

6010

30 Ton Tele-Boom Crawler Crane



 TADANO

MANTIS[®]
CRANES

mantiscranes.com

ACCESS WALKWAYS



AUGER KIT AND POLE CLAW



LIGHT BAR AND TOOL CIRCUIT



WORK PLATFORM



MANTIS[®] CRANES

VERSATILE. POWERFUL. DEPENDABLE.

Tadano Mantis cranes are engineered as VERSATILE, heavy-duty machines. We match massive steel fabrications with diesel engines and state of the art hydraulics to provide a POWERFUL crane that meets the toughest demands in full load pick-and-carry as well as lift applications. MANTIS... the one DEPENDABLE crane that does it all on your jobsite



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.



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



Conveniently positioned cameras display the winch as well as the blind area directly behind the crane. Full color video display in operator cab is standard equipment.



Spacious cab, adjustable seat, and conveniently located controls are common in all Tadano Mantis Cranes.



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

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

- Rear view cameras are appropriately located as are three remote control work lights.
- 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 QSB6.7
- Rating: 173 hp (129 kW) @ 2200 RPM
- Alternator: 100 amp

ELECTRICAL SYSTEM

12VDC

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: Two top and 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

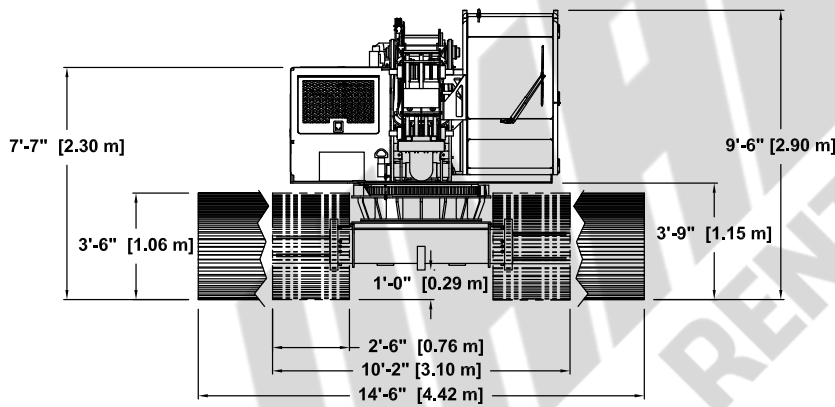
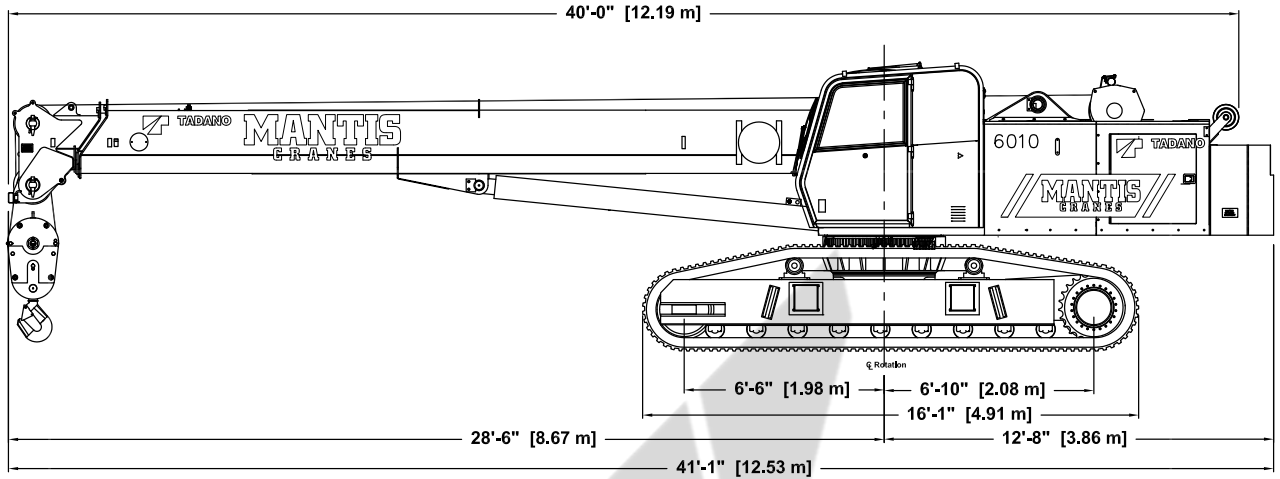
OPTIONAL EQUIPMENT

- 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.
- 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

