

ACCESS WALKWAYS



AUGER KIT AND POLE CLAW



LIGHT BAR AND TOOL CIRCUIT

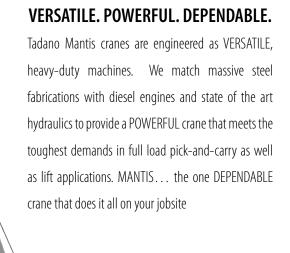


WORK PLATFORM





MANTIS CRANES



FEATURES

NO OTHER CRANE COMBINES SO MANY VALUABLE FEATURES:

- Pick-and-carry the full crane load chart through 360°.
- Lift and walk...even with tracks retracted.
- Climb steeper grades, thanks to minimized counterweight and low center of gravity.
- Pull through deep mud without bogging down.
- Telescope or lift the boom with a full load on the hook.
- Save time and money on the job due to low clearance height, retract on-the-fly tracks and telescopic boom.
- Independent hydrostatic track drives allow pivot turns and counter rotation
- Hydraulic tool circuit option powers wide choice of Mantis-approved tools.



The LP cab has similar controls and comfort features to the standard Tadano Mantis Cab.



State-of-the-art, user friendly rated capacity limiter provides continuous feedback of crane lift and position data.



Large access doors, spacious machinery compartments simplify preventative maintenance and service of the crane.

SPECIFICATIONS

MAXIMUM LIFTING CAPACITY

30 ton @ 10 feet (27t @ 3.0m)

BOOM

3-section full power synchronized telescoping boom. Synchronized telescoping system consists of one double acting hydraulic cylinders with load holding valve and extension and retraction cables.

- Retracted Length: 32 ft 8 in (9.96m) Extended Length: 80 ft (24.38m)
- Extension Time: 70 s
- Elevating Angles: -1° to 78°
- Elevating Time: 41 s
- Boom Head: 6 15 in (381mm) diameter cast nylon sheaves on heavy-duty roller bearings. (4 load bearing and 2 lead in sheaves)
- Auxiliary Boom Head: Quick reeve, single 15 in (381mm) diameter high-strength, cast nylon sheave mounted on a heavy-duty roller bearing.
- Hook Block: 30 ton (27t) hook block Three 16 in (406mm) diameter sheaves mounted on heavy duty roller bearings with swivel hook and safety latch.
- Headache Ball: 7 ton (6.3t) ball includes a swivel hook with a safety latch.

WINCHES

Planetary geared two-speed winch includes a bent axis hydraulic motor, multi-disc internal brake and counterbalance valve. Drum rotation indicator is included

- Main Winch
 - Rope Diameter and Length: 9/16 in (14mm) x 600 ft (183m)
 - Single line pull: 11,000 lb (48.9 kN) (first layer)
 - Single line speed: 229 ft/min (69.8 m/min) (at the 4th layer)
- Auxiliary Winch
 - Rope Diameter and Length: 9/16 in (14 mm) x 300 ft (91m)
 - Single line pull: 12,000 lb (53.4 kN) (first layer)
 - Single line speed: 214 ft/min (65.2 m/min) (at the 4th layer)

TRAVEL

Each side frame contains a pilot controlled, two-speed track drive with hydraulic axial piston motor and parking brake. Travel system provides skid steering and counter rotation.

• Low travel speed: 1.6 mph (2.6 km/h) • High travel speed: 2.6 mph (4.2 km/h)

• Gradeability (unladen): 53%

LOAD MOMENT INDICATOR & ANTI-TWO BLOCK

Standard Rated Capacity Limiter and Anti-Two Block system

- Control function shutdown. Audible and visual warnings
- LCD screen provides a continuous display of working boom length, boom angle, working load radius, tip height, parts-of-line (operator set), machine track configuration, relative load moment, maximum permissible load and actual load.

OPERATOR'S CAB

Fully-enclosed, all-steel modular cab with lockable sliding door, anti-slip floor and tinted safety glass.

- Air conditioned and heated cab
- 2-speed windshield wiper, top glass wiper
- Six-way adjustable fabric seat with headrest, seat belt
- Seat and armrest termination switches immediately disable all hydraulic functions as the operator rises from the seat or lifts the left hand armrest.

Dash instrumentation: tachometer, voltmeter, oil pressure gauge, temperature gauge, hour meter and fuel gauge. Indicators are provided for crane level, load moment, drum rotation, air filter restriction, hydraulic oil temperature and filter restriction, engine oil pressure and temperature.

ENGINE

- Make/ Model: Cummins OSB6.7
- Rating: 173 hp (129 kW) @ 2200 RPM
- Alternator: 100 amp

ELECTRICAL SYSTEM

12 VDC

COUNTERWEIGHT

11,500 lb (5,220 kg) rear counterweight

SWING

Gear motor driving a planetary gear reducer with a shaft mounted pinion, external gear shear ball slew bearing bolted to the superstructure and the carbody allows the superstructure to rotate 360°

- Swing Speed: 0 2.2 rpm
- Swing Parking Brake: Spring applied failsafe brake with hydraulic release that is controlled from the operators cab
- Swing Service Brake: Hydraulically applied, controlled through foot actuated pedal
- House Lock System: 2-position, manually pinned

HYDRAULIC SYSTEM

- Hydraulic Pumps: Two high pressure, variable axial piston pumps with load sense and power limiting control for crane functions. One pump for cooling loop
- Directional Valves: Multiple pressure and flow compensated valves with integrated relief valves controlled by hydraulic pilot signals.
- Pump output: 115 gal/min (437 l/min) @ 2100 RPM engine speed.
- 4,800 psi (330 bar) maximum pressure
- Filtration: 5 micron.

SIDE FRAMES

Two welded steel side frames are paired with a track group. The side frames extend and retract hydraulically and are controlled from the cab.

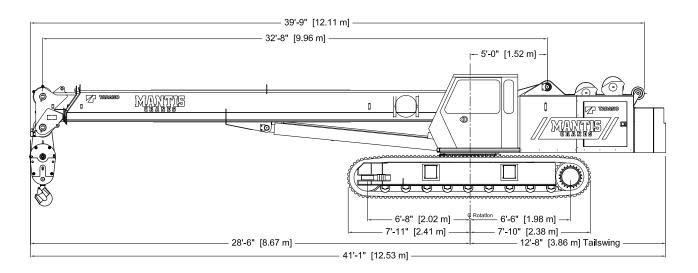
- Track Rollers: Nine bottom sealed rollers on each track frame Idler: Oil filled, self lubricating with spring type tensioner
- Track Shoes: 30 in (760mm), 3-bar semi grouser

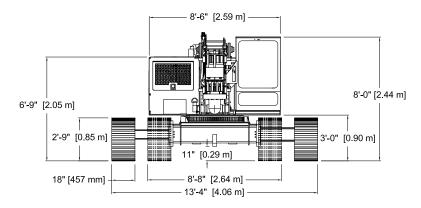
OPTIONAL EQUIPMENT

- Boom Extension: Lattice type, swing away
 - Length: 20 ft (6.1m)
 - Head: Two, 19 in (483 mm) diameter cast nylon sheaves on heavy-duty roller bearings
 - Max. Lifting Height: 97 ft (29.6 m)
- Boom Jib: Lattice type, swing away, stores along boom extension
 - Length: 20 ft (6.1m)
 - Offset Angles: 15° & 30°
 - Max. Lifting Height: 119 ft (36.3m)
- Auger Ready Package: Includes hoses, fasteners and stowage bracket assembly mounted to the base section of the boom with a flow capability of 34 gal/min (130 l/min)
- Complete Auger Package: Adds a two speed auger motor/gear box and one 60 in (1.5m) kelly bar to the Auger Ready Package.
- Model WP-750 Work Platform: 36 in x 72 in (0.91m x 1.82m), all steel 2-person platform
- Tool Circuit: Provides 5 gal/min (19 l/min) and 10 gal/min (37.9 l/min)at 2,250 psi (159 bar) through a 50 ft (15.25m) twin hose reel with quick disconnect fittings to operate open center tools.
- \bullet Free Fall Hoists: All winches are available in controlled free fall configurations.
- Pole Claw Heavy duty pole claw with hydraulic close and tilt. Also includes boom tool circuit
 Provides 5 gal/min (19 l/min) and 10 gal/min (37.9 l/min)at 2,250 psi (159 bar)through a twin
 hose reel with quick disconnect fittings to operate open center tools at the boom tip.
- Radio Remote Packages
- Access Walkways
- Light Ba
- Track shoes: 18 in (460 mm) & 24 in (610 mm)

