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6010

30 Ton Tele-Boom Crawler Crane



MANTIS[®]
CRANES

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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

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: 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

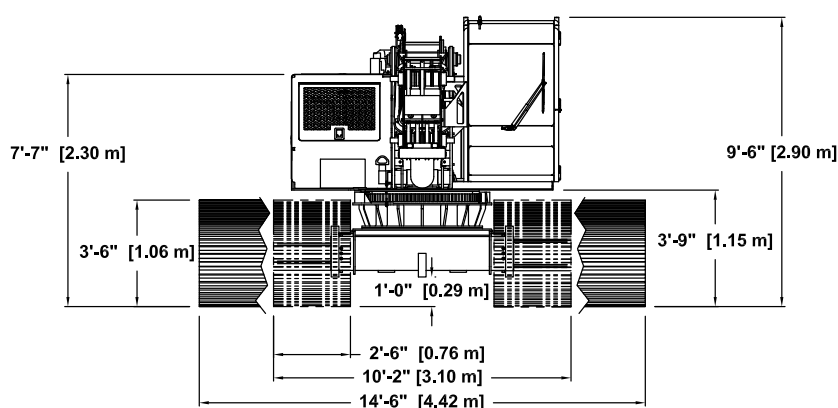
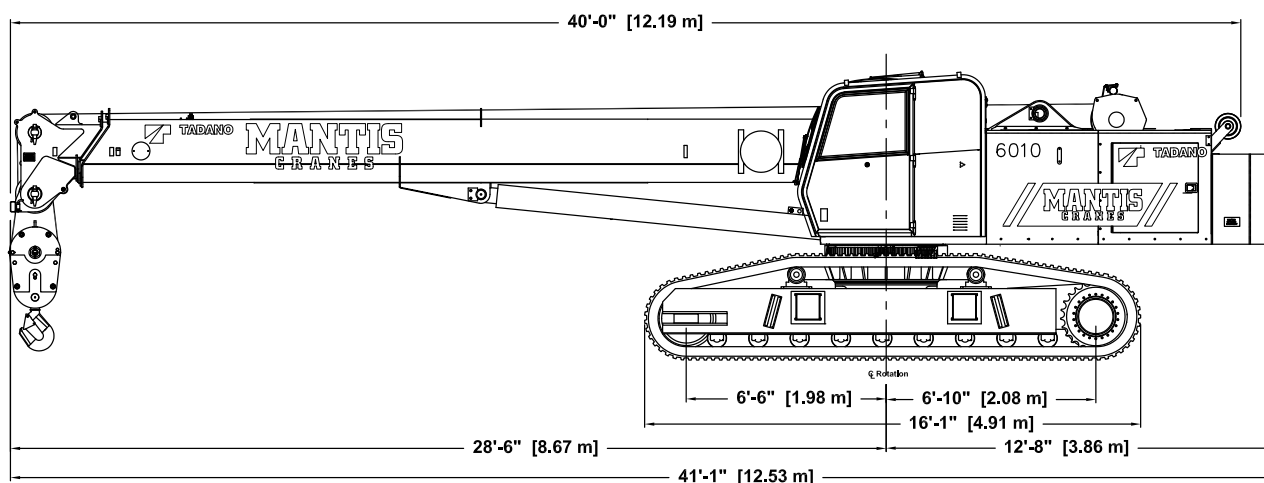
- Boom Extension: Lattice type, swing away
 - Length: 20 ft (6.1m)
 - Head: Two, 19 in (483 mm) diameter cast nylon sheaves on heavy-duty roller bearings
 - Max. Lifting Height: 97 ft (29.6 m)
- Boom Jib: Lattice type, swing away, stores along boom extension
 - Length: 20 ft (6.1m)
 - Offset Angles: 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

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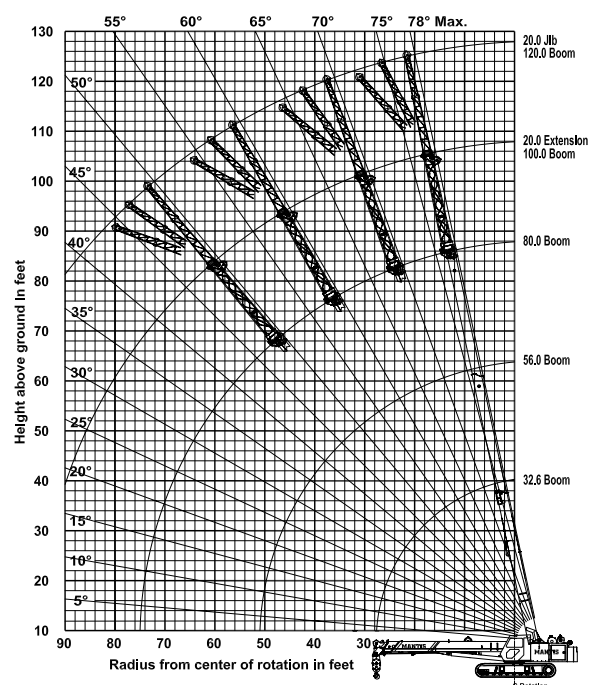


80 FT MAIN BOOM, 20 FT EXTENSION & 20 FT JIB

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