



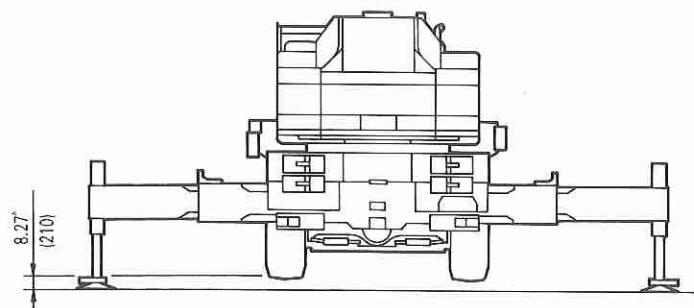
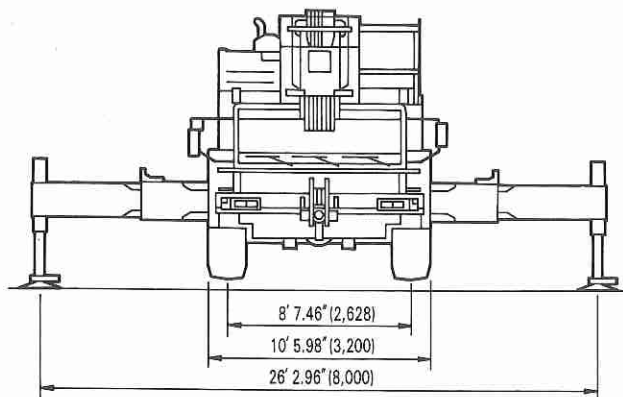
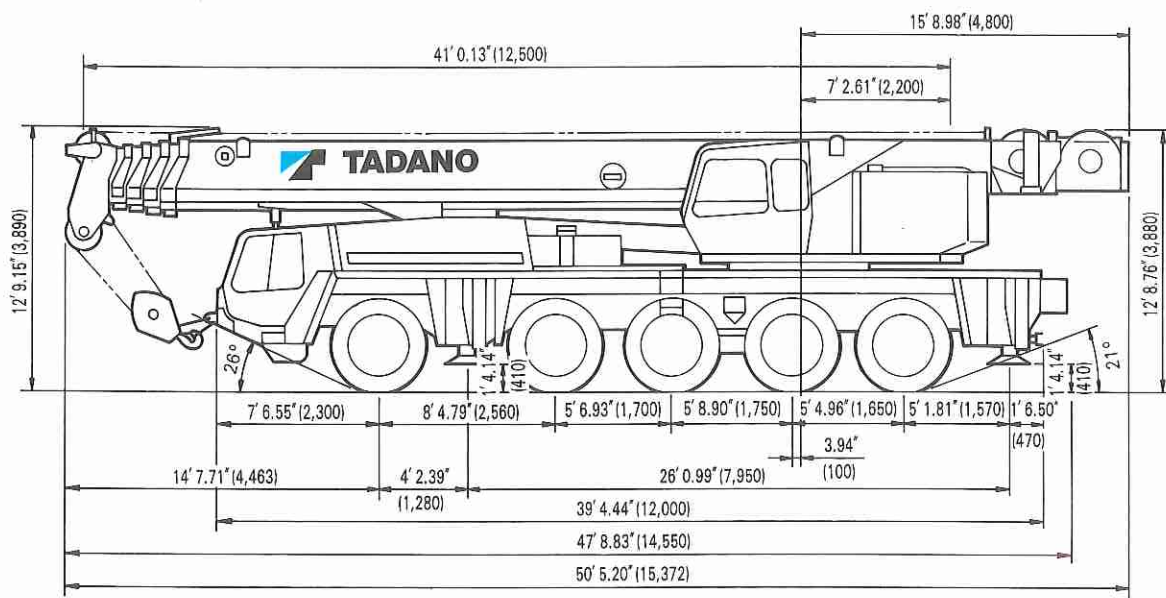
ATF-1500XL

150 Ton Capacity (136 Metric Tons)

ALL TERRAIN CRANE

DIMENSIONS

() : mm



TURNING RADIUS

Steering	Front Wheel	All Wheel
Inside	21.0 ft (6.4m)	12.1 ft (3.7m)
Carrier	43.0 ft (13.1m)	33.5 ft (10.2m)
Over boom extension	48.2 ft (14.7m)	39.0 ft (11.9m)

Specifications are subject to change without notice.

1. CRANE CARRIER

1.1 FRAME

The chassis frame is a torsion and bend resistant box type welded construction made of high tensile steel. A support ring with tapped holes is integrated in the upper plate for mounting the triple roller bearing slewing ring. Double box type outrigger casings are integrated at the front and rear.

1.2 OUTRIGGERS

Four point, fully hydraulic, double telescopic outriggers with horizontal and vertical motions independently controlled by electromagnetic valves. Push button controls with level gauges are located on both sides of carrier. Vertical cylinders are equipped with integral holding valves. Metallic floats are stored on the vertical cylinders.

Outrigger base: Width: 26.25 ft (full extension) or 17.72 ft (half extension)
Length: 26.08 ft

1.3 CARRIER ENGINE

Mercedes Benz model OM 442 LA, 8 cylinder, turbocharged, water-cooled diesel engine with intercooler, displacement 892.04 in³.

Rating: 503 hp at 2,100 rpm
1,489 ft lbs torque at 1,100–1,600 rpm
(according to 80/1269/EEC and 88/195/EEC)

1.4 COOLING SYSTEM

Water cooling system with hydrostatic driven radiator fan and thermostatically controlled cooler.

1.5 TRANSMISSION

ZF model 16 S 220A 16 speed transmission and hydro-dynamic torque converter WSK 400 with automatic "lock-up" (mechanical through drive).

Gear ratios: Forward: 14.14 / 11.83 / 9.82 / 8.22 / 6.98 / 5.84 / 4.69 / 3.93 / 3.08 / 2.58 / 2.14 / 1.79 / 1.53 / 1.27 / 1.02 / 0.86
Reverse: 12.53 / 10.49

1.6 DRIVE

10 × 6 for on-road
10 × 8 for off-road

The axles are driven as follows:

- 1st condition: 2nd, 4th and 5th axles are driven with inter-axle differential between 2nd and 4th axles and between 4th and 5th axles.
- 2nd condition: 2nd, 3rd, 4th and 5th axles are driven with automatically locked inter-axle differential between 2nd and 4th axles and inter-axle differential between 4th and 5th axles.

Other possibilities for 10 × 8 drive: Inter-axle differential between 4th and 5th axles and all transversal differentials can be locked.

1.7 AXLES

- 1st axle: Steer axle
- 2nd axle: Drive / steer axle with outer planetary hubs. Reduction: 8.4
- 3rd axle: Drive / steer axle with integrated transfer gear box and outer planetary hubs. Reduction: 8.4
- 4th axle: Drive / steer axle with outer planetary hubs. Reduction: 8.4
- 5th axle: Drive / steer axle with outer planetary hubs. Reduction: 8.4

Transversal differential locks in all drive axles.

1.8 SUSPENSION

Hydro-pneumatic, lockable suspension with leveling adjustment. All axles have transverse, trailing and semi-trailing arms. With leveling adjustment and locked cylinders, the chassis can be tilted longitudinally and laterally by push buttons in the carrier cab acting on individual suspension cylinders.

Cylinder stroke: – 4.57 in.
+ 5.98 in.

1.9 BRAKE SYSTEM

Service brakes: Dual circuit compressed air system with air dryer.
Parking brake: Spring-loaded type acting on 3rd, 4th and 5th axles.
Auxiliary brake: Retarder integrated in transmission.
Additional eddy current brake (Telma electrical brake). Optional

1.10 WHEELS

- (10) disc wheel 17.00-25 with (10) 20.5R25 on/off road profile tires (Bridgestone VHB)
- (1) spare disc wheel 17.00-25 with (1) 20.5R25 on/off road profile tires (Bridgestone VHB)

1.11 STEERING SYSTEM

ZF dual circuit semi-block mechanical steering of 1st, 2nd and 3rd axles with hydraulic booster and transmission mounted emergency steering pump. In case of a main steering pump failure, the emergency steering pump automatically takes over the function of the main steering pump and is dependent on travel speed. An electrical display in the chassis notifies the driver if this occurs. At slow speeds (1st, 2nd, 3rd and 4th gears in the low range) 4th and 5th axles can also be hydraulically steered (not permitted when towing a dolly). 4th and 5th axles are mechanically locked in "centered" position when rear steering is not activated. Rear axles are steered independently from the front axles to provide rear only, crab, or coordinated steering modes.

1.12 POWER TRAIN

Maintenance-free drive-shafts with geared flanges

1.13 FUEL SYSTEM

150.6 gal. fuel tank

1.14 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 glass, adjustable spring suspended hydraulically cushioned seats with 3 point safety belts and headrests, 2 cab roof ventilation flaps, 2 rear-view mirrors electrically adjustable, 1 wide angle mirror and additional curb mirror (all electrically heated), portable radio / cassette (also for crane cab) and connections for wireless, engine dependent warm water heater with defroster nozzles for windshield and cab floor.