DIMENSIONS

6010LP 30 Ton Tele-Boom Crawler Crane



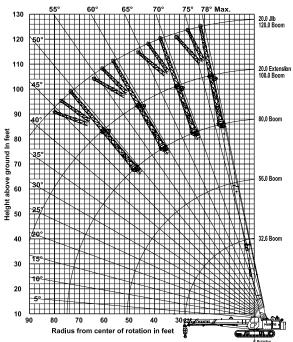


80 FT MAIN BOOM, 20 FT EXTENSION $\&\,20$ FT JIB

WIDTHS, WEIGHTS, AND GROUND PRESSURES* Overall Width Retracted Extended 8ft 6 in 13ft 6 in 5760 in 2 10 5 nsi 60 505 lb

Width	Retracted	Extended	Area	Pressure	Weight	
18 in	8 ft 6 in	13 ft 6 in	5,760 in ²	10.5 psi	60,505 lb	
(457 mm)	(2.59 m)	(4.11 m)	(3.72 m ²)	(0.74 kg/cm²)	(27,445 kg)	
24 in	9 ft 8 in	14 ft 0 in	7,680 in ²	8.0 psi	61,665 lb	
(609 mm)	(2.95 m)	(4.27 m)	(4.95 m ²)	(0.56 kg/cm²)	(27,971 kg)	
30 in	10 ft 2 in	14 ft 6 in	9,600 in ²	6.5 psi	62,820 lb	
(762 mm)	(3.10 m)	(4.42 m)	(6.19 m ²)	(0.46 kg/cm²)	(28,495 kg)	

^{*} Crane equipped with: 80 ft boom, extension, jib, 30 ton hook block, and 7 ton headache ball



TADANO MANTIS CORPORATION

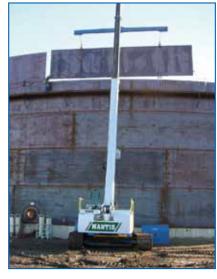
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JIB & EXTENSION





TANK BUILDER



TANK BUILDER



LOW AND NARROW



EASY HAULER



6010LP

30 Ton Telescopic Boom Crawler Crane

SPECIFICATION SHEET NO. 483-03/11

GENERAL DATA

	1			
CRANE CAPACITY	30 ton at 10 feet			
	(27t at 3.0m)			
	` '			
BOOM	3-section,			
	32'8" - 80'0"			
	(9.9 m – 24.4 m)			
DIMENSION				
Overall Length	41′1″ (12.52 m)			
Overall Width (tracks extended)	13′6″ (4.12 m			
Overall Width (tracks retracted)	8'6" (3.10 m)			
Overall Height	8′0″ (2.44 m)			
MASS				
Gross Vehicle Mass	60,025 LB			
(Standard Equipment Package)	(27,277 kg)			
PERFORMANCE				
Travel Speed	1.6 mph – 2.6 mph			
	(2.6 km/h – 4.2 km/h)			
Gradability	53%			

CRANE SPECIFICATION

MODEL

6010

CAPACITY

30 ton at 10 feet (27t at 3.0m)

BOOM

3-section full power synchronized telescoping boom. Synchronized telescoping system consists of double acting hydraulic cylinder with load holding valves and extension and retraction cables.

- Retracted Length: 32' 8" (9.9 m)
- Extended Length: 80' 0" (24.4 m) Extension Time: 70 s
- Elevating Angles: -1° to 78°
- Elevating Time: 41 s
- Boom Head: Five, 15 inch (381 mm) diameter cast nylon sheaves on heavy-duty roller bearings. (3 load bearing and 2 lead in sheaves)

AUXILIARY BOOM HEAD

Quick reeve, single 15 inch (381 mm) diameter high-strength, cast nylon sheave mounted on a heavy-duty roller bearing.

- Hook Block: 30 ton (27 t) hook block three 16 inch (406 mm) diameter sheaves mounted on heavy duty roller bearings with swivel hook and safety latch.
- Headache Ball: 7 ton (6.3t) ball includes a swivel hook with a safety latch

COUNTERWEIGHT

11,500 LB (5,220 kg) single piece counterweight can be removed and installed via a pendant attached to the boom

WINCHES

Planetary geared single-speed winch includes a bent axis hydraulic motor, multi-disc internal brake and counterbalance valve. Drum rotation indicator is included (complete winch performance specs on Page 4)

- · Main Winch
- Rope Diameter and Length: 9/16" x 600 ft (14mm x 183m)
- Single line pull: 11,000 lb (49.9 kN)(first layer)
- Single line speed: 229 ft/min (69.8 m/min)(4th layer)
- Auxiliary Winch
- Rope Diameter and Length: 9/16" x 300 ft (14mm x 91m)
- Single line pull: 12,000 lb (53.4 kN) (first layer)
- Single line speed: 214 ft/min (65.2 m/min) (at the 4th layer)

TRAVEL

Each side frame contains a pilot controlled, two-speed track drive with hydraulic axial piston motor and parking brake. Travel system provides skid steering and counter rotation.

Low travel speed: 1.6 mph (2.6km/h)
High travel speed: 2.6 mph (4.2 km/h)

• Gradeability (unladen): 53%

SWING

Gear motor driving a planetary gear reducer with a shaft mounted pinion, external gear shear ball slew bearing bolted to the superstructure and the carbody allows the superstructure to rotate 360°

- Swing Speed: 0 2.2 rpm
- Swing Parking Brake: Spring applied failsafe brake with hydraulic release that is controlled from the operators cab
- Swing Service Brake: Hydraulically applied, controlled through foot actuated pedal
- · House Lock System: 2-position, manually pinned

LOAD MOMENT INDICATOR

Standard Rated Capacity Limiter and Anti-Two Block system

- Control function shutdown. Audible and visual warnings
- LCD screen provides a continuous display of working boom length, boom angle, working load radius, tip height, parts-of-line (operator set), machine track configuration, relative load moment, maximum permissible load and actual load.
- Anti-two block weight allows quick reeving of hook block

FRAME

The frame is an all-steel, welded structure, precision machined to accept attachment of the boom and swing components.



OPERATORS CAB

Fully-enclosed, air conditioned all-steel modular cab with lockable swinging door, acoustical lining, anti-slip floor and tinted safety glass.

- Vent window in the rear of the cab.
- Grab bars and steps are located for easy access to the cab.
- · Defroster, heater, circulating fan
- 2-speed windshield wiper, top glass wiper
- Six-way adjustable fabric seat with headrest, seat belt
- Dome light
- Dry-chemical fire extinguisher
- Two-way armrest mounted hydraulic joysticks control swing, boom extend, main winch, and boom hoist. Hydraulic foot pedals control the travel and swing service brake functions.
- Seat and armrest termination switches immediately disable all hydraulic functions as the operator rises from the seat or lifts the left hand armrest.

Dash instrumentation: tachometer, voltmeter, oil pressure gauge, temperature gauge, hour meter and fuel gauge. Indicators are provided for crane level, load moment, drum rotation, air filter restriction, hydraulic oil temperature and filter restriction, engine oil pressure and temperature.

ENGINE

- Make/ Model: Cummins QSB 6.7
- Type: 6 Cylinder, Water cooled, 4 Cycle
- · Aspiration: Turbocharged and Charge Air Cooled
- Max.Output: 173 hp (129 kw) @ 2200 RPM
- Max Torque:589 Lb-ft (799 Nm) @ 1400 RPM
- Piston Disp: 6.7 liter
- Emission Cert: U.S. EPA Tier 3, Euromot Stage IIIA
- Alternator: 100 amp

ELECTRICAL SYSTEM

12 VDC

FUEL SYSTEM

- Capacity: 80 gallon (378 liter)
- Filtration: Inline fuel/water separator and engine mounted fuel filter

SIDE FRAMES

Two welded steel side frames are paired with a track group. The side frames extend and retract hydraulically and are controlled from the cab.

