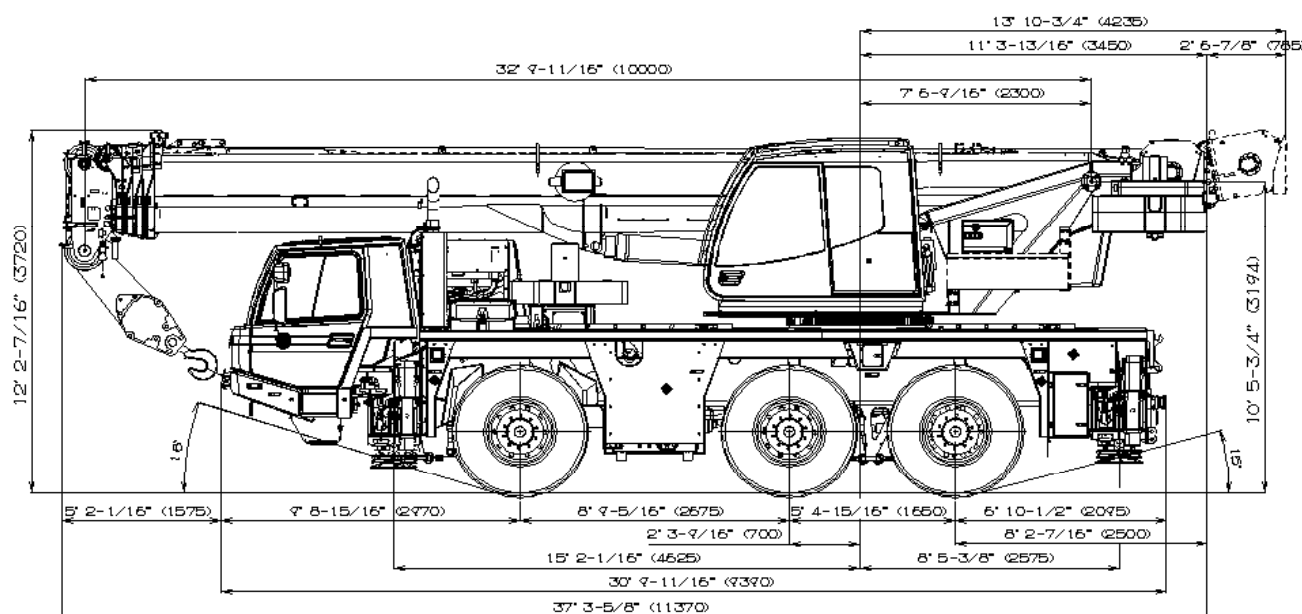


**TADANO**

ATF50G-3

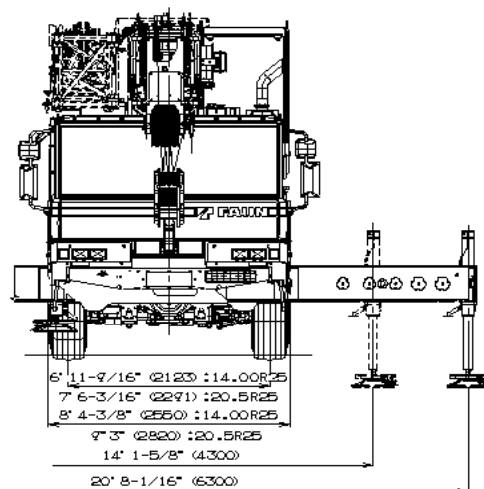
55 Ton Capacity (49.9 Metric Tons)**ALL TERRAIN CRANE**

DIMENSIONS



TURNING RADIUS

Steering	Front wheel(6X4)	All wheel(6X6)
Carrier inside	12'11-1/2"(3950mm)	9'3-13/16"(2840mm)
Over carrier	28'7-5/16"(8720mm)	21'11-3/4"(6700mm)
Over boom	30'8-7/8"(9370mm)	23'9-7/16"(7250mm)
Over boom extension	32'7-3/4"(9950mm)	25'9-1/16"(7850mm)



Specifications are subject to change without notice.



1. CRANE CARRIER

1.1 FRAME

FAUN purpose built, 3 axle, box-type, torsion resistant, welded construction made of high tensile steel with integrated outrigger housings. Equipped with front and rear fenders, front and rear towing and tie-down lugs and towing connections and access ladders.

1.2 OUTRIGGERS

Four point, fully hydraulic, double telescopic outriggers with horizontal and vertical motions are independently controlled by electro-magnetic valves. Push button controls with level gauges on both sides of carrier and in super-structure cab. Vertical cylinders with integral holding valves. Large sized floats can be stored on vertical cylinders or on carrier for road travel. Outrigger base: length 23' 7-7/16" (7.2m), width 20' 8-1/16" (6.3m) Mid. extension 14' 1-4" (4.3m).

1.3 CARRIER ENGINE

Mercedes Benz 6 cylinder water-cooled diesel engine, model OM 926 LA (EUROMOT 3A, EPA Tier 3), with hydrostatically driven fan and thermostatically controlled cooler. Displacement 439.37 in³, Rating 326 hp at 2,200 rpm: Torque 958.83 ft-lbs at 1,300-1,600 rpm.

1.4 TRANSMISSION

ZF AS-Tronic, type 12AS2302, with electro-pneumatically controlled dry clutch and fully automatic control system, 12 forward speeds and 2 reverse gears.
Gear ratios Forward: 12.33 / 9.59 / 7.44 / 5.78 / 4.57 / 3.55 / 2.70 / 2.10 / 1.63 / 1.27 / 1.00 / 0.78
Reverse: 11.41 / 8.80

1.5 DRIVE

6 4 for on-road: 1st and 3rd axle are driven
6 6 for off-road: 1st, 2nd and 3rd axle are driven

1.6 AXLES

1st axle : steered, driven with transverse differential lock, reduction : 9.31
2nd axle steered, driven with transverse and longitudinal differential locks, reduction : 9.23
3rd axle : steered, driven with transverse differential lock, reduction : 9.24
All steering knuckle bearings designed for minimum maintenance (yearly inspection).

1.7 SUSPENSION

Hydro-pneumatic, lockable with level adjustment. All axles have longitudinal and transverse trailing arms. With leveling adjustment and locked cylinders, the chassis can be tilted laterally and longitudinally by push buttons in the carrier cab which adjust the stroke of each individual suspension cylinder.

Cylinder stroke: - 3-15/16" (+ 100mm)
+3-15/16" (+ 100mm)

1.8 BRAKE SYSTEM

Service brake : Dual circuit compressed air system with ABS and air-dryer.
Parking brake : Spring loaded type, acting on 1st and 2nd axles.
Auxiliary brake : Engine exhaust brake and constant throttle engine brake system.
Eddy-current brake(OPTIONAL)

1.9 WHEELS

(6) 11.00-25 steel disc wheels with (6) 16.00R25 on / off-road profile tires and mud flaps.
Carrier width: 8' 4-3/8" (2.55m) with 14.00R25 tires
8' 8-3/4" (2.66m) with 16.00R25 tires (OPTIONAL)
9' 3" (2.82m) with 20.5R25 tires (OPTIONAL)

1.10 STEERING SYSTEM

ZF Servocom dual circuit hydraulic steering, Mechanical steering of the 1st axle with hydraulic booster and a emergency steering pump is flange-mounted to the 2nd axle.
Rear axles steering mechanically locked in "centered" position. At slow speeds, 2nd axle can also be hydraulically steered together with the front axles.
All bearings are designed for minimum maintenance.

1.11 POWER TRAIN

Axles, suspension cylinders and drive-shafts with cross-geared flanges virtually maintenance-free.

1.12 FUEL TANK CAPACITY

92.47 gal (350 l) filler cap lockable.

1.13 CARRIER CAB

Two man full width cab of composite structure (steel sheet metal and fiber glass), windshield of laminated safety glass with windshield wiper and washer, sliding side windows of hardened safety glass. Driver and co-driver seats adjustable and air-suspended with integrated 3 point safety belts and headrests. 2 rear-view mirrors (electrically adjustable), 1 wide angle mirror and additional curb mirror, all mirrors heated, Radio with CD player and connections for wireless. Engine dependent warm-water heater with defroster nozzles for windshield and cab floor.
Instrumentation includes speedometer, odometer, tachograph, rpm counter with hour meter, fuel level gauge, air pressure gauge and engine warning lamp.
Air conditioner(OPTIONAL)

1.14 ELECTRICAL SYSTEM

24 volt DC system with 100 ampere 3-phase generator, and two 12 volt, 170 Ah batteries.
Front lighting includes 2 main head lights, 2 high beam lights, 2 directional indicators and 2 parking lights.
Rear lighting includes 2 rear combi panels each with directional indicator, parking light, brake light, fog light, reversing light and license plate light.
Side lighting includes 2 front directional indicators and reflectors on carrier.
Other equipment includes hazard warning light system, cab light, instrument panel light, signal horn and amber rotating beacon on cab roof.
Lighting according to EEC regulations.

**1.15 TOOLS AND ACCESSORIES**

Special tool set, hazard warning triangle, hazard flashing lamp, fire extinguisher and first aid kit.

1.16 PAINTING

Standard TADANO colors

1.17 DIMENSIONS

Overall width : 8' 4-3/8" (2.55m) with 14.00R25 tires
 8' 8-3/4" (2.66m) with 16.00R25 tires
 9' 3" (2.82m) with 20.5R25 tires
 Overall height : 12' 2-7/16" (3.72m) with 14.00R25 tires
 12' 4-7/16" (3.77m) with 16.00R25/20.5R25 tires
 In travel condition, the overall height can be adjusted $\pm 3-15/16"$ (100mm)
 Overall length : 39' 10-9/16" (12.155m) with Aux. winch
 37' 3-5/8" (11.370m) without Aux. winch
 Carrier length : 30' 9-11/16" (9.39m)
 Wheel base : 8' 9-5/16" + 5' 4-15/16" (2.675m + 1.65m)
 Tail swing : 13' 10-3/4" (4.235m) with Aux. winch
 11' 3-13/16" (3.45m) without Aux. winch

1.18 CARRIER OPTIONAL EQUIPMENT

1. Additional hot water heater with engine pre-heat (Thermo 90ST) - diesel powered
2. Eddy current retarder brake
3. Toolbox at rear
4. Central lubricating system
5. Air conditioning
6. Battery recharge and remote start connections
7. 4 working lights for outrigger extension
8. Hook block storage
9. Spare wheel
10. 360 degree positive swing lock
11. Cold weather package (Arctic oil, 75W/90 gear oil)
12. Boom dolly bracket installed at factory

2. TRAVEL PERFORMANCE (according to DIN 70020)

Max. travel speed : 52.8* mph

Max. gradeability : 59.0 %

Gear	16.00R25 / 20.5R25 tires, GVW 7,9370 lb		14.00R25 tires, GVW 7,9370 lb	
	Travelling speed (mph)	Gradabilities (%)	Travelling speed (mph)	Gradabilities (%)
1st	0 - 3.7	59	0 - 3.1	66
2nd	4.3	42	4.3	47
3rd	6.2	32	5.6	35
4th	7.4	24	6.8	26
5th	9.9	18	8.7	20
6th	13.1	14	11.1	15
7th	16.1	10	14.9	11
8th	21.1	8	19.2	8
9th	27.3	6	24.7	6
10th	34.8	4	31.7	5
11th	44.1	3	40.4	3
12th	52.8*)	2	52.2*)	2
1st Rev.	3.7	53	3.7	59
2nd Rev.	4.9	39	4.3	43

The gradeability is based on theoretical values and depends on ground conditions and the coefficient of friction.

