

RUBBER TYRED GANTRIES

Application specific design - one size does not fit all

Availability

Suitability

Efficiency



Customization: when correctly specified to the application, Rubber Tyred Gantries can provide cost effective solutions with high availability for small and mid-sized operations.

With application specific design Isoloder customizes its proven Rubber Tyred Gantry range to deliver a low Total Cost of Operation.

Customized ultra-efficient RTG solutions significantly reduce civil costs and deliver the low operating costs and fast cycle times required for intermodal operations.

Environmentally friendly: electric-hydrostatic drives are efficient, enable energy recovery and are able to be powered by clean energy sources where locally available. They remove hydraulic piping and allow hydraulic components to be contained, effectively eliminating the risk of spills and environmental contamination. Isoloder's approach of application specific design brings down the weight of the machine along with its fuels costs and its carbon footprint.

Targeted automation: high precision hydrostatic systems that require minimal complex control, plus auto-steer, mechanical anti-sway and operator pre-set systems that deliver a fast easy positioning of the load, providing a balance between simplicity and reliability and the fast cycle times required for operations such as train stripping.

Maneuverability: multiple steering modes include sideways translation to allow the gantry to transfer directly between operating lanes.

High availability: Isoloder's RTGs normally work in operations without a back-up gantry and where an availability of above 98% is required.

Low maintenance: Simple and robust mechanical systems, hydraulic drives and mechanical anti-sway systems preclude the requirement for complex control systems and lead to proven low maintenance.

Isoloder manufactures container and industrial load handling solutions.

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ISOLOADER
CONTAINER & HEAVY LOAD HANDLING SOLUTIONS

RUBBER TYRED GANTRIES (RTG)

High-availability, ultra-efficient gantries for intermodal and industrial applications.

anti-sway - lift travel is fully guided to eliminate sway for the fast and precise positioning of the spreader and load. Significantly reduces cycle times particularly for bottom lift loads such as swap bodies.

operator programmable controls - cross carriage position can be pre-set by the operator to reduce cycle times in operations such as train stripping or loading.

maneuverable - options for steering modes providing additional types of travel such as sideways transfer.

flexible load handling - 6m/12m telescoping spreader as standard with options for OEM spreaders, grab-arms for bottom lift loads including swap-bodies, or custom spreaders to handle industrial loads such as pipes, beams and coils.

drive options - choice of Diesel-Hydraulic, Electric-Hydraulic or Diesel-Electric-Hydraulic drives according to application specific requirements including environmental needs.

auto-steering - simplifies travel control to a foot pedal, leaving hands free to simultaneously control the cross travel and lift, reducing driver fatigue, improving safety and reducing cycle times. Options for hardwire or GPS based.

dual independent cross carriage drives - allows angular trim adjustment of the load.

application specific handling - options to rotate the load (horizontally or vertically) or to tilt the load for filling/dumping.

low weight - application specific structural design delivers a robust, weight efficient machine with improved fuel economy.

custom cab position - fixed or traveling (vertically or horizontally) cab to suit the application and requirements for ease of access and maximum visibility.

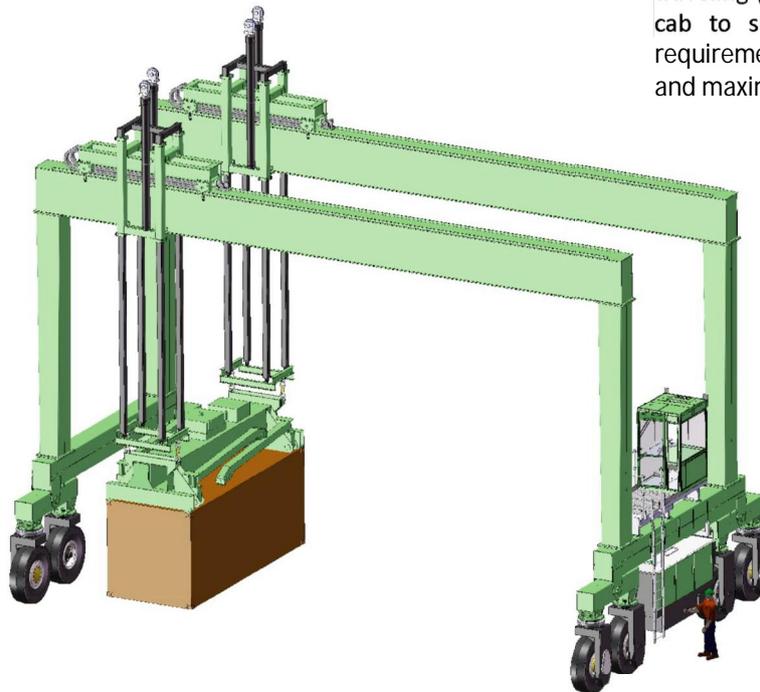
cab access - stowing stairways and personal lifts are options to manage ease and safety of access.

reducing driver fatigue - proven, spacious cab layout with large glass areas for maximum visibility. Seat options including air suspension.

extreme operating environments - options for extreme heat and dust up to 50C and extreme cold down to -40C.

low maintenance - hydrostatic lift and travel systems that are more rugged, reliable and durable than mechanical ones.

hydrostatic braking with emergency disc parking brake - no separate braking system is required for speeds up to 20 km/hour - increases reliability and reduces maintenance costs.



gantry types - choice of single beam, double beam, dry land, over water or on-barge.

electric-hydrostatic drives - minimize risk of oil spill and environmental contamination by confining hydraulic equipment and containing with spill trays.

positive displacement hydraulic wheel motors - provide precise and direct longitudinal positioning of the load without requiring a secondary system in the cross-head or complex control systems. Easy to use and low maintenance..

Key specifications	
Travel speed	up to 135m/min
Hoist speed	up to 15m/min
Load	up to 120t
Number of Lanes	up to 5 wide
Stacking height	up to 4 high

Further options are available to suit your exact needs. Call us to see how an RTG can revolutionize your logistics.