Instrumentation includes speedometer, odometer, tachograph, hour meter, tachometer, fuel level gauge, air pressure gauge, oil pressure indicator lamp, engine temperature and transmission temperature indicator lamps and gauges.

1.15 ELECTRICAL SYSTEM

24 volt DC system with 85 ampere alternator two 12 volt / 170 Ah batteries, with remote engine start and battery recharging connections

Front lighting includes: 2 main headlights, 2 high beam headlights, 2 foglights, 2 directional indicators and 2 parking lights.

Rear lighting includes: 2 rear panels, each with directional indicator, parking light, brake light, foglight and backup light: plus separate 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, rotating beacons on cab roof.

1.16 TOOLS AND ACCESSORIES

Include: Special tool set, 4 wheel chocks, warning triangle, hazard warning flashing lamp, fire extinguisher, and first aid kit.

1.17 PAINTING

Standard TADANO Tricolor

1.18 DIMENSIONS

Overall width: 10.50 ft
 Overall height: 12.76 ft normal
 12.38 ft lowered
 Overall length: 50.43 ft
 Carrier length: 39.37 ft
 Wheelbase: 8.40 ft + 5.58 ft + 5.74 ft + 5.41 ft
 Tailswing: 15.75 ft

1.19 TRAVEL PERFORMANCE (132,200 LBS. GVW)

Max. travel speed: 49.7 mph
 Max. gradeability: 74.8 %
 (Theoretical value-gradeability depends on ground conditions and the coefficient of friction.)

Acceleration 0 to 31.5 mph: Approx. 27 seconds

1.20 OTHER EQUIPMENT FOR CARRIER

1. Spare wheel and tire 20.5R25 Bridgestone
2. Trailer coupling with D-value 19t
3. Carrier deck plates with anti-slip coating
4. Front and rear fenders
5. Front and rear towing and tie-down lugs
6. Access ladder
7. Headache ball storage bracket
8. Pneumatic and electrical connectors for use with boom dolly or trailer

1.21 CARRIER OPTIONAL EQUIPMENT

1. Engine pre-heat system
2. Hydraulic tank pre-heat system
3. Eddy current brake

2. TRAVEL PERFORMANCE DATA (According to DIN 70020)

Travel speeds and gradeability for each individual gear on firm and dry road surface and with a GVW of 132,200 lbs

	Travel speeds (mph)		Gradeability (%)	
	max. engine revs	torque 70%	max. torque moment	
			10 × 6	10 × 8
1 st gear:	3.7	1.6	56.0	74.8
2 nd gear:	4.4	1.9	44.4	57.5
3 rd gear:	5.6	2.2	45.1	45.1
4 th gear:	6.2	2.5	36.4	36.4
5 th gear:	7.5	3.1	30.1	30.1
6 th gear:	8.7	3.7	24.6	24.6
7 th gear:	11.2	4.3	19.2	19.2
8 th gear:	13.0	5.6	15.8	15.8
9 th gear:	16.8	6.8	12.0	12.0
10 th gear:	19.9	8.7	9.7	9.7
11 th gear:	24.2	9.9	7.8	7.8
12 th gear:	29.2	12.6	7.8	7.8
13 th gear:	34.2	14.3	5.1	5.1
14 th gear:	41.0	17.4	4.0	4.0
15 th gear:	49.7	21.7	2.9	2.9
16 th gear:	49.7	25.5	2.2	2.2
1 st reverse gear:	3.7	1.9	47.8	62.3
2 nd reverse gear:	5.0	2.2	49.1	49.1

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

3. CRANE SUPERSTRUCTURE

3.1 FRAME

Torsion resistant all-welded rigid structure of high tensile steel. Connected to carrier by a triple roller bearing slewing ring with external gear for 360° continuous rotation.

3.2 CRANE ENGINE

Mercedes Benz model OM 366A, 6 cylinder, turbocharged, water cooled diesel engine, displacement 363.6 in³. Engine revolutions controlled with foot pedal and hand throttle.

Rating: 153 hp at 2,000 rpm

389 ft lbs torque at 1,300–1,700 rpm

(according to DIN 6270 B)

Separate fuel tank - 52.8 gal

3.3 HYDRAULIC SYSTEM

Three circuit diesel hydraulic system with 1 double axial piston variable displacement pump (hydraulically adjustable with cross-sensing) and 1 double pump for swing and pilot controls. Equipped with air cooled type oil cooler.

3.4 HYDRAULIC CONTROLS

2 joy-stick and 1 single axis self centering, pilot controlled levers plus 5 three-way hydraulically operated valves for independent simultaneous operation of all crane motions with variable speed control.

3.5 TELESCOPIC MAIN BOOM

Five section box type construction of high tensile, fine-grained steel consisting of 1 base section and 4 full power telescoping sections. The boom is extended by means of 3 double acting hydraulic cylinders with integral holding valves and a rope crowd extension system. Boom head contains 2 idler sheaves and 7 load bearing sheaves made of nylatron. Equipped with anti-two block system.

Total retracted length: 41.01 ft

Total extended length: 160.76 ft

Maximum sheave height: 170 ft

Telescope speed: Normal 155 seconds/high 90 seconds

Two telescoping modes:

a) Telescopic sections 1 + 2 synchronously to full extension and then 3 + 4 synchronously

b) All telescopic sections 1 + 2 + 3 + 4 synchronously

For service purposes it is possible to telescope section 1, 2 and 3 / 4 independently.

3.6 TELESCOPIC BOOM EXTENSION

Swing around lattice type telescopic boom extension 31.17 ft–53.15 ft long, offset 5°/17°/30°, consisting of a 31.17 ft lattice type base section and a 22 ft long lattice type extension which stores inside the base section. Equipped with anti-two block system.

Additional lattice type stinger of 24.6 ft giving total extension length of 79.07 ft (Optional)

Additional lattice type intermediate section of 19.68 ft giving total extension length of 98.75 ft (Optional)

3.7 AUXILIARY LIFTING SHEAVE (SINGLE TOP)

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 with integral holding valve

Boom elevation: –2° to +82°

Boom elevation speeds: Normal 86 seconds / high 50 seconds

3.9 MAIN WINCH

Axial piston constant displacement motor, grooved hoist drum with integral planetary gear and hydraulically controlled spring loaded, multiple disc brake with integrated free wheeling (no sagging of load), drum rotation indicator and lower limit switch. Wire rope with "Superstop" easy reeving system.

Drum diameter: 20.67 in

Rope dia/length: 0.83 in × 820 ft

Max. line pull: 18,650 lbs at 3rd layer

Max. line speed: Normal 240 ft/min at 5th layer

High 420 ft/min at 5th layer

3.10 AUXILIARY WINCH

Axial piston constant displacement motor, grooved hoist drum with integral planetary gear and hydraulically controlled spring loaded, multiple disc brake with integrated free wheeling (no sagging of load), drum rotation indicator and lower limit switch. Wire rope with "Superstop" easy reeving system.

Drum diameter: 20.67 in

Rope dia/length: 0.83 in × 820 ft

Max. line pull: 18,650 lbs at 3rd layer

Max. line speed: Normal 240 ft/min at 5th layer

3.11 SLEWING GEAR

Triple-roller bearing slewing ring with external gear driven by constant displacement axial piston motor with three-stage planetary gear. Foot actuated swing brake plus parking brake.

Slewing speed infinitely variable: 0–1.5 rpm continuous through 360°

3.12 COUNTERWEIGHT

Maximum counterweight 64,815 lbs, divisible, assembled and disassembled by hydraulic cylinders controlled from crane cab. Overall width 12.20 ft with maximum counterweight.

3.13 CRANE CAB

Spacious all-steel comfortable panoramic cab with sliding door and extra-large tinted laminated safety glass windows, swing-out front window with windshield wiper, fixed cab roof window with armoured glass and wiper, sun visor, cab light, signal horn, radio/cassette housing, connections for wireless, adjustable spring suspended hydraulically cushioned seat with headrest and engine-independent hot air heater with defroster nozzles for windshield and cab floor, electric fan. Digital display of crane hydraulic pressures via load moment device. Fuel level gauge, engine temperature indicator lamp and gauge, engine oil pressure indicator lamp, hydraulic oil temperature indicator lamp, indicator lamps for air filter, hydraulic filter and alternator, hour meter. Ergonomically positioned controls and instrumentation for crane operation.

3.14 ELECTRICAL SYSTEM

24 volt DC system with 30 ampere 3 phase alternator, two 12 volt / 110 Ah batteries with remote engine start and battery recharging connections plus 1 rotating beacon on right-hand side of main winch, 2 flood lights on cab front flap, 1 flood light on boom base section and 2 side marker lights on boom head.

3.15 SAFETY DEVICES

Load moment device (PAT DS 350) with interpolation and automatic overload shut-off, overload warning, digital display for boom angle, boom length, working radius, hook load and additional information. Anti-two block devices for telescopic boom, telescopic boom extension and auxiliary lifting sheave. Safety valves against pipe and hose rupture, holding valves on hydraulic cylinders, lower limit switch, drum rotation indicators on main and auxiliary winch.

