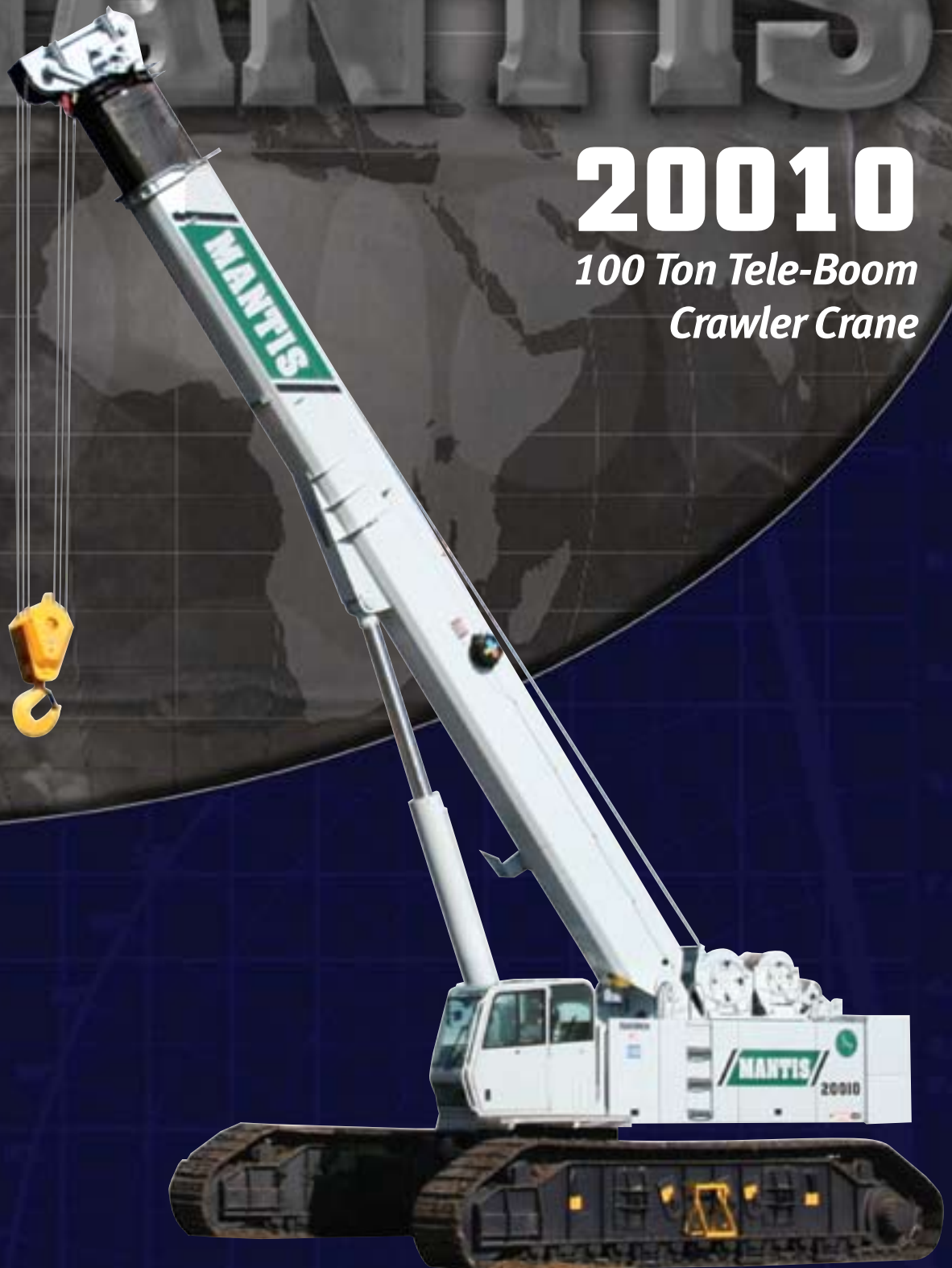


MANTIS[®]

20010

*100 Ton Tele-Boom
Crawler Crane*



SPECIFICATIONS & LOAD CHARTS

Pure Excellence... *any way you like it.*

For over thirty years, Mantis telescopic boom crawler cranes have set the global standard with the dependability, versatility and performance expected of a market leader. Mantis cranes are built like no other. At their hearts, are massive steel fabrications, over-sized to handle the toughest jobs, year-in and year-out. Powerful state-of-the-art hydraulics coupled with diesel engines available in a choice of sizes match perfectly to meet the most rigorous of project demands.

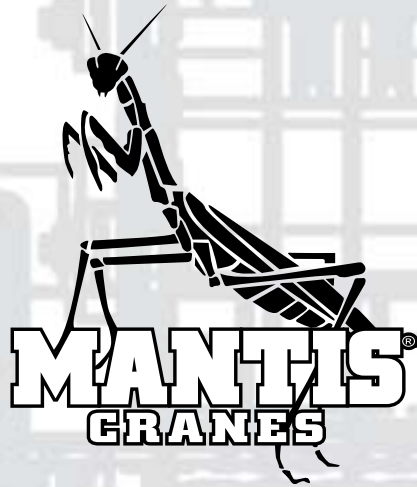
Mantis remains one of the few crane makers prepared and equipped to work with contractors and project engineers to develop customized lifting solutions that meet the most unusual of project challenges. Thanks to the versatile combination of heavy duty telescopic booms, hydraulically extendable crawlers, and extremely compact dimensions, Mantis cranes can often get closer to a job than bulkier, fixed length lattice boom crawler cranes or rubber-tired cranes that need outriggers to work effectively.

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 its low clearance height, retract on-the-fly tracks and telescopic boom.
- Independent hydrostatic track drive allows pivot turns to run rings around RTs.
- Hydraulic tool circuit option powers wide choice of Mantis-approved tools.
- New luxury cab with state-of-the-art operator aids.
- Saves time and money on deployment and shipping with less haul vehicles, less time wasted on boom erection and fewer personnel on the erection crew.



MANTIS



20010

MANTIS® 20010 100 TON TELE-BOOM CRAWLER CRANE

Durability...Dependability...100 ton capacity. The 20010 joins the Mantis product line with all of the features that are expected from a Mantis crawler crane as well as higher capacities and a longer boom. The 20010 has quickly found a home in transmission line construction, alternative energy and a variety of general construction projects.

KEY FEATURES INCLUDE:

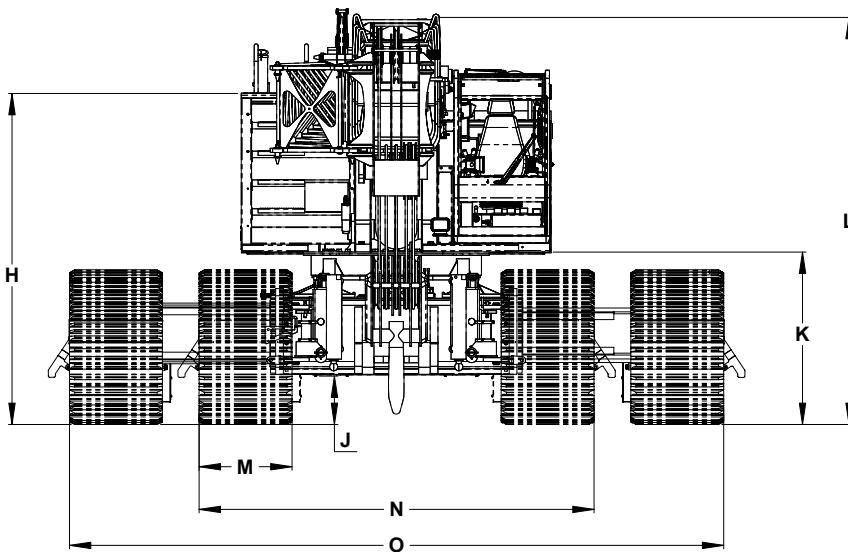
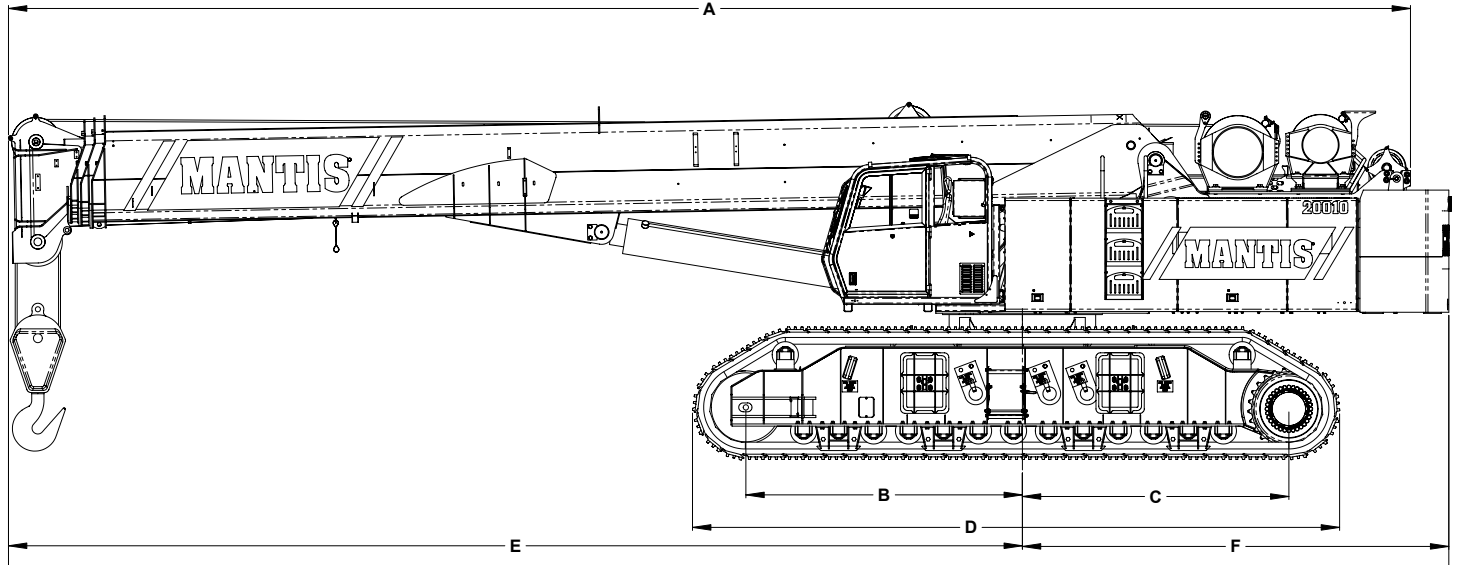
- 100-tons (90-tonnes) pick-and-carry capacity at 10ft (3m) radius thru 360°.
- Sequence-synchronized four-section full power boom of 128ft (39.01m) length.
- Lattice boom extensions and offsettable jibs for up to 196ft (59.7m) tip height.
- 350 hp (261kW) diesel engine standard.
- Low ground bearing pressure of 11.4 psi (0.80 kg/cm²).
- Mantis-engineered in-situ auger options with optional hydraulic tool circuit.
- Fast two-speed independent hydrostatic track drive to 1.26 mph (2.03 km/hr).
- Steep 60% gradeability.
- Full boom telescoping and boom lift under full hook load.
- 12ft 11ins (3.93m) minimum travel width
- Tilting cab for increased operator comfort and reduced fatigue.



ALTERNATIVE ENERGY

The 20010 has been proven as an effective addition to alternative energy project fleets. The full pick and carry capacity and long boom make this crane ideal for handling heavy turbine machinery packages and long wind turbine blades.

MANTIS® 20010 100 TON TELE-BOOM CRAWLER CRANE



PRINCIPAL DIMENSIONS

A	Length (Counterweight Removed)	52 ft 10 in (16.04 m)
B	CL Front Track Drive to CL Rotation	10 ft 4 in (3.15 m)
C	CL Rear Track Drive to CL Rotation	10 ft 0 in (3.05 m)
D	Track Length	24 ft 4 in (7.42 m)
E	Boom Length to CL Rotation	37 ft 6 in (11.43 m)
F	Tailswing	16 ft 0 in (4.88 m)
G	Overall Length	54 ft 0 in (16.46 m)
H	Ground to Top of Engine Cover	10 ft 11 in (3.33 m)
I	Track Height	5 ft 2 in (1.57 m)
J	Ground Clearance	21 in (610 mm)
K	Ground to Bottom of Cab	6 ft 2 in (1.88 m)
L	Maximum Overall Height	13 ft 4 in (3.99 m)
M	Track Width	36 in (900 mm)
N	Overall Width (Tracks Retracted)	12 ft 11 in (3.94 m)
O	Overall Working Width (Tracks Extended)	21 ft 1 in (6.43 m)

WIDTHS, WEIGHTS, AND GROUND PRESSURES*

Shoe Width	Overall Width		Area	Ground Pressure	Working Weight
	Retracted	Extended			
36 in (900 mm)	12 ft 11 in (3.94 m)	21 ft 1 in (6.43 m)	17,640 in ² (11.38 m ²)	11.4 psi (0.80 kg/cm ²)	202,300 lb (91,762 kg)

* Crane equipped with: 128 ft boom, 35 ft extension, 25 ft jib, aux winch, nose sheave, 100 ton hook block and 12 ton headache ball.

SPECIFICATIONS

MANTIS® 20010 100 TON TELE-BOOM CRAWLER CRANE

STANDARD CRANE AND EQUIPMENT

Boom

The full power boom consists of 4 sections, 42 ft (12.80 m) retracted to 128 ft (39.01 m) extended.

Maximum tip height is 137 ft (41.76 m).

Boom Telescoping & Elevating Systems

The telescoping system features two double-acting hydraulic cylinders with counterbalance lock valves. The elevating system features a cylinder and counterbalance lock valve which provide boom elevations from -1° to 80°.

Boom Head

Seven 22 in (559 mm) diameter, cast nylon sheaves on heavy-duty roller bearings are mounted in the boom head.

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 tilts up to 20° and 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, steps and cab walkways are appropriately located for easy access.

Standard cab accessories include a two-speed windshield wiper, top glass wiper, defroster, air conditioner, heater, circulating fan, auto idle and foot throttles, six-way adjustable fabric seat with headrest, seat belt, dome light, and a dry-chemical fire extinguisher. Rear view cameras and work lights are appropriately located.

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.

Termination switches located in the seat and armrest are 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 operator's seat armrests control swing, auxiliary hoist, main winch and boom hoist. Four foot pedals with travel pedal hand levers, control travel, swing service brake and boom telescoping functions. A fifth pedal controls engine speed.

Counterweight

The 35,240 lb (15,985 kg) counterweight system consists of two pieces. Removal and installation is accomplished with a specially designed counterweight cylinder and pendant.

Load Moment Indicator & Anti-Two Block¹

Standard Rated Capacity Limiter and Anti-Two Block system with audio-visual warning 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 configuration, relative load moment, maximum permissible load and actual load.