*) Reduced by electronic engine management system

With tires 14.00R25, the maximum distance covered within one hour must not exceed 44 miles.



3. SUPERSTRUCTURE

3.1 SUPERSTRUCTURE FRAME

Connected to carrier by a single-race ball bearing slewing ring with external gearing providing 360° continuous rotation.

3.2 HYDRAULIC SYSTEM

Three circuit diesel hydraulic system with 1 axial piston twin variable displacement (hydraulically controlled) with cumulative control for telescoping, derricking and hoisting plus 1 twin gear pump for swing, steering, outriggers and pilot controls.

Hydraulic oil cooler.

3.4 HYDRAULIC CONTROLS

2 joy-stick levers and 4 three-way hydraulically operated valves for independent simultaneous operation of all crane motions with stepless speed control.

3.5 TELESCOPIC BOOM

Five section box type construction of high tensile, fine grained steel, consisting of 1 base section and 4 telescopic sections. The boom is extended by means of 2 double acting single stage cylinder and a rope crowed extension system

All telescope sections can be extended and retracted fully automatic.

The telescopes 1 and 2-4 can be telescopes independently

All telescope sections are extendable under partial load.

Total retracted length : 32' 9-11/16" (10.0m)

Total extended length : 131' 2-13/16" (40.0m)

Max. sheave height : 141' 15/16" (43.0m)

Telescoping speed out : 90 sec.

3.6 TELESCOPIC BOOM EXTENSION (OPTIONAL)

Swing around lattice type boom extension

29' 6-5/16" (9.0m) / 52' 5-15/16" (16.0m), offsets 0° / 20° / 40° with anti-two block system.

3.7 AUXILIARY LIFTING SHEAVE (SINGLE TOP)(OPTIONAL)

Single sheave mounted to main boom head for single line operation (stowable). Equipped with anti-two block system.

3.8 BOOM HOIST

1 double acting hydraulic cylinder -2° to +83°

Boom elevation : 65 sec. normal speed /

Boom elevation speed : 40 sec. high speed (only derricking up)

3.9 MAIN WINCH

Axial piston constant displacement motor, grooved hoist drum, integral planetary gear, automatic hydraulically controlled spring-loaded multiple disc brake and integral free wheeling (no sagging of load by hoisting).

Winch drive assembly connected to open hydraulic system. Wire rope with "Superstop" easy reeving system.

Lower limit switch and drum 15-3/4" (400mm)

Drum diameter : 0.63" (16mm)

Rope diameter : 558' (170m)

Rope length : 9892 lbs. (44 kN)

Max. line pull : 443ft/min (135m/min)

Max. line speed :

3.10 AUXILIARY WINCH(OPTIONAL)

Axial piston constant displacement motor, grooved hoist drum, integral planetary gear, automatic hydraulically controlled spring-loaded multiple disc brake and integral free wheeling (no sagging of load by hoisting). Winch drive assembly connected to open hydraulic system. Wire rope with "Superstop" easy reeving system. Lower limit switch and drum turn indicator.

Drum diameter : 15-3/4" (400mm)

Rope diameter : 0.63" (16mm)

Rope length : 558' (170m)

Max. line pull : 9892 lbs. (44 kN)

Max. line speed : 443ft/min (135m/min)

3.11 SLEWING GEAR

Constant displacement motor with two stage planetary gear, a foot actuated service brake and a parking brake. Slewing speed infinitely variable: 0 - 2.2 rpm

3.12 COUNTERWEIGHT

Total 22,046lbs, divisible, assembled and disassembled by hydraulic cylinders controlled from crane cab.

Tail swing : 13' 10-3/4" (4.235m) with Aux. winch

11' 3-13/16" (3.45m) without Aux. winch

3.13 SUPERSTRUCTURE CAB

Spacious comfortable panoramic cab with sliding door, extra-large tinted glass windows, electrical fold-out front window with windshield washer and wiper, fixed cab roof window with armoured glass and washer/wiper, sun visor, cab light, adjustable hydraulically cushioned seat with headrest, signal horn, radio with CD player, and connection for wireless (12 volt).

Autonomous warm water heating (Webasto Thermo 50), diesel-operated.

Ergonomically positioned control elements and instrumentation for crane operation.

Travel controls for steering and driving in 1st forward and reverse gear only.

Outrigger controls and level from superstructure cab.

Air conditioner(OPTIONAL)

3.14 ELECTRICAL SYSTEM

24 volt system with 1 rotating beacon on left-hand side of main winch, 2 working lights on cab front flap, 1 working light on boom base section and 2 side lights on boom head.

3.15 SAFETY DEVICES

Electronic load moment device (AML) with interpolation and automatic overload shut-off, hoist limit switch with shut-off, overload warning and load moment gauge.

Digital display of boom angle, boom length, sheave height working radius, hook load and further information.

Working area limitation for lifting height, load radius and boom angle.

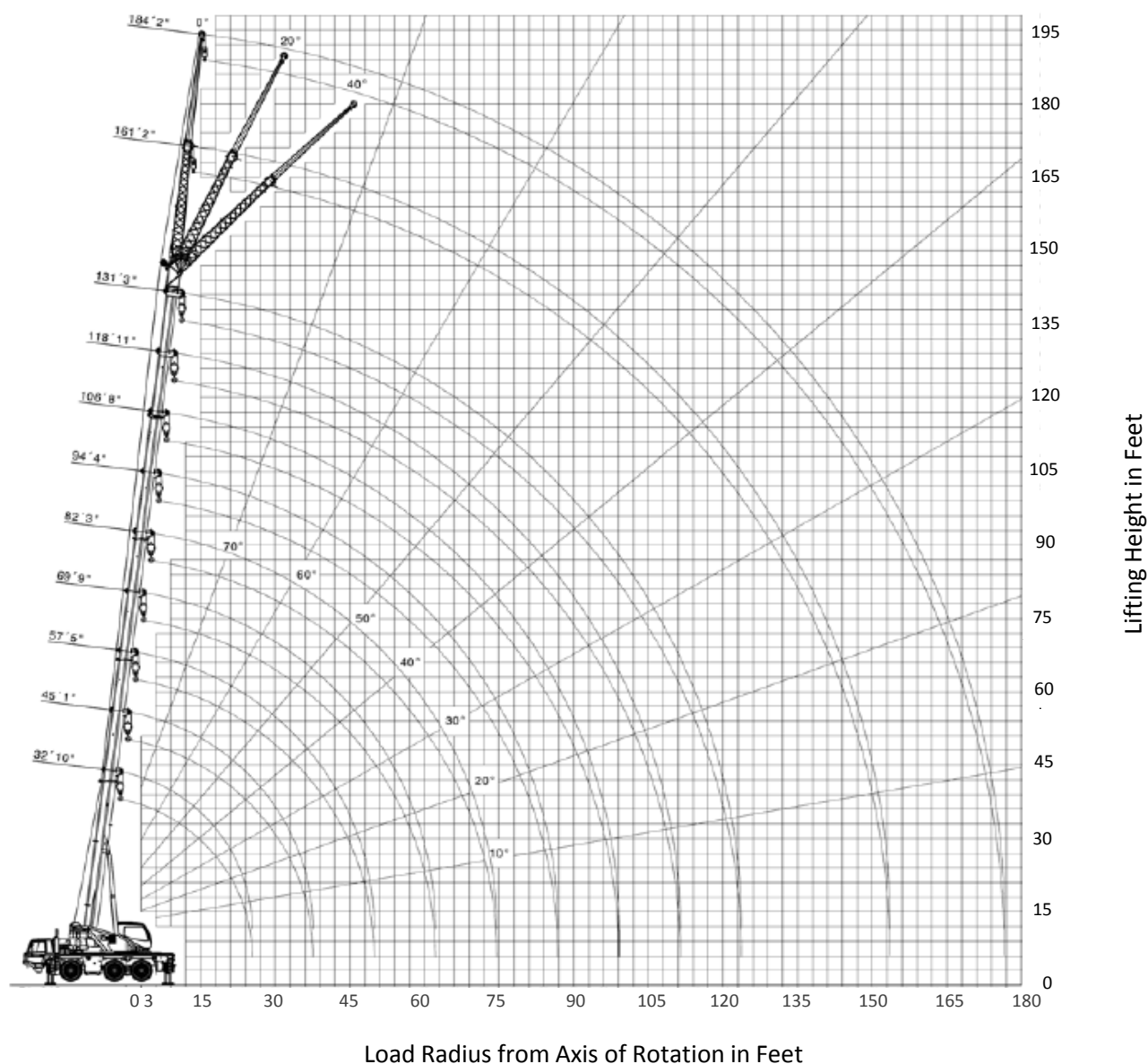
Safety valves against pipe and hose rupture, holding valves on hydraulic cylinders.

3.16 SUPERSTRUCTURE OPTIONAL EQUIPMENT

1. Telescopic boom extension 9.0m - 16.0m, incl. LMD programme
2. Headache ball 6t (150kg)
3. Hook block 12.5t, (1 sheave, 170 kg)
4. Hook block 32t, (3 sheaves, 300 kg)
5. Hook block 50t, (5 sheaves, 475 kg)
6. Auxiliary winch
7. Extended boom point sheave (single top)
8. Central lubricating system
9. Toolbox
10. Additional hydraulic oil cooler
11. Air conditioning
12. Additional working area limitation (slew limit)
13. 2 pcs of working lights at base boom, electrically moveable



ATF50G-3 WORKING RANGE CHART



Note : Boom and jib geometry shown are for unloaded condition and machine standing level on firm supporting surface. Boom deflection and subsequent radius and boom angle change must be accounted for when applying load to hook.



Counterweight 22,046 lbs

99707704609

* With additonal lifting equipment

Operation and maintenance of this machine must be in compliance with the information provided in the "Operation and Maintenance Manual" supplied with this machine.

99707704609

* With additonal lifting equipment

Operation and maintenance of this machine must be in compliance with the information provided in the "Operation and Maintenance Manual" supplied with this machine.