3.16 SUPERSTRUCTURE EQUIPMENT

1. 8.8 ton (17,636 lbs) headache ball

2. 88.2 ton (176,368 lbs) hook block, 5 sheaves, ram's head double hook

3. Free mechanism in boom elevation and slewing circuits for travel with boom dolly

3.17 SUPERSTRUCTURE OPTIONAL EQUIPMENT

1. 27.6 ton (55,115 lbs) hook block, 1 sheave, single horn hook

2. 69.5 ton (138,890 lbs) hook block, 3 sheaves, single horn hook

3. 69.5 ton (138,890 lbs) hook block, 3 sheaves, rams horn hook

4. Engine pre-heat system

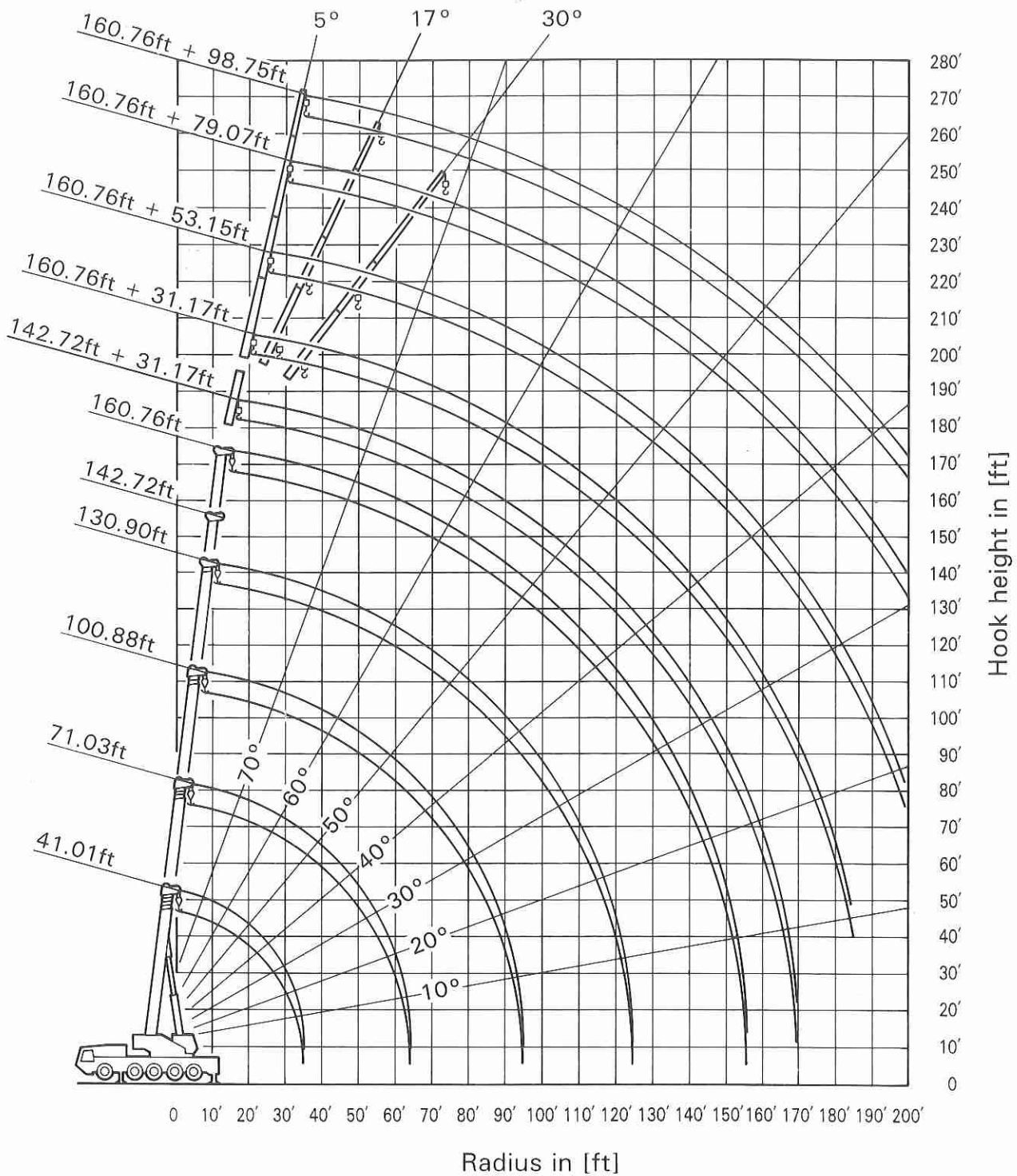
5. Hydraulic tank pre-heat system

6. Additional lattice type stinger 24.6 ft

7. Additional lattice type intermediate section 19.68 ft

ATF-1500XL

LOAD RADIUS/LIFTING HEIGHT CHART



NOTE: Load Radius is measured in feet from Axis of Rotation. 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.

ATF-1500XL TADANO-Load rating chart

TELESCOPIC BOOM

•Counterweight 64,815 lbs

Lifting capacities in 1,000 lbs Per SAE J765

Load Radius Radius (ft)	On outriggers, 360° working area Outrigger base 26.25 ft																Load Radius Radius (ft)
	Boom length (ft)																
	41.01		71.03		71.03		100.88		100.88		130.90		130.90		160.76		
	∠	1)		∠		∠		∠		∠		∠		∠		∠	
10	70	300.0*	262.5	79	110.2	79	46.2										10
12	66	257.1	233.1	77	110.2	77	46.2										12
14	63	218.9	201.0	75	110.2	75	46.2	80	74.9	80	46.2						14
16	60	192.5	177.8	73	110.2	73	46.2	79	74.9	79	46.2						16
18	56	174.5	161.0	72	110.2	72	46.2	78	74.9	78	46.2						18
20	52	158.7	145.8	71	110.2	71	46.2	77	74.9	77	46.2	80	46.2	80	46.2		20
25	43	128.8	117.8	66	104.7	66	46.2	75	73.6	75	46.2	78	46.2	78	46.2	81	28.6
30	30	105.8	97.8	62	89.5	62	46.2	72	64.3	72	46.2	76	46.2	76	46.2	80	28.6
35				56	80.6	56	46.2	69	56.2	69	46.2	74	46.2	74	44.7	78	28.6
40				51	70.4	51	46.2	66	49.3	66	46.2	72	44.3	72	40.7	76	28.6
45				45	58.5	45	46.2	62	43.8	62	46.0	69	39.0	69	36.1	74	28.6
50				39	49.5	39	45.0	59	39.2	59	43.4	67	34.6	67	32.4	73	28.6
55				31	42.3	31	41.3	55	35.2	55	39.6	65	31.3	65	29.3	71	27.3
60				22	36.1	22	37.6	51	31.9	51	36.7	62	28.2	62	26.4	70	25.1
65								47	29.1	47	34.1	59	25.5	59	24.2	67	22.9
70								43	26.6	43	31.0	57	23.3	57	22.0	66	21.1
75								38	22.5	38	27.6	54	21.3	54	20.2	64	19.6
80								33	20.5	33	24.7	51	19.6	51	18.9	61	18.2
85								26	17.8	26	22.2	48	18.0	48	17.8	59	16.7
90								17	15.7	17	20.0	45	16.7	45	16.7	57	15.4
95												42	15.5	42	15.4	55	14.5
100												39	14.5	39	14.1	52	13.4
110												29	11.9	29	12.4	48	11.6
120												18	9.5	18	11.0	42	10.5
130																36	9.1
140																27	7.3
150																15	5.9
Telescoping sequence %																	
Tel. 1	0		50		25		100		50		100		75		100		Tel. 1
Tel. 2	0		50		25		100		50		100		75		100		Tel. 2
Tel. 3	0		0		25		0		50		50		75		100		Tel. 3
Tel. 4	0		0		25		0		50		50		75		100		Tel. 4
Code	015	010/110	010		110		010		110		010		110		010/110		Code

1) Over rear, swing lock engaged.