- Track Rollers: Nine bottom sealed rollers on each track frame
- · Idler: Oil filled, self lubricating with spring type tensioner
- Track Shoes: 18 inch (457 mm), 3-bar semi grouser

HYDRAULIC SYSTEM

- Hydraulic Pumps: Two high pressure, variable axial piston pumps with load sense and power limiting control for crane functions. One hydraulic pump for cooling loop
- Directional Valves: Multiple pressure and flow compensated valves with integrated relief valves controlled by hydraulic pilot signals.
- Pump output: 110 gpm (416 l/min) @ 2100 RPM engine speed. 4,800 psi (330 bar) maximum pressure
- Reservoir: 150 gallon (568 liter) capacity, spin-on filler/ breather, sight gauge, cleanout, and sump drain.
- Filtration: 5 micron, full flow tank mounted return filters with electrical clogging indicator. 5 micron pilot oil in-line pressure filter
- Diagnostic Ports: Provided for system, load sense, and pilot pressure

OPTIONAL EQUIPMENT

- Boom Extension: Lattice type, swing away
- Length: 20 feet (6.1m)
- Head: Two, 19-inch (483 mm) diameter cast nylon sheaves on heavy-duty roller bearings
- Max. Lifting Height: 97 ft (29.5 m)
- Boom Jib: Lattice type, swing away, stores along boom extension
 - Length: 20 feet (6.1m)
 - Offset Angles: 15° & 30°
 - Max. Lifting Height: 119 feet (36.3 m)
- Track Shoes: 24 inch (610 mm) 3-bar semi grouser
- Track Shoes: 30 inch (762 mm) 3-bar semi grouser
- Auger Ready Package: Includes hoses, fasteners and stowage bracket assembly mounted to the base section of the boom with a flow capability of 34 gpm (130 l/min)
- Complete Auger Package: Adds a two speed auger motor/gear box and one 60 inch (1.52 m) kelly bar to the Auger Ready Package.
- Tool Circuit: Provides 5 gpm (23 l/min) and 10 gpm (45 l/min) at 2,500 PSI (176 bar) through a 50 foot (15.2m) twin hose reel with quick disconnect fittings to operate open center tools.
- Free Fall Hoists: All winches are available in controlled free fall configurations.
- Cold Weather Packages: Cold weather options are available for operation to -40°C (Consult factory for application support)
- Work Platform: Model WP750 36 in x 72 in (0.9m x 1.8m), all steel, welded, two person platform with maximum capacity of 750 lbs (340 kg).
- Pole Claw: Heavy-duty pole claw with hydraulic clamp and tilt.
- Access walkways
- · Radio control package.
- Rotation resistant wire rope.



MAIN HOIST

Planetary geared single-speed winch includes a bent axis, variable displacement hydraulic motor and a multi-disc internal brake. Wire Rope: 600 ft (183 m) 9/16 in (14 mm) 6 x 37 EIPS, IWRC, RRL. Line pulls are not based on wire rope strength. Drum rotation indicator is standard

Rope Layer	Maximum	Line Pull	Line Pull Full Load Line		ne Speed Pitch Diameter		La	yer	Total		
•	11,000 lk 4,990 kç 10,000 lk 4,540 kç		198 ft/mir	60.4 m/mir	11.2 ir	284.3 mn	70 ft	21.4 n	70 ft	21.4 n	
Ź			212 ft/mir	64.6 m/mir	12.2 ir	309.1 mn	76 ft	23.3 n	147 ft	44.7 n	
3	9,100 lk	4,130 kç	221 ft/mir	67.4 m/mir	13.1 ir	333.9 mn	83 ft	25.2 m	229 ft	69.9 n	
4	8,400 lk 3,810 kç 7,800 lk 3,540 kg 7,300 lk 3,310 kç		229 ft/min	69.8 m/mir	14.1 ir	358.8 mm	89 ft	27.1 n	318 ft	97.0 n	
Ę			244 ft/mir	74.4 m/mir	15.1 ir	383.6 mn	95 ft	28.9 n	413 ft	125.9 n	
6			247 ft/mir	75.3 m/mir	16.1 ir	408.4 mn	101 ft	30.8 n	514 ft	156.7 n	
7	6,800 lb	3,080 kç	256 ft/mir	78.0 m/mir	17.1 ir	433.2 mn	107 ft	32.7 n	621 ft	189.4 n	

AUXILIARY HOIST

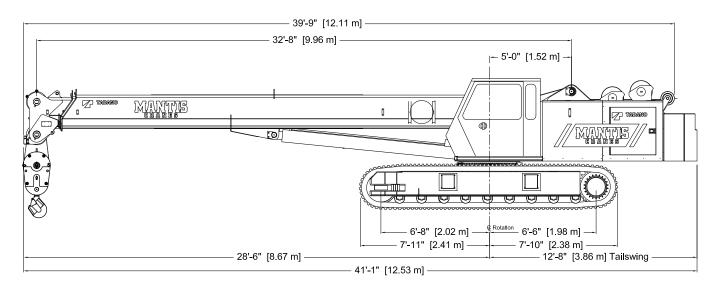
Planetary geared single-speed winch includes a bent axis, variable displacement hydraulic motor and a multi-disc internal brake. Wire Rope: 300 ft (91 m) 9/16 in (14 mm) 6 x 37 EIPS, IWRC, RRL Line pulls are not based on wire rope strength. Drum rotation indicator is standard.

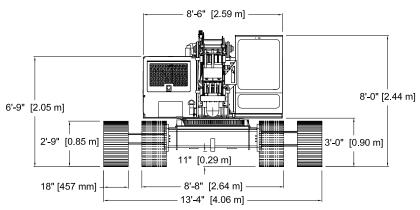
	Rope Layer	Maximum Line Pull		Full Load Line Speed		Pitch Diameter		La	yer	Total		
	,	2 10,800 lk 4,900 kç 3 9,800 lk 4,450 kç 4 9,000 lb 4,080 kç		182 ft/mir	55.5 m/mir	10.3 ir	261.9 mn	66 ft	20.1 n	66 ft	20.1 n	
	2			198 ft/mir	60.4 m/mir	11.3 ir	286.8 mn	72 ft	22.0 n	138 ft	42.1 n	
	()			205 ft/mir	62.5 m/mir	12.3 ir	311.6 mn	79 ft	23.9 n	217 ft	66.1 n	
	4			214 ft/mir	65.2 m/mir	13.2 ir	336.4 mm	85 ft	25.8 n	302 ft	91.9 n	
Ī	F			228 ft/min	69.5 m/mir	14.2 ir	361.2 mn	91 ft	27.7 n	393 ft	119.6 n	

MACHINE WEIGHTS		
STANDARD CRANE WITH 3 SECTION 80 ft 0 in (24.38 m) BOOM, 1 PIECE COUNTERWEIGHT & 18 in (457 mm) TRACK SHOES	59,500 lk	26,989 kç
Crane Less Counterweight	48,480 lt	21,990 kç
Counterweight	11,500 lb	5,220 kç
OPTIONAL EQUIPMENT		
20 ft (6.10 m) Lattice Extensior	1,200 lt	544 kç
20 ft (6.10 m) Jib (connects to head of Lattice Extension ONLY)	700 lk	318 kç
Auxiliary Nose Sheave	150 lk	68 kç
Auxiliary Winch with Standard Rope	607 lk	275 kç
7 ton (6 mt) Headache Ball	162 lk	74 kç
30 ton (27 mt) Hook Block	760 lk	345 kç
Auger Ready Package	440 lk	200 kç
Complete Auger Package	1,520 lk	690 kç
60 in (1.52 m) Auger Kelly Bar	120 lk	ξ 4 kç
72 in (1.83 m) Auger Kelly Bar	140 lk	ć 4 kç