The standard Work Area Definition system allows the operator to pre-set and define working areas. Should pre-set limits be approached, audio-visual warnings aid the operator in avoiding job-site obstructions. The anti-two block weight allows quick reeving of hook blocks.

Swing

The superstructure rotates 360° on a shear ball slew bearing with an internal gear that matches with the swing drive pinions and bolts to the superstructure and the carbody. Dual hydraulic swing drives power the system and consist of gear motors driving planetary reducers with a shaft mounted pinion providing infinitely variable speeds of up to 2 rpm.

Swing braking is achieved through a "failsafe", hydraulically released, spring applied, multi-disc wet brake which includes a foot applied service brake. The brake can be electrically actuated through a cab mounted switch into a "locked-on" (parking) mode. A four position house lock system is included. Visible swing strobes and an audible alarm are attached to the superstructure to aid in creating a safe work environment. Regular lubrication of the bearing is achieved through a cab mounted grease applicator.

Fuel System

A 165 US gal (625 l) tank is bolted to the superstructure. The fuel filtration system consists of an inline fuel filter that meets or exceeds the requirements set forth by the engine OEM.

Hydraulic System

The load sensing, open-loop hydraulic system is served by two variable volume pumps mounted in tandem. The pump control includes electronic maximum horsepower regulation which adjusts pump flow output so that engine power capabilities are not exceeded in high demand applications. The maximum pump output is 210 gpm (795 l/min) @ 2,100 rpm and maximum operating pressure is 4800 psi (330 bar). An extra circuit is included for ready adaptation to hydraulic accessories.

The system includes pilot operated valve banks that are pressure and flow compensated. The US 370 gal (1400 l) capacity hydraulic oil reservoir has a spin-on filler-breather cap, external sight gauge, clean-out access and a sump type drain. An air to oil remote mounted heat exchanger provides oil cooling. The hydrostatic fan drive is thermostatically controlled to provide cooling capacity matched to load requirements. Hydraulic oil filtering is achieved with three 5 micron full flow in-tank return filters with bypass protection and an electronic bypass indicator.

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

MANTIS® 20010 100 TON TELE-BOOM CRAWLER CRANE

MAIN HOIST

Planetary geared two-speed winch includes a bent axis, variable displacement hydraulic motor and a multi-disc internal brake.
Wire Rope: 1000 ft (305 m) 7/8 in (22 mm) 6 x 37 EIPS, IWRC, RRL. Line pulls are not based on wire rope strength.

Rope Layer	Maximum Line Pull		No Load Line Speed		Full Load Line Speed		Pitch Diameter		Layer		Total	
	lb	kN	ft/min	m/min	ft/min	m/min	in	mm	ft	m	ft	m
1	24,000	106.8	238	72.5	125	38.1	18.8	477.5	133	40.5	133	40.5
2	21,950	97.6	260	79.2	137	41.8	20.6	524.0	145	44.2	278	84.7
3	20,240	90.0	282	86.0	148	45.1	22.4	568.5	157	47.9	435	132.6
4	18,770	83.5	304	92.7	160	48.8	24.1	612.9	169	51.5	604	184.1
5	17,500	77.8	326	99.4	172	52.4	25.9	657.4	182	55.5	786	239.6
6	16,390	72.9	348	106.1	183	55.8	27.6	701.8	194	59.1	980	298.7
7	15,415	68.6	370	131.1	195	59.4	29.4	686.4	207	57.5	1187	342.8
8	14,550	64.7	392	119.5	206	62.8	31.1	790	218	66.4	1405	428.2

AUXILIARY HOIST

Planetary geared two-speed winch includes a bent axis, variable displacement hydraulic motor and a multi-disc internal brake.
Wire Rope: 600 ft (137 m) 7/8 in (22 mm) 6 x 37 EIPS, IWRC, RRL. Line pulls are not based on wire rope strength.

Rope Layer	Maximum Line Pull		No Load Line Speed		Full Load Line Speed		Pitch Diameter		Layer		Total	
	lb	kN	ft/min	m/min	ft/min	m/min	in	mm	ft	m	ft	m
1	18,710	83.2	347	105.8	162	49.4	16.8	426.7	117	35.7	117	35.7
2	17,130	76.2	372	113.4	174	53.0	17.6	447.0	123	37.5	240	73.2
3	15,790	70.2	389	118.6	181	55.2	18.3	464.8	128	38.9	368	112.1
4	14,650	65.2	405	123.4	189	57.6	19.1	485.1	133	40.6	501	152.8
5	13,660	60.8	430	131.1	200	61.0	19.9	505.5	139	42.3	640	195.1
6	12,800	56.9	438	133.5	204	62.2	20.7	525.8	145	44.0	785	239.2

STANDARD ENGINE

Cummins QSM11 (U.S. EPA Tier 3)

Noise Emissions: Engine top 101.2 dBA (excludes noise from intake, exhaust, cooling system and driven components). Consult Mantis Cranes for crane noise emissions.

Type	6 Cylinder Water Cooled	Weight (Wet)	2,170 lb (984 kg)	Aspiration	Turbocharged & Air Cooled
Displacement	660 cu in (10.8 l)	Oil Capacity	17.2 US quarts (16.3 l)	Air filter	Dry Type
Bore	4.92 in (125 mm)	Rated Horsepower	350 hp (261 kw) @ 2100 rpm	Electrical	12 volt
Stroke	5.79 in (147 mm)	Peak Torque	1235 ft-lb (1675 Nm) @ 1400 rpm	Alternator	130 amp

MACHINE WEIGHTS

STANDARD CRANE WITH 4 SECTION 128 ft (39.01 m) BOOM, 2 PIECE COUNTERWEIGHT & 36 in (914 mm) TRACK SHOES	192,985 lb	87,537 kg
POWER UNIT: Crane Less Counterweights and Track Frames	100,745 lb	45,699 kg
Counterweight, 2 pieces [1 piece @ 18,100 lb (8,210 kg) and 1 piece @ 17,140 lb (7,775 kg)]	35,240 lb	15,984 kg
Track Frames, 2 pieces [each 28,500 lb (12,927 kg)]	57,000 lb	25,854 kg
OPTIONAL EQUIPMENT		
35 ft (10.67 m) Lattice Extension	2,545 lb	1,154 kg
25 ft (7.62 m) Jib (connects to head of Lattice Extension ONLY)	836 lb	379 kg
Auxiliary Winch with Standard Rope	2,602 lb	1,180 kg
Auxiliary Nose Sheave	250 lb	113 kg
12 ton (11 mt) Headache Ball	585 lb	270 kg
100 ton (91 mt) Hook Block	2,500 lb	1,134 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	50 kg

SPECIFICATIONS

MANTIS® 20010 100 TON TELE-BOOM CRAWLER CRANE

UNDERCARRIAGE

Carbody

The welded 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 removable side frames are paired with a track group consisting of thirteen bottom and two top oil-filled and sealed rollers. Each frame includes an oil-filled, self-lubricating idler and hydraulic, track tensioning device. Standard track shoes are 36 in (900 mm) wide, 3-bar semi-grousers. The side frames extend and retract hydraulically and are electrically 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 0.44 mph (0.71 km/hr) and at a high speed of 1.26 mph (2.03 km/hr). The internal parking 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 60%.