Counterweight 10,803 lbs

Working radius [ft]	Lifting capacities in 10 ³ lbs according per SAE J765, at telescopic boom On outriggers, 360° working area Outriggers fully extended, outrigger base 20.67 ft																				Working radius [ft]																		
	Boom length [ft]										Boom length [ft]																												
	32.8 °	45.1 °	45.1 °	57.4 °	57.4 °	69.7 °	69.7 °	82.0 °	82.0 °	94.3 °	94.3 °	106.6 °	106.6 °	118.9 °	131.2 °																								
8.2	66	110.0*																													8.2								
9.8	63	100.1*	100.1*	71	66.1	71	44.1	76	66.1	76	44.1	78	44.1	78	44.1																9.8								
11.5	59	91.7	91.7	69	66.1	69	44.1	74	66.1	74	44.1	77	44.1	77	44.1	79	44.1	79	28.7												11.5								
13.1	56	84.7	81.3	66	66.1	66	44.1	72	66.1	72	44.1	76	44.1	76	44.1	78	44.1	78	28.7	80	38.8	80	28.7								13.1								
14.8	52	76.1	73.0	64	66.1	64	44.1	71	63.3	71	44.1	74	44.1	74	44.1	77	44.1	77	28.7	79	38.8	79	28.7								14.8								
16.4	48	66.8	65.9	61	64.8	61	44.1	69	59.3	69	44.1	73	44.1	73	44.1	76	44.1	76	28.7	78	37.9	78	28.7	80	28.2	80	23.4				16.4								
19.7	39	54.5	54.5	56	51.6	56	44.1	65	46.1	65	44.1	70	44.1	70	44.1	74	40.1	74	28.7	76	34.4	76	27.8	78	28.2	78	23.4	80	21.8		19.7								
23.0	26	41.4	41.0	51	39.2	51	41.9	61	37.0	61	42.1	67	36.2	67	40.8	71	35.1	71	28.7	74	31.5	74	25.6	77	27.3	77	22.3	78	21.8	80	16.5	23.0							
26.2				45	30.4	45	33.5	57	29.3	57	34.2	64	30.2	64	34.6	69	30.0	69	27.1	72	28.7	72	23.4	75	25.4	75	20.5	77	21.8	78	16.5	26.2							
29.5				38	24.5	38	27.6	53	23.4	53	28.2	61	24.9	61	28.7	66	25.6	66	24.9	70	25.1	70	21.6	73	23.4	73	19.2	76	20.9	77	16.5	29.5							
32.8				30	20.1	30	22.9	49	19.4	49	23.8	58	20.7	58	24.3	64	21.4	64	23.1	68	21.6	68	20.1	71	20.9	71	17.9	74	19.4	76	16.5	32.8							
36.1				18	16.5	18	19.6	44	15.9	44	20.3	54	17.2	54	20.5	61	17.9	61	20.5	66	18.5	66	18.7	69	18.5	69	16.5	72	18.1	75	16.1	36.1							
39.4								38	13.2	38	17.4	51	14.6	51	17.9	58	15.2	58	17.9	64	15.7	64	17.4	68	16.1	68	15.4	70	16.1	73	15.2	39.4							
45.9								24	9.3	24	13.4	43	10.6	43	13.7	52	11.2	52	13.9	59	11.9	59	13.9	64	11.9	64	13.7	67	12.3	70	12.8	45.9							
52.5												33	7.5	33	10.6	46	8.4	46	11.0	54	9.0	54	11.0	59	9.3	59	11.2	64	9.5	67	9.9	52.5							
59.1												20	5.3	20	8.6	39	6.2	39	8.8	48	6.8	48	9.0	55	7.1	55	9.0	60	7.5	64	7.7	59.1							
65.6																30	4.4	30	7.3	42	5.1	42	7.3	50	5.3	50	7.5	56	5.7	60	6.2	65.6							
72.2																17	3.1	17	5.7	35	3.7	35	6.2	45	4.2	45	6.2	51	4.4	57	4.6	72.2							
78.7																				27	2.6	27	4.9	39	2.9	39	5.1	47	3.3	53	3.5	78.7							
85.3																				13	1.8	13	4.0	32	2.0	32	4.2	42	2.4	49	2.6	85.3							
91.9																							24	1.3	24	3.3	37	1.8	44	2.0	91.9								
98.4																								10	2.6			40	1.3	98.4									
Telescoping sequence [%]																				Telescoping sequence [%]																			
Tel. 1	0	50	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	100	100	100	Tel. 1									
Tel. 2	0	0	17	0	33	17	50	33	67	50	83	67	100	83	100	67	100	83	100	67	100	83	100	67	100	83	100	100	Tel. 2										
Tel. 3	0	0	17	0	33	17	50	33	67	50	83	67	100	83	100	67	100	83	100	67	100	83	100	67	100	83	100	100	Tel. 3										
Tel. 4	0	0	17	0	33	17	50	33	67	50	83	67	100	83	100	67	100	83	100	67	100	83	100	67	100	83	100	100	Tel. 4										

99707704613

1) Over rear with superstructure locking pin engaged

* With additional lifting equipment

Operation and maintenance of this machine must be in compliance with the information provided in the "Operation and Maintenance Manual" supplied with this machine.

**Counterweight 22,046 lbs**

Working radius [ft]	Liftina capacities in 10 ³ lbs according per SAE J765. at telescopic boom On outriggers, 360° working area Outriggers half extended, outrigger base 14.11 ft																				Working radius [ft]
	Boom length [ft]										Boom length [ft]										
	32.8	45.1	45.1	57.4	57.4	69.7	69.7	82.0	82.0	94.3	94.3	106.6	106.6	118.9	131.2						
	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°					
8.2	66	110.0*																		8.2	
9.8	63	100.1*	96.1	71	66.1	71	44.1	76	66.1	76	44.1	78	44.1	78	44.1					9.8	
11.5	59	91.7	84.2	69	66.1	69	44.1	74	66.1	74	44.1	77	44.1	77	44.1	79	44.1	79	28.7	11.5	
13.1	56	84.7	74.3	66	66.1	66	44.1	72	65.9	72	44.1	76	44.1	76	44.1	78	44.1	78	28.7	13.1	
14.8	52	78.3	66.4	64	62.8	64	44.1	71	56.0	71	44.1	74	44.1	74	44.1	77	44.1	77	28.7	14.8	
16.4	48	72.3	59.7	61	54.0	61	44.1	69	48.3	69	44.1	73	44.1	73	44.1	76	44.1	76	28.7	16.4	
19.7	39	59.3	43.2	56	41.4	56	44.1	65	37.5	65	43.0	70	36.6	70	40.8	74	35.3	74	28.7	19.7	
23.0	26	49.2	32.6	51	31.1	51	34.4	61	30.0	61	35.1	67	29.8	67	33.7	71	28.9	71	28.7	23.0	
26.2				45	24.5	45	27.3	57	23.4	57	28.0	64	24.7	64	28.4	69	24.3	69	27.1	26.2	
29.5				38	19.6	38	22.5	53	18.7	53	23.1	61	20.1	61	23.6	66	20.5	66	23.8	29.5	
32.8				30	16.1	30	18.7	49	15.2	49	19.4	58	16.5	58	19.8	64	17.2	64	20.1	32.8	
36.1				18	13.4	18	15.9	44	12.6	44	16.5	54	13.7	54	17.0	61	14.3	61	17.2	36.1	
39.4								38	10.4	38	14.3	51	11.5	51	14.6	58	12.1	58	15.0	39.4	
45.9								24	7.1	24	10.8	43	8.2	43	11.2	52	8.8	52	11.5	45.9	
52.5												33	6.0	33	8.8	46	6.6	46	9.0	52.5	
59.1												20	4.2	20	7.1	39	4.9	39	7.3	59.1	
65.6																30	3.5	30	5.7	65.6	
72.2																17	2.4	17	4.6	72.2	
78.7																				78.7	
85.3																27	2.0	27	4.0	85.3	
91.9																13	1.3	13	3.3	91.9	
98.4																				98.4	
Telescoping sequence [%]																					
Tel. 1	0	50	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	Tel. 1	
Tel. 2	0	0	17	0	33	17	50	33	67	50	83	67	100	83	100	83	100	83	100	Tel. 2	
Tel. 3	0	0	17	0	33	17	50	33	67	50	83	67	100	83	100	83	100	83	100	Tel. 3	
Tel. 4	0	0	17	0	33	17	50	33	67	50	83	67	100	83	100	83	100	83	100	Tel. 4	

99707704610

1) Over rear with superstructure locking pin engaged

* With additional lifting equipment

Operation and maintenance of this machine must be in compliance with the information provided in the "Operation and Maintenance Manual" supplied with this machine.

Counterweight 15,432 lbs

Working radius [ft]	Lifting capacities in 10 ³ lbs according per SAE J765. at telescopic boom On outriggers, 360° working area Outriggers half extended, outrigger base 14.11 ft																				Working radius [ft]
	Boom length [ft]										Boom length [ft]										
	32.8	45.1	45.1	57.4	57.4	69.7	69.7	82.0	82.0	94.3	94.3	106.6	106.6	118.9	131.2						
	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°					
8.2	66	110.0*																		8.2	
9.8	63	100.1*	93.0	71	66.1	71	44.1	76	66.1	76	44.1	78	44.1	78	44.1					9.8	
11.5	59	91.7	81.1	69	66.1	69	44.1	74	66.1	74	44.1	77	44.1	77	44.1	79	44.1	79	28.7	11.5	
13.1	56	84.7	71.6	66	63.9	66	44.1	72	56.0	72	44.1	76	44.1	76	44.1	78	44.1	78	28.7	13.1	
14.8	52	78.3	62.4	64	53.8	64	44.1	71	47.4	71	44.1	74	44.1	74	44.1	77	43.0	77	28.7	14.8	
16.4	48	70.3	51.8	61	45.9	61	44.1	69	40.8	69	44.1	73	39.2	73	44.1	76	37.7	76	28.7	16.4	
19.7	39	56.2	36.4	56	34.6	56	38.1	65	31.3	65	36.8	70	30.6	70	35.1	74	29.8	74	28.7	19.7	
23.0	26	45.4	27.3	51	25.8	51	29.1	61	24.9	61	29.8	67	24.7	67	28.9	71	24.3	71	27.8	23.0	
26.2				45	20.1	45	22.9	57	19.0	57	23.6	64	20.3	64	24.0	69	20.1	69	23.4	26.2	
29.5				38	15.9	38	18.7	53	15.0	53	19.4	61	16.3	61	19.6	66	17.0	66	20.1	29.5	
32.8				30	12.8	30	15.4	49	11.9	49	16.1	58	13.2	58	16.5	64	13.9	64	16.8	32.8	
36.1				18	10.4	18	13.0	44	9.5	44	13.7	54	10.8	54	13.9	61	11.5	61	14.3	36.1	
39.4								38	7.7	38	11.7	51	8.8	51	11.9	58	9.5	58	12.3	39.4	
45.9								24	4.9	24	8.6	43	6.0	43	9.0	52	6.6	52	9.3	45.9	
52.5												33	4.0	33	6.8	46	4.6	46	7.1	52.5	
59.1												20	2.4	20	5.3	39	3.1	39	5.5	59.1	
65.6																30	2.0	30	4.4	65.6	
72.2																17	1.1	17	3.5	72.2	
78.7																				78.7	
85.3																				85.3	
91.9																				91.9	
98.4																				98.4	
Telescoping sequence [%]																					
Tel. 1	0	50	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	100	0	Tel. 1	
Tel. 2	0	0	17	0	33	17	50	33	67	50	83	67	100	83	100	83	100	83	100	Tel. 2	
Tel. 3	0	0	17	0	33	17	50	33	67	50	83	67	100	83	100	83	100	83	100	Tel. 3	
Tel. 4	0	0	17	0	33	17	50	33	67	50	83	67	100	83	100	83	100	83	100	Tel. 4	

99707704612

1) Over rear with superstructure locking pin engaged

* With additional lifting equipment

Operation and maintenance of this machine must be in compliance with the information provided in the "Operation and Maintenance Manual" supplied with this machine.