DIMENSIONS



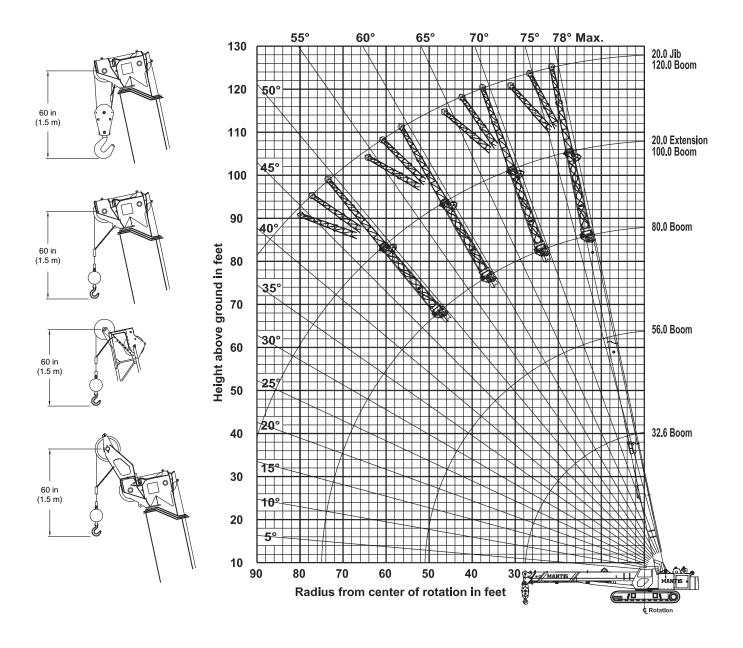


WIDTHS, WEIGHTS, AND GROUND PRESSURES*

I	Shoe	0veral	Width	Area	Ground	Working Weight	
	Width	Retracted	Extended	Area	Pressure		
	18 in	8 ft 6 in	13 ft 6 in	5,760 in ²	10.5 psi	60,505 lb	
	(457 mm)	(2.59 m)	(4.11 m)	(3.72 m ²)	(0.74 kg/cm²)	(27,445 kg)	
	24 in	9 ft 8 in	14 ft 0 in	7,680 in ²	8.0 psi	61,665 lb	
	(609 mm)	(2.95 m)	(4.27 m)	(4.95 m ²)	(0.56 kg/cm²)	(27,971 kg)	
	30 in	10 ft 2 in	14 ft 6 in	9,600 in ²	6.5 psi	62,820 lb	
	(762 mm)	(3.10 m)	(4.42 m)	(6.19 m ²)	(0.46 kg/cm²)	(28,495 kg)	

^{*} Crane equipped with: 80 ft boom, extension, jib, 30 ton hook block, and 7 ton headache ball

80 FT MAIN BOOM, 20 FT EXTENSION & 20 FT JIB



360 DEGREE RATING - LOADS IN Ib x 1000

			M	IAIN E	BOOM	with	TRAC	CKS F	ULLY	EXTI	ENDE	D			
		11,5	00 lb C	OUNTI	RWEI	GHT			ZE	RO CC	UNTE	RWEIG	нт		
RADIUS			MAIN BO	OOM LEN	IGTH (ft)					MAIN BO	OOM LEN	NGTH (ft))		RADIUS
(ft)	33.0	41.0	48.0	56.0	64.0	72.0	80.0	33.0	41.0	48.0	56.0	64.0	72.0	80.0	(ft)
8	60.0 71.8°	48.0 75.5°	47.6* 77.9°					60.0 71.8°	48.0 75.5°	47.6* 77.9°					8
10	60.0	48.0	47.6	44.9*				53.0	48.0	47.6	44.9*				10
12	67.9° 56.0	72.5° 48.0	75.5° 47.6	77.6° 40.5	34.2*			67.9° 35.4	72.5° 35.7	75.5° 35.9	77.6° 36.0	34.2*			12
	63.9° 38.5	69.4° 38.7	73.0° 38.9	75.4° 35.4	77.3° 29.8	26.0	22.8*	63.9° 23.0	69.4° 25.3	73.0° 23.5	75.4° 23.6	77.3° 23.6	23.7	22.8*	
15	57.5°	64.7°	69.1°	72.2°	74.5°	76.2°	77.6°	57.5°	64.7°	69.1°	72.2°	74.5°	76.2°	77.6°	15
20	24.0 45.5°	24.2 56.2°	24.3 62.5°	24.4 66.7°	24.0 69.7°	21.3 72.1°	18.7 73.9°	13.9 45.5°	14.1 56.2°	14.2 62.5°	14.3 66.7°	14.4 69.7°	14.4 72.1°	14.5 73.9°	20
25	16.9 29.0°	17.2 46.6°	17.3 55.3°	17.3 60.8°	17.4 64.8°	17.0 67.8°	15.8 70.1°	9.4 29.0°	9.6 46.6°	9.8 55.3°	9.9 60.8°	9.9 64.8°	10.0 67.8°	10.0 70.1°	25
30	25.0	13.0	13.1	13.2	13.2	13.3	13.0	23.0	7.0	7.1	7.2	7.3	7.3	7.3	30
25		34.7° 10.2	47.3°	54.6° 10.4	59.6° 10.5	63.3° 10.5	66.2°		34.7° 5.2	47.3° 5.4	54.6° 5.5	59.6° 5.5	63.3° 5.6	66.2° 5.6	25
35		14.5°	38.0° 8.4	47.8° 8.5	54.1° 8.5	58.7° 8.5	62.1° 8.6		14.5°	38.0° 4.1	47.8° 4.2	54.1° 4.3	58.7° 4.3	62.1°	35
40			25.5°	6.3 40.1°	6.3 48.2°	53.8°	57.9°			25.5°	4.2 40.1°	4.3 48.2°	53.8°	57.9°	40
45				7.0 30.6°	7.1 41.6°	7.1 48.5°	7.1 53.4°				3.3 30.6°	3.4 41.6°	3.4 48.5°	3.4 53.4°	45
50				5.9 15.8°	5.9 33.8°	6.0 42.7°	6.0 48.7°				2.6 15.8°	2.7 33.8°	2.7 42.7°	2.7 48.7°	50
55				13.0	5.0	5.1	5.1				13.0	2.1	2.1	2.1	55
					23.7°	36.1° 4.3	43.5° 4.4					23.7°	36.1° 1.6	43.5° 1.7	(0
60						28.1° 3.7	37.8°						28.1° 1.3	37.8°	60
65						3.7 16.4°	31.1°						1.3 16.4°	1.3 31.1°	65
70							3.2 22.6°							1.0 22.6°	70
75							2.8 4.2°							0.7 4.2°	75

^{*} Capacity based on maximum obtainable boom angle.

NOTE: Capacities appearing above the bold line are based on structural strength; tipping should not be relied upon as a capacity limitation.

Capacities appearing below the bold line are based on stability and do not exceed 75% of tipping.

CAUTION: THESE CHART VALUES ARE ONLY A GUIDE AND MUST NOT BE USED TO OPERATE THE CRANE. USE ONLY THE IN CAB LOAD CHARTS AND OPERATORS MANUAL FURNISHED WITH THE CRANE.

[°] Boom angles are stated in degrees.