*With additional 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 64.815 lbs

Lifting capacities in 1,000 lbs Per SAE J765

Load Radius (ft)	On outriggers, 360° working area Outrigger base 17.72 ft																Load Radius (ft)
	Boom length (ft)																
	41.01		71.03		71.03		100.88		100.88		130.90		130.90		160.76		
	∠		∠		∠		∠		∠		∠		∠		∠		
10	70	218.1	79	110.2	79	46.2											10
12	66	193.1	77	110.2	77	46.2											12
14	63	174.1	75	110.2	75	46.2	80	74.9	80	46.2							14
16	60	158.3	73	110.2	73	46.2	79	74.9	79	46.2							16
18	56	148.9	72	110.2	72	46.2	78	74.9	78	46.2							18
20	52	135.6	71	110.2	71	46.2	77	74.9	77	46.2	80	46.2	80	46.2			20
25	43	100.5	66	97.1	66	46.2	75	73.6	75	46.2	78	46.2	78	46.2	81	28.6	25
30	30	73.2	62	71.3	62	46.2	72	64.3	72	46.2	76	46.2	76	46.2	80	28.6	30
35			56	55.0	56	46.2	69	54.3	69	46.2	74	46.2	74	44.7	78	28.6	35
40			51	44.0	51	45.5	66	43.1	66	45.6	72	44.0	72	40.7	76	28.6	40
45			45	35.9	45	39.4	62	35.3	62	39.7	69	37.8	69	36.1	74	28.6	45
50			39	29.4	39	32.8	59	28.8	59	33.7	67	32.1	67	32.4	73	28.6	50
55			31	24.3	31	27.6	55	23.8	55	28.4	65	27.0	65	28.8	71	27.3	55
60			22	20.3	22	23.6	51	19.7	51	24.3	62	22.8	62	24.5	70	24.5	60
65							47	16.3	47	20.9	59	19.4	59	21.1	67	21.3	65
70							43	13.5	43	17.9	57	16.6	57	18.2	66	18.7	70
75							38	11.2	38	15.5	54	14.2	54	15.8	64	16.2	75
80							33	9.1	33	13.5	51	12.1	51	13.8	61	14.2	80
85							26	7.4	26	11.7	48	10.3	48	11.9	59	12.3	85
90							17	5.9	17	10.2	45	8.7	45	10.4	57	10.7	90
95											42	7.4	42	8.9	55	9.3	95
100											39	6.1	39	7.8	52	8.1	100
110											29	4.1	29	5.6	48	5.9	110
120											18	2.4	18	4.0	42	4.2	120
130															36	2.7	130
140															27	1.5	140
Telescoping sequence %																	
Tel. 1	0		50	25	100	50	100	75	100	Tel. 1							
Tel. 2	0		50	25	100	50	100	75	100	Tel. 2							
Tel. 3	0		0	25	0	50	50	75	100	Tel. 3							
Tel. 4	0		0	25	0	50	50	75	100	Tel. 4							
Code	011/111	011	111	011	111	011	111	011	111	011/111	Code						

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 44,312 lbs

Lifting capacities in 1,000 lbs Per SAE J765

Load Radius (ft)	On outriggers, 360° working area Outrigger base 26.25 ft																Load Radius (ft)
	Boom length (ft)																
	41.01		71.03		71.03		100.88		100.88		130.90		130.90		160.76		
	°	1)		°		°		°		°		°		°			
10	70	280.0*	255.0	79	110.2	79	46.2										10
12	66	235.9	222.7	77	110.2	77	46.2										12
14	63	201.5	193.8	75	110.2	75	46.2	80	74.9	80	46.2						14
16	60	179.0	170.8	73	110.2	73	46.2	79	74.9	79	46.2						16
18	56	161.0	152.3	72	110.2	72	46.2	78	74.9	78	46.2						18
20	52	144.5	135.5	71	110.2	71	46.2	77	74.9	77	46.2	80	46.2	80	46.2		20
25	43	114.8	108.0	66	104.7	66	46.2	75	73.6	75	46.2	78	46.2	78	46.2	81	25
30	30	93.5	87.8	62	89.5	62	46.2	72	64.3	72	46.2	76	46.2	76	46.2	80	30
35				56	73.2	56	46.2	69	56.2	69	46.2	74	46.2	74	44.7	78	35
40				51	58.0	51	46.2	66	49.3	66	46.2	72	44.3	72	40.7	76	40
45				45	47.8	45	46.2	62	43.8	62	46.0	69	39.0	69	36.1	74	45
50				39	40.0	39	43.5	59	39.0	59	43.4	67	34.6	67	32.4	73	50
55				31	33.8	31	37.0	55	32.7	55	37.6	65	31.3	65	29.3	71	55
60				22	28.6	22	31.6	51	27.7	51	32.3	62	28.2	62	26.4	70	60
65								47	23.6	47	28.3	59	25.5	59	24.2	67	65
70								43	20.4	43	24.8	57	23.3	57	22.0	66	70
75								38	17.4	38	21.9	54	20.3	54	20.2	64	75
80								33	14.9	33	19.3	51	17.7	51	18.9	61	80
85								26	12.9	26	17.1	48	15.6	48	17.3	59	85
90								17	11.1	17	15.2	45	13.9	45	15.5	57	90
95												42	12.2	42	13.7	55	95
100												39	10.6	39	12.1	52	100
110												29	8.1	29	9.6	48	110
120												18	6.0	18	7.6	42	120
130																36	130
140																27	140
150																15	150
Telescoping sequence %																	
Tel. 1	0		50		25		100		50		100		75		100		Tel. 1
Tel. 2	0		50		25		100		50		100		75		100		Tel. 2
Tel. 3	0		0		25		0		50		50		75		100		Tel. 3
Tel. 4	0		0		25		0		50		50		75		100		Tel. 4
Code	025	020/120	020		120		020		120		020		120		020/120		Code

1) Over rear, swing lock engaged.
*With additional 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 44,312 lbs

Lifting capacities in 1,000 lbs Per SAE J765

Load Radius (ft)	On outriggers, 360° working area Outrigger base 17.72 ft																Load Radius (ft)
	Boom length (ft)																
	41.01 ∠	71.03 ∠	71.03 ∠	100.88 ∠	100.88 ∠	130.90 ∠	130.90 ∠	160.76 ∠									
10	70	213.6	79	110.2	79	46.2											10
12	66	189.9	77	110.2	77	46.2											12
14	63	171.2	75	110.2	75	46.2	80	74.9	80	46.2							14
16	60	154.7	73	110.2	73	46.2	79	74.9	79	46.2							16
18	56	140.4	72	110.2	72	46.2	78	74.9	78	46.2							18
20	52	121.5	71	108.3	71	46.2	77	74.9	77	46.2	80	46.2	80	46.2			20
25	43	80.9	66	78.1	66	46.2	75	71.8	75	46.2	78	46.2	78	46.2	81	28.6	25
30	30	58.0	62	55.9	62	46.2	72	55.0	72	46.2	76	46.2	76	46.2	80	28.6	30
35			56	42.5	56	44.8	69	41.6	69	45.1	74	44.1	74	44.7	78	28.6	35
40			51	33.3	51	37.1	66	32.5	66	37.5	72	35.9	72	37.7	76	28.6	40
45			45	26.6	45	30.2	62	25.9	62	30.8	69	29.1	69	30.8	74	28.6	45
50			39	21.6	39	25.0	59	21.0	59	25.6	67	24.0	67	25.7	73	25.5	50
55			31	17.5	31	20.8	55	16.8	55	21.3	65	19.8	65	21.5	71	21.7	55
60			22	14.1	22	17.3	51	13.4	51	17.8	62	16.4	62	18.0	70	18.2	60
65							47	10.7	47	15.1	59	13.6	59	15.3	67	15.5	65
70							43	8.2	43	12.8	57	11.3	57	13.0	66	13.3	70
75							38	6.3	38	10.8	54	9.3	54	11.0	64	11.3	75
80							33	4.7	33	9.0	51	7.6	51	9.2	61	9.5	80
85							26	3.2	26	7.6	48	6.1	48	7.8	59	8.0	85
90							17	1.9	17	6.2	45	4.8	45	6.4	57	6.7	90
95											42	3.6	42	5.2	55	5.5	95
100											39	2.6	39	4.2	52	4.5	100
110													29	2.5	48	2.7	110
120													18	1.1	42	1.3	120
Telescoping sequence %																	
Tel. 1	0		50	25	100	50	100	75	100								Tel. 1
Tel. 2	0		50	25	100	50	100	75	100								Tel. 2
Tel. 3	0		0	25	0	50	50	75	100								Tel. 3
Tel. 4	0		0	25	0	50	50	75	100								Tel. 4
Code	021/121	021	121	021	121	021	121	021	121	021/121	Code						