Counterweight 10,803 lbs

Working radius [ft]			Lifting capacities in 10 ³ lbs according per SAE J765, at telescopic boom On outriggers, 360° working area Outriggers half extended, outrigger base 14.11 ft																														Working radius [ft]																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
			Boom length [ft]															Boom length [ft]																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
			32.8°				45.1°				45.1°				57.4°				57.4°				69.7°				69.7°				82.0°							82.0°				94.3°				94.3°				106.6°				106.6°				118.9°				131.2°																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
8.2	66	110.0*																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					

99707704614

1) Over rear with superstructure locking pin engaged

* With additional lifting equipment

Operation and maintenance of this machine must be in compliance with the information provided in the "Operation and Maintenance Manual" supplied with this machine.



Counterweight 18,739 lbs

Working radius [ft.]	Lifting capacities in 10 ³ lbs according per SAE J765. at flv iib 29.5 ft On outriggers, 360° working area Outriggers fully extended, outrigger base 20.67 ft																								Working radius [ft.]
	Boom length																								
	32.8 ft						32.8 ft ... 106.6 ft						32.8 ft ... 119.1 ft						32.8 ft ... 131.2 ft						
	Fly jib 29.5 ft						Fly jib 29.5 ft						Fly jib 29.5 ft						Fly jib 29.5 ft						
	offset						offset						offset						offset						
0° 20° 40°						0° 20° 40°						0° 20° 40°						0° 20° 40°							
9.8	74	19.4					80	12.8					79	9.5				79	8.2						9.8
11.5	73	19.4					79	12.8																	11.5
13.1	71	19.4	79	14.1																					13.1
14.8	70	19.0	78	13.4																					14.8
16.4	68	17.9	76	13.0																					16.4
19.7	65	15.9	73	11.9																					19.7
23.0	62	14.3	69	11.0	77	9.3	79	12.8																	23.0
26.2	58	13.0	66	10.4	73	8.6	77	12.8					79	9.5											26.2
29.5	55	11.9	62	9.7	69	8.4	76	12.8					78	9.5					79	8.2					29.5
32.8	51	11.0	58	9.0	65	7.9	75	12.8	79	11.7			77	9.5				78	8.2						32.8
36.1	47	10.1	54	8.6	61	7.7	74	12.6	77	11.2			76	9.5	79	9.5		77	8.2						36.1
39.4	42	9.5	50	8.2	56	7.5	72	11.9	76	10.8	79	8.8	74	9.5	78	9.5		76	8.2	79	8.2				39.4
45.9	32	8.2	40	7.5	44	7.1	70	11.0	73	10.1	76	8.4	72	9.5	76	8.8	78	8.2	74	8.2	77	7.7	80	7.5	45.9
52.5	17	7.1	25	6.8			67	9.9	70	9.5	73	8.2	70	8.8	73	8.2	76	7.7	72	7.7	75	7.3	77	7.1	52.5
59.1							64	9.0	67	8.8	70	7.9	67	7.9	70	7.7	73	7.3	69	7.1	72	6.8	75	6.6	59.1
65.6							61	8.2	64	8.2	67	7.7	64	7.3	68	7.1	70	6.8	67	6.4	70	6.4	72	6.2	65.6
72.2							57	7.1	61	7.5	63	7.5	61	6.6	65	6.6	67	6.6	64	6.0	67	6.0	70	5.7	72.2
78.7							54	6.0	57	6.6	60	6.6	58	6.0	62	6.2	64	6.2	62	5.3	65	5.5	67	5.5	78.7
85.3							50	5.1	53	5.5	56	5.7	55	5.3	59	5.5	61	5.7	59	4.9	62	5.1	64	5.1	85.3
91.9							46	4.2	50	4.6	52	4.9	52	4.2	55	4.9	57	5.1	56	4.4	59	4.4	61	4.6	91.9
98.4							42	3.1	45	3.7	47	4.0	48	3.3	51	4.0	53	4.2	53	3.3	56	3.7	58	4.2	98.4
105.0							37	2.4	40	2.9	42	2.9	44	2.6	47	2.9	49	3.1	50	2.6	53	3.1	55	3.3	105.0
111.5							32	2.0	35	2.2			40	2.0	43	2.4	45	2.4	46	2.0	49	2.4	51	2.6	111.5
118.1							25	1.3	28	1.5			36	1.5	37	1.8			43	1.5	45	1.8	47	2.0	118.1
124.7															34	1.3					41	1.3			124.7
131.2																									131.2
137.8																									137.8
Telescoping sequence [%]																									
Tel. 1	0						100						100						100						Tel. 1
Tel. 2	0						67						83						100						Tel. 2
Tel. 3	0						67						83						100						Tel. 3
Tel. 4	0						67						83						100						Tel. 4

99707704621-1

Operation and maintenance of this machine must be in compliance with the information provided in the "Operation and Maintenance Manual" supplied with this machine.

Counterweight 18,739 lbs

Working radius [ft]	Lifting capacities in 10 ³ lbs according per SAE J765, at fly iib 52.5 ft On outriggers, 360° working area Outriggers fully extended, outrigger base 20.67 ft																								Working radius [ft]
	Boom length																								
	32.8 ft				32.8 ft ... 106.6 ft				32.8 ft ... 119.1 ft				32.8 ft ... 131.2 ft												
	offset				offset				offset				offset												
	0°	20°	40°		0°	20°	40°		0°	20°	40°		0°	20°	40°										
9.8	79	9.7																							9.8
11.5	78	9.7																							11.5
13.1	77	9.7																							13.1
14.8	76	9.7																							14.8
16.4	75	9.7																							16.4
19.7	73	9.5																							19.7
23.0	71	8.8																							23.0
26.2	68	8.2																							26.2
29.5	66	7.7	78	6.2																					29.5
32.8	64	7.3	75	6.0														80	5.1						32.8
36.1	61	6.8	72	5.7														79	5.1						36.1
39.4	59	6.4	70	5.3														78	5.1						39.4
45.9	53	5.7	64	4.9	74	4.2												76	5.1						45.9
52.5	48	5.1	59	4.4	67	4.0												74	5.1	79	4.6				52.5
59.1	41	4.4	52	4.0	60	3.5												72	5.1	78	4.6				59.1
65.6	34	4.0	44	3.5	51	3.3												71	5.1	75	4.4				65.6
72.2	24	3.5	34	3.3														69	5.1	73	4.2	77	3.7		72.2
78.7																		67	4.6	71	4.2	75	3.7		78.7
85.3																		64	4.4	69	4.0	73	3.5		85.3
91.9																		62	4.2	67	3.7	70	3.5		91.9
98.4																		60	3.7	65	3.7	68	3.3		98.4
105.0																		57	3.1	62	3.5	65	3.3		105.0
111.5																		54	2.4	59	3.1	63	3.3		111.5
118.1																		51	2.0	56	2.6	60	3.1		118.1
124.7																		48	1.5	53	2.0	56	2.4		124.7
131.2																		45	1.5	47	1.8				131.2
137.8																									137.8
	Telescoping sequence [%]																								
Tel. 1	0				100				100				100				100				100				Tel. 1
Tel. 2	0				67				83				100				100				100				Tel. 2
Tel. 3	0				67				83				100				100				100				Tel. 3
Tel. 4	0				67				83				100				100				100				Tel. 3

**Counterweight 15,432 lbs**

Working radius [ft.]	Lifting capacities in 10 ³ lbs according per SAE J765, at fly jib 29.5 ft On outriggers, 360° working area																								Working radius [ft.]	
	Outriggers fully extended, outrigger base 20.67 ft																									
	Boom length																									
	32.8 ft				32.8 ft ... 106.6 ft				32.8 ft ... 119.1 ft				32.8 ft ... 131.2 ft													
	Fly jib 29.5 ft																									
offset				offset				offset				offset														
0°				20°				40°				0°				20°				40°						
∠				∠				∠				∠				∠				∠						
9.8	74	19.4																							9.8	
11.5	73	19.4																							11.5	
13.1	71	19.4	79	14.1																					13.1	
14.8	70	19.0	78	13.4																					14.8	
16.4	68	17.9	76	13.0																					16.4	
19.7	65	15.9	73	11.9																					19.7	
23.0	62	14.3	69	11.0	77	9.3	79	12.8																	23.0	
26.2	58	13.0	66	10.4	73	8.6	77	12.8																	26.2	
29.5	55	11.9	62	9.7	69	8.4	76	12.8																	29.5	
32.8	51	11.0	58	9.0	65	7.9	75	12.8	79	11.7															32.8	
36.1	47	10.1	54	8.6	61	7.7	74	12.6	77	11.2															36.1	
39.4	42	9.5	50	8.2	56	7.5	72	11.9	76	10.8	79	8.8	74	9.5	78	9.5									39.4	
45.9	32	8.2	40	7.5	44	7.1	70	11.0	73	10.1	76	8.4	72	9.5	76	8.8	78	8.2	74	8.2	77	7.7	80	7.5	45.9	
52.5	17	7.1	25	6.8				67	9.9	70	9.5	73	8.2	70	8.8	73	8.2	76	7.7	72	7.7	75	7.3	77	7.1	52.5
59.1								64	8.6	67	8.8	70	7.9	67	7.9	70	7.7	73	7.3	69	7.1	72	6.8	75	6.6	59.1
65.6								61	7.1	64	7.9	67	7.7	64	7.1	68	7.1	70	6.8	67	6.4	70	6.4	72	6.2	65.6
72.2								57	5.7	61	6.6	63	7.3	61	6.2	65	6.4	67	6.6	64	5.5	67	6.0	70	5.7	72.2
78.7								54	4.6	57	5.1	60	5.5	58	4.9	62	5.5	64	6.0	62	4.6	65	5.5	67	5.5	78.7
85.3								50	3.5	53	4.2	56	4.4	55	3.7	59	4.4	61	4.9	59	3.7	62	4.4	64	4.9	85.3
91.9								46	2.6	50	3.3	52	3.3	52	2.9	55	3.3	57	3.7	56	2.9	59	3.3	61	4.0	91.9
98.4								42	2.0	45	2.4	47	2.4	48	2.2	51	2.6	53	2.9	53	2.2	56	2.6	58	2.9	98.4
105.0								37	1.3	40	1.8	42	1.8	44	1.5	47	2.0	49	2.2	50	1.5	53	2.0	55	2.2	105.0
111.5																										111.5
118.1																										118.1
124.7																										124.7
Telescoping sequence [%]																										
Tel. 1	0				100				100				100								Tel. 1					
Tel. 2	0				67				83				100								Tel. 2					
Tel. 3	0				67				83				100								Tel. 3					
Tel. 4	0				67				83				100								Tel. 4					

99707704623-1

Operation and maintenance of this machine must be in compliance with the information provided in the "Operation and Maintenance Manual" supplied with this machine