DIMENSIONS

6010

30 Ton Tele-Boom Crawler Crane

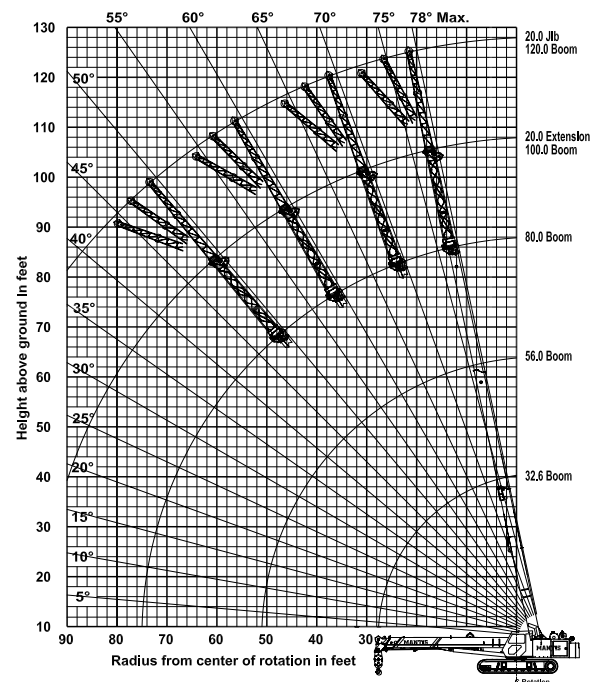


80 FT MAIN BOOM, 20 FT EXTENSION & 20 FT JIB

WIDTHS, WEIGHTS, AND GROUND PRESSURES*

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



WORK PLATFORM



MISSISSIPPI MUD



FOUNDATION



HIGHWAY CONSTRUCTION



EASY HAULER

GENERAL DATA

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)	14'6" (4.42 m)
Overall Width (tracks retracted)	10'2" (3.10 m)
Overall Height	9'6" (2.90 m)
MASS	
Gross Vehicle Mass (Standard Equipment Package)	62,820 LB (28,495 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)
- Elevating Angles: -1° to 78°
- Boom Head: Five, 15 inch (381 mm) diameter cast nylon sheaves on heavy-duty roller bearings. (3 load bearing and 2 lead in sheaves)
- Extension Time: 70 s
- Elevating Time: 41 s

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.

- Rear view cameras are appropriately located as are three remote control work lights.
- 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: Two top and nine bottom sealed rollers on each track frame Idler: Oil filled, self lubricating with spring type tensioner
- Track Shoes: 30 inch (762 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: 18 inch (457 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		Full Load Line Speed		Pitch Diameter		Layer		Total	
1	11,000 lb	4,990 kg	198 ft/min	60.4 m/min	11.2 in	284.3 mm	70 ft	21.4 m	70 ft	21.4 m
2	10,000 lb	4,540 kg	212 ft/min	64.6 m/min	12.2 in	309.1 mm	76 ft	23.3 m	147 ft	44.7 m
3	9,100 lb	4,130 kg	221 ft/min	67.4 m/min	13.1 in	333.9 mm	83 ft	25.2 m	229 ft	69.9 m
4	8,400 lb	3,810 kg	229 ft/min	69.8 m/min	14.1 in	358.8 mm	89 ft	27.1 m	318 ft	97.0 m
5	7,800 lb	3,540 kg	244 ft/min	74.4 m/min	15.1 in	383.6 mm	95 ft	28.9 m	413 ft	125.9 m
6	7,300 lb	3,310 kg	247 ft/min	75.3 m/min	16.1 in	408.4 mm	101 ft	30.8 m	514 ft	156.7 m
7	6,800 lb	3,080 kg	256 ft/min	78.0 m/min	17.1 in	433.2 mm	107 ft	32.7 m	621 ft	189.4 m

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		Layer		Total	
1	12,000 lb	5,440 kg	182 ft/min	55.5 m/min	10.3 in	261.9 mm	66 ft	20.1 m	66 ft	20.1 m
2	10,800 lb	4,900 kg	198 ft/min	60.4 m/min	11.3 in	286.8 mm	72 ft	22.0 m	138 ft	42.1 m
3	9,800 lb	4,450 kg	205 ft/min	62.5 m/min	12.3 in	311.6 mm	79 ft	23.9 m	217 ft	66.1 m
4	9,000 lb	4,080 kg	214 ft/min	65.2 m/min	13.2 in	336.4 mm	85 ft	25.8 m	302 ft	91.9 m
5	8,300 lb	3,760 kg	228 ft/min	69.5 m/min	14.2 in	361.2 mm	91 ft	27.7 m	393 ft	119.6 m

MACHINE WEIGHTS

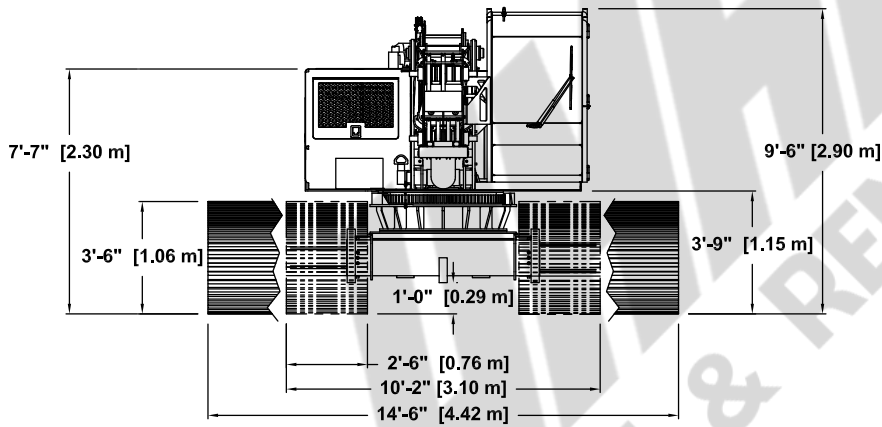
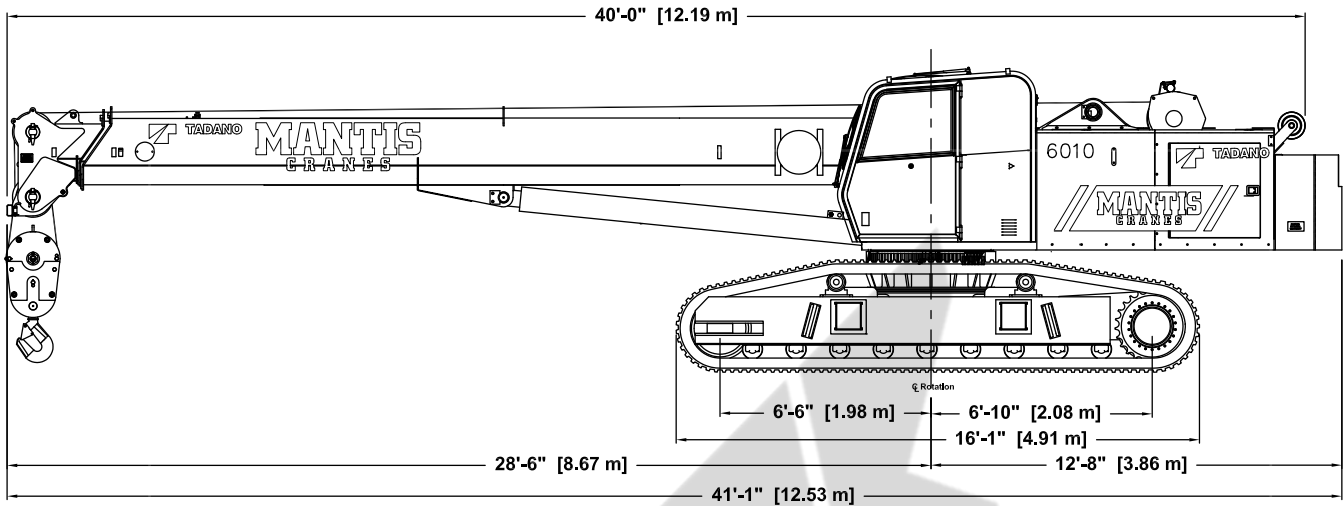
STANDARD CRANE WITH 3 SECTION 80 ft 0 in (24.38 m) BOOM, 1 PIECE COUNTERWEIGHT & 30 in (762 mm) TRACK SHOES	59,980 lb	27,210 kg
Crane Less Counterweight	48,480 lb	21,990 kg
Counterweight	11,500 lb	5,220 kg