OPTIONAL EQUIPMENT

Boom Attachments

- **Boom Extension:** 35 ft (10.67 m) lattice type swingaway, stores alongside of the boom base section and used with or without the optional 25 ft (7.62 m) jib. Head contains two 22 in (559 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 172 ft (52.43 m).
- **Boom Jib:** 25 ft (7.62 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 optional jib and extension deployed maximum tip height is 196 ft 6 in (59.89 m).
- **Auxiliary Nose Sheave:** quick reeve, single 22 in (559 mm) diameter high-strength, cast nylon sheave mounted on a heavy-duty roller bearing boom tip adapter.
- **Wire Rope:** rotation resistant, (non-spin) Flex x35 or equivalent.
- **Headache Ball:** 12 ton (11 mt) ball includes a swivel hook with safety latch.
- **Hook Block:** 100 ton (91 mt) hook block consists of five 20 in (508 mm) diameter sheaves mounted on heavy-duty roller bearings with a swivel hook and safety latch.

Hydraulic

- **Auxiliary Hoist:** planetary geared two-speed winch includes a bent axis, variable displacement hydraulic motor and a multi-disc internal brake with a choice of either 18,700 lb (83.2 kN) or 24,000 lb (106.8 kN) line pull.
- **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 5 gpm (19 l/min) and 10 gpm (38 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

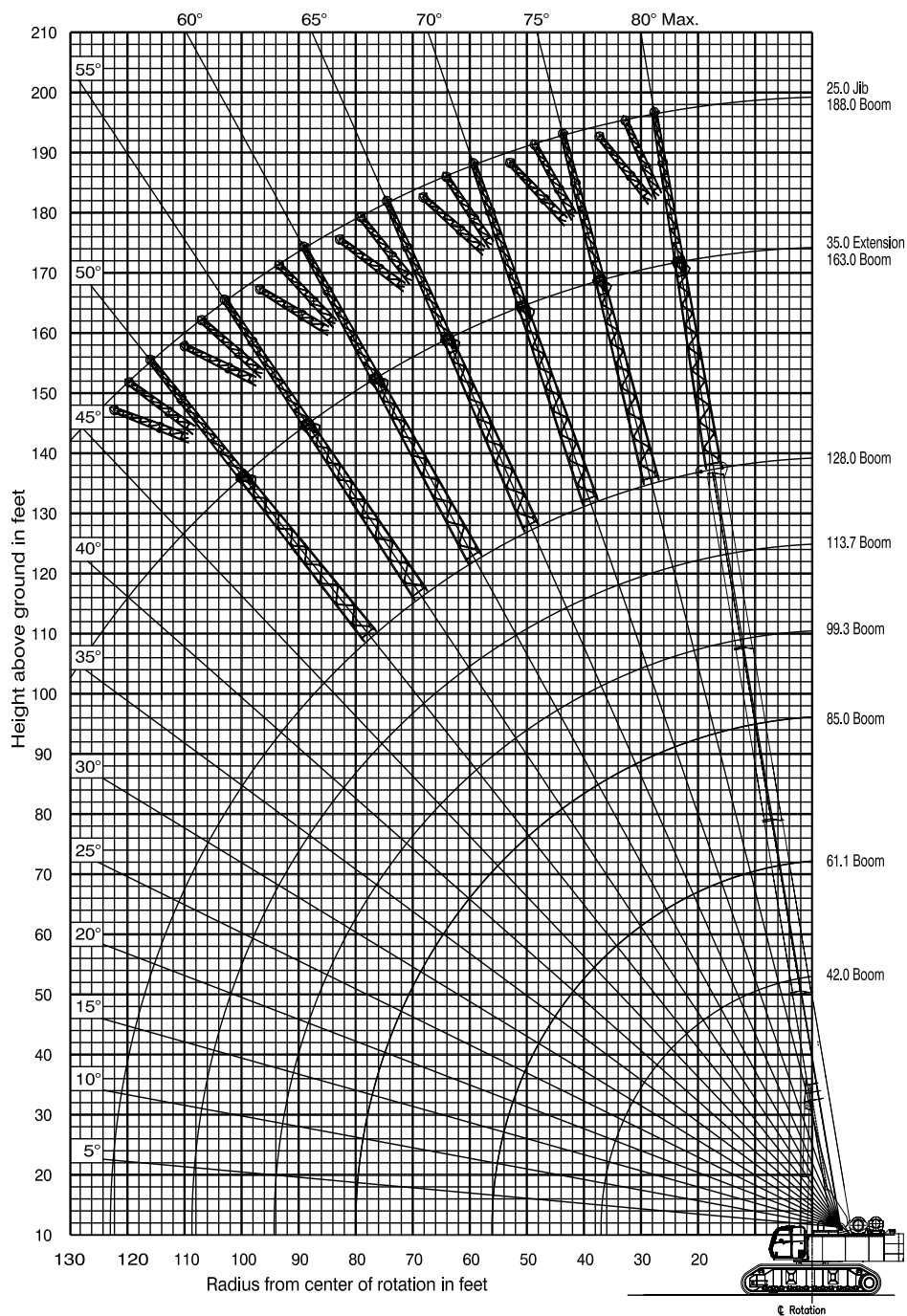
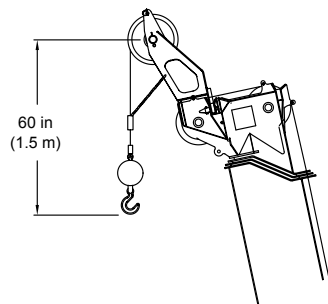
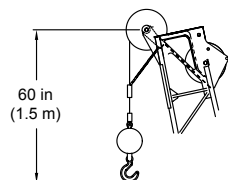
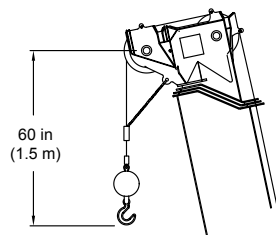
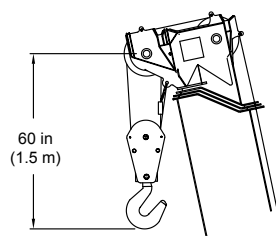
- **Free Fall Hoists:** all winches are available in controlled free fall configurations.
- **Model WP750 Work Platform:** 36 in x 72 in (914 mm x 1 828 mm), all-steel, welded, two-person platform with a maximum capacity of 750 lb (340 kg). A test weight and boom head adapter are included in the package. 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.)

*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 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.

MANTIS® 20010 100 TON TELE-BOOM CRAWLER CRANE

128 FT MAIN BOOM, 35 FT EXTENSION & 25 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 OPERATOR'S MANUAL FURNISHED WITH THE CRANE.