Counterweight 15,432 lbs

Working radius [ft]	Lifting capacities in 10 ³ lbs according per SAE J765, at fly jib 52.5 ft On outriggers, 360° working area																								Working radius [ft]
	Outriggers fully extended, outrigger base 20.67 ft																								
	Boom length																								
	32.8 ft				32.8 ft ... 106.6 ft				32.8 ft ... 119.1 ft				32.8 ft ... 131.2 ft												
	offset				offset				offset				offset												
	0°	20°	40°		0°	20°	40°		0°	20°	40°		0°	20°	40°		0°	20°	40°						
	∠	∠	∠	∠	∠	∠	∠	∠	∠	∠	∠	∠	∠	∠	∠	∠	∠	∠	∠						
9.8	79	9.7																		9.8					
11.5	78	9.7																		11.5					
13.1	77	9.7																		13.1					
14.8	76	9.7																		14.8					
16.4	75	9.7																		16.4					
19.7	73	9.5																		19.7					
23.0	71	8.8																		23.0					
26.2	68	8.2						80	6.6											26.2					
29.5	66	7.7	78	6.2				78	6.6				80	6.0						29.5					
32.8	64	7.3	75	6.0				77	6.6				79	6.0			80	5.1		32.8					
36.1	61	6.8	72	5.7				76	6.6				78	6.0			79	5.1		36.1					
39.4	59	6.4	70	5.3				75	6.6				77	6.0			78	5.1		39.4					
45.9	53	5.7	64	4.9	74	4.2	73	6.6	79	5.3			75	6.0			76	5.1		45.9					
52.5	48	5.1	59	4.4	67	4.0	71	6.4	77	5.1			73	6.0	78	4.9	74	5.1	79	4.6	52.5				
59.1	41	4.4	52	4.0	60	3.5	68	6.0	74	4.9	79	4.2	71	5.7	76	4.6	72	5.1	78	4.6	59.1				
65.6	34	4.0	44	3.5	51	3.3	66	5.7	72	4.6	76	4.0	69	5.5	74	4.4	78	4.0	71	5.1	65.6				
72.2	24	3.5	34	3.3			64	5.5	69	4.4	73	3.7	66	5.3	71	4.4	75	3.7	69	5.1	72.2				
78.7							61	4.9	66	4.2	71	3.7	64	4.9	69	4.2	73	3.7	67	4.6	78.7				
85.3							58	4.2	64	4.0	68	3.5	62	4.2	67	4.0	70	3.5	64	4.2	85.3				
91.9							55	3.3	61	4.0	65	3.5	59	3.3	64	4.0	68	3.5	62	3.3	91.9				
98.4							52	2.6	58	3.5	61	3.5	56	2.6	61	3.7	65	3.3	60	2.6	98.4				
105.0							49	2.0	54	2.6	58	3.3	53	2.0	59	2.6	62	3.3	57	2.0	105.0				
111.5							45	1.5	51	2.2	54	2.4	50	1.5	55	2.2	59	2.6	54	1.5	111.5				
118.1									47	1.5	50	2.0			52	1.5	55	2.0			118.1				
124.7											45	1.3					51	1.5			124.7				
Telescoping sequence [%]																									
Tel. 1	0				100				100				100				100				Tel. 1				
Tel. 2	0				67				83				100				100				Tel. 2				
Tel. 3	0				67				83				100				100				Tel. 3				
Tel. 4	0				67				83				100				100				Tel. 4				

**Counterweight 10,803 lbs**

Working radius [ft.]	Lifting capacities in 10 ³ lbs according per SAE J765, at fly jib 29.5 ft On outriggers, 360° working area Outriggers fully extended, outrigger base 20.67 ft																								Working radius [ft.]
	Boom length																								
	32.8 ft						32.8 ft ... 106.6 ft						32.8 ft ... 119.1 ft						32.8 ft ... 131.2 ft						
	Fly jib 29.5 ft						Fly jib 29.5 ft						Fly jib 29.5 ft						Fly jib 29.5 ft						
	offset						offset						offset						offset						
	0°		20°		40°		0°		20°		40°		0°		20°		40°		0°		20°		40°		
9.8	74	19.4																							9.8
11.5	73	19.4																							11.5
13.1	71	19.4	79	14.1																					13.1
14.8	70	19.0	78	13.4																					14.8
16.4	68	17.9	76	13.0																					16.4
19.7	65	15.9	73	11.9			80	12.8																	19.7
23.0	62	14.3	69	11.0	77	9.3	79	12.8																	23.0
26.2	58	13.0	66	10.4	73	8.6	77	12.8					79	9.5											26.2
29.5	55	11.9	62	9.7	69	8.4	76	12.8					78	9.5					79	8.2					29.5
32.8	51	11.0	58	9.0	65	7.9	75	12.8	79	11.7			77	9.5				78	8.2						32.8
36.1	47	10.1	54	8.6	61	7.7	74	12.6	77	11.2			76	9.5	79	9.5		77	8.2						36.1
39.4	42	9.5	50	8.2	56	7.5	72	11.9	76	10.8	79	8.8	74	9.5	78	9.5		76	8.2	79	8.2				39.4
45.9	32	8.2	40	7.5	44	7.1	70	11.0	73	10.1	76	8.4	72	9.5	76	8.8	78	8.2	74	8.2	77	7.7	80	7.5	45.9
52.5	17	7.1	25	6.8			67	8.8	70	9.5	73	8.2	70	8.8	73	8.2	76	7.7	72	7.7	75	7.3	77	7.1	52.5
59.1							64	6.8	67	8.2	70	7.9	67	7.3	70	7.7	73	7.3	69	7.1	72	6.8	75	6.6	59.1
65.6							61	5.5	64	6.6	67	7.1	64	5.7	68	6.4	70	6.8	67	5.7	70	6.2	72	6.2	65.6
72.2							57	4.2	61	5.1	63	5.5	61	4.4	65	5.3	67	5.7	64	4.4	67	5.3	70	5.7	72.2
78.7							54	3.1	57	4.0	60	4.4	58	3.3	62	4.2	64	4.6	62	3.3	65	4.2	67	4.6	78.7
85.3							50	2.2	53	2.6	56	3.1	55	2.4	59	3.1	61	3.3	59	2.4	62	3.1	64	3.5	85.3
91.9							46	1.5	50	2.0	52	2.2	52	1.8	55	2.2	57	2.6	56	1.8	59	2.2	61	2.6	91.9
98.4									45	1.3	47	1.5			51	1.5	53	1.8			56	1.5	58	2.0	98.4
105.0																							55	1.3	105.0
111.5																									111.5
118.1																									118.1
Telescoping sequence [%]																									
Tel. 1	0						100						100						100						Tel. 1
Tel. 2	0						67						83						100						Tel. 2
Tel. 3	0						67						83						100						Tel. 3
Tel. 4	0						67						83						100						Tel. 4

99707704625-1

Operation and maintenance of this machine must be in compliance with the information provided in the "Operation and Maintenance Manual" supplied with this machine

Counterweight 10,803 lbs

Working radius [ft.]	Lifting capacities in 10 ³ lbs according per SAE J765, at fly jib 52.5 ft On outriggers, 360° working area Outriggers fully extended, outrigger base 20.67 ft																								Working radius [ft.]
	Boom length																								
	32.8 ft						32.8 ft ... 106.6 ft						32.8 ft ... 119.1 ft						32.8 ft ... 131.2 ft						
	offset						Fly jib 52.5 ft						offset						offset						
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°							
	∠		∠		∠		∠		∠		∠		∠		∠		∠		∠		∠		∠		
9.8	79	9.7																							9.8
11.5	78	9.7																							11.5
13.1	77	9.7																							13.1
14.8	76	9.7																							14.8
16.4	75	9.7																							16.4
19.7	73	9.5																							19.7
23.0	71	8.8																							23.0
26.2	68	8.2					80	6.6																	26.2
29.5	66	7.7	78	6.2			78	6.6					80	6.0											29.5
32.8	64	7.3	75	6.0			77	6.6					79	6.0					80	5.1					32.8
36.1	61	6.8	72	5.7			76	6.6					78	6.0					79	5.1					36.1
39.4	59	6.4	70	5.3			75	6.6					77	6.0					78	5.1					39.4
45.9	53	5.7	64	4.9	74	4.2	73	6.6	79	5.3			75	6.0					76	5.1					45.9
52.5	48	5.1	59	4.4	67	4.0	71	6.4	77	5.1			73	6.0	78	4.9			74	5.1	79	4.6			52.5
59.1	41	4.4	52	4.0	60	3.5	68	6.0	74	4.9	79	4.2	71	5.7	76	4.6			72	5.1	78	4.6			59.1
65.6	34	4.0	44	3.5	51	3.3	66	5.7	72	4.6	76	4.0	69	5.5	74	4.4	78	4.0	71	5.1	75	4.4			65.6
72.2	24	3.5	34	3.3			64	4.9	69	4.4	73	3.7	66	4.6	71	4.4	75	3.7	69	4.6	73	4.2	77	3.7	72.2
78.7							61	4.0	66	4.2	71	3.7	64	3.7	69	4.2	73	3.7	67	3.7	71	4.2	75	3.7	78.7
85.3							58	3.1	64	4.0	68	3.5	62	2.9	67	4.0	70	3.5	64	2.9	69	4.0	73	3.5	85.3
91.9							55	2.2	61	3.1	65	3.5	59	2.2	64	3.1	68	3.5	62	2.2	67	3.1	70	3.5	91.9
98.4							52	1.8	58	2.4	61	3.1	56	1.5	61	2.4	65	3.1	60	1.5	65	2.4	68	3.1	98.4
105.0									54	1.8	58	2.2			59	1.8	62	2.4			62	1.8	65	2.4	105.0
111.5									51	1.3	54	1.8			55	1.3	59	1.8			59	1.3	63	1.8	111.5
118.1																							60	1.3	118.1
Telescoping sequence [%]																									
Tel. 1	0						100						100						100						Tel. 1
Tel. 2	0						67						83						100						Tel. 2
Tel. 3	0						67						83						100						Tel. 3
Tel. 4	0						67						83						100						Tel. 4

**Counterweight 22,046 lbs**

Working radius [ft]	Lifting capacities in 10 ³ lbs according per SAE J765, at fly jib 29.5 ft On outriggers, 360° working area Outriggers half extended, outrigger base 14.11 ft																	Working radius [ft]							
	Boom length																								
	32.8 ft				32.8 ft ... 106.6 ft				32.8 ft ... 119.1 ft				32.8 ft ... 131.2 ft												
	Fly jib 29.5 ft																								
	offset				offset				offset				offset												
	0°	20°	40°		0°	20°	40°		0°	20°	40°		0°	20°	40°		0°	20°	40°						
	∠	∠	∠		∠	∠	∠		∠	∠	∠		∠	∠	∠		∠	∠	∠						
9.8	74	19.4																		9.8					
11.5	73	19.4																		11.5					
13.1	71	19.4	79	14.1																13.1					
14.8	70	19.0	78	13.4																14.8					
16.4	68	17.9	76	13.0																16.4					
19.7	65	15.9	73	11.9				80	12.8											19.7					
23.0	62	14.3	69	11.0	77	9.3	79	12.8												23.0					
26.2	58	13.0	66	10.4	73	8.6	77	12.8				79	9.5							26.2					
29.5	55	11.9	62	9.7	69	8.4	76	12.8				78	9.5			79	8.2			29.5					
32.8	51	11.0	58	9.0	65	7.9	75	12.8	79	11.7		77	9.5			78	8.2			32.8					
36.1	47	10.1	54	8.6	61	7.7	74	12.6	77	11.2		76	9.5	79	9.5		77	8.2		36.1					
39.4	42	9.5	50	8.2	56	7.5	72	11.9	76	10.8	79	8.8	74	9.5	78	9.5	76	8.2	79	8.2	39.4				
45.9	32	8.2	40	7.5	44	7.1	70	9.9	73	10.1	76	8.4	72	9.5	76	8.8	78	8.2	77	7.7	80	7.5	45.9		
52.5	17	7.1	25	6.8			67	7.5	70	8.6	73	8.2	70	7.9	73	8.2	76	7.7	72	75	7.3	77	7.1	52.5	
59.1							64	5.7	67	6.6	70	7.3	67	6.0	70	6.8	73	7.3	69	6.2	72	6.8	75	6.6	59.1
65.6							61	4.4	64	5.1	67	5.7	64	4.6	68	5.3	70	6.0	67	4.6	70	5.5	72	6.2	65.6
72.2							57	3.3	61	4.0	63	4.4	61	3.5	65	4.2	67	4.6	64	3.5	67	4.2	70	4.9	72.2
78.7							54	2.4	57	2.9	60	3.3	58	2.6	62	3.1	64	3.5	62	2.6	65	3.3	67	3.7	78.7
85.3							50	1.5	53	2.0	56	2.4	55	1.8	59	2.2	61	2.6	59	1.8	62	2.4	64	2.9	85.3
91.9									50	1.3	52	1.5	52	1.1	55	1.5	57	2.0	56	1.1	59	1.5	61	2.0	91.9
98.4																	53	1.3			56	1.1	58	1.3	98.4
105.0																									105.0
111.5																									111.5
Telescoping sequence [%]																									
Tel. 1	0				100				100				100				Tel. 1								
Tel. 2	0				67				83				100				Tel. 2								
Tel. 3	0				67				83				100				Tel. 3								
Tel. 4	0				67				83				100				Tel. 4								

99707704622-1

Operation and maintenance of this machine must be in compliance with the information provided in the "Operation and Maintenance Manual" supplied with this machine.