OPTIONAL EQUIPMENT

20 ft (6.10 m) Lattice Extension	1,200 lb	544 kg
20 ft (6.10 m) Jib (connects to head of Lattice Extension ONLY)	700 lb	318 kg
Auxiliary Nose Sheave	150 lb	68 kg
Auxiliary Winch with Standard Rope	607 lb	275 kg
7 ton (6 mt) Headache Ball	162 lb	74 kg
30 ton (27 mt) Hook Block	760 lb	345 kg
Auger Ready Package	440 lb	200 kg
Complete Auger Package	1,520 lb	690 kg
60 in (1.52 m) Auger Kelly Bar	120 lb	54 kg
72 in (1.83 m) Auger Kelly Bar	140 lb	64 kg

* Deduction from Standard Crane Weight

DIMENSIONS

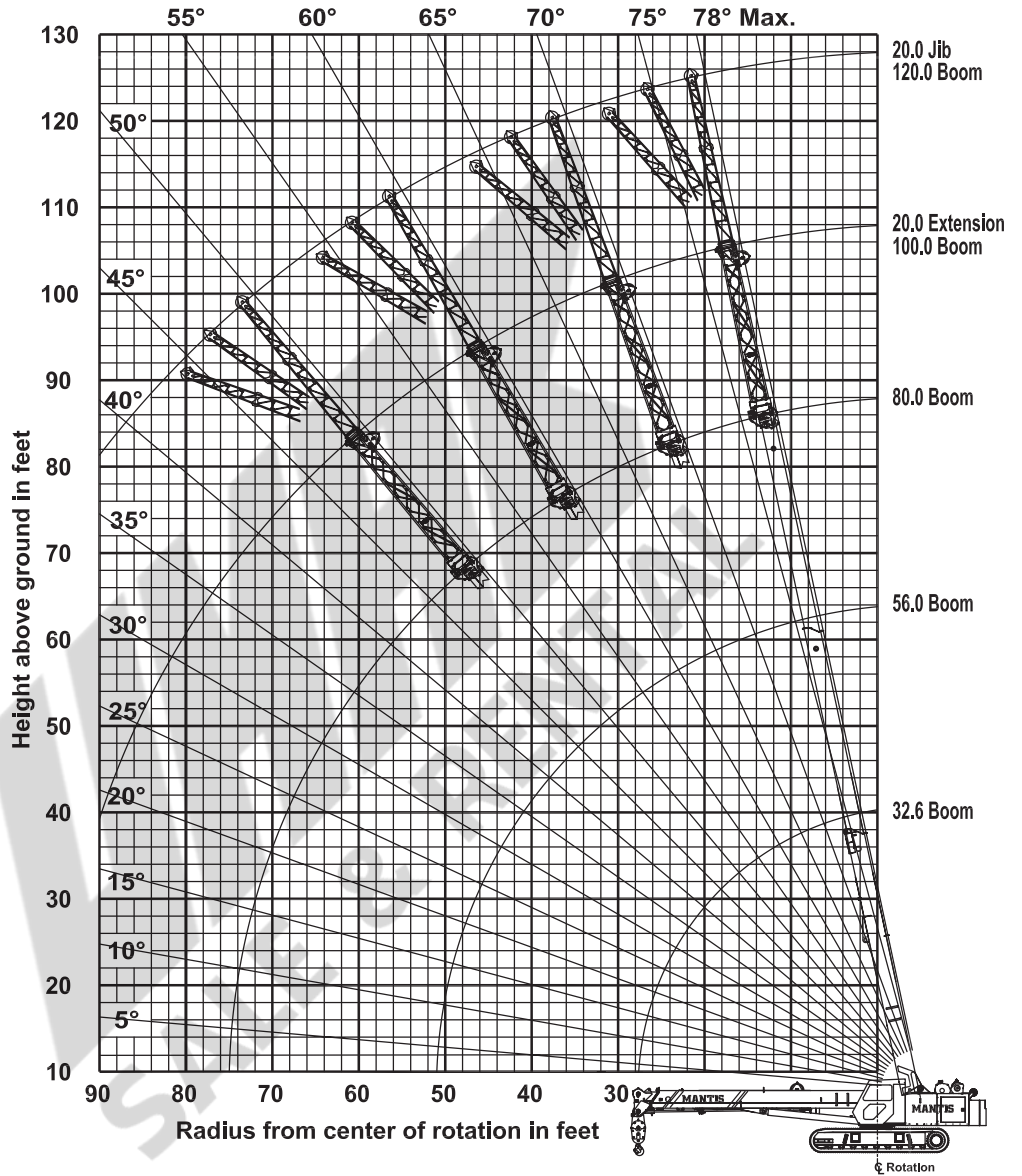
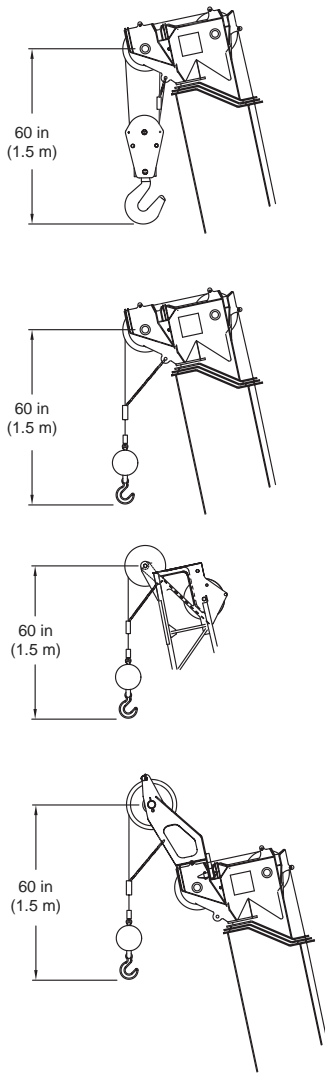