LOAD CHARTS

LIFTING CAPACITIES

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

MAIN BOOM with TRACKS FULLY EXTENDED																											
35,240 lb COUNTERWEIGHT									18,100 lb COUNTERWEIGHT									ZERO COUNTERWEIGHT									
RADIUS (ft)	MAIN BOOM LENGTH (ft)								MAIN BOOM LENGTH (ft)								MAIN BOOM LENGTH (ft)								RADIUS (ft)		
	42.0	51.6	61.1	70.7	85.0	99.3	113.7	128.0	42.0	51.6	61.1	70.7	85.0	99.3	113.7	128.0	42.0	51.6	61.1	70.7	85.0	99.3	113.7	128.0			
10	200.0	140.0	120.0	96.0					200.0	140.0	120.0	96.0					200.0	140.0	120.0	96.0					10		
	72.3°	75.7°	78.0°	79.6°					72.3°	75.7°	78.0°	79.6°					72.3°	75.7°	78.0°	79.6°							
12	172.0	132.0	109.0	86.0	70.0				172.0	132.0	109.0	86.0	70.0				172.0	132.0	109.0	86.0	70.0				12		
	69.3°	73.3°	76.0°	78.0°	80.0°				69.3°	73.3°	76.0°	78.0°	80.0°				69.3°	73.3°	76.0°	78.0°	80.0°						
15	155.0	120.0	95.0	75.0	64.0	50.0			155.0	120.0	95.0	75.0	64.0	50.0			154.1	120.0	95.0	75.0	64.0	50.0			15		
	64.8°	69.8°	73.1°	75.4°	78.0°	79.7°			64.8°	69.8°	73.1°	75.4°	78.0°	79.7°			64.8°	69.8°	73.1°	75.4°	78.0°	79.7°					
20	129.0	100.0	78.0	61.0	53.0	47.0	45.0	40.0	125.0	100.0	78.0	61.0	53.0	47.0	45.0	40.0	100.4	100.0	78.0	61.0	53.0	47.0	45.0	40.0	20		
	56.7°	63.6°	68.0°	71.2°	74.5°	76.8°	78.5°	79.8°	56.7°	63.6°	68.0°	71.2°	74.5°	76.8°	78.5°	79.8°	56.7°	63.6°	68.0°	71.2°	74.5°	76.8°	78.5°	79.8°			
25	112.2	90.0	70.0	55.0	46.0	44.0	42.0	37.5	89.5	88.6	70.0	55.0	46.0	44.0	42.0	37.5	68.9	68.2	67.5	55.0	46.0	44.0	42.0	37.5	25		
	47.7°	57.0°	62.8°	66.8°	70.9°	73.8°	75.9°	77.5°	47.7°	57.0°	62.8°	66.8°	70.9°	73.8°	75.9°	77.5°	47.7°	57.0°	62.8°	66.8°	70.9°	73.8°	75.9°	77.5°			
30	79.6	78.9	62.0	49.0	43.0	41.5	38.0	35.0	63.7	62.8	62.0	49.0	43.0	41.5	38.0	35.0	49.2	48.4	48.1	47.9	43.0	41.5	38.0	35.0	30		
	36.8°	49.9°	57.3°	62.2°	67.3°	70.7°	73.2°	75.2°	36.8°	49.9°	57.3°	62.2°	67.3°	70.7°	73.2°	75.2°	36.8°	49.9°	57.3°	62.2°	67.3°	70.7°	73.2°	75.2°			
35	65.2	64.5	54.0	42.0	37.5	35.5	33.5	32.5	48.3	47.5	46.9	42.0	37.5	35.5	33.5	32.5	36.3	36.5	36.7	36.9	37.2	35.5	33.5	32.5	35		
	21.2°	41.8°	51.3°	57.4°	63.5°	67.6°	70.6°	72.8°	21.2°	41.8°	51.3°	57.4°	63.5°	67.6°	70.6°	72.8°	21.2°	41.8°	51.3°	57.4°	63.5°	67.6°	70.6°	72.8°			
40	47.0	46.5	37.0	35.0	34.2	30.0	29.0		37.6	37.3	36.9	35.0	34.2	30.0	29.0		27.3	26.8	26.3	28.1	29.9	30.0	29.0		40		
	31.9°	44.8°	52.3°	59.6°	64.4°	67.9°	70.5°		31.9°	44.8°	52.3°	59.6°	64.4°	67.9°	70.5°		31.9°	44.8°	52.3°	59.6°	64.4°	67.9°	70.5°				
45	38.0	37.6	35.0	33.0	30.6	27.5	26.9		30.4	30.0	29.6	30.5	30.6	27.5	26.9		20.5	20.1	19.7	21.3	23.0	24.6	26.3		45		
	16.9°	37.3°	46.9°	55.5°	61.1°	65.1°	68.0°		16.9°	37.3°	46.9°	55.5°	61.1°	65.1°	68.0°		16.9°	37.3°	46.9°	55.5°	61.1°	65.1°	68.0°				
50			30.8	30.4	31.0	27.0	25.0	24.0			24.0	23.7	24.5	25.1	25.0	24.0			15.7	15.4	16.9	18.5	19.4	20.4	50		
			28.1°	40.8°	51.3°	57.7°	62.2°	65.6°			28.1°	40.8°	51.3°	57.7°	62.2°	65.6°			28.1°	40.8°	51.3°	57.7°	62.2°	65.6°			
55			25.3	25.1	25.9	24.8	23.0	21.8			19.6	19.2	20.0	20.7	21.1	21.7			12.6	12.3	13.7	15.2	15.9	16.7	55		
			13.3°	33.8°	46.7°	54.2°	59.3°	63.1°			13.3°	33.8°	46.7°	54.2°	59.3°	63.1°			13.3°	33.8°	46.7°	54.2°	59.3°	63.1°			
60			20.8	22.2	22.8	21.0	19.5				15.8	17.3	18.8	19.0	19.3				10.1	11.3	12.5	13.3	14.1		60		
			25.0°	41.7°	50.5°	56.3°	60.5°				25.0°	41.7°	50.5°	56.3°	60.5°				25.0°	41.7°	50.5°	56.3°	60.5°				
65			17.7	19.3	20.8	19.0	17.8				13.2	14.6	16.1	16.4	16.8				8.4	9.3	10.3	11.1	12.0		65		
			10.0°	36.2°	46.5°	53.2°	57.9°				10.0°	36.2°	46.5°	53.2°	57.9°				10.0°	36.2°	46.5°	53.2°	57.9°				
70			17.2	18.3	17.2	16.0					12.7	13.7	14.4	15.1					7.5	8.4	9.3	10.1			70		
			29.7°	42.3°	49.9°	55.2°					29.7°	42.3°	49.9°	55.2°					29.7°	42.3°	49.9°	55.2°					
75			15.1	16.2	16.0	14.8					10.6	11.7	12.5	13.4					6.0	6.8	7.6	8.5			75		
			21.4°	37.7°	46.4°	52.4°					21.4°	37.7°	46.4°	52.4°					21.4°	37.7°	46.4°	52.4°					
80			13.0	14.1	14.6	13.9					8.9	9.9	10.8	11.8					4.5	5.4	6.2	6.9			80		
			3.3°	32.5°	42.8°	49.4°					3.3°	32.5°	42.8°	49.4°					3.3°	32.5°	42.8°	49.4°					
85					12.3	13.1	12.7						8.5	9.3	10.2							4.2	4.9	5.6		85	
					26.4°	38.8°	46.4°						26.4°	38.8°	46.4°							26.4°	38.8°	46.4°			
90					10.8	11.5	11.8						7.2	8.0	8.8							3.2	3.8	4.4		90	
					18.4°	34.5°	43.1°						18.4°	34.5°	43.1°							18.4°	34.5°	43.1°			
95						10.3	10.7							7.0	7.5									2.9	3.4	95	
						29.6°	39.7°							29.6°	39.7°									29.6°	39.7°		
100						9.0	9.4								5.8	6.3									2.2	2.6	100
						23.7°	35.9°								23.7°	35.9°									23.7°	35.9°	
105						7.9	8.4								4.9	5.4									NR	NR	105
						15.8°	31.8°								15.8°	31.8°									15.8°	31.8°	
110							7.5									4.6									NR	NR	110
							27.1°									27.1°									27.1°		
115							6.6									3.9									NR	NR	115
							21.4°									21.4°									21.4°		
120							5.9									3.3									NR	NR	120
							13.5°									13.5°									13.5°		

* Boom angles are stated in degrees. NR = No Rating for this position



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MANTIS® 20010 100 TON TELE-BOOM CRAWLER CRANE

LIFTING CAPACITIES

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

° Boom angles are stated in degrees.
NR = No Rating for this position.