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 20,062 lbs

Lifting capacities in 1,000 lbs Per SAE J765

Load Radius (ft)	On outriggers, 360° working area Outrigger base 26.25 ft															Load Radius (ft)	
	Boom length (ft)																
	41.01		71.03		71.03		100.88		100.88		130.90		130.90		160.76		
	∠		∠		∠		∠		∠		∠		∠		∠		∠
10	70	255.0	79	110.2	79	46.2											10
12	66	222.7	77	110.2	77	46.2											12
14	63	193.8	75	110.2	75	46.2	80	74.9	80	46.2							14
16	60	170.8	73	110.2	73	46.2	79	74.9	79	46.2							16
18	56	152.3	72	110.2	72	46.2	78	74.9	78	46.2							18
20	52	135.5	71	110.2	71	46.2	77	74.9	77	46.2	80	46.2	80	46.2			20
25	43	103.9	66	101.6	66	46.2	75	73.6	75	46.2	78	46.2	78	46.2	81	28.6	25
30	30	74.4	62	72.9	62	46.2	72	64.3	72	46.2	76	46.2	76	46.2	80	28.6	30
35			56	55.8	56	46.2	69	54.5	69	46.2	74	46.2	74	44.7	78	28.6	35
40			51	43.9	51	46.2	66	42.8	66	46.2	72	44.3	72	40.7	76	28.6	40
45			45	35.5	45	39.1	62	34.6	62	38.0	69	38.0	69	36.1	74	28.6	45
50			39	29.2	39	32.7	59	28.3	59	31.6	67	31.6	67	32.4	73	28.6	50
55			31	23.9	31	27.5	55	23.0	55	27.0	65	26.4	65	28.1	71	27.3	55
60			22	19.2	22	23.0	51	18.5	51	23.6	62	22.0	62	23.8	70	24.0	60
65							47	14.8	47	19.9	59	18.3	59	20.1	67	20.3	65
70							43	11.8	43	16.9	57	15.5	57	17.1	66	17.3	70
75							38	9.3	38	14.3	54	12.8	54	14.5	64	14.8	75
80							33	7.3	33	12.1	51	10.6	51	12.3	61	12.5	80
85							26	5.6	26	10.3	48	8.7	48	10.5	59	10.7	85
90							17	3.9	17	8.7	45	7.2	45	8.9	57	9.2	90
95											42	5.9	42	7.5	55	7.8	95
100											39	4.7	39	4.6	52	6.5	100
110											29	2.5	29	4.3	48	4.3	110
120													18	2.5	42	2.6	120
Telescoping sequence %																	
Tel. 1	0		50		25		100		50		100		75		100		Tel. 1
Tel. 2	0		50		25		100		50		100		75		100		Tel. 2
Tel. 3	0		0		25		0		50		50		75		100		Tel. 3
Tel. 4	0		0		25		0		50		50		75		100		Tel. 4
Code	030/130		030		130		030		130		030		130		030/130		Code

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 20,062 lbs

Lifting capacities in 1,000 lbs Per SAE J765

Load Radius (ft)	On outriggers, 360° working area Outrigger base 17.72 ft															Load Radius (ft)
	Boom length (ft)															
	41.01		71.03		71.03		100.88		100.88		130.90		130.90		160.76	
	∠		∠		∠		∠		∠		∠		∠		∠	
10	70	209.0	79	110.2	79	46.2										10
12	66	186.1	77	110.2	77	46.2										12
14	63	172.5	75	110.2	75	46.2	80	74.9	80	46.2						14
16	60	143.0	73	110.2	73	46.2	79	74.9	79	46.2						16
18	56	114.4	72	99.7	72	46.2	78	74.9	78	46.2						18
20	52	89.6	71	88.5	71	46.2	77	73.8	77	46.2	80	46.2	80	46.2		20
25	43	58.3	66	56.0	66	46.2	75	54.1	75	46.2	78	46.2	78	46.2	81	28.6
30	30	41.2	62	38.8	62	42.5	72	37.5	72	43.2	76	41.6	76	43.8	80	28.6
35			56	28.5	56	32.1	69	27.4	69	32.8	74	30.9	74	33.1	78	28.6
40			51	21.4	51	24.9	66	20.3	66	25.8	72	23.8	72	25.8	76	26.0
45			45	16.4	45	19.7	62	15.5	62	20.4	69	18.6	69	20.6	74	20.8
50			39	12.4	39	15.7	59	11.5	59	16.3	67	14.6	67	16.5	73	16.7
55			31	9.2	31	12.5	55	8.4	55	13.0	65	11.4	65	13.1	71	13.3
60			22	6.7	22	9.9	51	5.8	51	10.4	62	8.8	62	10.4	70	10.6
65							47	3.8	47	8.2	59	6.7	59	8.4	67	8.6
70							43	2.1	43	6.5	57	4.9	57	6.7	66	6.9
75									38	5.0	54	3.4	54	5.1	64	5.3
80									33	3.7	51	2.1	51	3.7	61	3.9
85									26	2.5			48	2.5	59	2.7
90									17	1.5			45	1.6	57	1.9
Telescoping sequence %																
Tel. 1	0		50		25		100		50		100		75		100	Tel. 1
Tel. 2	0		50		25		100		50		100		75		100	Tel. 2
Tel. 3	0		0		25		0		50		50		75		100	Tel. 3
Tel. 4	0		0		25		0		50		50		75		100	Tel. 4
Code	031/131		031		131		031		131		031		131		031/131	Code

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 8,818 lbs

Lifting capacities in 1,000 lbs Per SAE J765

Load Radius (ft)	On outriggers, 360° working area Outrigger base 26.25 ft														Load Radius (ft)	
	Boom length (ft)															
	41.01		71.03		71.03		100.88		100.88		130.90		130.90			160.76
	∠		∠		∠		∠		∠		∠		∠		∠	
10	70	255.0	79	110.2	79	46.2										10
12	66	222.7	77	110.2	77	46.2										12
14	63	193.8	75	110.2	75	46.2	80	74.9	80	46.2						14
16	60	170.8	73	110.2	73	46.2	79	74.9	79	46.2						16
18	56	152.3	72	110.2	72	46.2	78	74.9	78	46.2						18
20	52	134.5	71	110.2	71	46.2	77	74.9	77	46.2	80	46.2	80	46.2		20
25	43	93.3	66	90.3	66	46.2	75	73.6	75	46.2	78	46.2	78	46.2	81	28.6
30	30	66.0	62	62.9	62	46.2	72	62.1	72	46.2	76	46.2	76	46.2	80	28.6
35			56	47.2	56	46.2	69	46.5	69	46.2	74	46.2	74	44.7	78	28.6
40			51	36.4	51	40.7	66	35.8	66	41.5	72	39.6	72	40.7	76	28.6
45			45	28.2	45	32.8	62	27.5	62	33.5	69	31.7	69	33.7	74	28.6
50			39	22.2	39	26.4	59	21.4	59	27.0	67	25.3	67	27.3	73	27.3
55			31	17.4	31	21.3	55	16.5	55	21.9	65	20.2	65	22.1	71	22.4
60			22	13.3	22	17.1	51	12.7	51	17.9	62	16.2	62	18.1	70	18.4
65							47	9.6	47	14.7	59	13.0	59	14.9	67	15.2
70							43	7.3	43	12.1	57	10.5	57	12.3	66	12.6
75							38	5.3	38	10.0	54	8.4	54	10.2	64	10.4
80							33	3.4	33	8.2	51	6.7	51	8.4	61	8.6
85							26	2.1	26	6.7	48	5.2	48	6.9	59	6.9
90									17	5.4	45	3.8	45	5.6	57	5.7
95											42	2.6	42	4.3	55	4.6
100											39	1.4	39	3.2	52	3.4
110											29	1.2	29	1.4	48	1.1
Telescoping sequence %																
Tel. 1	0		50		25		100		50		100		75		100	Tel. 1
Tel. 2	0		50		25		100		50		100		75		100	Tel. 2
Tel. 3	0		0		25		0		50		50		75		100	Tel. 3
Tel. 4	0		0		25		0		50		50		75		100	Tel. 4
Code	040/140		040		140		040		140		040		140		040/140	Code

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

EXTENDIBLE FLY JIB

•Counterweight 64,815 lbs

Lifting capacities in 1,000 lbs Per SAE J765

Load Radius (ft)	On outriggers, 360° working area Outrigger base 26.25 ft																		Load Radius (ft)		
	Boom length 41.01 ft – 142.72 ft						Boom length 142.72 ft – 160.76 ft														
	Fly jib 31.17 ft offset			Fly jib 31.17 ft offset			Fly jib 31.17 ft offset			Fly jib 53.15 ft offset			Fly jib 79.07 ft offset			Fly jib 98.75 ft offset					
	5°	15°	30°	5°	15°	30°	5°	15°	30°	5°	15°	30°	5°	15°	30°	5°	15°	30°			
35	79	22.1					80	16.5												35	
40	78	21.9	79	15.8			79	16.5	80	14.4			81	12.1							40
45	76	20.9	77	15.8	78	11.5	77	16.5	78	14.4	80	11.0	79	12.1	81	9.2					45
50	75	19.9	76	15.5	77	11.5	76	16.5	77	14.4	79	11.0	78	12.1	80	9.2					50
55	73	18.8	74	15.1	75	11.3	75	16.2	76	14.1	77	11.0	77	11.9	79	9.2	82	6.9			55
60	71	17.7	73	14.6	74	11.1	74	15.4	75	13.5	76	11.0	76	11.5	78	9.2	81	6.8	78	6.5	60
65	69	16.7	70	14.3	72	10.9	72	14.7	73	13.2	74	10.8	75	11.2	76	8.9	79	6.6	77	6.4	65
70	68	15.6	69	13.6	71	10.7	71	13.6	72	12.6	73	10.6	74	10.8	75	8.6	78	6.5	76	6.0	70
75	66	14.5	67	13.0	69	10.4	69	12.5	70	12.1	71	10.4	72	10.4	74	8.4	76	6.4	75	5.8	75
80	64	13.6	65	12.5	67	10.0	68	11.5	69	11.1	70	10.2	71	9.9	73	8.0	75	6.3	74	5.5	80
85	62	12.8	63	11.9	65	9.7	66	10.6	67	10.3	68	9.9	69	9.3	71	7.7	73	6.1	72	5.4	85
90	61	12.0	62	11.4	63	9.5	64	9.8	66	9.6	67	9.3	68	8.7	70	7.5	72	6.0	71	4.9	90
95	59	11.3	60	10.7	61	9.3	62	9.1	64	8.9	65	8.7	67	8.1	68	7.2	70	5.8	70	4.6	95
100	56	10.5	57	10.2	59	9.0	61	8.4	62	8.2	63	8.1	66	7.6	67	6.8	69	5.6	69	4.5	100
110	52	8.7	53	9.2	55	8.5	57	7.2	58	7.1	59	7.0	62	6.7	63	6.4	65	5.4	66	4.0	110
120	47	7.3	48	7.7	50	8.1	53	6.2	54	6.2	55	6.1	58	5.9	60	5.8	62	5.2	63	3.5	120
130	43	6.0	44	6.5	45	6.8	49	5.4	50	5.3	52	5.4	55	5.1	57	5.0	59	4.8	60	3.3	130
140	37	4.9	38	5.3	38	5.5	45	4.6	46	4.6	47	4.7	52	4.4	53	4.4	55	4.4	58	2.9	140
150	30	3.8	31	4.1	31	4.2	40	3.6	41	4.0	42	4.1	48	3.8	49	3.8	51	3.9	55	2.6	150
160	20	2.7	20	2.7	20	2.6	34	2.8	35	3.2	35	3.4	44	3.3	46	3.3	47	3.4	52	2.5	160
170							27	2.1	27	2.2	28	2.1	39	2.8	41	2.9	42	2.9	48	2.2	170
180													34	2.4	35	2.5	36	2.6	45	1.9	180
190													28	1.7	29	1.8	29	1.9	41	1.6	190
200																			37	1.3	200
Telescoping sequence %																					
Tel. 1	100						100														Tel. 1
Tel. 2	100						100														Tel. 2
Tel. 3	70						100														Tel. 3
Tel. 4	70						100														Tel. 4
Code	410	411	412	410	411	412	510	511	512	610	611	612	710	711	712	Code					