360 DEGREE RATING - LOADS IN Ib x 1000

MAIN BOOM with TRACKS FULLY RETRACTED											
11,5	00 lb COU	NTERWE	IGHT								
RADIUS (ft)	MAIN BOO (f 33.0	M LENGTH t) Over 33	RADIUS (ft)								
8	60.0	47.6	8								
10	49.6	44.9	10								
12	36.3	34.2	12								
14	25.9	25.9	14								
16	21.6	21.6	16								
18	17.9	17.9	18								
20	15.0	15.0	20								
22	12.7	12.7	22								
24	11.0	11.0	24								
26	9.6	9.6	26								
28	8.5	8.5	28								
30	7.7	7.7	30								
32	7.0	7.0	32								
34	6.3	6.3	34								
36	5.8	5.8	36								
38	5.4	5.4	38								
40	5.0	5.0	40								
42	4.6	4.6	42								
44	4.3	4.3	44								
46	4.0	4.0	46								
48	3.7	3.7	48								
50	3.4	3.4	50								
52	3.2	3.2	52								
54	2.9	2.9	54								
56	2.7	2.7	56								
58	2.5	2.5	58								
60	2.3	2.3	60								
62	2.1	2.1	62								
64	1.9	1.9	64								
66	1.7	1.7	66								
68	1.6	1.6	68								
70	1.4	1.4	70								

20' EXTENSION & 20' JIB with TRACKS FULLY EXTENDED 11,500 Ib COUNTERWEIGHT												
20	O' EXTENSIO	N			20' JIB							
Boom	Total Boom	Length (ft)	Jib	Offset A	ngles	Boom						
Angle	53.0 to 91.9	92.0 to ?	0°	15°	30°	Angle						
78°	12.4	12.4	6.6	4.0	2.2	78°						
75°	10.5	10.5	6.35.65.14.6	4.0	2.1	75°						
72°	9.3	9.3		3.5	2.0	72°						
70°	8.6	8.6		3.2	1.9	70°						
68°	8.0	8.0		3.0	1.8	68°						
65°	7.2	6.8	4.2	2.8	1.8	65°						
62°	6.6	5.7	3.9	2.6	1.7	62°						
60°	6.2	4.9	3.5	2.4	1.7	60°						
58°	5.9	4.3	3.2	1.9	1.4	58°						
55°	5.5	3.7	2.6	1.3	1.0	55°						
52°	5.2	3.2	2.0	0.6	0.4	52°						
50°	5.0	2.9	1.5	0.3	0.2	50°						
48°	4.4	2.6	\times	$\supset \subset$	$\supset \subset$	48°						
45°	4.2	2.3	\bowtie	$\geq \leq$	$\geq \leq$	45°						

ZERC	DEGREE	BOOM AN	GLE										
N	MAXIMUM CAPACITY												
with TRACKS FULLY EXTENDED													
11,50	11,500 lb COUNTERWEIGHT												
BOOM LENGTH (ft)	RADIUS (ft)	LOAD (lbs) (x 1000)	BOOM LENGTH (ft)										
32.7	27.7	15.4	32.7										
40.6	35.6	10.0	40.6										
48.4	43.4	7.7	48.4										
56.3	51.3	5.7	56.3										
64.3	59.2	4.6	64.3										
71.1	67.1	3.5	71.1										
80.0	75.0	2.8	80.0										

WEIGHT REDUCTIONS										
LOAD HANDLING DEVICES										
HOOKBLOCK: 30 Ton - 3 Sheave 76										
OVERHAUL BALL: 7 Ton w/Swivel	162 lbs									
OPTIONAL HANDLING DEVICES										
20 ft. Extension - Stowed**	320 lbs									
20 ft. Extension - Erected**	1,600 lbs									
20 ft. Ext. and 20 ft. Jib - Stowed**	450 lbs									
20 ft. Ext. and 20 ft. Jib - Erected**	3,100 lbs									
Auxillary Nose Sheave**	160 lbs									

^{**} Reduction of main boom capacities.

NOTE: Capacities appearing above the bold line are based on structural strength; tipping should not be relied upon as a capacity limitation.

Capacities appearing below the bold line are based on stability and do not exceed 75% of tipping.

CAUTION: THESE CHART VALUES ARE ONLY A GUIDE AND MUST NOT BE USED TO OPERATE THE CRANE. USE ONLY THE IN CAB LOAD CHARTS AND OPERATORS MANUAL FURNISHED WITH THE CRANE.

360 DEGREE RATING - LOADS IN Ib x 1000

		A	UXILI	ARY I	NOSE	SHEA	VE wi	h TR	CKS	FULL	/ EXTI	ENDE)		
	•	11,500 I	b COUN	ITERWE	EIGHT					ZER	o cou	NTERW	EIGHT		
RADIUS			MAIN BO	OOM LEN	IGTH (ft)					MAIN B	OOM LEN	IGTH (ft)			RADIUS
(ft)	33.0	41.0	48.0	56.0	64.0	72.0	80.0	33.0	41.0	48.0	56.0	64.0	72.0	80.0	(ft)
8	6.0	6.0	6.0					6.0	6.0	6.0					8
ð	71.8°	75.5°	77.9°					71.8°	75.5°	77.9°					8
10	6.0	6.0	6.0	6.0				6.0	6.0	6.0	6.0				10
10	67.9°	72.5°	75.5°	77.6°				67.9°	72.5°	75.5°	77.6°				10
12	6.0	6.0	6.0	6.0	6.0			6.0	6.0	6.0	6.0	6.0			12
	63.9°	69.4°	73.0°	75.4°	77.3°			63.9°	69.4°	73.0°	75.4°	77.3°			
15	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	15
	57.5°	64.7°	69.1°	72.2°	74.5°	76.2°	77.6°	57.5°	64.7°	69.1°	72.2°	74.5°	76.2°	77.6°	
20	6.0 45.5°	6.0 56.2°	6.0 62.5°	6.0 66.7°	6.0 69.7°	6.0 72.1°	6.0 73.9°	6.0 45.5°	6.0 56.2°	6.0 62.5°	6.0 66.7°	6.0 69.7°	6.0 72.1°	6.0 73.9°	20
	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	
25	29.0°	46.6°	55.3°	60.8°	64.8°	67.8°	70.1°	29.0°	46.6°	55.3°	60.8°	64.8°	67.8°	70.1°	25
	23.0	6.0	6.0	6.0	6.0	6.0	6.0	23.0	6.0	6.0	6.0	6.0	6.0	6.0	
30		34.7°	47.3°	54.6°	59.6°	63.3°	66.2°		34.7°	47.3°	54.6°	59.6°	63.3°	66.2°	30
		6.0	6.0	6.0	6.0	6.0	6.0		5.2	5.4	5.5	5.5	5.6	5.6	
35		14.5°	38.0°	47.8°	54.1°	58.7°	62.1°		14.5°	38.0°	47.8°	54.1°	58.7°	62.1°	35
40			6.0	6.0	6.0	6.0	6.0			4.1	4.2	4.3	4.3	4.4	40
40			25.5°	40.1°	48.2°	53.8°	57.9°			25.5°	40.1°	48.2°	53.8°	57.9°	40
45				6.0	6.0	6.0	6.0				3.3	3.4	3.4	3.4	45
45				30.6°	41.6°	48.5°	53.4°				30.6°	41.6°	48.5°	53.4°	40
50				5.4	5.5	6.0	6.0				2.6	2.7	2.7	2.7	50
				15.8°	33.8°	42.7°	48.7°				15.8°	33.8°	42.7°	48.7°	
55					4.6	4.7	4.7					2.1	2.1	2.1	55
					23.7°	36.1°	43.5°					23.7°	36.1°	43.5°	
60						4.0 28.1°	4.0 37.8°						1.6 28.1°	1.7	60
						3.4	37.8						1.3	37.8°	
65						3.4 16.4°	31.1°						16.4°	31.1°	65
70							2.9							1.0	70
70							22.6°							22.6°	
75							2.5 4.2°							0.7 4.2°	75
			l		l		4.4				l			4.2	

[°] Boom angles are stated in degrees.

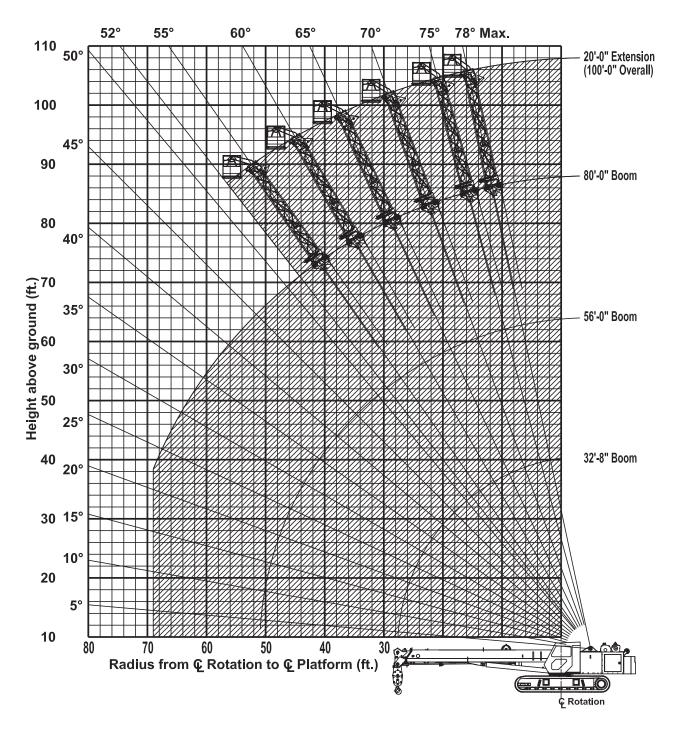
NOTE: Capacities appearing above the bold line are based on structural strength; tipping should not be relied upon as a capacity limitation.