Counterweight 22,046 lbs

Working radius [ft]	Lifting capacities in 10 ³ lbs according per SAE J765, at fly jib 52.5 ft On outriggers, 360° working area																	Working radius [ft]
	Outriggers half extended, outrigger base 14.11 ft																	
	Boom length																	
	32.8 ft			32.8 ft ... 106.6 ft			32.8 ft ... 119.1 ft			32.8 ft ... 131.2 ft								
	offset			offset			offset			offset								
0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°				
∠	∠	∠	∠	∠	∠	∠	∠	∠	∠	∠	∠	∠	∠	∠				
9.8	79	9.7														9.8		
11.5	78	9.7														11.5		
13.1	77	9.7														13.1		
14.8	76	9.7														14.8		
16.4	75	9.7														16.4		
19.7	73	9.5														19.7		
23.0	71	8.8														23.0		
26.2	68	8.2				80	6.6									26.2		
29.5	66	7.7	78	6.2		78	6.6			80	6.0					29.5		
32.8	64	7.3	75	6.0		77	6.6			79	6.0			80	5.1	32.8		
36.1	61	6.8	72	5.7		76	6.6			78	6.0			79	5.1	36.1		
39.4	59	6.4	70	5.3		75	6.6			77	6.0			78	5.1	39.4		
45.9	53	5.7	64	4.9	74	4.2	73	6.6	79	5.3				76	5.1	45.9		
52.5	48	5.1	59	4.4	67	4.0	71	6.4	77	5.1				73	6.0	52.5		
59.1	41	4.4	52	4.0	60	3.5	68	6.0	74	4.9	79	4.2	71	5.7	76	4.6	59.1	
65.6	34	4.0	44	3.5	51	3.3	66	5.1	72	4.6	76	4.0	69	5.1	74	4.4	65.6	
72.2	24	3.5	34	3.3			64	4.0	69	4.4	73	3.7	66	4.0	71	4.4	72.2	
78.7							61	3.1	66	4.2	71	3.7	64	3.1	69	4.2	78.7	
85.3							58	2.2	64	3.3	68	3.5	62	2.2	67	3.3	85.3	
91.9							55	1.5	61	2.4	65	3.1	59	1.5	64	2.4	91.9	
98.4							52	1.1	58	1.8	61	2.4	56	1.1	61	1.8	98.4	
105.0									54	1.3	58	1.8			59	1.3	105.0	
111.5									54	1.1					59	1.1	111.5	
Telescoping sequence [%]																		
Tel. 1	0			100			100			100				Tel. 1				
Tel. 2	0			67			83			100				Tel. 2				
Tel. 3	0			67			83			100				Tel. 3				
Tel. 4	0			67			83			100				Tel. 4				

99707704622-2

Operation and maintenance of this machine must be in compliance with the information provided in the "Operation and Maintenance Manual" supplied with this machine.

Counterweight 15,432 lbs

Counterweight 13,402 lbs																			
Working radius [ft]	Lifting capacities in 10 ³ lbs according per SAE J765, at fly jib 29.5 ft On outriggers, 360° working area																		Working radius [ft]
	Outriggers half extended, outrigger base 14.11 ft																		
	Boom length																		
	32.8 ft				32.8 ft ... 106.6 ft				32.8 ft ... 119.1 ft				32.8 ft ... 131.2 ft						
	Fly jib 29.5 ft																		
offset				offset				offset				offset							
0°	20°	40°		0°	20°	40°		0°	20°	40°		0°	20°	40°					
																			
9.8	74	19.4														9.8			
11.5	73	19.4														11.5			
13.1	71	19.4	79	14.1												13.1			
14.8	70	19.0	78	13.4												14.8			
16.4	68	17.9	76	13.0												16.4			
19.7	65	15.9	73	11.9			80	12.8								19.7			
23.0	62	14.3	69	11.0	77	9.3	79	12.8								23.0			
26.2	58	13.0	66	10.4	73	8.6	77	12.8			79	9.5				26.2			
29.5	55	11.9	62	9.7	69	8.4	76	12.8			78	9.5			79	8.2	29.5		
32.8	51	11.0	58	9.0	65	7.9	75	12.8	79	11.7		77	9.5		78	8.2	32.8		
36.1	47	10.1	54	8.6	61	7.7	74	11.7	77	11.2		76	9.5	79	8.2		36.1		
39.4	42	9.5	50	8.2	56	7.5	72	10.1	76	10.8	79	8.8	74	9.5	78	8.2	39.4		
45.9	32	8.2	40	7.5	44	7.1	70	7.7	73	9.0	76	8.4	72	7.7	76	8.8	45.9		
52.5	17		25	6.8			67	5.7	70	6.8	73	7.7	70	6.0	73	7.1	52.5		
59.1							64	4.2	67	5.1	70	5.7	67	4.4	70	5.3	59.1		
65.6							61	2.9	64	3.7	67	4.2	64	3.1	68	4.0	65.6		
72.2							57	2.0	61	2.6	63	3.1	61	2.2	65	2.9	72.2		
78.7							54	1.1	57	1.8	60	2.2	58	1.3	62	2.0	78.7		
85.3											56	1.3			59	1.3	85.3		
91.9																	91.9		
98.4																	98.4		
Telescoping sequence [%]																			
Tel. 1	0						100						100						Tel. 1
Tel. 2	0						67						83						Tel. 2
Tel. 3	0						67						83						Tel. 3
Tel. 4	0						67						83						Tel. 4

99707704624-1

Operation and maintenance of this machine must be in compliance with the information provided in the "Operation and Maintenance Manual" supplied with this machine.

Counterweight 15,432 lbs

Working radius [ft]	Lifting capacities in 10 ³ lbs according per SAE J765, at fly jib 52.5 ft On outriggers, 360° working area Outriggers half extended, outrigger base 14.11 ft														Working radius [ft]	
	Boom length															
	32.8 ft			32.8 ft ... 106.6 ft			32.8 ft ... 119.1 ft			32.8 ft ... 131.2 ft						
	offset			offset			offset			offset						
	0° ∠	20° ∠	40° ∠	0° ∠	20° ∠	40° ∠	0° ∠	20° ∠	40° ∠	0° ∠	20° ∠	40° ∠				
9.8	79	9.7													9.8	
11.5	78	9.7													11.5	
13.1	77	9.7													13.1	
14.8	76	9.7													14.8	
16.4	75	9.7													16.4	
19.7	73	9.5													19.7	
23.0	71	8.8													23.0	
26.2	68	8.2				80	6.6								26.2	
29.5	66	7.7	78	6.2		78	6.6			80	6.0				29.5	
32.8	64	7.3	75	6.0		77	6.6			79	6.0		80	5.1	32.8	
36.1	61	6.8	72	5.7		76	6.6			78	6.0		79	5.1	36.1	
39.4	59	6.4	70	5.3		75	6.6			77	6.0		78	5.1	39.4	
45.9	53	5.7	64	4.9	74	4.2	73	6.6	79	5.3			76	5.1	45.9	
52.5	48	5.1	59	4.4	67	4.0	71	6.4	77	5.1			74	5.1	52.5	
59.1	41	4.4	52	4.0	60	3.5	68	5.1	74	4.9	79	4.2	71	4.9	59.1	
65.6	34	4.0	44	3.5	51	3.3	66	3.7	72	4.6	76	4.0	69	3.7	65.6	
72.2	24	3.5	34	3.3			64	2.6	69	4.0	73	3.7	66	2.6	72.2	
78.7							61	2.0	66	2.9	71	3.7	64	1.8	78.7	
85.3							58	1.1	64	2.2	68	2.9		67	2.2	85.3
91.9									61	1.5	65	2.2		64	1.5	91.9
98.4									61	1.5				65	1.5	98.4
Telescoping sequence [%]																
Tel. 1	0			100			100			100			Tel. 1			
Tel. 2	0			67			83			100			Tel. 2			
Tel. 3	0			67			83			100			Tel. 3			
Tel. 4	0			67			83			100			Tel. 4			

99707704624-2

Operation and maintenance of this machine must be in compliance with the information provided in the "Operation and Maintenance Manual" supplied with this machine.

**Counterweight 10,803 lbs**

Counterweight 10,000 lbs																									
Working radius [ft]	Lifting capacities in 10 ³ lbs according per SAE J765, at fly jib 29.5 ft On outriggers, 360° working area Outriggers half extended, outrigger base 14.11 ft																								Working radius [ft]
	Boom length																								
	32.8 ft						32.8 ft ... 106.6 ft						32.8 ft ... 119.1 ft						32.8 ft ... 131.2 ft						
	offset						offset						Fly jib 29.5 ft						offset						
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°							
9.8	74	19.4																							9.8
11.5	73	19.4																							11.5
13.1	71	19.4	79	14.1																					13.1
14.8	70	19.0	78	13.4																					14.8
16.4	68	17.9	76	13.0																					16.4
19.7	65	15.9	73	11.9			80	12.8																	19.7
23.0	62	14.3	69	11.0	77	9.3	79	12.8																	23.0
26.2	58	13.0	66	10.4	73	8.6	77	12.8					79	9.5											26.2
29.5	55	11.9	62	9.7	69	8.4	76	12.6					78	9.5					79	8.2					29.5
32.8	51	11.0	58	9.0	65	7.9	75	10.8	79	11.7			77	9.5					78	8.2					32.8
36.1	47	10.1	54	8.6	61	7.7	74	9.3	77	10.8			76	9.3	79	9.5			77	8.2					36.1
39.4	42	9.5	50	8.2	56	7.5	72	7.9	76	9.5	79	8.8	74	7.9	78	9.3			76	7.7	79	8.2			39.4
45.9	32	8.2	40	7.5	44	7.1	70	6.0	73	7.1	76	8.2	72	6.0	76	7.1	78	8.2	74	5.7	77	6.8	80	7.5	45.9
52.5	17	6.6	25	6.8			67	4.0	70	5.1	73	6.0	70	4.4	73	5.5	76	6.2	72	4.2	75	5.3	77	6.2	52.5
59.1							64	2.6	67	3.5	70	4.4	67	2.9	70	4.0	73	4.6	69	3.1	72	4.0	75	4.6	59.1
65.6							61	1.5	64	2.4	67	3.1	64	2.0	68	2.6	70	3.3	67	2.0	70	2.6	72	3.3	65.6
72.2									61	1.5	63	2.0			65	1.8	67	2.2			67	1.8	70	2.4	72.2
78.7																	64	1.3							78.7
85.3																									85.3
Telescoping sequence [%]																									
Tel. 1	0						100						100						100						Tel. 1
Tel. 2	0						67						83						100						Tel. 2
Tel. 3	0						67						83						100						Tel. 3
Tel. 4	0						67						83						100						Tel. 4

99707704626-1

Operation and maintenance of this machine must be in compliance with the information provided in the "Operation and Maintenance Manual" supplied with this machine.