WIDTHS, WEIGHTS, AND GROUND PRESSURES*

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



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.

LOAD CHARTS

360 DEGREE RATING - LOADS IN lb x 1000

MAIN BOOM with TRACKS FULLY EXTENDED															
11,500 lb COUNTERWEIGHT								ZERO COUNTERWEIGHT							
RADIUS (ft)	MAIN BOOM LENGTH (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	
8	60.0	48.0	47.6*					60.0	48.0	47.6*					8
	71.8°	75.5°	77.9°					71.8°	75.5°	77.9°					8
10	60.0	48.0	47.6	44.9*				53.0	48.0	47.6	44.9*				10
	67.9°	72.5°	75.5°	77.6°				67.9°	72.5°	75.5°	77.6°				10
12	56.0	48.0	47.6	40.5	34.2*			35.4	35.7	35.9	36.0	34.2*			12
	63.9°	69.4°	73.0°	75.4°	77.3°			63.9°	69.4°	73.0°	75.4°	77.3°			12
15	38.5	38.7	38.9	35.4	29.8	26.0	22.8*	23.0	25.3	23.5	23.6	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	24.2	24.3	24.4	24.0	21.3	18.7	13.9	14.1	14.2	14.3	14.4	14.4	14.5	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
25	16.9	17.2	17.3	17.3	17.4	17.0	15.8	9.4	9.6	9.8	9.9	9.9	10.0	10.0	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
30		13.0	13.1	13.2	13.2	13.3	13.0		7.0	7.1	7.2	7.3	7.3	7.3	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
35		10.2	10.3	10.4	10.5	10.5	10.5		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			8.4	8.5	8.5	8.5	8.6			4.1	4.2	4.3	4.3	4.4	40
			25.5°	40.1°	48.2°	53.8°	57.9°			25.5°	40.1°	48.2°	53.8°	57.9°	40
45				7.0	7.1	7.1	7.1				3.3	3.4	3.4	3.4	45
				30.6°	41.6°	48.5°	53.4°				30.6°	41.6°	48.5°	53.4°	45
50				5.9	5.9	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°	50
55					5.0	5.1	5.1					2.1	2.1	2.1	55
					23.7°	36.1°	43.5°					23.7°	36.1°	43.5°	55
60						4.3	4.4						1.6	1.7	60
						28.1°	37.8°						28.1°	37.8°	60
65						3.7	3.7						1.3	1.3	65
						16.4°	31.1°						16.4°	31.1°	65
70							3.2							1.0	70
							22.6°							22.6°	70
75								2.8						0.7	75
								4.2°						4.2°	75

* Capacity based on maximum obtainable boom angle.

° Boom angles are stated in degrees.

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LOAD CHARTS

360 DEGREE RATING - LOADS IN lb x 1000

MAIN BOOM with TRACKS FULLY RETRACTED			
11,500 lb COUNTERWEIGHT			
RADIUS (ft)	MAIN BOOM LENGTH (ft)		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						
Boom Angle	20' EXTENSION		20' JIB			Boom Angle
	Total Boom Length (ft)		Jib Offset Angles			
	53.0 to 91.9	92.0 to ?	0°	15°	30°	
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				48°
45°	4.2	2.3				45°

ZERO DEGREE BOOM ANGLE			
MAXIMUM CAPACITY			
with TRACKS FULLY EXTENDED			
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	760 lbs
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.