Capacities appearing below the bold line are based on stability and do not exceed 75% of tipping.

6010LP

LOAD CHARTS

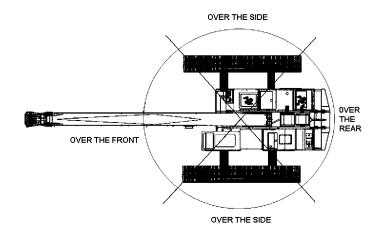
WP-750 WORK PLATFORM Installed on MANTIS MODEL 6010LP as originally manufactured and equipped by Tadano Mantis Corporation



Limits of operation: Maximum load capacity = 750 lb Maximum radius when mounted on main boom = 68 ft

CAUTION: THESE CHART VALUES ARE ONLY A GUIDE AND MUST NOT BE USED TO OPERATE THE CRANE. USE ONLY THE IN CAB LOAD CHARTS AND OPERATORS MANUAL FURNISHED WITH THE CRANE.





	MANTIS MODEL 6010LP								
WIF	WIRE ROPE LINE PULL CAPACITIES								
PARTS OF LINE	MAIN WINCH (pounds)	AUX WINCH (pounds)	PARTS OF LINE	MAIN WINCH (pounds)					
1	9,600	9,600	5	48,000					
2	19,200	19,200	6	57,600					
3	28,800	N/A	7	67,200					
4	38,400	N/A	\times	\times					
9/1	9/16 inch diameter wire rope, 6 x 37 Class, EIP, IWRC								

PLEASE READ, UNDERSTAND, AND FOLLOW THE MANUALS FURNISHED WITH THE CRANE (OPERATORS AND SAFETY)
AS WELL AS THE CAPACITY LIMITATIONS AND GENERAL CONDITIONS LISTED BELOW PRIOR TO
OPERATION OF THE CRANE. FAILURE TO DO SO MAY RESULT IN AN ACCIDENT.

This MANTIS CRANE as manufactured by Tadano Mantis Corporation meets the requirements of ASME B30.5. Structure and stability have been tested in accordance with SAE J1063 and SAE J765, respectively. Lifting capacities as determined by boom length, angle or radius, apply only to machines as originally equipped by manufacturer and in a properly maintained condition. Capacities given are maximum covered by the manufacturers warranty and are based on a freely suspended load with NO allowance for factors as out-of-level operation, supporting surface conditions, hazardous surroundings, experience of personnel, etc. The operator shall establish practical working loads based on prevailing operating conditions, such as, but not limited to the above.

When making lifts where capacities may be within a zone limited by structural strength, the operator shall determine that the weight of the load is known within plus or minus (+/-) ten percent (10%) before making lift. **DO NOT** lift load or extend boom without counterweight in place. Deductions from rated capacities must be made for the weight of the hook block, hook/ball, slings, spreader bar, or other suspended equipment.

Side pull on boom is extremely dangerous and must be avoided.

DO NOT exceed manufacturers maximum specified reeving.

DO NOT use this chart if wind speed exceeds 20 mph. Consult the manufacturer for specialized load ratings.

Load radius is defined as the horizontal distance from the axis of rotation (with no load) to the center of the lifting device after load is applied. Boom angle is the included angle between the longitudinal axis of the boom base section and the Horizontal axis, after lifting load. The boom angle before lifting should be slightly greater than desired to account for boom deflection.

Boom angle/boom length relationships given are an approximation of the resulted load radius, which should be an accurate measurement. Boom height dimensions are measured from ground to center of lower boom head sheave.

It is permissible to attempt to telescope boom with a load within the limits of rated capacities. However, boom angle system hydraulic pressure, and/or boom lubrication may affect operation.

It is permissible to travel with loads within the rated capacity of the crane. Travel speeds should be greatly reduced to reflect terrain limitations and minimize dynamic loads applied to the crane structure.

CAUTION: THESE CHART VALUES ARE ONLY A GUIDE AND MUST NOT BE USED TO OPERATE THE CRANE. USE ONLY THE IN CAB LOAD CHARTS AND OPERATORS MANUAL FURNISHED WITH THE CRANE.

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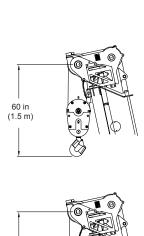
TADANO MANTIS CORPORATION

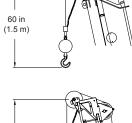
1705 Columbia Avenue • Franklin, TN 37064 USA • Toll-Free: 1-800-272-3325 • Fax: 615-790-6803 • mantiscranes.com



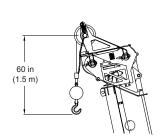
MANTIS® 6010LP30 TON TELE-BOOM CRAWLER CRANE

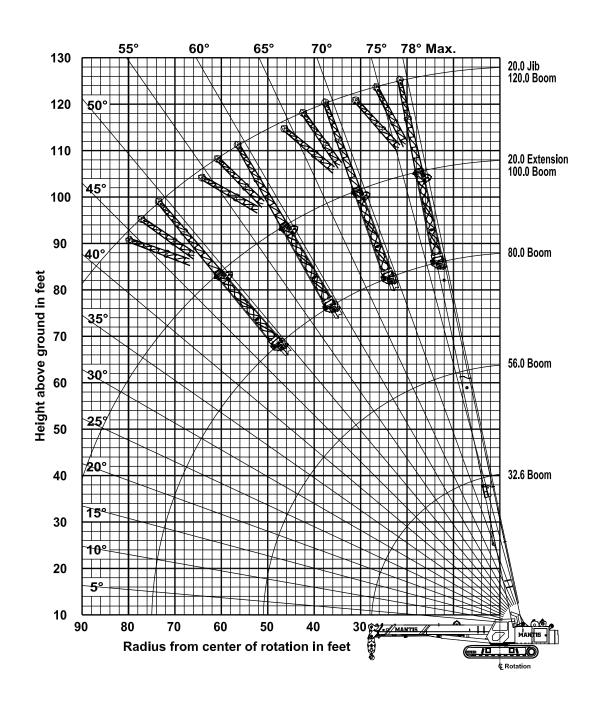
80 FT MAIN BOOM, 20 FT EXTENSION & 20 FT JIB





60 in (1.5 m)