Counterweight 10,803 lbs

Working radius [ft]	Lifting capacities in 10 ³ lbs according per SAE J765, at fly jib 52.5 ft On outriggers, 360° working area Outriggers half extended, outrigger base 14.11 ft																								Working radius [ft]	
	Boom length																									
	32.8 ft						32.8 ft ... 106.6 ft						32.8 ft ... 119.1 ft						32.8 ft ... 131.2 ft							
	offset						Fly jib 52.5 ft						offset						offset							
	° ∠	° ∠	° ∠	° ∠	° ∠	° ∠	° ∠	° ∠	° ∠	° ∠	° ∠	° ∠	° ∠	° ∠	° ∠	° ∠	° ∠	° ∠	° ∠	° ∠	° ∠	° ∠	° ∠	° ∠		° ∠
9.8	79	9.7																								9.8
11.5	78	9.7																								11.5
13.1	77	9.7																								13.1
14.8	76	9.7																								14.8
16.4	75	9.7																								16.4
19.7	73	9.5																								19.7
23.0	71	8.8																								23.0
26.2	68	8.2					80	6.6																		26.2
29.5	66	7.7	78	6.2			78	6.6				80	6.0													29.5
32.8	64	7.3	75	6.0			77	6.6				79	6.0					80	5.1							32.8
36.1	61	6.8	72	5.7			76	6.6				78	6.0					79	5.1							36.1
39.4	59	6.4	70	5.3			75	6.6				77	6.0					78	5.1							39.4
45.9	53	5.7	64	4.9	74	4.2	73	6.4	79	5.3		75	6.0					76	5.1							45.9
52.5	48	5.1	59	4.4	67	4.0	71	4.9	77	5.1		73	4.6	78	4.9			74	4.6	79	4.6					52.5
59.1	41	4.4	52	4.0	60	3.5	68	3.5	74	4.9	79	4.2	71	3.5	76	4.6		72	3.3	78	4.6					59.1
65.6	34	4.0	44	3.5	51	3.3	66	2.4	72	3.7	76	4.0	69	2.4	74	3.7	78	4.0	71	2.4	75	3.7				65.6
72.2	24	3.5	34	3.3			64	1.5	69	2.9	73	3.7			71	2.9	75	3.7			73	2.6				72.2
78.7									66	2.0	71	2.9					69	2.0	73	2.9						78.7
85.3											68	2.0					70	2.0								85.3
Telescoping sequence [%]																										
Tel. 1	0						100						100						100						Tel. 1	
Tel. 2	0						67						83						100						Tel. 2	
Tel. 3	0						67						83						100						Tel. 3	
Tel. 4	0						67						83						100						Tel. 4	

99707704626-2

Operation and maintenance of this machine must be in compliance with the information provided in the "Operation and Maintenance Manual" supplied with this machine.

**Counterweight 22,046 lbs**

Working radius [ft]	Lifting capacities in 10 ³ lbs according per SAE J765, at telescopic boom, On tires, over rear												Working radius [ft]
	Boom length [ft]												
	32.8			45.3			57.4						
	°			°			°						
	∠	1)		∠	1)		∠	1)		∠	1)		
9.8	63	25.6		71	26.2		76	26.5					9.8
11.5	59	22.7		69	23.1		74	23.6					11.5
13.1	56	19.4		66	19.8		72	20.5					13.1
14.8	52	17.0		64	17.6		71	17.9					14.8
16.4	48	14.3		61	14.9		69	15.3					16.4
19.7	39	10.9		56	11.5		65	11.9					19.7
23.0	26	8.6		51	9.3		61	9.6					23.0
26.2				45	7.6		57	7.9					26.2
29.5				38	6.3		53	6.6					29.5
32.8				30	5.4		49	5.8					32.8
36.1				18	4.6		44	5.0					36.1
39.4							38	4.2					39.4
45.9							24	3.3					45.9
Telescoping sequence [%]													
Tel. 1	0			0			0						Tel. 1
Tel. 2	0			17			33						Tel. 2
Tel. 3	0			17			33						Tel. 3
Tel. 4	0			17			33						Tel. 4

1) Over rear with superstructure pin engaged.

99707704618

Operation and maintenance of this machine must be in compliance with the information provided in the "Operation and Maintenance Manual" supplied with this machine.

Counterweight 15,432 lbs

Working radius [ft]	Lifting capacities in 10 ³ lbs according per SAE J765, at telescopic boom, On tires, over rear												Working radius [ft]
	Boom length [ft]												
	32.8				45.3				57.4				
	° ∠	1)			° ∠	1)			° ∠	1)			
9.8	63	20.1			71	20.9			76	21.4			9.8
11.5	59	16.8			69	17.4			74	17.9			11.5
13.1	56	14.3			66	14.8			72	15.2			13.1
14.8	52	12.1			64	12.8			71	13.2			14.8
16.4	48	10.6			61	11.0			69	11.5			16.4
19.7	39	8.2			56	8.8			65	9.3			19.7
23.0	26	6.6			51	7.1			61	7.5			23.0
26.2					45	5.7			57	6.2			26.2
29.5					38	4.9			53	5.3			29.5
32.8					30	4.2			49	4.4			32.8
36.1					18	3.5			44	3.7			36.1
39.4									38	3.3			39.4
45.9									24	2.6			45.9
Telescoping sequence [%]													
Tel. 1	0				0				0				Tel. 1
Tel. 2	0				17				33				Tel. 2
Tel. 3	0				17				33				Tel. 3
Tel. 4	0				17				33				Tel. 4

1) Over rear with superstructure pin engaged.

99707704619

Operation and maintenance of this machine must be in compliance with the information provided in the "Operation and Maintenance Manual" supplied with this machine.

Counterweight 10,803 lbs

Counter Weight 20,000 lbs													
Working radius [ft]	Lifting capacities in 10 ³ lbs according per SAE J765, at telescopic boom, On tires, 360° working area												Working radius [ft]
	Boom length [ft]												
	32.8				45.3				57.4				
	°			°				°					
	∠			∠				∠					
9.8	63	14.3		71	15.2			76	15.7				9.8
11.5	59	12.1		69	13.0			74	13.4				11.5
13.1	56	10.4		66	11.0			72	11.5				13.1
14.8	52	9.0		64	9.7			71	10.1				14.8
16.4	48	7.7		61	8.4			69	8.8				16.4
19.7	39	6.0		56	6.6			65	6.8				19.7
23.0	26	4.6		51	5.3			61	5.7				23.0
26.2				45	4.2			57	4.6				26.2
29.5				38	3.5			53	4.0				29.5
32.8				30	2.9			49	3.3				32.8
36.1				18	2.4			44	2.9				36.1
39.4								38	2.4				39.4
45.9								24	1.5				45.9
Telescoping sequence [%]													
Tel. 1		0			0				0				Tel. 1
Tel. 2		0			17				33				Tel. 2
Tel. 3		0			17				33				Tel. 3
Tel. 4		0			17				33				Tel. 4

99707704620

Operation and maintenance of this machine must be in compliance with the information provided in the "Operation and Maintenance Manual" supplied with this machine.



WARNING AND OPERATING INSTRUCTIC FOR LIFTING CAPACITIES

GENERAL

1. Total rated loads shown on the TADANO LOAD RATING CHART apply only to the machine as originally manufactured and normally equipped by TADANO. Modifications to the machine or use of optional equipment other than that specified can result in a reduction of capacity.
2. Construction equipment can be dangerous if improperly operated or maintained. Operation and maintenance of this machine must be in compliance with the information in the operation, safety and maintenance manual supplied with the machine. If this manual is missing, order replacement through the distributor.
3. The operator and other personnel associated with this machine shall fully acquaint themselves with the latest applicable American National Standards Institute (ANSI) safety standards for cranes.

SET UP

1. Total rated loads shown on the TADANO LOAD RATING CHART are the maximum allowable crane capacities and are based on the machine standing level on firm supporting surface under ideal job conditions. Depending on the nature of the supporting surface, it may be necessary to have structural supports under the outrigger floats to spread the load to a larger bearing surface.
2. For on outrigger operation, outriggers shall be extended to the dimension according to the TADANO LOAD RATING CHART and secured by pins with tires free of supporting surface, before operating crane.
3. If counterweight is moved down from stop during crane operation (indicator "counterweight center" goes out), all crane movements are switched off. Counterweight must be raised again to its stop.

OPERATION

1. Total rated loads with outriggers fully extended do not exceed 85% of the tipping loads. Total rated loads with outriggers half extended are determined from the formula:
total rated load = (tipping load - 0.1 tip reaction) / 1.25
2. The crane's structural steelwork is in accordance with DIN 15018, part 3. Design and construction of the crane comply with DIN 15018, part 2 and with F.E.M. regulations.
3. Total rated loads above the bold lines in the TADANO LOAD RATING CHART are based on crane strength and those below the bold lines on crane stability.
4. Total rated loads include the weight of main hook block, auxiliary hook ball, sling and other auxiliary lifting devices and all their weights shall be subtracted from the listed capacities to obtain the net load to be lifted.

Hookball/ Hookblock(ton)	6.6	13.8		35.3				55.1				69.4
No. of parts of line	1	2	3	4	5	6	7	8	9	10	11	13
Max. lifting capacity (ton)	4.7	9.6	13.8	18.8	23.3	27.8	31.9	36.3	40.2	44.4	48.2	55.0
Weight (lbs.)	330	400	660				1,060				1,540	

5. The lifting capacity ratings specified in the TADANO LOAD RATING CHART apply to the telescopic boom without extendible fly jib fixed in transport position or working position. If the extendible fly jib is secured to the telescopic boom in transport position or working position, the lifting capacities of the telescopic boom are reduced by the values specified below. The weight of the extendible fly jib(2,000 lbs) is detected in terms of a load, and the load moment limiter will shut off earlier.