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LOAD CHARTS

360 DEGREE RATING - LOADS IN lb x 1000

AUXILIARY NOSE SHEAVE with TRACKS FULLY EXTENDED																		
11,500 lb COUNTERWEIGHT								ZERO COUNTERWEIGHT										
RADIUS (ft)	MAIN BOOM LENGTH (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				
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°			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	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°				
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	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°				
30		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°				
35		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°				
40			6.0	6.0	6.0	6.0	6.0			4.1	4.2	4.3	4.3	4.4	40			
			25.5°	40.1°	48.2°	53.8°	57.9°			25.5°	40.1°	48.2°	53.8°	57.9°				
45				6.0	6.0	6.0	6.0				3.3	3.4	3.4	3.4	45			
				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°						23.7°	36.1°	43.5°		
60							4.0	4.0							1.6	1.7	60	
							28.1°	37.8°							28.1°	37.8°		
65								3.4	3.4							1.3	1.3	65
								16.4°	31.1°							16.4°	31.1°	
70									2.9								1.0	70
									22.6°								22.6°	
75										2.5							0.7	75
										4.2°							4.2°	

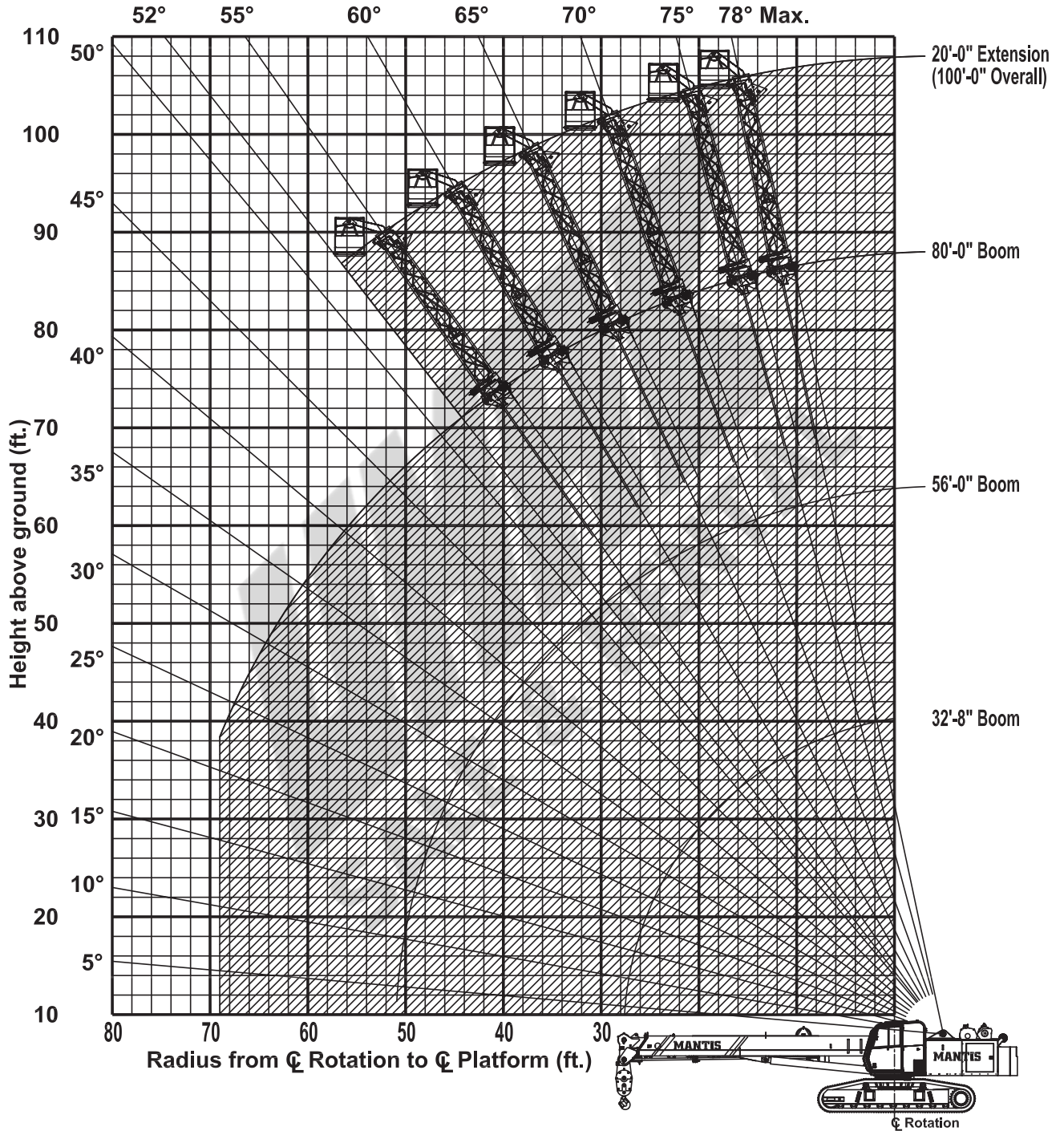
° Boom angles are stated in degrees.

