

GTC-400EX

40 METRIC TON CAPACITY



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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

Pictures may contain optional equipment.

OPTIONAL EQUIPMENT

ACCESS WALKWAYS



AUGER KIT AND POLE CLAW



LIGHT BAR AND TOOL CIRCUIT



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.





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



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.



TADANO AML-C rated capacity indicator provides continuous feedback of crane lift position and data.

SPECIFICATIONS

CAPACITY

40t at 3.0m

BOOM

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

- Retracted Length: 10,4 m
 Extended Length: 32,0 m
- Extension Time: 91 s
- Elevating Time: 44 s Elevating Angles: -1° to 78°
- Boom Head: Six, 483 mm diameter cast nylon sheaves on heavy-duty roller bearings (4 load sheaves and 2 lead in sheaves)
- Auxiliary Boom Head: Quick reeve, single 483 mm diameter high-strength, cast nylon sheave mounted on a heavy-duty roller bearing.
- Hook Block: 40t hook block Four 483 mm diameter sheaves mounted on heavy duty roller bearings with swivel hook and safety latch.
- Headache Ball: 11t 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: 16mm x 183m
 - Single line pull: 69,5 kN (first layer)
 - Single line speed: 75,0 m/min (at the 4th layer)
- Auxiliary Winch
 - Rope Diameter and Length: 16mm x 107m
 - Single line pull: 69,5 kN (first layer)
 - Single line speed: 75,0 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.

- Travel Speed (Low/High) 1,3 km/h / 2,1 km/h
- Gradeability (unladen): 68%

LOAD MOMENT INDICATOR & ANTI -TWO BLOCK

TADANO AML-C Rated Capacity Indicator 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 QSB 6.7
- Rating: 194 kW (260 hp) @ 2200 RPM

ELECTRICAL SYSTEM

12 VDC

COUNTERWEIGHT

Total 6,804 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°. Dual mode swing, free/lock selectable.

- 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 variable axial piston pump for cooling loop
- Directional Valves: Multiple pressure and flow compensated valves with integrated relief valves controlled by hydraulic pilot signals.
- Pump output: 583 liter/min @ 2100 RPM engine speed. 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 thirteen bottom sealed rollers on each track frame Idler: Oil filled, self lubricating with spring type tensioner
- Track Shoes: 900mm 3-bar semi grouser

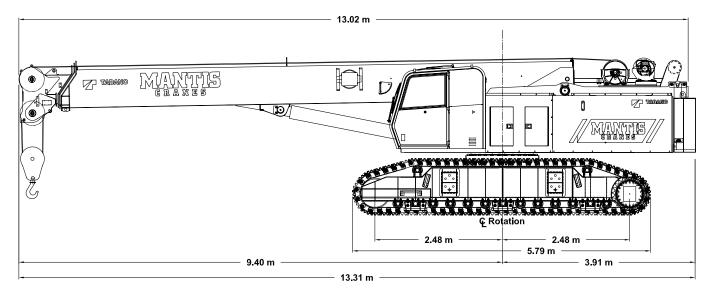
OPTIONAL EQUIPMENT

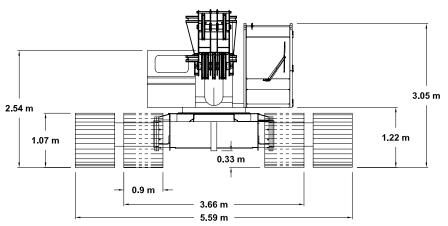
- Boom Extension: Lattice type, swing away
 - Length: 9,1m
 - Head: Two, 483 mm diameter cast nylon sheaves on heavy-duty roller bearings - Max. Lifting Height: 41,2 m
- · Boom Jib: Lattice type, swing away, stores along boom extension
 - Length: 6,1 m
 - Max. Lifting Height: 47,0 m
 - Offset Angles: 15° & 30°
- Auger Ready Package: Includes hoses, fasteners and stowage bracket assembly mounted to the base section of the boom with a flow capability of 130 liter/min
- Complete Auger Package: Adds a two speed auger motor/gear box and one 1,52m kelly bar to the Auger Ready Package.
- Tool Circuit: Provides 23 liter/min and 45 liter/min at 176 bar through a 15,24m twin hose reel with quick disconnect fittings to operate open center tools.
- Free Fall Hoists: All winches are available in controlled free fall configurations.
- 3-Color Light bar for external load indication
- Pole Claw: Heavy duty pole claw with hydraulic open/close and tilt.
- Clip on flat track shoes

DIMENSIONS

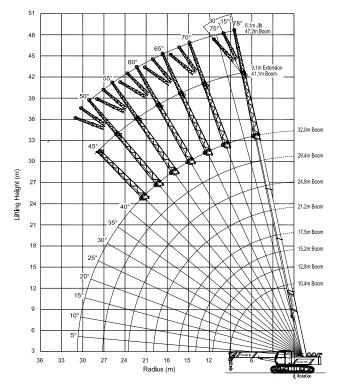
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32M MAIN BOOM, 9,1M EXTENSION & 6,1M JIB



WIDTHS, WEIGHTS, AND GROUND PRESSURES*

Shoe Width	Overall Width		Area	Ground	Working Weight
	Retracted	Extended	Ared	Pressure	Weight
610 mm	3.35 m	5.22 m	6.04 m ²	0.68 kg/cm ²	40,800 kg
760 mm	3.51 m	5.39 m	7.55 m ²	0.51 kg/cm ²	41,700 kg
900 mm	3.66 m	5.59 m	9.06 m ²	0.47 kg/cm ²	42,590 kg

* Crane equipped with: 32m boom, extension, jib 40t hook block, 11t headache ball





Lifting your dreams

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