L)

WINCHES

Main winch:	
Drum diameter	9.75 in. (248 mm)
Wire rope diameter	1/2 in. (12.7 mm) 6 x 19 EIPS-IWRC wire rope

Wire rope length:	
3-Section Boom	240 ft. (73.0 m)
4-Section Boom	290 ft. (88.4 m)
Line speed (average)	126 fpm (38.4 m/min)
Line pull, bare drum	12,000 lb. (5448 kg)

Note: Maximum permissible single line pull 7,500 lb. (3402 kg)

Hydraulic recessed winch (optional):	
Drum diameter	4 in. (102 mm)
Wire rope diameter	7/16 in. (11 mm)
Wire rope length	115 ft. (35 m)
Line speed, first layer	26 fpm (7.9 m/min)
Line pull, bare drum	10,000 lb. (4536 kg)

STANDARD EQUIPMENT

- Hydraulic Boom, 5540F:
 - 3 section, 18 ft. 6 in. to 41 ft. 0 in. (5.63 m to 12.50 m) from boom pivot pin to boom head pin; 69° boom elevation
- 2 wheel steer/4 wheel steer/crab steer
- 4 speed synchromesh transmission
- 2 wheel drive
- Left and right side outrigger controls
- Boom angle indicators (2)
- Anti-skid deck surface
- Double blocking crowd out, winch in and luff down kickout
- Electric horn
- Lights-head, tail, rear work, stop, and turn signals
- Engine hourmeter
- All steel cab structure
- Adjustable operator's seat with seat belt
- Engine - Cummins B3.3 diesel engine
- Front and rear tie down
- Backup alarm
- Wireless load Indicator
- 1 year, 2000 hour warranty (parts and labor), and 5 year structural warranty
- Outriggers - One stage hydraulic telescoping box - front and rear
- 15 ton (13.6 metric ton) double sheave, quick reave drop block
- Rope packer
- All load carrying cylinders include load hold check valves
- Tool box
- Fire extinguisher

OPTIONAL EQUIPMENT

- Manually pinned 4 section boom, 18 ft. 6 in. to 52 ft. 3 in. (5.63 m to 15.93 m) from boom pivot pin to boom head pin; 69° boom elevation
- Enclosed cab with windshield wiper and sliding right side window, and heater and defroster.
- Suspension seat
- Independent outrigger controls (four controls)
- GM dual fuel engine with shutdown feature
- Four-wheel drive with oscillating rear axle (1.5°)
- 2-wheel, 4-wheel and crab steer with electronic self-alignment.
- Rough terrain package with oscillating rear axle (4°) and axle lockouts - 4WD only
- CE compliance (see Note)

ACCESSORIES AND ATTACHMENTS

- Cold start kit (Ether injector and second battery)
- Load moment indicator (LMI) system
- Wireless rated capacity limiter (RCL)
- Flashing amber strobe light
- Rear hitch (pintle)
- Front hitch (pintle)
- Swing away boom extension - 15 ft. (4.6 m)
- Offsettable swing away boom extension -15 ft. (4.6 m)
- Single part line down haul block
- Hydraulic recessed winch
- Spare wheel and tire
- Engine shut down feature (diesel)
- Dual rearview mirrors
- Spark arrestor
- Foam filled tires
- Non-marking tires
- Lifting lugs (four)
- Catalytic converter for diesel engine
- 3 ton capacity searcher hook
- Engine block heater
- Head and tail light guards

HYDRAULIC SYSTEM

Swing system 360° continuous swing system has positive operator control

Swing speed continuous at 2.1 rpm

System pressure 3500 psi (241.3 bars)

HYDRAULIC CYLINDERS

CYCLE TIMES

800 rpm	2500 rpm
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Hoist Cylinder (full stroke):	
Extend	60 sec. 17 sec.
Retract	54 sec. 14 sec.

Crowd Cylinder (full stroke):	
Extend	132 sec. 38 sec.
Retract	85 sec. 22 sec.

Outriggers (individual):	
Down	11 sec. 3 sec.
Up	9 sec. 3 sec.

TIRE SIZE

385/65R22.5 radial, high traction tread

FRONT AXLE

Rigid mounted planetary drive/steer with limited slip differential.

DRAWBAR PULL

Unit equipped with 385/65R22.5 tires, diesel engine and no load on deck:

1st gear	19, 770 lb. (8968 kg)
2nd gear	13,000 lb. (5897kg)
3rd gear	7,065 lb. (3205 kg)
4th gear	4,305 lb. (1954 kg)

REAR AXLE

Two-Wheel Drive

Steer axle pin mounted.

Four-Wheel Drive (optional)

Planetary drive/steer axle with 1.5° of oscillation, or 4° of oscillation

BRAKES

Service Brakes Front and rear, internal wet disc, hydraulic actuated

Parking Brake Spring applied, hydraulic released

TURNING SPECIFICATIONS

Turning radius: to center line of outside wheels	
Two-wheel steer	21 ft. 6 in. (6.55 m)
Four-wheel steer	12 ft. 4in. (3.76 m)

ENGINE

Standard (Diesel):	
Make and model	Cummins B3.3
Horsepower	85@ 2600 rpm (63 kw @ 2600 rpm)

Optional (Dual Fuel)	
Make and model	GM 4.3L EFI V6, US EPA & CARB 2004 certified
Horsepower (Propane)	101@2500 rpm (75.3 kw @ 2500 rpm)

ELECTRICAL

Starting system	12 volt electric
Battery (1)	820 CCA @ 0° F (-18° C)
Alternator	63 amp

TRANSMISSION

Type synchromesh transmission
4 speed forward/reverse

Unit standard with transmission oil cooler and filter

TRAVEL SPEEDS

Standard tires:	
1st gear	3.7 m.p.h. (6.0 km/h)
2nd gear	5.8 m.p.h. (9.3 km/h)
3rd gear	11.8 m.p.h. (19.0 km/h)
4th gear:	14.5 m.p.h. (23.3 km/h)

MAXIMUM GRADEABILITY (Paved Surface) - Calculated

1st gear (calculated, standard tires, diesel engine):	
No load	73%
20,000 lb (9072 kg) load	41%

Note: All specifications are stated in accordance with PCSA and ANSI B30.5 definitions, SAE standards or recommended practices, where applicable.