MAIN BOOM with TRACKS RETRACTED									
35,240 lb COUNTERWEIGHT									
RADIUS (ft)	MAIN BOOM LENGTH (ft)								RADIUS (ft)
	42.0	51.6	61.1	70.7	85.0	99.3	113.7	128.0	
10	200.0	140.0	120.0	96.0					10
	72.3°	75.7°	78.0°	79.6°					
12	169.0	132.0	109.0	86.0	70.0				12
	69.3°	73.3°	76.0°	78.0°	80.0°				
15	124.7	120.0	95.0	75.0	64.0	50.0			15
	64.8°	69.8°	73.1°	75.4°	78.0°	79.7°			
20	80.7	79.1	78.0	61.0	53.0	47.0	45.0	40.0	20
	56.7°	63.6°	68.0°	71.2°	74.5°	76.8°	78.5°	79.8°	
25	59.9	58.6	58.0	55.0	46.0	44.0	42.0	37.5	25
	47.7°	57.0°	62.8°	66.8°	70.9°	73.8°	75.9°	77.5°	
30	43.2	42.5	42.3	41.1	43.0	41.5	38.0	35.0	30
	36.8°	49.9°	57.3°	62.2°	67.3°	70.7°	73.2°	75.2°	
35	31.1	30.3	29.7	28.8	30.1	35.5	33.5	32.5	35
	21.2°	41.8°	51.3°	57.4°	63.5°	67.6°	70.6°	72.8°	
40		25.9	25.5	24.6	25.9	27.2	30.0	29.0	40
		31.9°	44.8°	52.3°	59.6°	64.4°	67.9°	70.5°	
45		20.5	20.1	19.4	20.9	22.4	23.0	26.9	45
		16.9°	37.3°	46.9°	55.5°	61.1°	65.1°	68.0°	
50			16.0	15.4	16.9	18.5	19.3	20.0	50
			28.1°	40.8°	51.3°	57.7°	62.2°	65.6°	
55			13.0	12.4	13.8	15.2	15.9	16.5	55
			13.3°	33.8°	46.7°	54.2°	59.3°	63.1°	
60				10.1	11.4	12.6	13.3	13.9	60
				25.0°	41.7°	50.5°	56.3°	60.5°	
65				8.2	9.3	10.5	11.2	11.9	65
				10.0°	36.2°	46.5°	53.2°	57.9°	
70					8.1	8.8	9.5	10.1	70
					29.7°	42.3°	49.9°	55.2°	
75					6.6	7.3	8.0	8.6	75
					21.4°	37.7°	46.4°	52.4°	
80					5.5	6.2	6.8	7.3	80
					3.3°	32.5°	42.8°	49.4°	
85						5.2	5.7	6.1	85
						26.4°	38.8°	46.4°	
90						4.4	4.7	5.0	90
						18.4°	34.5°	43.1°	
95							3.6	4.1	95
							29.6°	39.7°	
100							2.9	3.3	100
							23.7°	35.9°	
105							2.3	2.6	105
							15.8°	31.8°	
110								2.1	110
								27.1°	
115								NR	115
								21.4°	
120								NR	120
								13.5°	



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LOAD CHARTS

LIFTING CAPACITIES

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

AUXILIARY NOSE SHEAVE with TRACKS FULLY EXTENDED																										
35,240 lb COUNTERWEIGHT									18,100 lb COUNTERWEIGHT									ZERO COUNTERWEIGHT								
RADIUS (ft)	MAIN BOOM LENGTH (ft)								MAIN BOOM LENGTH (ft)								MAIN BOOM LENGTH (ft)								RADIUS (ft)	
	42.0	51.6	61.1	70.7	85.0	99.3	113.7	128.0	42.0	51.6	61.1	70.7	85.0	99.3	113.7	128.0	42.0	51.6	61.1	70.7	85.0	99.3	113.7	128.0		
10	18.0	18.0	18.0	18.0					18.0	18.0	18.0	18.0					18.0	18.0	18.0	18.0					10	
	72.3°	75.7°	78.0°	79.6°					72.3°	75.7°	78.0°	79.6°					72.3°	75.7°	78.0°	79.6°						
12	18.0	18.0	18.0	18.0	18.0				18.0	18.0	18.0	18.0	18.0				18.0	18.0	18.0	18.0	18.0				12	
	69.3°	73.3°	76.0°	78.0°	80.0°				69.3°	73.3°	76.0°	78.0°	80.0°				69.3°	73.3°	76.0°	78.0°	80.0°					
15	18.0	18.0	18.0	18.0	18.0	18.0			18.0	18.0	18.0	18.0	18.0	18.0			18.0	18.0	18.0	18.0	18.0	18.0			15	
	64.8°	69.8°	73.1°	75.4°	78.0°	79.7°			64.8°	69.8°	73.1°	75.4°	78.0°	79.7°			64.8°	69.8°	73.1°	75.4°	78.0°	79.7°				
20	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	20	
	56.7°	63.6°	68.0°	71.2°	74.5°	76.8°	78.5°	79.8°	56.7°	63.6°	68.0°	71.2°	74.5°	76.8°	78.5°	79.8°	56.7°	63.6°	68.0°	71.2°	74.5°	76.8°	78.5°	79.8°		
25	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	25	
	47.7°	57.0°	62.8°	66.8°	70.9°	73.8°	75.9°	77.5°	47.7°	57.0°	62.8°	66.8°	70.9°	73.8°	75.9°	77.5°	47.7°	57.0°	62.8°	66.8°	70.9°	73.8°	75.9°	77.5°		
30	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	30	
	36.8°	49.9°	57.3°	62.2°	67.3°	70.7°	73.2°	75.2°	36.8°	49.9°	57.3°	62.2°	67.3°	70.7°	73.2°	75.2°	36.8°	49.9°	57.3°	62.2°	67.3°	70.7°	73.2°	75.2°		
35	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	35	
	21.2°	41.8°	51.3°	57.4°	63.5°	67.6°	70.6°	72.8°	21.2°	41.8°	51.3°	57.4°	63.5°	67.6°	70.6°	72.8°	21.2°	41.8°	51.3°	57.4°	63.5°	67.6°	70.6°	72.8°		
40		18.0	18.0	18.0	18.0	18.0	18.0	18.0		18.0	18.0	18.0	18.0	18.0	18.0	18.0		18.0	18.0	18.0	18.0	18.0	18.0	18.0	40	
		31.9°	44.8°	52.3°	59.6°	64.4°	67.9°	70.5°		31.9°	44.8°	52.3°	59.6°	64.4°	67.9°	70.5°		31.9°	44.8°	52.3°	59.6°	64.4°	67.9°	70.5°		
45		18.0	18.0	18.0	18.0	18.0	18.0	18.0		18.0	18.0	18.0	18.0	18.0	18.0	18.0		18.0	18.0	18.0	18.0	18.0	18.0	18.0	45	
		16.9°	37.3°	46.9°	55.5°	61.1°	65.1°	68.0°		16.9°	37.3°	46.9°	55.5°	61.1°	65.1°	68.0°		16.9°	37.3°	46.9°	55.5°	61.1°	65.1°	68.0°		
50			18.0	18.0	18.0	18.0	18.0	18.0			18.0	18.0	18.0	18.0	18.0	18.0			15.4	15.1	16.6	18.0	18.0	18.0	50	
			28.1°	40.8°	51.3°	57.7°	62.2°	65.6°			28.1°	40.8°	51.3°	57.7°	62.2°	65.6°			28.1°	40.8°	51.3°	57.7°	62.2°	65.6°		
55			18.0	18.0	18.0	18.0	18.0	18.0			18.0	18.0	18.0	18.0	18.0	18.0			12.3	12.0	13.4	14.9	15.6	16.4	55	
			13.3°	33.8°	46.7°	54.2°	59.3°	63.1°			13.3°	33.8°	46.7°	54.2°	59.3°	63.1°			13.3°	33.8°	46.7°	54.2°	59.3°	63.1°		
60				18.0	18.0	18.0	18.0	18.0				15.5	17.0	18.0	18.0	18.0				9.8	11.0	12.2	13.0	13.8	60	
				25.0°	41.7°	50.5°	56.3°	60.5°				25.0°	41.7°	50.5°	56.3°	60.5°				25.0°	41.7°	50.5°	56.3°	60.5°		
65				17.4	18.0	18.0	18.0	18.0				12.9	14.3	15.8	16.1	16.5				8.1	9.0	10.0	10.8	11.7	65	
				10.0°	36.2°	46.5°	53.2°	57.9°				10.0°	36.2°	46.5°	53.2°	57.9°				10.0°	36.2°	46.5°	53.2°	57.9°		
70					16.9	18.0	17.2	16.0					12.3	13.1	14.1	14.8					7.2	8.1	9.0	9.8	70	
					29.7°	42.3°	49.9°	55.2°					29.7°	42.3°	49.9°	55.2°					29.7°	42.3°	49.9°	55.2°		
75					14.8	15.9	15.7	14.8					10.3	11.4	12.2	13.1					5.7	6.5	7.3	8.2	75	
					21.4°	37.7°	46.4°	52.4°					21.4°	37.7°	46.4°	52.4°					21.4°	37.7°	46.4°	52.4°		
80					12.7	13.8	14.3	13.9					8.6	9.6	10.5	11.5					4.2	5.1	5.9	6.6	80	
					3.3°	32.5°	42.8°	49.4°					3.3°	32.5°	42.8°	49.4°					3.3°	32.5°	42.8°	49.4°		
85					12.0	12.8	12.7						8.2	9.0	9.9						3.9	4.6	5.3		85	
					26.4°	38.8°	46.4°						26.4°	38.8°	46.4°						26.4°	38.8°	46.4°			
90					10.0	11.2	11.5						6.9	7.7	8.5						2.9	3.5	4.1		90	
					18.4°	34.5°	43.1°						18.4°	34.5°	43.1°						18.4°	34.5°	43.1°			
95						10.0	10.4							6.7	7.2								2.6	3.1	95	
						29.6°	39.7°							29.6°	39.7°								29.6°	39.7°		
100						8.7	9.1							5.5	6.0								1.9	2.3	100	
						23.7°	35.9°							23.7°	35.9°								23.7°	35.9°		
105						7.6	8.1							4.6	5.1								NR	NR	105	
						15.8°	31.8°							15.8°	31.8°								15.8°	31.8°		
110							7.2								4.3									NR	110	
							27.1°								27.1°									27.1°		
115							6.3								3.6									NR	115	
							21.4°								21.4°									21.4°		
120							5.6								3.0									NR	120	
							13.5°								13.5°									13.5°		