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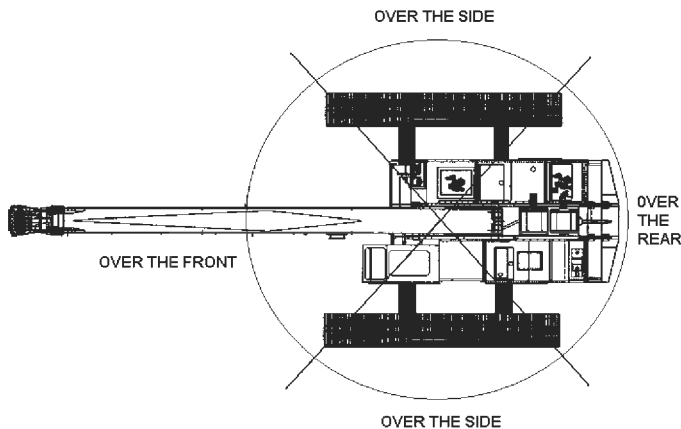
LOAD CHARTS

WP-750 WORK PLATFORM
Installed on MANTIS MODEL 6010
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

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MANTIS MODEL 6010				
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		
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 manufacturer's 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 manufacturer's 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.

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NOTES:

Horizontal lines for notes, including a large diagonal watermark reading 'WMAK SALE & RENTAL'.

TADANO MANTIS CORPORATION

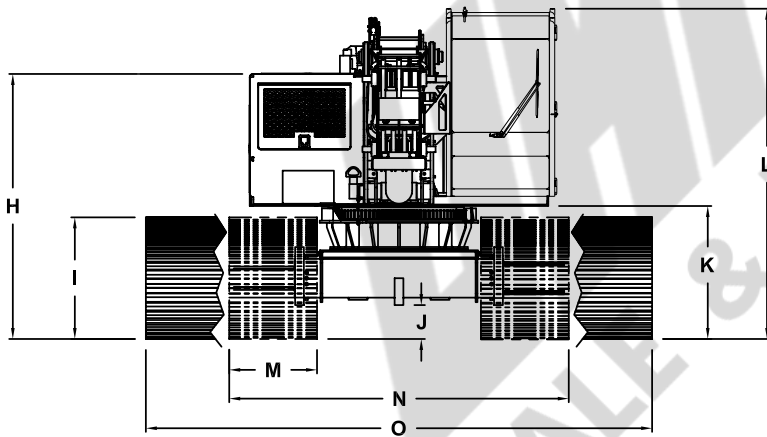
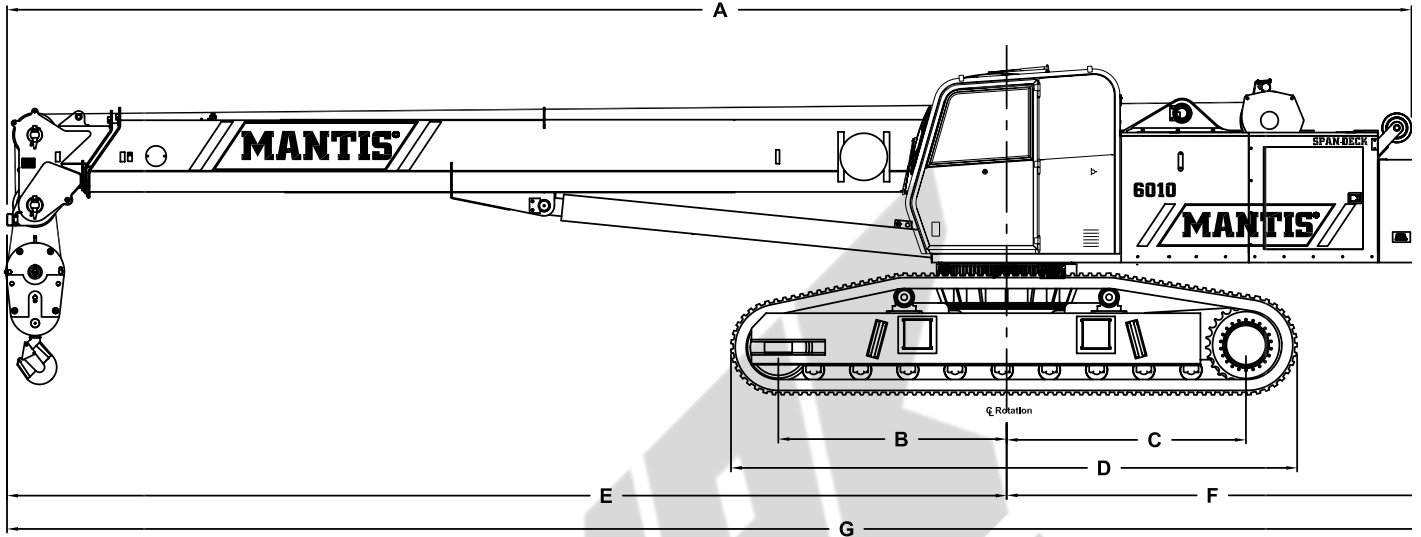
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SPECIFICATIONS

MANTIS® 6010 30 TON TELE-BOOM CRAWLER CRANE



PRINCIPAL DIMENSIONS

Dimension	Description	Value
A	Length (Counterweight Removed)	40 ft 2 in (12.24 m)
B	CL Front Track Drive to CL Rotation	80 in (2.03 m)
C	CL Rear Track Drive to CL Rotation	81 in (2.06 m)
D	Track Length	16 ft 1 in (4.90 m)
E	Boom Length to CL Rotation	28 ft 6 in (8.69 m)
F	Tailswing	12 ft 8 in (3.86 m)
G	Overall Length	41 ft 1 in (12.52 m)
H	Ground to Top of Engine Cover	90 in (2.29 m)
I	Track Height	42 in (1.07 m)
J	Ground Clearance	11 in (279 mm)
K	Ground to Bottom of Cab	46 in (1.17 m)
L	Maximum Overall Height	9 ft 6 in (2.90 m)
M	Track Width	30 in (762 mm)
N	Overall Width (Tracks Retracted)	10 ft 2 in (3.10 m)
O	Overall Working Width	14 ft 6 in (4.42 m)

WIDTHS, WEIGHTS, AND GROUND PRESSURES*

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

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



SPECIFICATIONS

MANTIS® 6010 30 TON TELE-BOOM CRAWLER CRANE

STANDARD CRANE AND EQUIPMENT

Boom

The boom consists of three full power sections. Retracted length is 32 ft 8 in (9.96 m) and extended length is 80 ft (24.38 m). Maximum tip height is 85 ft (25.91 m).

