

# **TAYLOR** *FACTS AND FEATURES*

## **RTGP SERIES RUBBER TIRED GANTRY CRANE**

### **RTGP-9040I, RTGP-9050I, RTGP-9060I**

#### **ENGINE**

- Tier compliant Cummins electronic turbocharged
- 300 (224 kW) gross brake horsepower at 1800 rpm
- 4-cycle in-line 6-cylinder engine
- Electronic diagnostic and maintenance monitor, fuel/water separator and engine protection systems are standard
- 300-gallon fuel tank capacity
- Easy serviceable Donaldson dry type 2-stage, heavy-duty, dry air cleaner
- Deaeration tank, with a sight gauge for checking coolant level for optimum engine cooling

#### **ELECTRICAL, INSTRUMENTATION AND ACCESSORIES**

- Pre-wired, snap-in mounted electronic instrument panel
- 12-volt electrical system
- Key-type anti-restart ignition system standard
- Two 220-amp-hour batteries standard
- 160-amp alternator standard
- Main battery disconnect switch, and reset circuit breakers standard
- Work lights, key-switch activated amber strobe light, travel-actuated warning alarm, rear-view mirrors and horn standard

#### **TAYLOR INTEGRATED CONTROL SYSTEM**

- All integrated controls using solid-state controllers
- J1939 CAN bus technology allowing controllers and sensors to communicate with minimal wiring between components; all machine data accessible through main color display in cab showing engine data, warnings, spreader status lights, man/machine interface data; troubleshooting data access such as sensor status, controller outputs; Machine functions tuned through main cab display; Password protected tuning functions
- I/O modules eliminate electromechanical relay devices and add reliability to machine control system

#### **GANTRY DRIVE**

- Hydrostatic-driven planetary gear reducers within each drive/steer wheel provide excellent ground speed control and allow crane to be "inched"
- F-N-R switch inside cab controls drive system
- Crane travel speed controlled by foot-operated variable pedal
- Spring-on, hydraulic-off, multiple disc gantry brake; integral with reducer
- Wheel hub mountings allow tire removal without gantry drive disassembly
- Drive motor, parking brake, planetary gear serviceable without tire removal
- Optional collision avoidance system to warn of objects in drive path



**RTGP-9040I**

#### **STEERING**

- Drive wheels are steered by hydraulic motor driven by planetary gear reducer.
- Integral output shaft with pinion engages external gear on turntable bearing
- Controlled by electronically linked dual steering wheels in leader/follower arrangement
- Piloted bearing to sill beam ensures positive alignment
- Wheel pivot hydraulically locked in place when not in steering model

#### **STRUCTURE**

- Computer analyzed and designed to CMAA and AISC Specifications ensures adequate strength and durability
- double tapered, box legs provide strength without adding unnecessary weight
- Ties at top of legs ensure legs work in tandem and minimize load weight (caused by gantry motion) in legs and sill beams
- Underslung sill beam on cab allows lowest possible positioning of moveable operator station for flat car loading
- Straight sill beam on engine side allows engine/pump assembly mounting below sill beam for ease in service
- Ground fueling
- Hydraulic tank filled from sill beam top



# More **FACTS AND FEATURES**

## RUBBER TIRED GANTRY CRANE

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#### OPERATOR STATION

- Temperature controlled patented elevating cab with large glass areas for operator comfort and visibility
- Spring-actuated mechanical lock provides operator protection
- Easy access cab by steps from ground
- Comfortable operator's seat equipped with armrest-mounted joysticks; swivel seat allows for easy cab entrance/exit
- Joystick controls for crane hoist and trolley functions, twistlock lock/unlock, shoe clamp/unclamp, and center point adjustment
- Light controls, selector switches, and Taylor Integrated Control System Display mounted right of operator

#### ACCESS AND GUARDS

- OSHA compliant ladders and platforms provide access to panels, lift cylinders, chain rollers, cab lift cylinder, and other service areas
- Contoured-face wheel guards are rigid mounted at lowest practical height above ground

#### HYDRAULIC SYSTEM

- Hoist system composed of two separate load sensing, pressure compensating pump and valve assemblies allow simultaneous operation of both lift beams
- Valves controlled by electro-proportional solenoids
- 94-gallon (356L) hydraulic tank
- Gear pump and directional valve controlled trolleys, cab, and steering
- Single gear pump and on/off solenoid controlled, valve mounted attachment

#### HOIST

- Two double-acting lift cylinders are powered (up and down) by a valve providing positive position control.
- Counterbalance valve on rod end of cylinders provides protection in event of sudden system pressure loss
- Trolley beam end has two chains for added safety and eliminates need for structural cut-outs in top beam
- Equalized and adjustable heavy-duty lift chains balance loads and ensure proper trolley beam alignment

#### SUPPORT DATA

Best support data available in the industry which includes:

Operator's Guide • Maintenance / Service Manual on CD ROM • Parts Manual printed and on CD ROM • Safety Booklet • Safety Video • Structural Inspection Reporting and Repair Manual (TMW-083) • Operator Training Exam/Answer Sheet • Other OEM notifications and/or warranties



RTGP-9040I

#### TROLLEY DRIVE

- Flange-mounted hydraulic motor, coupled to a drive shaft, with hub-mounted sprocket.
- Roller chain connects the trolley to sprocket eliminating all lateral loads on the trolley drive motor and simplifying motor service and replacement.

#### ATTACHMENT

- Top and bottom lift attachment, side pin lift attachment and wide twistlock position
- Sensors in shoes indicate legs fully clamped into trailer
- Mounted attachment lights and cab lights advise of full twistlock lock/unlock position
- Auto 20-ft./40-ft. twistlock positioning and center point adjustment centering
- Optional Damage Free System to help prevent container/trailer damage

#### WARRANTY

- 12 month or 2,000 hours
- Optional warranties are available

#### PARTS AND SERVICE

- Total USA parts and service available
- Technically trained service personnel at dealer locations
- Best support data available in the industry
- Support data supplied free with unit at delivery



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