* Boom angles are stated in degrees. NR = No Rating for this position



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LIFTING CAPACITIES

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

AUXILIARY NOSE SHEAVE with TRACKS RETRACTED									
35,240 lb COUNTERWEIGHT									
RADIUS (ft)	MAIN BOOM LENGTH (ft)								RADIUS (ft)
	42.0	51.6	61.1	70.7	85.0	99.3	113.7	128.0	
10	18.0	18.0	18.0	18.0					10
	72.3°	75.7°	78.0°	79.6°					
12	18.0	18.0	18.0	18.0	18.0				12
	69.3°	73.3°	76.0°	78.0°	80.0°				
15	18.0	18.0	18.0	18.0	18.0	18.0			15
	64.8°	69.8°	73.1°	75.4°	78.0°	79.7°			
20	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	20
	56.7°	63.6°	68.0°	71.2°	74.5°	76.8°	78.5°	79.8°	
25	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	25
	47.7°	57.0°	62.8°	66.8°	70.9°	73.8°	75.9°	77.5°	
30	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	30
	36.8°	49.9°	57.3°	62.2°	67.3°	70.7°	73.2°	75.2°	
35	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	35
	21.2°	41.8°	51.3°	57.4°	63.5°	67.6°	70.6°	72.8°	
40		18.0	18.0	18.0	18.0	18.0	18.0	18.0	40
		31.9°	44.8°	52.3°	59.6°	64.4°	67.9°	70.5°	
45		18.0	18.0	18.0	18.0	18.0	18.0	18.0	45
		16.9°	37.3°	46.9°	55.5°	61.1°	65.1°	68.0°	
50			15.7	15.1	16.6	18.0	18.0	18.0	50
			28.1°	40.8°	51.3°	57.7°	62.2°	65.6°	
55			12.7	12.1	13.5	14.9	15.6	16.2	55
			13.3°	33.8°	46.7°	54.2°	59.3°	63.1°	
60				9.8	11.1	12.3	13.0	13.6	60
				25.0°	41.7°	50.5°	56.3°	60.5°	
65				8.0	9.0	10.2	10.9	11.6	65
				10.0°	36.2°	46.5°	53.2°	57.9°	
70				7.8	8.5	9.2	9.8		70
				29.7°	42.3°	49.9°	55.2°		
75				6.3	7.0	7.7	8.3		75
				21.4°	37.7°	46.4°	52.4°		
80				5.2	5.9	6.5	7.0		80
				3.3°	32.5°	42.8°	49.4°		
85				4.9	5.4	5.8			85
				26.4°	38.8°	46.4°			
90				4.1	4.4	4.7			90
				18.4°	34.5°	43.1°			
95					3.3	3.8			95
					29.6°	39.7°			
100					2.6	3.0			100
					23.7°	35.9°			
105					2.0	2.3			105
					15.8°	31.8°			
110						NR			110
						27.1°			
115						NR			115
						21.4°			
120						NR			120
						13.5°			

35' EXTENSION & 25' JIB						
with TRACKS FULLY EXTENDED						
35,240 lb COUNTERWEIGHT						
Boom Angle	35' EXTENSION		25' JIB			Boom Angle
	Total Boom Length		Jib Offset Angles			
	77' to 150'	>150'	0°	15°	30°	
80°	25.0	25.0	12.0	7.3	4.0	80°
78°	18.9	18.9	11.6	6.9	3.8	78°
75°	16.0	16.0	10.2	6.4	3.6	75°
72°	14.0	14.0	9.3	5.8	3.5	72°
70°	12.4	12.4	8.4	5.5	3.3	70°
68°	11.1	11.1	7.6	5.1	3.3	68°
65°	10.0	10.0	7.1	4.7	3.1	65°
62°	9.3	9.3	6.4	4.4	3.1	62°
60°	8.5	8.5	5.8	3.5	2.5	60°
58°	8.1	8.1	4.7	2.4	1.8	58°
55°	7.4	7.4	3.6	1.1	0.7	55°
52°	7.1	7.1	2.4	0.5	0.4	52°
50°	6.8	6.8	2.0	0.4	0.3	50°
48°	6.4	6.1				48°
45°	6.0	5.0				45°

WEIGHT REDUCTIONS	
LOAD HANDLING DEVICES	
HOOKBLOCK: 100 Ton - 5 Sheave	2500
OVERHAUL BALL: 12 Ton w/Swivel	585
OPTIONAL HANDLING DEVICES	
35 ft. Extension - Stowed**	285
35 ft. Extension - Erected**	4115
35 ft. Ext. and 25 ft. Jib - Stowed**	280
35 ft. Ext. and 25 ft. Jib - Erected**	6640
Auxiliary Boom Head**	250
Auger Ready Package**	200
Auger Package Complete - Stowed**	450
Auger Package Complete - Erected**	1120