Boom Telescoping & Elevating Systems

The elevating system features a single cylinder and counterbalance lock valves which provides boom elevations from -1° to 78°.

The telescoping system features a single double-acting hydraulic cylinder and counterbalance lock valves.

Boom Head

Five 15 in (381 mm) diameter cast nylon sheaves on heavy-duty roller bearings are mounted in the boom head.

Load Moment Indicator & Anti-Two Block¹

Standard Rated Capacity Limiter and Anti-Two Block system includes audio and video warnings and control function shutdown. System's LCD screen provides a continuous electronic 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. The standard Work Area Definition audio and video warnings aid the operator in avoiding job-site obstructions by pre-setting and defining the work area. The anti-two block weight allows quick reeving of hook blocks.

SUPERSTRUCTURE

Frame

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

Operator's Cab

The fully-enclosed, air conditioned all-steel modular cab includes a lockable swinging door, acoustical lining, anti-slip floor and tinted safety glass. Sliding windows are located in the cab door and cab boom side. A vent window is positioned in the rear of the cab. Grab bars and steps are appropriately located for easy access to the cab. Erectable swing barricades are attached to the superstructure. Rear view cameras are appropriately located as are work lights.

Standard cab accessories include a two-speed windshield wiper, top glass wiper, defroster, heater, circulating fan, adjustable hand and foot throttles, six-way adjustable fabric seat with headrest, seat belt, dome light, and a dry-chemical fire extinguisher.

Instrumentation

Dash instrumentation features a 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.

A termination switch is located in the seat and armrest and is capable of immediately disabling all hydraulic functions as the operator rises from the seat or it can be activated by lifting the left hand armrest.

Control

Two-way hydraulic joysticks mounted in the armrests of the operator's seat control swing, boom extend, main winch and boom hoist. Three two-way hydraulic foot pedals control the travel and swing service brake functions. Travel pedal hand levers are available as an option. A fourth pedal controls engine speed.

Counterweight

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

Swing

The superstructure rotates 360° on an external gear shear ball slew bearing bolted to the superstructure and the carbody. The hydraulic swing drive powers the system and consists of a gear motor driving a planetary gear reducer with a shaft mounted pinion, providing infinitely variable speeds of up to 3 rpm.

Swing braking is achieved through a "failsafe", hydraulically released, spring applied, multi-disc brake which includes a foot applied service brake. Alternatively, the brake can be electrically actuated through a cab mounted switch into a "locked-on" (parking) mode. A two position house lock system is included. Regular lubrication of the bearing is achieved through a cab mounted grease applicator.

Fuel System

An 80 US gal (303 liter) tank is bolted to the superstructure. The fuel filtration system consists of an inline fuel/water separator as well as an engine mounted fuel filter.

Hydraulic System

The load sensing, open-loop hydraulic system is served by two variable volume pumps mounted in tandem. The pumps are torque limiting and pressure compensated providing a maximum output of 115 gpm (437 l/min) @ 2,200 rpm and maximum operating pressure of 4,850 psi (339.5 kg/cm²). An extra circuit is included for ready adaptation to hydraulic accessories.

The system includes two pilot operated valve banks that are pressure and flow compensated. The 150 US gal (568 liter) capacity hydraulic oil reservoir has a spin-on filler-breather cap, external sight gauge, clean-out access and a sump type drain. Hydraulic oil filtering is achieved with two 5 micron full flow cartridge type filters designed to return in-tank with bypass protection and an electronic bypass indicator.

(System pressure test ports with quick disconnect fittings are provided for diagnostic purposes.)



SPECIFICATIONS

MANTIS® 6010

30 TON TELE-BOOM CRAWLER CRANE

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		Full Load Line Speed		Pitch Diameter		Layer		Total	
	lb	kg	ft/min	m/min	in	mm	ft	m	ft	m
1	11,000	4,990	198	60.4	11.2	284.3	70	21.4	70	21.4
2	10,000	4,540	212	64.6	12.2	309.1	76	23.3	147	44.7
3	9,100	4,130	221	67.4	13.1	333.9	83	25.2	229	69.9
4	8,400	3,810	229	69.8	14.1	358.8	89	27.1	318	97.0
5	7,800	3,540	244	74.4	15.1	383.6	95	28.9	413	125.9
6	7,300	3,310	247	75.3	16.1	408.4	101	30.8	514	156.7
7	6,800	3,080	256	78.0	17.1	433.2	107	32.7	621	189.4

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		Layer		Total	
	lb	kg	ft/min	m/min	in	mm	ft	m	ft	m
1	12,000	5,440	182	55.5	10.3	261.9	66	20.1	66	20.1
2	10,800	4,900	198	60.4	11.3	286.8	72	22.0	138	42.1
3	9,800	4,450	205	62.5	12.3	311.6	79	23.9	217	66.1
4	9,000	4,080	214	65.2	13.2	336.4	85	25.8	302	91.9
5	8,300	3,760	228	69.5	14.2	361.2	91	27.7	393	119.6