MANTIS® **6010LP**30 TON TELE-BOOM CRAWLER CRANE

LIFTING CAPACITIES

IN THOUSANDS OF POUNDS; 360°, 75% OF TIPPING, FIRM & LEVEL GROUND

	MAIN BOOM with TRACKS FULLY EXTENDED														
11,500 Ib COUNTERWEIGHT								ZERO COUNTERWEIGHT							
RADIUS			MAIN BO	OOM LEN	NGTH (ft)		MAIN BOOM LENGTH (ft)					RADIUS		
(ft)	33.0	41.0	48.0	56.0	64.0	72.0	80.0	33.0	41.0	48.0	56.0	64.0	72.0	80.0	(ft)
8	60.0 71.8°	48.0 75.5°	47.6* 77.9°					60.0 71.8°	48.0 75.5°	47.6* 77.9°					8
10	60.0 67.9°	48.0 72.5°	47.6 75.5°	44.9* 77.6°				53.0 67.9°	48.0 72.5°	47.6 75.5°	44.9* 77.6°				10
12	56.0 63.9°	48.0 69.4°	47.6 73.0°	40.5 75.4°	34.2* 77.3°			35.4 63.9°	35.7 69.4°	35.9 73.0°	36.0 75.4°	34.2* 77.3°			12
15	38.5 57.5°	38.7 64.7°	38.9 69.1°	35.4 72.2°	29.8 74.5°	26.0 76.2°	22.8* 77.6°	23.0 57.5°	25.3 64.7°	23.5 69.1°	23.6 72.2°	23.6 74.5°	23.7 76.2°	22.8* 77.6°	15
20	24.0 45.5°	24.2 56.2°	24.3 62.5°	24.4 66.7°	24.0 69.7°	21.3 72.1°	18.7 73.9°	13.9 45.5°	14.1 56.2°	14.2 62.5°	14.3 66.7°	14.4 69.7°	14.4 72.1°	14.5 73.9°	20
25	16.9 29.0°	17.2 46.6°	17.3 55.3°	17.3 60.8°	17.4 64.8°	17.0 67.8°	15.8 70.1°	9.4 29.0°	9.6 46.6°	9.8 55.3°	9.9 60.8°	9.9 64.8°	10.0 67.8°	10.0 70.1°	25
30		13.0 34.7°	13.1 47.3°	13.2 54.6°	13.2 59.6°	13.3 63.3°	13.0 66.2°		7.0 34.7°	7.1 47.3°	7.2 54.6°	7.3 59.6°	7.3 63.3°	7.3 66.2°	30
35		10.2 14.5°	10.3 38.0°	10.4 47.8°	10.5 54.1°	10.5 58.7°	10.5 62.1°		5.2 14.5°	5.4 38.0°	5.5 47.8°	5.5 54.1°	5.6 58.7°	5.6 62.1°	35
40			8.4 25.5°	8.5 40.1°	8.5 48.2°	8.5 53.8°	8.6 57.9°			4.1 25.5°	4.2 40.1°	4.3 48.2°	4.3 53.8°	4.4 57.9°	40
45				7.0 30.6°	7.1 41.6°	7.1 48.5°	7.1 53.4°				3.3 30.6°	3.4 41.6°	3.4 48.5°	3.4 53.4°	45
50				5.9 15.8°	5.9 33.8°	6.0 42.7°	6.0 48.7°				2.6 15.8°	2.7 33.8°	2.7 42.7°	2.7 48.7°	50
55				12.0	5.0 23.7°	5.1 36.1°	5.1 43.5°				12.0	2.1 23.7°	2.1 36.1°	2.1 43.5°	55
60					20	4.3 28.1°	4.4 37.8°					20	1.6 28.1°	1.7 37.8°	60
65						3.7 16.4°	3.7 31.1°						1.3 16.4°	1.3 31.1°	65
70						10.1	3.2 22.6°						10.1	1.0 22.6°	70
75							2.8 4.2°							0.7 4.2°	75

^{*} Capacity based on maximum obtainable boom angle.

[°] Boom angles are stated in degrees.



MANTIS® **6010LP**30 TON TELE-BOOM CRAWLER CRANE

LIFTING CAPACITIES

IN THOUSANDS OF POUNDS; 360°, 75% OF TIPPING, FIRM & LEVEL GROUND

MAIN BOOM with TRACKS FULLY RETRACTED								
11,500 lb COUNTERWEIGHT								
		M LENGTH						
RADIUS (ft)	,	t)	RADIUS (ft)					
	33.0	Over 33						
8	60.0	47.6	8					
10	49.6	44.9	10					
12	36.3	34.2	12					
14	25.9	25.9	14					
16	21.6	21.6	16					
18	17.9	17.9	18					
20	15.0	15.0	20					
22	12.7	12.7	22					
24	11.0	11.0	24					
26	9.6	9.6	26					
28	8.5	8.5	28					
30	7.7	7.7	30					
32	7.0	7.0	32					
34	6.3	6.3	34					
36	5.8	5.8	36					
38	5.4	5.4	38					
40	5.0	5.0	40					
42	4.6	4.6	42					
44	4.3	4.3	44					
46	4.0	4.0	46					
48	3.7	3.7	48					
50	3.4	3.4	50					
52	3.2	3.2	52					
54	2.9	2.9	54					
56	2.7	2.7	56					
58	2.5	2.5	58					
60	2.3	2.3	60					
62	2.1	2.1	62					
64	1.9	1.9	64					
66	1.7	1.7	66					
68	1.6	1.6	68					
70	1.4	1.4	70					

	20' EXTENSION & 20' JIB									
'	with TRACKS FULLY EXTENDED									
	11,500 lb COUNTERWEIGHT									
20)' EXTENSIO	N			20' JIB					
Boom	Total Boom	Length (ft)	Jib (Offset A	ngles	Boom				
Angle	53.0 to 91.9	92.0 to ?	0°	Angle						
78°	12.4	12.4	6.6	4.0	2.2	78°				
75°	10.5	10.5	6.3	4.0	2.1	75°				
72°	9.3	9.3	5.6	3.5	2.0	72°				
70°	8.6	8.6	5.1	3.2	1.9	70°				
68°	8.0	8.0	4.6	3.0	1.8	68°				
65°	7.2	6.8	4.2	2.8	1.8	65°				
62°	6.6	5.7	3.9	2.6	1.7	62°				
60°	6.2	4.9	3.5	2.4	1.7	60°				
58°	5.9	4.3	3.2	1.9	1.4	58°				
55°	5.5	3.7	2.6	1.3	1.0	55°				
52°	5.2	3.2	2.0	0.6	0.4	52°				
50°	5.0	2.9	1.5	0.3	0.2	50°				
48°	4.4	2.6	\boxtimes	$\supset \subset$	$\supset \subset$	48°				
45°	4.2	2.3	\bowtie	$\geq <$	$\geq <$	45°				

ZERO DEGREE BOOM ANGLE									
М	MAXIMUM CAPACITY								
with TR	ACKS F	JLLY EXTE	ENDED						
11,50	0 lb COU	NTERWEI	GHT						
BOOM LENGTH (ft)									
32.7	32.7 27.7 15.4								
40.6	35.6 10.0		40.6						
48.4	48.4 43.4 7.7								
56.3	51.3	5.7	56.3						
64.3	59.2	4.6	64.3						
71.1	67.1	3.5	71.1						
80.0	75.0	2.8	80.0						

WEIGHT REDUCTIONS							
LOAD HANDLING DEVICES							
HOOKBLOCK: 30 Ton - 3 Sheave	760 lbs						
OVERHAUL BALL: 12 Ton w/Swivel	162 lbs						
OPTIONAL HANDLING DEVICES							
20 ft. Extension - Stowed**	320 lbs						
20 ft. Extension - Erected**	1,600 lbs						
20 ft. Ext. and 20 ft. Jib - Stowed**	450 lbs						
20 ft. Ext. and 20 ft. Jib - Erected**	3,100 lbs						
Auxillary Nose Sheave**	160 lbs						

^{**} Reduction of main boom capacities.



