Tadano Mantis factory refurbished cranes are remanufactured, inspected, tested, and calibrated to the same standards as new Tadano Mantis cranes. These high quality refurbished cranes offer an alternative to new equipment, have current features and a factory warranty at a refurbished crane price.

**Key Features:**
- Crane Warranty: 6 months / 1000 hours
- Tadano AML-C Rated Capacity Indicator
- Complete new paint in standard Tadano Blue/White Colors
- Standard Winch View and Rear View camera system
- Standard - 3 x Remote control work lights
- **Can be equipped with optional equipment**
  - Auxiliary Winch
  - Auger Ready or Complete Auger Package
  - Clamp on Polyurethane Track Shoes
## Description of Major Components:

<table>
<thead>
<tr>
<th>Major Component Description</th>
<th>Inspect &amp; Reuse</th>
<th>OEM Remanufactured</th>
<th>New</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cummins QSB Engine, 173 HP, US EPA Tier 2 Emissions</td>
<td></td>
<td>✓</td>
<td></td>
<td>Covered by Cummins New Engine Warranty - 2 years or 2000 hours</td>
</tr>
<tr>
<td>Parker P2 Variable Displacement Axial Piston Hydraulic Pumps</td>
<td></td>
<td>✓</td>
<td></td>
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</tr>
<tr>
<td>Hydraulic Cooling Oil Pump</td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
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<tr>
<td>Parker K170 Load Sense Hydraulic Valves</td>
<td></td>
<td>✓</td>
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<td></td>
</tr>
<tr>
<td>Tusla 1200 Series Main Winch</td>
<td></td>
<td>✓</td>
<td></td>
<td>Grooved Drums, Cable Tensioner, 3rd Wrap Shutdown</td>
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<tr>
<td>Wire Rope</td>
<td></td>
<td>✓</td>
<td></td>
<td>183 m - 14 mm, 6 x 37 EIPS, IWRC, RRL</td>
</tr>
<tr>
<td>Boom Hoist Hydraulic Cylinder</td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
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<tr>
<td>Boom Telescope Hydraulic Cylinder</td>
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</tr>
<tr>
<td>Track Extend Hydraulic Cylinders</td>
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<tr>
<td>Hydraulic Hoses</td>
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<td></td>
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<tr>
<td>Wiring Harnesses</td>
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<tr>
<td>Hydraulic Swivel</td>
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<tr>
<td>Slewing gear and Motor</td>
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<td></td>
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<tr>
<td>Slewing Bearing</td>
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<tr>
<td>KYB Track Drives and Motors</td>
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</tr>
<tr>
<td>Track Group - 760mm Triple Grouser</td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>Track Rollers</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Track Idler</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>27t Hook Block</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>6.3t Headache Ball</td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boom Wire Rope Sheaves</td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
SPECIFICATION – GTC-300EX

Maximum Lifting Capacity
27.0t at 3m

Boom
3-section full power synchronized telescoping boom. Synchronized telescoping system consists of one double acting hydraulic cylinder with load holding valves and extension and retraction cables.
- Retracted Length: 10.0 m
- Extended Length: 24.4 m
- Extension Time: 70 s
- Elevating Angles: -1° to 78°
- Elevating Time: 41 s
- Boom Head: Five, 381 mm diameter cast nylon sheaves on heavy-duty roller bearings. Includes three load lifting sheaves and two idler sheaves.
- Auxiliary Boom Head: Quick reeve, single 381 mm diameter high-strength, cast nylon sheave mounted on a heavy-duty roller bearing.
- Hook Block: 271 hook block - Three 406 mm diameter sheaves mounted on heavy-duty roller bearings with swivel hook and safety latch.
- Headache Ball: 6.31 ball includes a swivel hook with a safety latch.

Winches
Planetary geared single-speed winch includes a bent axis hydraulic motor, multi-disc internal brake and counterbalance valve. Grooved drums, cable tensioner, third wrap indicator, and drum rotation indicator.
- Main Winch
  - Rope Diameter and Length: 14mm x 183m
  - Single line pull: 48.9 kN (first layer)
  - Single line speed: 69.8 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: 2.6 km/h
- High travel speed: 4.0 km/h
- Gradeability (unladen): 56%

Load Moment Indicator & Anti -Two Block
TADANO AML-C 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

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
- Four, two-way hydraulic armrest mounted joysticks control swing, main winch, auxiliary winch and boom hoist. Foot pedals control the travel, boom extend, 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
- Rating: 129 kW (173 hp) @ 2200 RPM
- Emissions: US EPA Tier 2
- Alternator: 100 amp

Electrical System
12 VDC

Counterweight
Total 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 cabbody allows the superstructure to rotate 360°
- Swing Speed: 0 - 3 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: 437 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: Nine bottom sealed rollers on each track frame
  - Idler: Oil filled, self lubricating with spring type tensioner
- Track Shoes: 760mm 3-bar semi grousers

Optional Equipment
- Auxiliary Winch
  - Rope Diameter and Length: 14mm x 91m
  - Single line pull: 53.4 kN (first layer)
  - Single line speed: 65.2 m/min (at the 4th layer)
- Boom Extension: Lattice type, swing away
  - Length: 6.1m
  - Head: Two, 483 mm diameter cast nylon sheaves on heavy-duty roller bearings
  - Max. Lifting Height: 29.6m
- Boom Jib: Lattice type, swing away, stores along boom extension
  - Length: 6.1m
  - Offset Angles: 15° & 30°
  - Max. Lifting Height: 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 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.