** Reduction of main boom capacities.
 ° Boom angles are stated in degrees.
 NR = No Rating for this position.

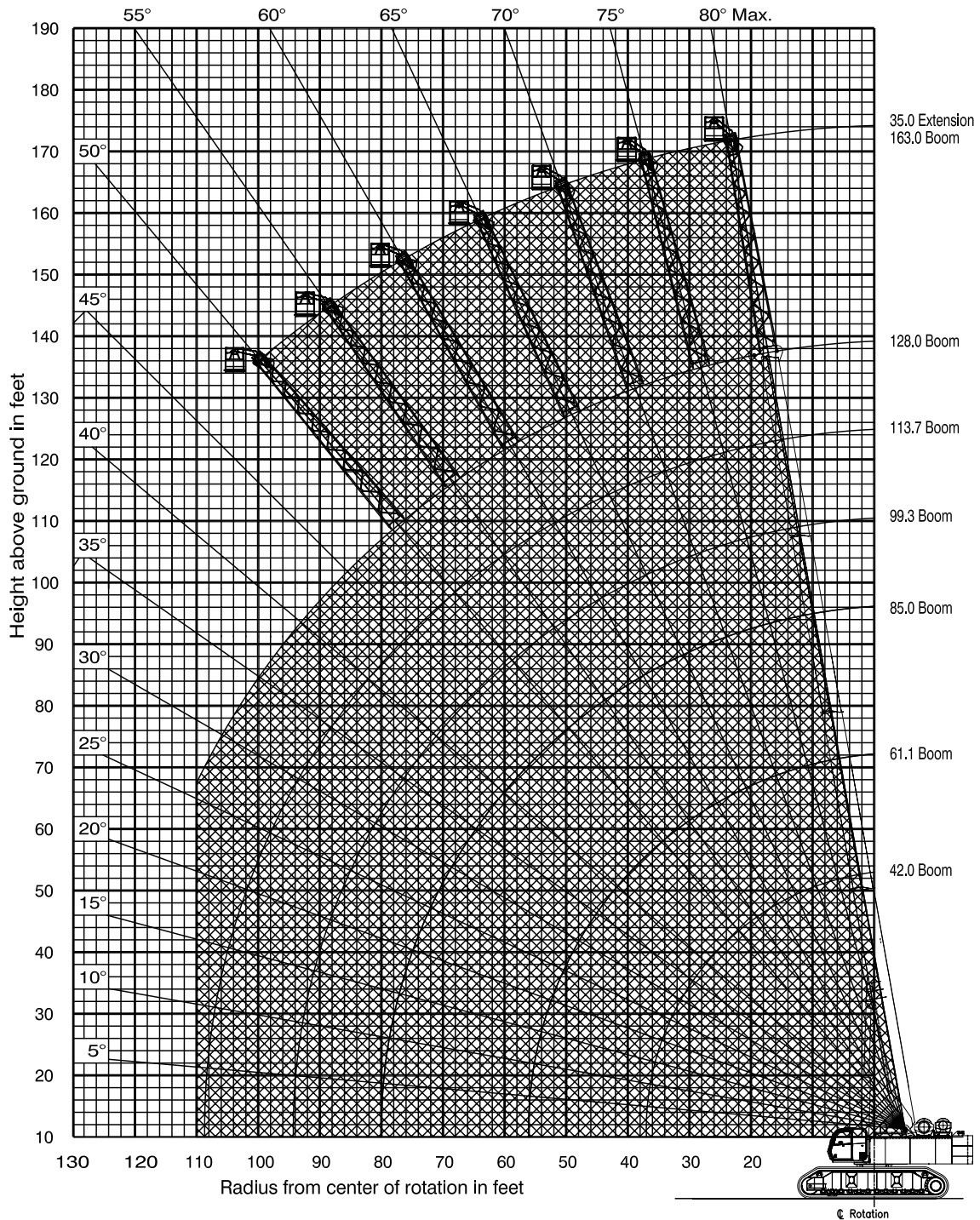


THESE CHART VALUES ARE ONLY A GUIDE AND MUST NOT BE USED TO OPERATE THE CRANE. USE ONLY THE IN CAB LOAD CHARTS AND OPERATOR'S MANUAL FURNISHED WITH THE CRANE.

LOAD CHARTS

MANTIS[®] 20010 100 TON TELE-BOOM CRAWLER CRANE

MANTIS WP-750 WORK PLATFORM

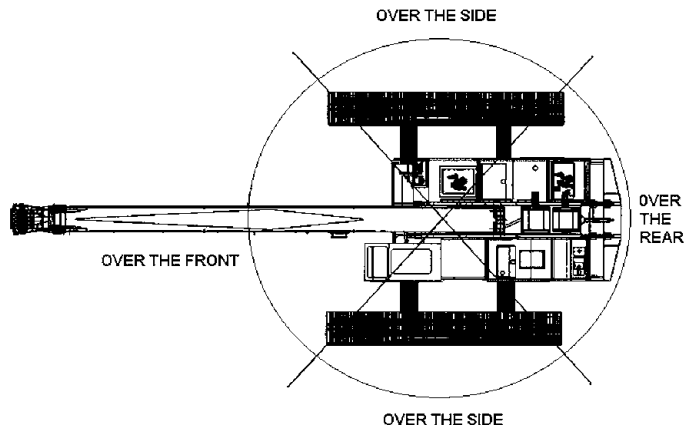


Limits of operation: Maximum load capacity = 750 lb Maximum radius when mounted on main boom = 110 ft



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MANTIS® 20010 100 TON TELE-BOOM CRAWLER CRANE



MANTIS MODEL 20010				
WIRE ROPE LINE PULL CAPACITIES				
PARTS OF LINE	MAIN WINCH (pounds)	AUX WINCH (pounds)	PARTS OF LINE	MAIN WINCH (pounds)
1	22,740	18,700	6	136,440
2	45,480	37,400	7	159,180
3	68,220	N/A	8	181,920
4	90,960	N/A	9	204,660
5	113,700	N/A	10	227,400

7/8 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.

1. This MANTIS CRANE as manufactured, meets the requirements of ASME B30.5. 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.
2. The main boom and auxiliary 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.
4. All rated capacity loads shown apply to original equipment as supplied by SpanDeck, Inc.
5. 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.
7. 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.
9. 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.
12. **DO NOT** exceed manufacturers maximum specified reeving.
13. **DO NOT** lift load or extend boom without proper configuration of crane per load chart selected.
14. **DO NOT** use this chart if wind speed exceeds 20 mph. Consult the manufacturer for specialized load ratings
15. 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.

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.



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MANTIS® PRODUCT LINE

U.S.



3612 - 18 US TON CRAWLER



9010 - 45 US TON CRAWLER



3612LP - 18 US TON CRAWLER



10010Mx - 50 US TON CRAWLER



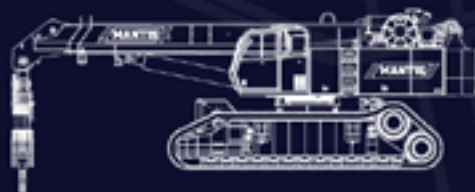
6010 - 30 US TON CRAWLER



14010 - 70 US TON CRAWLER



6010LP - 30 US TON CRAWLER



200RS - 100 US TON CRAWLER



8012 - 40 US TON CRAWLER



20010 - 100 US TON CRAWLER

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