STANDARD ENGINE

Cummins QSB173 (U.S. EPA Tier 3)

Noise Emissions: Top 96.3 dBA (excludes noise from intake, exhaust, cooling system and driven components)

Type	6 Cylinder Water Cooled	Weight (Wet)	1005 lb (457 kg)	Aspiration	Turbocharged & Aftercooled
Displacement	359 cu in (5.9 l)	Oil Capacity	17.2 US quarts (16.3 l)	Air Filter	Dry Type
Bore	4.02 in (102 mm)	Rated Horsepower	173 @ 2200 rpm	Electrical System	12 volt
Stroke	4.72 in (120 mm)	Peak Torque	590 ft/lb @ 1500 rpm	Alternator	100 amp

MACHINE WEIGHTS

STANDARD CRANE WITH 3 SECTION 80 ft 0 in (24.38 m) BOOM, 1 PIECE COUNTERWEIGHT & 30 in (762 mm) TRACK SHOES	59,980 lb	27,210 kg
Crane Less Counterweight	48,480 lb	21,990 kg
Counterweight	11,500 lb	5,220 kg
OPTIONAL EQUIPMENT		
20 ft (6.10 m) Lattice Extension	1,200 lb	544 kg
20 ft (6.10 m) Jib (connects to head of Lattice Extension ONLY)	700 lb	318 kg
Auxiliary Nose Sheave	150 lb	68 kg
Auxiliary Winch with Standard Rope	607 lb	275 kg
12 ton (11 mt) Headache Ball	180 lb	82 kg
30 ton (27 mt) Hook Block	760 lb	345 kg
Auger Ready Package	440 lb	200 kg
Complete Auger Package	1,520 lb	690 kg
60 in (1.52 m) Auger Kelly Bar	120 lb	54 kg
72 in (1.83 m) Auger Kelly Bar	140 lb	64 kg
72 in (1.83 m) Auger kelly bar	140 lb	64 kg

* Deduction from Standard Crane Weight



SPECIFICATIONS

MANTIS® 6010 30 TON TELE-BOOM CRAWLER CRANE

UNDERCARRIAGE

Carbody

The steel box type carbody is fabricated with square axles to accept the crawler side frames. The top surface is precision machined to receive the swing bearing.

Side Frames

Two welded steel side frames are paired with a track group consisting of nine sealed rollers located on the bottom of the frame. Each frame includes a self-lubricating idler and spring type track tensioning device. Standard track shoes are 30 in (762 mm) wide, 3-bar semi-grousers. Optional shoes are available in 18 in (457 mm) and 24 in (609 mm) widths in both flat pad and semi-grouser configurations. Flat pads are also available in 30 in widths. The side frames extend and retract hydraulically and are controlled from the cab.

Travel

Each side frame contains a pilot controlled, two-speed track drive. The drives are hydraulic piston motors which propel the crane at a low speed of 2.0 mph (3.2 km/hr) and at a high speed of 3.0 mph (4.8 km/hr). The internal brake system is spring applied and automatically released upon actuation of the travel system.

The hydraulic travel system provides skid steering and track counter rotation and achieves an unladen gradeability of 56%.

OPTIONAL EQUIPMENT

Boom Attachments

- **Boom Extension:** 20 ft (6.10 m), lattice type swingaway that stores alongside of the boom base section and can be used with or without the optional 20 ft (6.10 m) jib. Head contains two 19 in (483 mm) diameter high strength cast nylon sheaves mounted on heavy-duty roller bearings, reeving up to 2 parts of wire rope. With optional extension deployed maximum tip height is 102 ft (31.09 m).
- **Boom Jib:** 20 ft (6.10 m) lattice type swingaway, attaches to and stores alongside the extension and can only be used with the extension deployed. Offsets are at 15° & 30°. With jib and extension deployed maximum tip height is 124 ft (37.80 m).
- **Auxiliary Nose Sheave:** quick reeve, single 15 in (381 mm) diameter high-strength, cast nylon sheave mounted on a heavy-duty roller bearing.
- **Wire Rope:** rotation resistant, (non-spin) Dyform-18 HSLR.
- **Headache Ball:** 7 ton (11 mt) ball includes a swivel hook with a safety latch.
- **Hook Block:** 37 ton (27 mt) hook block contains three 16 in (406 mm) diameter sheaves mounted on heavy-duty roller bearings with a swivel hook and safety latch.

Hydraulic

- **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 in (1.52 m) kelly bar to the Auger Ready Package.
- **Tool Circuit:** provides 6 gpm (23 l/min) and 12 gpm (45 l/min) at 2,500 psi (176 kg/cm²) through a 50 ft (15.24 m) twin hose reel with quick disconnect fittings to operate open center tools.

Other Options

- **Free Fall Hoists:** all winches are available in free fall and controlled free fall configurations.
- **Crane Cab Access Walkway:** a pair of 54.5 in (1.38 m) wide x 25 in (635 mm) deep walkways which attach to both the front and rear of the carbody and allow for easier egress and ingress to the operator's cab when the crane's upper rotating frame is not aligned front to rear.
- **Model WP750 Work Platform:** 36 in x 72 in (914 mm x 1 828 mm), all-steel, two-person platform with a maximum capacity of 750 lb (340 kg). A test weight and boom head adapter are included in the package. Operation and control are by the crane operator from the cab. Radio (RF) controls to enable remote operation from the platform are available.

(See separate WP750 Specification for a complete description of standard and optional Work Platform equipment.)