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 64,815 lbs

Lifting capacities in 1,000 lbs Per SAE J765

Load Radius (ft)	On outriggers, 360° working area Outrigger base 17.72 ft																				Load Radius (ft)						
	Boom length 41.01 ft–142.72 ft						Boom length 142.72 ft–160.76 ft						Boom length 41.01 ft–160.76 ft														
	Fly jib 31.17 ft offset				Fly jib 31.17 ft offset				Fly jib 53.15 ft offset				Fly jib 79.07 ft offset				Fly jib 98.75 ft offset										
	5°		15°		30°		5°		15°		30°		5°		15°		30°		5°			15°		30°			
	∠	°	∠	°	∠	°	∠	°	∠	°	∠	°	∠	°	∠	°	∠	°	∠	°		∠	°	∠	°		
35	79	22.1					80	16.5																	35		
40	78	21.9	79	15.8			79	16.5	80	14.4			81	12.1											40		
45	76	20.9	77	15.8		78	11.5	77	16.5	78	14.4	80	11.0	79	12.1	81	9.2								45		
50	75	19.9	76	15.5	77	11.5	76	16.5	77	14.4	79	11.0	78	12.1	80	9.2									50		
55	73	18.8	74	15.1	75	11.3	75	16.2	76	14.1	77	11.0	77	11.9	79	9.2	82	6.9							55		
60	71	17.7	73	14.6	74	11.1	74	15.4	75	13.5	76	11.0	76	11.5	78	9.2	81	6.8	78	6.5					60		
65	69	16.7	70	14.3	72	10.9	72	14.7	73	13.2	74	10.8	75	11.2	76	8.9	79	6.6	77	6.4	79	5.5		79	4.5	65	
70	68	15.6	69	13.6	71	10.7	71	13.6	72	12.6	73	10.6	74	10.8	75	8.6	78	6.5	76	6.0	78	5.2		78	4.5	70	
75	66	14.5	67	13.0	69	10.4	69	12.5	70	12.1	71	10.4	72	10.4	74	8.4	76	6.4	75	5.8	77	4.9		77	4.3	75	
80	64	13.3	65	12.5	67	10.0	68	11.5	69	11.1	70	10.2	71	9.9	73	8.0	75	6.3	74	5.5	76	4.6	80	3.6	76	4.0	80
85	62	11.5	63	11.9	65	9.7	66	10.6	67	10.3	68	9.9	69	9.3	71	7.7	73	6.1	72	5.4	75	4.5	78	3.5	74	3.6	85
90	61	9.9	62	10.6	63	9.5	64	9.8	66	9.6	67	9.3	68	8.7	70	7.5	72	6.0	71	4.9	74	4.2	77	3.4	73	3.4	90
95	59	8.4	60	9.2	61	9.1	62	9.1	64	8.9	65	8.7	67	8.1	68	7.2	70	5.8	70	4.6	72	4.0	76	3.3	72	3.2	95
100	56	7.2	57	7.9	59	8.4	61	7.9	62	8.2	63	8.1	66	7.6	67	6.8	69	5.6	69	4.5	71	3.8	75	3.2	71	3.1	100
110	52	5.0	53	5.8	55	6.2	57	5.7	58	6.2	59	6.7	62	6.7	63	6.4	65	5.4	66	4.0	68	3.5	71	2.9	68	2.6	110
120	47	3.3	48	3.9	50	4.3	53	4.0	54	4.3	55	4.8	58	5.6	60	5.8	62	5.2	63	3.5	65	3.2	69	2.7	66	2.4	120
130	43	1.9	44	2.3	45	2.5	49	2.5	50	2.7	52	3.1	55	4.0	57	4.5	59	4.8	60	3.3	63	2.9	66	2.5	64	2.0	130
140									46	1.4	47	1.7	52	2.7	53	3.2	55	3.8	58	2.9	60	2.7	63	2.4	61	1.9	140
150													48	1.6	49	2.0	51	2.5	55	2.5	57	2.5	60	2.2	59	1.5	150
160															47	1.4	52	1.6	54	2.1			56	2.1			160
170																							53	1.9			170
Telescoping sequence %																											
Tel. 1	100						100														Tel. 1						
Tel. 2	100						100														Tel. 2						
Tel. 3	70						100														Tel. 3						
Tel. 4	70						100														Tel. 4						
Code	410	411	412	410	411	412	510	511	512	610	611	612	710	711	712	Code											

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 44,312 lbs

Lifting capacities in 1,000 lbs Per SAE J765

Load Radius (ft)	On outriggers, 360° working area Outrigger base 26.25 ft																		Load Radius (ft)												
	Boom length 41.01 ft – 142.72 ft						Boom length 142.72 ft – 160.76 ft						Boom length 41.01 ft – 160.76 ft																		
	Fly jib 31.17 ft offset			Fly jib 31.17 ft offset			Fly jib 53.15 ft offset			Fly jib 79.07 ft offset			Fly jib 98.75 ft offset																		
	5°	15°	30°	5°	15°	30°	5°	15°	30°	5°	15°	30°	5°	15°	30°																
	∠	∠	∠	∠	∠	∠	∠	∠	∠	∠	∠	∠	∠	∠	∠																
35	79	22.1				80	16.5												35												
40	78	21.9	79	15.8			79	16.5	80	14.4			81	12.1						40											
45	76	20.9	77	15.8	78	11.5	77	16.5	78	14.4	80	11.0	79	12.1	81	9.2				45											
50	75	19.9	76	15.5	77	11.5	76	16.5	77	14.4	79	11.0	78	12.1	80	9.2				50											
55	73	18.8	74	15.1	75	11.3	75	16.2	76	14.1	77	11.0	77	11.9	79	9.2	82	6.9		55											
60	71	17.7	73	14.6	74	11.1	74	15.4	75	13.5	76	11.0	76	11.5	78	9.2	81	6.8	78	6.5	60										
65	69	16.7	70	14.3	72	10.9	72	14.7	73	13.2	74	10.8	75	11.2	76	8.9	79	6.6	77	6.4	79	5.5		79	4.5		65				
70	68	15.6	69	13.6	71	10.7	71	13.8	72	12.6	73	10.6	74	10.8	75	8.6	78	6.5	76	6.0	78	5.2			78	4.5		70			
75	66	14.5	67	13.0	69	10.4	69	12.5	70	12.1	71	10.4	72	10.4	74	8.4	76	6.4	75	5.8	77	4.9			77	4.3		75			
80	64	13.6	65	12.5	67	10.0	68	11.5	69	11.1	70	10.2	71	9.9	73	8.0	75	6.3	74	5.5	76	4.6	80	3.6	76	4.0	79	3.4		80	
85	62	12.8	63	11.9	65	9.7	66	10.6	67	10.3	68	9.9	69	9.3	71	7.7	73	6.1	72	5.4	75	4.5	78	3.5	74	3.6	77	3.1		85	
90	61	12.0	62	11.4	63	9.5	64	9.8	66	9.6	67	9.3	68	8.7	70	7.5	72	6.0	71	4.9	74	4.2	77	3.4	73	3.4	76	3.0		90	
95	59	11.3	60	10.7	61	9.3	62	9.1	64	8.9	65	8.7	67	8.1	68	7.2	70	5.8	70	4.6	72	4.0	76	3.3	72	3.2	75	2.8		95	
100	56	10.5	57	10.2	59	9.0	61	8.4	62	8.2	63	8.1	66	7.6	67	6.8	69	5.6	69	4.5	71	3.8	75	3.2	71	3.1	74	2.7	78	2.3	100
110	52	8.7	53	9.2	55	8.5	57	7.2	58	7.1	59	7.0	62	6.7	63	6.4	65	5.4	66	4.0	68	3.5	71	2.9	68	2.6	71	2.4	75	2.1	110
120	47	7.3	48	7.7	50	8.1	53	6.2	54	6.2	55	6.1	58	5.9	60	5.8	62	5.2	63	3.5	65	3.2	69	2.7	66	2.4	69	2.2	73	2.0	120
130	43	5.6	44	5.9	45	6.2	49	5.4	50	5.3	52	5.4	55	5.1	57	5.0	59	4.8	60	3.3	63	2.9	66	2.5	64	2.0	66	1.9	70	1.8	130
140	37	4.1	38	4.3	38	4.5	45	4.6	46	4.6	47	4.7	52	4.4	53	4.4	55	4.4	58	2.9	60	2.7	63	2.4	61	1.9	64	1.7	68	1.6	140
150	30	2.8	31	2.9	31	3.0	40	3.3	41	3.5	42	3.7	48	3.8	49	3.8	51	3.9	55	2.6	57	2.5	60	2.2	59	1.5	61	1.5	66	1.5	150
160	20	1.7	20	1.7	20	1.6	34	2.2	35	2.3	35	2.4	44	3.3	46	3.3	47	3.4	52	2.5	54	2.3	56	2.1							160
170													39	2.6	41	2.9	42	2.9	48	2.2	50	2.1	53	1.9							170
180													34	1.6	35	1.9	36	2.1	45	1.9	47	2.0	49	1.7							180
190																			41	1.6	43	1.6	44	1.6							190
200																					39	1.3	40	1.4							200
Telescoping sequence %																															
Tel. 1	100						100						100						Tel. 1												
Tel. 2	100						100						100						Tel. 2												
Tel. 3	70						100						100						Tel. 3												
Tel. 4	70						100						100						Tel. 4												
Code	420	421	422	420	421	422	520	521	522	620	621	622	720	721	722	Code															