Load rating reduction for the telescopic boom with mounted fly jib (tons)								
jib status	Boom length (ft)							
	32.8	45.3	69.9	82	94.5	106.6	119.1	131.2
32.8 ft / 59.1 ft fly jib, mounted in transport position	0.36	0.17	0.14	0.10	0.09	0.09	0.07	0.07
32.8 ft fly jib, mounted to boom head	3.65	2.55	2.27	1.57	1.25	1.14	1.05	1.01
59.1 ft jib, mounted to boom head	7.58	5.04	4.40	2.79	2.07	1.80	1.62	1.54

6. Total rated loads are based on freely suspended loads and make no allowance for such factors as the effect of wind, sudden stopping of loads, supporting surface conditions, operating speeds, side loads, etc. Side pull on boom or jib is extremely dangerous.
7. Total rated loads do not account for wind on lifted load or boom. Total rated loads and boom length shall be appropriately reduced, when wind velocity is above 22 mph (32 ft/sec.).
8. Total rated loads at load radius shall not be exceeded. Do not tip the crane to determine allowable loads.
9. Do not operate at boom lengths beyond radii or boom angles where no capacities are shown. Crane may overturn without any load on the hook.
10. Slewing of the superstructure on tires is admissible only when the crane is equipped with 10,803 lbs counterweight at maximum.
11. When making lifts at a load radius not shown, use the next longer radius to determine allowable capacity.
12. Load per part line should not exceed 10,100 lbs. for the main winch and for the auxiliary winch.
13. Loaded boom angles are approximate. The boom angle before loading should be greater to account for deflection.
14. The 32.8 ft boom length capacities are based on the telescopic boom being fully retracted. If not fully retracted (less than 45.1 ft boom length), use the total rated loads for the 45.1 ft boom length according telescoping sequence.
14. Extension or retraction of the telescopic boom with loads may be attempted within the limits of the TADANO LOAD RATING CHART. The ability to telescope loads is limited by hydraulic pressure, boom angle, boom length, crane maintenance, etc.
15. When erecting or stowing the extendible fly jib, be sure to retain it by hand or by other means to prevent its free movement.
16. Use the Anti-Two Block (OVERWIND CUTOFF) disable switch when erecting or stowing the extendible fly jib and stowing the hook block. While the switch is pushed, the hoist will not stop, even when an overwind condition occurs.
17. The working radius specified in the TADANO LOAD RATING CHARTS for the extendible fly jib apply only if the telescopic boom is extended according to the TADANO LOAD RATING CHARTS. If one or more elements of the telescopic boom are retracted partially or completely, the specified boom angles will be decisive in determining total rated lifting capacities.
18. When lifting a load by using the extendible fly jib (auxiliary hoist) and telescopic boom (main hoist) simultaneously, do the following:
 - A) Select the correct program for the load moment device in accordance with jib length, jib offset angle, counterweight and outrigger base.
 - B) Before starting the operation, make sure that the weight of the load is within the total rated load for the extendible fly jib.
19. Safe Load Indicator (S.L.I.)
Before working with the telescopic boom or fly jib, make sure that the S.L.I. is working properly. Before lifting the crane driver has to check the load for any lifting cycle. For working with telescopic boom or fly jib the automatic S.L.I. has to set to the correct automatic S.L.I. mode according to the existing crane working condition. The information shown at the automatic S.L.I. display gives permanent information for crane usage crane driver.

**20. Working with Single Top**

Operation with the single top is allowed with the main winch and the auxiliary winch. The maximum allowed line pull for single top operation is 10,100lbf. For operations with the single top mounted, select single rope fall and the correct S.L.I. code in accordance with existing counterweight and outrigger base. The maximum allowed capacity is limited by the selected S.L.I. code for main boom operation according to existing counterweight and outrigger base at one side and by the single line pull which is limited by hydraulic pressure at the other side. For operations with single top, the S.L.I. display indications for working radius and actual load are not absolutely exact, because the geometrical dimensions for the single top are not taken into account at boom geometry for the S.L.I. system. For operations with the single top mounted, use the TADANO LOAD RATING CHARTS for the telescopic boom in accordance with existing counterweight and outrigger base to find the total rated lifting capacity and also select the correct S.L.I. code for the telescopic boom in accordance with the existing counterweight and outrigger base. Find the total rated lifting capacity based on boom length and working radius. From that value, subtract 1,100 lbs and the weights of all lifting equipment used including hook block, sling and other auxiliary lifting devices. The result (<total rated lifting capacity> - <1,100 lbs> - <lifting equipment>) is the total rated lifting capacity for a single top lift.

DEFINITIONS

1. Working Radius: Horizontal distance from a projection of the axis of rotation to supporting surface before loading to the center of the vertical hoist line or tackle with load applied. The deflection of the boom due to its deadweight and the rated load are taken into account.
2. Loaded Boom Angle: The angle between the boom base section and the horizontal, after lifting the total rated load at the working radius.
3. Working Area: Area measured in a circular arc about the centerline of rotation.
4. Freely Suspended Load: Load hanging free with no direct external force applied except by the hoist line.
5. Side Load: Horizontal side force applied to the lifted load either on the ground or in the air.

Safe Load Indicator

The Safe Load Indicator is intended as an aid to the operator. Under no condition should it be relied upon to replace use of TADANO LOAD RATING CHARTS and Operating Instructions. Sole reliance upon the Safe Load Indicator Aids in place of good operating practice can cause an accident. The operator must exercise caution to assure safety.

ON TIRE OPERATION

1. Total rated lifting capacities on tires are in pounds and do not exceed 75% of tipping loads as determined by test in accordance with SAE J-765.
2. Total rated lifting capacities shown in TADANO LOAD RATING CHARTS are based on the condition that the crane is set on firm level supporting surfaces with suspension let down to block. They are based on actual load radius increased by tire deformation and boom deflection.
3. Total rated lifting capacities are based on proper tire inflation, capacity and condition. Damaged tires are hazardous to safe operation of the crane.
4. Tires shall be inflated to correct air pressure, acc. to tire size at center:

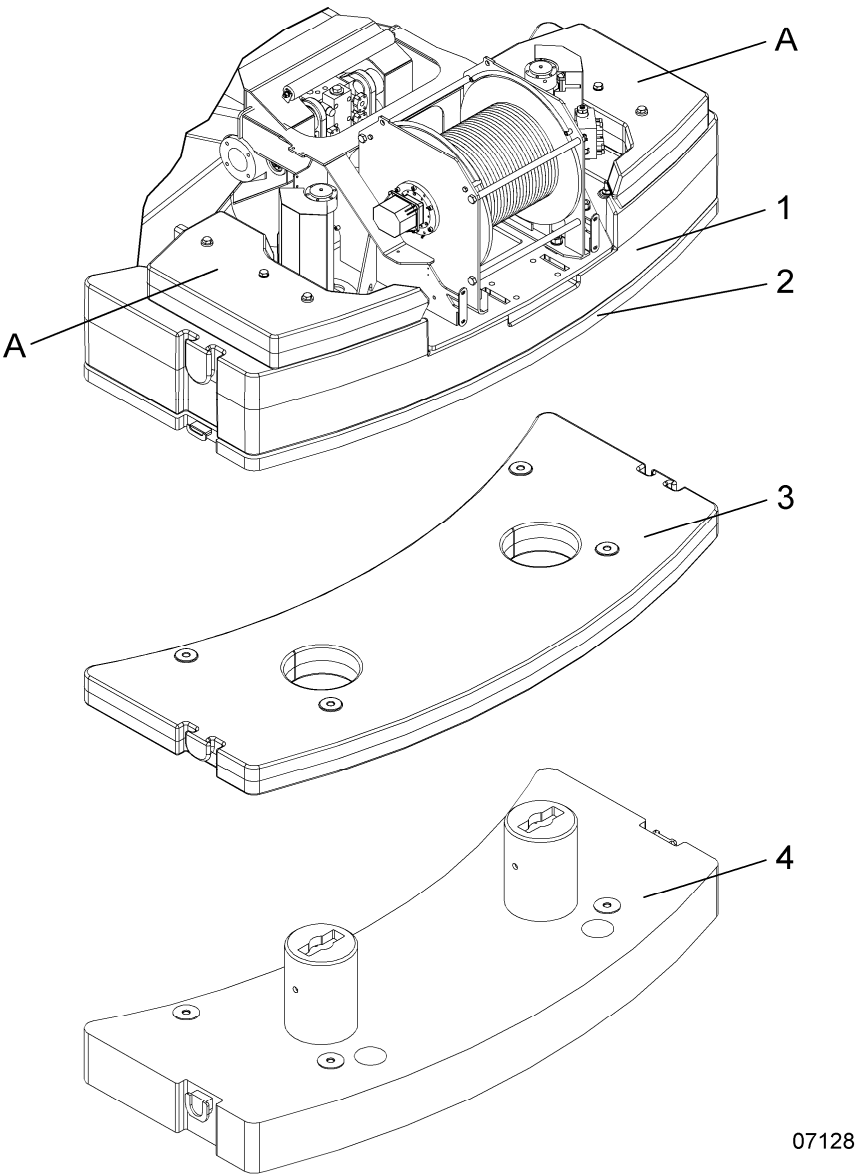
14.00R25	145 psi (10kgf/cm)
16.00R25	130 psi (9kgf/cm)
20.5R25	100 psi (7kgf/cm)
5. On tire lifting with "extendible fly jib" is not permitted.
6. When making a lift on the tires, set the parking brake.
7. Travelling with the load is permitted only if the following condition exist:
Crane carrier is set on firm level supporting surface; tires inflated to specified pressure; boom must be centered over the rear of the carrier; superstructure swing lock pin engaged; slewing brake engaged; maximum boom length is not exceed 57.4 ft; lifted load kept as close to the ground as possible and fastened to the chassis to prevent the lifted load from swinging or oscillating; travel slowly with a creeping speed not to exceed 1 mph; and especially avoid any abrupt steering, accelerating or braking.
If possible, extend the outriggers and lower the outrigger floats to just above ground level.
8. Do not operate the crane while carrying the load.

ATF50G-3 Axle weight distribution chart

	GVW	Axle 1	Axle 2	Axle 3
Base machine with 16.00R25 tires, 4.1t counterweight	68,550	19,928	24,311	24,311
1. 29.5 ft/ 52.5 ft extendible fly jib	2,324	2,244	40	40
2. Auxiliary winch with cable	1,904	-1,820	1,862	1,862
3. Auxiliary boom point sheave (single top)	194	434	-120	-120
4. 6.6 ton hook ball in storage at carrier rear	330	-180	255	255
5. 35.3 ton hook block at front bumper	662	1,384	-361	-361
6. 0.8t counterweight at upper	1,746	-1,400	1,573	1,573
7. 1.0t counterweight at upper	1,941	-1,555	1,748	1,748
8. 2.0t counterweight at upper	4,433	3,869	282	282
9. 2.1t counterweight at carrier deck	4,665	4,073	296	296
10. 20.5R25 tires in lieu of 16.00R25	1,071	357	357	357
11. 14.00R25 tires in lieu of 16.00R25	-661	-239	-211	-211
12. Additional oil cooler	98	-30	64	64
13. Air conditioning (carrier)	132	174	-21	-21
14. Air conditioning (superstructure)	96	8	44	44
15. Rear tool box	-661	-239	-211	-211



Counterweight variant



	A) 0.4tx2	1) 4.1t	2) 1.0t	3) 2.0t	4) 2.1t
10,803lb	x	x			
15,432lb	x	x			x
22,046lb	x	x	x	x	x



MEMO

4242 WEST GREENS ROAD
HOUSTON, TEXAS 77066 U.S.A.
PHONE: (281) 869-0030 EXT. 315
FAX: (281) 869-0040
Parts Hotline: (281) 869-0033
Service Hotline: (281) 869-5925
Web site: www.tadanoamerica.com
E-mail: sales@tadano-cranes.com

Form No. TAC-ATF50G-4-080123