Note: CE compliance will require unit modifications along with a derated load capacity chart. Contact factory.

Rated Load Capacities (5540F With 3 Section Boom)

	Operating Radius	3-Section Boom				
		On Outriggers		On Rubber		
		Front	360°	Front	360°	
MAIN BOOM	6' (1.8 m)	30,000 lb. (13 610 kg)	30,000 lb. (13 610 kg)	17,000 lb. (7710 kg)	17,000 lb. (7710 kg)	
	8' (2.4 m)	26,200 lb. (11 885 kg)	26,200 lb. (11 885 kg)	13,500 lb. (6125 kg)	14,600 lb. (6620 kg)	
	10' (3.0 m)	22,300 lb. (10 115 kg)	22,300 lb. (10 115 kg)	10,700 lb. (4845 kg)	10,880 lb. (4935 kg)	
	12' (3.7 m)	18,600 lb. (8435 kg)	18,600 lb. (8435 kg)	8,710 lb. (3950 kg)	8,100 lb. (3675 kg)	
	14' (4.3 m)	14,800 lb. (6715 kg)	14,800 lb. (6715 kg)	7,210 lb. (3270 kg)	6,000 lb. (2720 kg)	
	15' (4.6 m)	13,000 lb. (5900 kg)	13,000 lb. (5900 kg)	6,600 lb. (2995 kg)	5,250 lb. (2380 kg)	
	16' (4.9 m)	12,200 lb. (5535 kg)	12,200 lb. (5535 kg)	6,060 lb. (2750 kg)	4,760 lb. (2160 kg)	
	18' (5.5 m)	10,800 lb. (4900 kg)	10,800 lb. (4900 kg)	5,120 lb. (2260 kg)	3,900 lb. (1770 kg)	
	20' (6.1 m)	9,630 lb. (4370 kg)	9,180 lb. (4165 kg)	4,370 lb. (1980 kg)	3,190 lb. (1440 kg)	
	22' (6.7 m)	8,640 lb. (3920 kg)	7,480 lb. (3395 kg)	3,710 lb. (1685 kg)	2,660 lb. (1210 kg)	
	24' (7.5 m)	7,790 lb. (3535 kg)	6,210 lb. (2815 kg)	3,070 lb. (1395 kg)	2,200 lb. (1000 kg)	
	26' (7.9 m)	7,040 lb. (3195 kg)	5,310 lb. (2410 kg)	2,620 lb. (1190 kg)	1,820 lb. (825 kg)	
	28' (8.5 m)	6,420 lb. (2910 kg)	4,740 lb. (2150 kg)	2,260 lb. (1025 kg)	1,530 lb. (695 kg)	
	30' (9.1 m)	5,700 lb. (2585 kg)	4,290 lb. (1945 kg)	1,990 lb. (905 kg)	1,320 lb. (600 kg)	
	32' (9.8 m)	5,060 lb. (2295 kg)	3,920 lb. (1780 kg)	1,790 lb. (810 kg)	1,160 lb. (525 kg)	
	34' (10.4 m)	4,510 lb. (2045 kg)	3,580 lb. (1625 kg)	1,610 lb. (730 kg)	1,040 lb. (470 kg)	
	36' (11.0 m)	4,020 lb. (1825 kg)	3,260 lb. (1480 kg)	1,460 lb. (660 kg)	930 lb. (420 kg)	
	37.50' (11.4 m)	3,700 lb. (1680 kg)	3,060 lb. (1387 kg)	1,370 lb. (620 kg)	860 lb. (390 kg)	
	BOOM EXTENSION	40' (12.2 m)	3,480 lb. (1580 kg)	2,860 lb. (1300 kg)	1,270 lb. (575 kg)	800 lb. (365 kg)
		42' (12.8 m)	3,310 lb. (1500 kg)	2,700 lb. (1225 kg)	1,190 lb. (540 kg)	740 lb. (335 kg)
44' (13.1 m)		3,130 lb. (1420 kg)	2,560 lb. (1160 kg)	1,120 lb. (510 kg)	690 lb. (315 kg)	
46' (14.0 m)		2,960 lb. (1345 kg)	2,410 lb. (1095 kg)	1,040 lb. (470 kg)	640 lb. (290 kg)	
48.8' (14.9 m)		2,710 lb. (1230 kg)	2,210 lb. (1000 kg)	930 lb. (420 kg)	570 lb. (260 kg)	
52.5' (16.0 m)	2,390 lb. (1080 kg)	1,940 lb. (880 kg)	790 lb. (360 kg)	480 lb. (220 kg)		

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RATING REDUCTIONS FOR INSTALLED LOAD HANDLING DEVICES		
DEVICE	FROM MAIN BOOM	FROM BOOM EXTENSION
MAIN BLOCK	210 LB (95.3 kg)	N/A
HOOK & BALL	100 LB (45.4 Kkg)	100 (45.4 kg)
EXTENSION - STOWED	NO DEDUCTION	N/A
EXTENSION - DEPLOYED	700 LB (318 kg)	NO REDUCTION

NOTE: These charts are only a guide and should not be used to operate the crane. The individual crane load charts, operating instructions and other instructional information must be read and understood prior to operating the crane.