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 44,312 lbs

Lifting capacities in 1,000 lbs Per SAE J765

Working Radius (ft)	On outriggers, 360° working area Outrigger base 17.72 ft																				Working Radius (ft)										
	Boom length 41.01 ft – 142.72 ft						Boom length 142.72 ft – 160.76 ft						Boom length 41.01 ft – 160.76 ft																		
	Fly jib 31.17 ft offset			Fly jib 31.17 ft offset			Fly jib 53.15 ft offset			Fly jib 79.07 ft offset			Fly jib 98.75 ft offset																		
	5°	15°	30°	5°	15°	30°	5°	15°	30°	5°	15°	30°	5°	15°	30°																
35	79	22.1					80	16.5													35										
40	78	21.9	79	15.8			79	16.5	80	14.4			81	12.1							40										
45	76	20.9	77	15.8	78	11.5	77	16.5	78	14.4	80	11.0	79	12.1	81	9.2					45										
50	75	19.9	76	15.5	77	11.5	76	16.5	77	14.4	79	11.0	78	12.1	80	9.2					50										
55	73	18.8	74	15.1	75	11.3	75	16.2	76	14.1	77	11.0	77	11.9	79	9.2	82	6.9			55										
60	71	17.5	73	14.6	74	11.1	74	15.4	75	13.5	76	11.0	76	11.5	78	9.2	81	6.8	78	6.5	60										
65	69	15.0	70	14.3	72	10.9	72	14.7	73	13.2	74	10.8	75	11.2	76	8.9	79	6.6	77	6.4	79	4.5	65								
70	68	12.6	69	13.0	71	10.7	71	13.0	72	12.6	73	10.6	74	10.8	75	8.6	78	6.5	76	6.0	78	5.2	70								
75	66	10.5	67	11.4	69	10.4	69	11.2	70	11.6	71	10.4	72	10.4	74	8.4	76	6.4	75	5.8	77	4.9	75								
80	64	8.8	65	9.6	67	9.9	68	9.4	69	10.1	70	10.2	71	9.9	73	8.0	75	6.3	74	5.5	76	4.6	80								
85	62	7.2	63	8.1	65	8.8	66	7.9	67	8.6	68	9.3	69	9.3	71	7.7	73	6.1	72	5.4	75	4.5	85								
90	61	5.9	62	6.8	63	7.4	64	6.6	66	7.2	67	8.0	68	8.2	70	7.5	72	6.0	71	4.9	74	4.2	90								
95	59	4.7	60	5.5	61	6.2	62	5.4	64	6.0	65	6.7	67	7.1	68	7.2	70	5.8	70	4.6	72	4.0	95								
100	56	3.7	57	4.4	59	4.9	61	4.3	62	4.8	63	5.5	66	6.0	67	6.8	69	5.6	69	4.5	71	3.8	100								
110	52	1.9	53	2.4	55	2.8	57	2.5	58	2.9	59	3.5	62	4.1	63	4.8	65	5.4	66	4.0	68	3.5	110								
120					50	1.3			54	1.4	55	1.8	58	2.5	60	3.2	62	4.0	63	3.5	65	3.2	69	2.7	66	2.4	69	2.2	73	2.0	120
130															57	1.8	59	2.5	60	2.2	63	2.9	66	2.5	64	2.0	66	1.9	70	1.8	130
140																	55	1.3	58	1.2	60	1.9	63	2.4	61	1.2	64	1.7	68	1.6	140
150																							60	1.7							150
Telescoping sequence %																															
Tel. 1	100						100														Tel. 1										
Tel. 2	100						100														Tel. 2										
Tel. 3	70						100														Tel. 3										
Tel. 4	70						100														Tel. 4										
Code	423	424	425	423	424	425	523	524	525	623	624	625	723	724	725	Code															

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 20,062 lbs

Lifting capacities in 1,000 lbs Per SAE J765

	On outriggers, 360° working area Outrigger base 26.25 ft																		
Load Radius (ft)	Boom length 41.01 ft–142.72 ft						Boom length 142.72 ft–160.76 ft						Boom length 41.01 ft–160.76 ft						Load Radius (ft)
	Fly jib 31.17 ft offset			Fly jib 31.17 ft offset			Fly jib 53.15 ft offset			Fly jib 79.07 ft offset			Fly jib 98.75 ft offset						
	5°	15°	30°	5°	15°	30°	5°	15°	30°	5°	15°	30°	5°	15°	30°				
	∠	∠	∠	∠	∠	∠	∠	∠	∠	∠	∠	∠	∠	∠	∠				
35	79	22.1					80	16.5											35
40	78	21.9	79	15.8			79	16.5	80	14.4			81	12.1					40
45	76	20.9	77	15.8	78	11.5	77	16.5	78	14.4	80	11.0	79	12.1	81	9.2			45
50	75	19.9	76	15.5	77	11.5	76	16.5	77	14.4	79	11.0	78	12.1	80	9.2			50
55	73	18.8	74	15.1	75	11.3	75	16.2	76	14.1	77	11.0	77	11.9	79	9.2	82	6.9	55
60	71	17.7	73	14.6	74	11.1	74	15.4	75	13.5	76	11.0	76	11.5	78	9.2	81	6.8	60
65	69	16.7	70	14.3	72	10.9	72	14.7	73	13.2	74	10.8	75	11.2	76	8.9	79	6.6	65
70	68	15.6	69	13.6	71	10.7	71	13.8	72	12.6	73	10.6	74	10.8	75	8.6	78	6.5	70
75	66	14.5	67	13.0	69	10.4	69	12.5	70	12.1	71	10.4	72	10.4	74	8.4	76	6.4	75
80	64	12.4	65	12.5	67	10.0	68	11.5	69	11.1	70	10.2	71	9.9	73	8.0	75	6.3	80
85	62	10.5	63	11.1	65	9.7	66	10.6	67	10.3	68	9.9	69	9.3	71	7.7	73	6.1	85
90	61	8.9	62	9.5	63	9.5	64	9.4	66	9.6	67	9.3	68	8.7	70	7.5	72	6.0	90
95	59	7.4	60	8.0	61	8.6	62	8.0	64	8.6	65	8.7	67	8.1	68	7.2	70	5.8	95
100	56	6.2	57	6.7	59	7.3	61	6.8	62	7.3	63	8.0	66	7.6	67	6.8	69	5.6	100
110	52	4.1	53	4.5	55	5.0	57	4.6	58	5.1	59	5.6	62	6.4	63	6.4	65	5.4	110
120	47	2.4	48	2.7	50	3.1	53	2.9	54	3.3	55	3.8	58	4.5	60	5.2	62	5.2	120
130									50	1.8	52	2.2	55	3.0	57	3.6	59	4.3	130
140													52	1.8	53	2.3	55	2.8	140
150															51	1.7	55	1.6	150
160																	54	1.3	160
Telescoping sequence %																			
Tel. 1	100						100						100						Tel. 1
Tel. 2	100						100						100						Tel. 2
Tel. 3	70						100						100						Tel. 3
Tel. 4	70						100						100						Tel. 4
Code	430	431	432	430	431	432	530	531	532	630	631	632	730	731	732	Code			