MANTIS® 6010LP30 TON TELE-BOOM CRAWLER CRANE

LIFTING CAPACITIES

IN THOUSANDS OF POUNDS; 360°, 75% OF TIPPING, FIRM & LEVEL GROUND

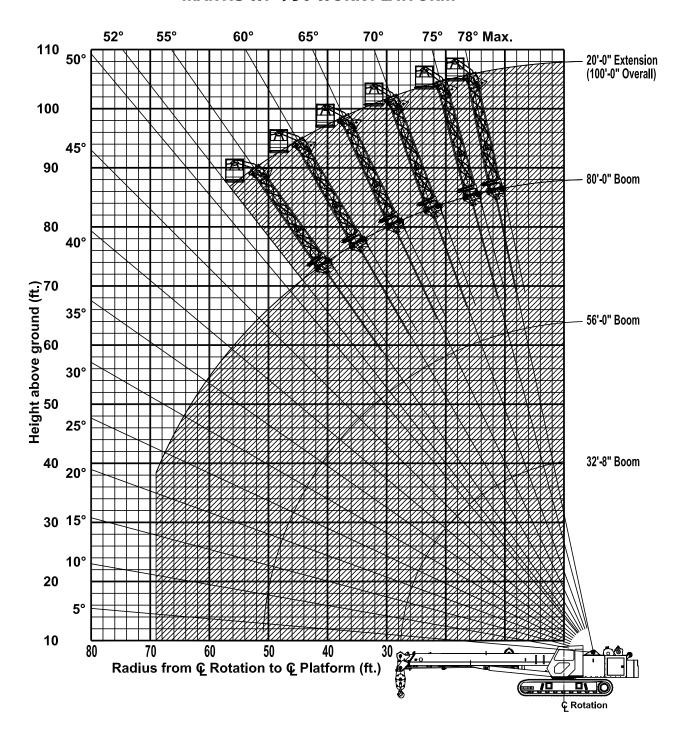
	AUXILIARY NOSE SHEAVE with TRACKS FULLY EXTENDED														
	,	11,500 I	b COUN	ITERWE	EIGHT			l		ZER	o coul	NTERW	EIGHT		
RADIUS			MAIN B	OOM LEN	IGTH (ft)					MAIN B	OOM LEN	IGTH (ft)			RADIUS
(ft)	33.0	41.0	48.0	56.0	64.0	72.0	80.0	33.0	41.0	48.0	56.0	64.0	72.0	80.0	(ft)
8	6.0	6.0	6.0					6.0	6.0	6.0					8
	71.8°	75.5°	77.9°					71.8°	75.5°	77.9°					
10	6.0	6.0	6.0	6.0				6.0	6.0	6.0	6.0				10
	67.9°	72.5°	75.5°	77.6°				67.9°	72.5°	75.5°	77.6°				
12	6.0	6.0	6.0	6.0	6.0			6.0	6.0	6.0	6.0	6.0			12
	63.9°	69.4°	73.0°	75.4°	77.3°	0.0	0.0	63.9°	69.4°	73.0°	75.4°	77.3°	0.0	0.0	
15	6.0 57.5°	6.0 64.7°	6.0 69.1°	6.0 72.2°	6.0 74.5°	6.0 76.2°	6.0 77.6°	6.0 57.5°	6.0 64.7°	6.0 69.1°	6.0 72.2°	6.0 74.5°	6.0 76.2°	6.0 77.6°	15
	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	
20	45.5°	56.2°	62.5°	66.7°	69.7°	72.1°	73.9°	45.5°	56.2°	62.5°	66.7°	69.7°	72.1°	73.9°	20
	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	
25	29.0°	46.6°	55.3°	60.8°	64.8°	67.8°	70.1°	29.0°	46.6°	55.3°	60.8°	64.8°	67.8°	70.1°	25
		6.0	6.0	6.0	6.0	6.0	6.0		6.0	6.0	6.0	6.0	6.0	6.0	
30		34.7°	47.3°	54.6°	59.6°	63.3°	66.2°		34.7°	47.3°	54.6°	59.6°	63.3°	66.2°	30
25		6.0	6.0	6.0	6.0	6.0	6.0		5.2	5.4	5.5	5.5	5.6	5.6	25
35		14.5°	38.0°	47.8°	54.1°	58.7°	62.1°		14.5°	38.0°	47.8°	54.1°	58.7°	62.1°	35
40			6.0	6.0	6.0	6.0	6.0			4.1	4.2	4.3	4.3	4.4	40
40			25.5°	40.1°	48.2°	53.8°	57.9°			25.5°	40.1°	48.2°	53.8°	57.9°	40
45				6.0	6.0	6.0	6.0				3.3	3.4	3.4	3.4	45
	<u> </u>			30.6°	41.6°	48.5°	53.4°				30.6°	41.6°	48.5°	53.4°	
50				5.4	5.5	6.0	6.0				2.6	2.7	2.7	2.7	50
				15.8°	33.8°	42.7°	48.7°				15.8°	33.8°	42.7°	48.7°	
55					4.6	4.7	4.7					2.1	2.1	2.1	55
					23.7°	36.1°	43.5° 4.0					23.7°	36.1°	43.5°	
60						28.1°	37.8°						28.1°	37.8°	60
						3.4	3.4						1.3	1.3	
65						16.4°	31.1°						16.4°	31.1°	65
70							2.9							1.0	70
70							22.6°							22.6°	70
75							2.5							0.7	75
	<u> </u>						4.2°	<u> </u>						4.2°	

[°] Boom angles are stated in degrees.



MANTIS[®] **6010LP** 30 TON TELE-BOOM CRAWLER CRANE

MANTIS WP-750 WORK PLATFORM

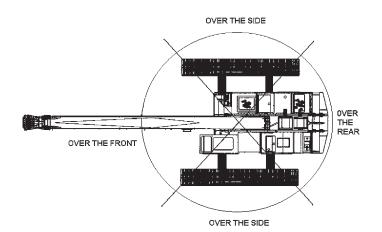


Limits of operation: Maximum load capacity = 750 lb Maximum radius when mounted on main boom = 68 ft





MANTIS® 6010LP30 TON TELE-BOOM CRAWLER CRANE



MANTIS MODEL 6010LP									
WIRE ROPE LINE PULL CAPACITIES									
PARTS OF LINE	MAIN WINCH (pounds)	AUX WINCH (pounds)	PARTS OF LINE	MAIN WINCH (pounds)					
1	9,600	9,600	5	48,000					
2	19,200	19,200	6	57,600					
3	28,800	N/A	7	67,200					
4	38,400	N/A	\times	>>					
9/1	9/16 inch diameter wire rope, 6 x 37 Class, EIP, IWRC								

PLEASE READ, UNDERSTAND, AND FOLLOW THE MANUALS FURNISHED WITH THE CRANE (OPERATOR'S AND SAFETY)
AS WELL AS THE CAPACITY LIMITATIONS AND GENERAL CONDITIONS LISTED BELOW PRIOR TO OPERATION OF THE CRANE.
FAILURE TO DO SO MAY RESULT IN AN ACCIDENT.

Capacity Limitations and General Conditions:

- This MANTIS CRANE as manufactured, meets the requirements of ANSI B30.5 (2000). Structure and stability have been tested in accordance with SAE J1063 and SAE J765, respectively. Modifications to the crane or use of optional equipment other than specified by the manufacturer can result in a reduction of capacity.
- The main boom and auxliary boom head lifting capacities are determined by boom length and load radius. The extension and jib lifting capacities are determined by boom angle.
- 3. Rated capacity loads given are maximum covered by the manufacturer's warranty and are based on a freely suspended load with NO allowance for factors such as out-of-level operation, supporting surface conditions, hazardous surroundings, experience of personnel, etc. The operator shall establish practical working loads based on prevailing operating conditions, such as, but not limited to the above.
- All rated capacity loads shown apply to original equipment as supplied by SpanDeck, Inc.
- All rated capacity loads appearing above the bold line are based on structural strength; tipping should not be relied upon as a capacity limitation.
- 6. All rated capacity loads appearing below the bold line are based on stability and do not exceed 75% of tipping.

- Deductions from rated capacities must be made for the weight of the hook block, headache ball, slings, spreader bar, and any other suspended equipment. See Lifting Capacity Deduction Chart for load handling devices supplied by SpanDeck, Inc.
- 8. A properly calibrated and maintained Load Moment Indicator (LMI) system will indicate boom mounted and other suspended equipment.
- When making lifts where capacities may be within a zone limited by structural strength, the operator shall determine that the weight of the load is known within plus or minus (+/-) ten percent (10%) before making lift.
- 10. It is permissible to attempt to telescope boom with a load within the limits of rated capacities. However, boom telescope system hydraulic pressure, and/or boom lubrication may affect operation.
- 11. Side pull on boom is extremely dangerous and must be avoided.
- DO NOT exceed manufacturers maximum specified reeving.
- DO NOT lift load or extend boom without proper configuration of crane per load chart selected.
- 14. **DO NOT** attempt to lift any load when wind speed exceeds 20 mph.

Load moment indicating and anti-two block systems are operator aids and must never be used in lieu of job site lift planning calculations by the operator which must take into account ground conditions, weather and all other environmental factors prevailing at the time of the lift. Prices and specifications are subject to change at any time without prior notice and are for factory installation at the time of original manufacture. F.O.B Plant; Richlands, VA 24641. Illustrations and photographs may show optional equipment. Supercedes all previous issues. Please see **www.mantiscranes.com** for most current information.