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 20,062 lbs

Lifting capacities in 1,000 lbs Per SAE J765

Load Radius (ft)	On outriggers, 360° working area Outrigger base 17.72 ft																		Load Radius (ft)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
	Boom length 41.01 ft – 142.72 ft						Boom length 142.72 ft – 160.76 ft						Boom length 41.01 ft – 160.76 ft																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
	Fly jib 31.17 ft offset			Fly jib 31.17 ft offset			Fly jib 31.17 ft offset			Fly jib 53.15 ft offset			Fly jib 79.07 ft offset			Fly jib 98.75 ft offset																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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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 8,818 lbs

Lifting capacities in 1,000 lbs Per SAE J765

Load Radius (ft)	On outriggers, 360° working area Outrigger base 26.25 ft																								Load Radius (ft)			
	Boom length 41.01 ft – 142.72 ft						Boom length 142.72 ft – 160.76 ft						Boom length 41.01 ft – 160.76 ft															
	Fly jib 31.17 ft offset						Fly jib 31.17 ft offset						Fly jib 53.15 ft offset				Fly jib 79.07 ft offset				Fly jib 98.75 ft offset							
	5°		15°		30°		5°		15°		30°		5°		15°		30°		5°		15°		30°					
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35	79	22.1					80	16.5																		35		
40	78	21.9	79	15.8			79	16.5	80	14.4			81	12.1												40		
45	76	20.9	77	15.8	78	11.5	77	16.5	78	14.4	80	11.0	79	12.1	81	9.2										45		
50	75	19.9	76	15.5	77	11.5	76	16.5	77	14.4	79	11.0	78	12.1	80	9.2										50		
55	73	18.8	74	15.1	75	11.3	75	16.2	76	14.1	77	11.0	77	11.9	79	9.2	82	6.9								55		
60	71	17.7	73	14.6	74	11.1	74	15.4	75	13.5	76	11.0	76	11.5	78	9.2	81	6.8	78	6.5						60		
65	69	15.2	70	14.3	72	10.9	72	14.7	73	13.2	74	10.8	75	11.2	76	8.9	79	6.6	77	6.4	79	5.5		79	4.5	65		
70	68	12.5	69	13.3	71	10.7	71	13.0	72	12.6	73	10.6	74	10.8	75	8.6	78	6.5	76	6.0	78	5.2		78	4.5	70		
75	66	10.2	67	11.0	69	10.4	69	10.8	70	11.7	71	10.4	72	10.4	74	8.4	76	6.4	75	5.8	77	4.9		77	4.3	75		
80	64	8.3	65	9.2	67	10.0	68	9.0	69	9.8	70	10.2	71	9.9	73	8.0	75	6.3	74	5.5	76	4.6	80	3.6	76	4.0	80	
85	62	6.7	63	7.5	65	8.4	66	7.4	67	8.1	68	9.0	69	9.2	71	7.7	73	6.1	72	5.4	75	4.5	78	3.5	74	3.6	85	
90	61	5.4	62	6.0	63	6.8	64	6.0	66	6.7	67	7.6	68	7.9	70	7.5	72	6.0	71	4.9	74	4.2	77	3.4	73	3.4	90	
95	59	4.2	60	4.8	61	5.5	62	4.8	64	5.4	65	6.3	67	6.7	68	7.2	70	5.8	70	4.6	72	4.0	76	3.3	72	3.2	95	
100	56	3.1	57	3.7	59	4.3	61	3.7	62	4.3	63	5.1	66	5.6	67	6.4	69	5.6	69	4.5	71	3.8	75	3.2	71	3.1	100	
110	52	1.3	53	1.8	55	2.3	57	1.9	58	2.4	59	3.0	62	3.6	63	4.4	65	5.3	66	4.0	68	3.5	71	2.9	68	2.6	110	
120											55	1.2	58	2.1	60	2.7	62	3.6	63	3.2	65	3.2	69	2.7	66	2.4	120	
130														57	1.4	59	2.1	60	1.8	63	2.7	66	2.5	64	2.0	66	1.9	130
140																				60	1.4	63	2.3	61	1.3	64	1.7	140
150																										66	1.5	150
Telescoping sequence %																												
Tel. 1	100						100																			Tel. 1		
Tel. 2	100						100																			Tel. 2		
Tel. 3	70						100																			Tel. 3		
Tel. 4	70						100																			Tel. 4		
Code	440	441	442				440	441	442	540	541	542	640	641	642	740	741	742								Code		

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 INSTRUCTIONS FOR LIFTING CAPACITIES ATF-1500XL

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. Working on tires and traveling with load is not allowed.
4. The weight of the auxiliary winch with 2,425 lbs is taken into account as a part of counterweight. Therefore the auxiliary winch must be attached always at the superstructure for crane operation.

OPERATION

1. Total rated loads with outriggers fully extended do not exceed 85% of the tipping loads as determined by SAE Crane Stability Test Code J-765. Total rated loads with outriggers half extended do not exceed 75% of the tipping loads as determined by SAE Crane Stability Test Code J-765.
2. 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.
3. Total rated loads include the weight of the 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.

Hook ball / Hook block (ton)	8.8	27.5		69.5				88			150		
No. of parts of line	1	2	3	4	5	6	7	8	9	10	12	15	18
Max. lifting capacity (ton)	8.8	18.7	27.5	37.5	46.3	55.5	64.0	72.8	80.8	88.0	105.4	127.3	150.0
Weight (lbs)	440	660		1,370				1,765			3,310/5,510		

4. 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.
5. 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 18 mph (26 ft/sec.) for main boom operation and above 11 mph (16 ft/sec.) for jib operation.

6. Total rated loads at load radius shall not be exceeded. Do not tip the crane to determine allowable loads.
7. 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.
8. Slewing of the superstructure is admissible only when the crane is supported on half or fully extended outriggers.
9. 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 (3,650 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								
Position of the fly jib	Boom length (ft)							
	41.01	71.03	71.03	100.88	100.88	130.90	130.90	160.76
Load rating reduction (ton)								
31.17 ft/53.15 ft fly jib, mounted in transport position	0.66	0.29	0.29	0.19	0.19	0.14	0.14	0.12
31.17 ft fly jib, mounted to the boom head	2.59	2.12	1.94	1.84	1.80	1.73	1.70	1.68
53.15 ft fly jib, mounted to the boom head	3.20	2.59	2.24	2.07	2.02	1.89	1.85	1.78
79.09 ft fly jib, mounted to the boom head	5.18	3.77	3.23	2.94	2.87	2.63	2.63	2.44
98.75 ft fly jib, mounted to the boom head	7.06	4.99	4.30	3.78	3.67	3.33	3.33	3.11
Telescoping sequence %								
Telescope 1	0	50	25	100	50	100	75	100
Telescope 2	0	50	25	100	50	100	75	100
Telescope 3	0	0	25	0	50	50	75	100
Telescope 4	0	0	25	0	50	50	75	100

10. When making lifts at a load radius not shown, use the next longer radius to determine allowable capacity.
11. Load per part line should not exceed 18,650 lbs for the main winch and for the auxiliary winch.
12. Loaded boom angles are approximate. The boom angle before loading should be greater to account for deflection.
13. The 41.01' boom length capacities are based on the telescopic boom being fully retracted. If not fully retracted (less than 71.03' boom length), use the total rated loads for the 71.03' boom length according to the 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.
Before working with the telescopic boom or extendible fly jib, make sure that the S.L.I. code is set according to the desired telescoping sequence while the telescopic boom is completely retracted. A change of the telescoping sequence is not permissible when the boom has been partially or fully extended. In order to change the S.L.I. code number, the boom must be fully retracted.
20. Safe Load Indicator Program for Rigging Counterweight
After setting the S.L.I. code 150, the S.L.I. rigging program is activated for lifting the counterweight parts from a trailer and from the ground. This rigging program is based on half extended outriggers (= 17.72 ft), on a minimum counterweight of 3,520 lbs and up to a maximum boom length of 71.03 ft with extendible fly jib fixed in transport position and up to a maximum working radius of 32 ft. Therefore all parts of counterweight can be lifted by the crane on itself and placed on the carrier for rigging the counterweight.
21. Working with Single Top
Operation with the single top is allowed with the main winch and the auxiliary winch (2nd winch). 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 the single top mounted, use the TADANO LOAD RATING CHART 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 ($\text{total rated lifting capacity} - <1,100 \text{ lbs}>$) is the total rated lifting capacity for a single top lift.

DEFINITIONS

1. Load 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.

LOAD MOMENT DEVICE (PAT 350DS)

The Load Moment Device (PAT 350DS) is intended as an aid to the operator. Under no condition should it be relied upon to replace use of Load Rating Charts and Operating Instructions. Sole reliance upon the Load Moment Device Aids in place of good operating practice can cause an accident. The operator must exercise caution to assure safety.

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