

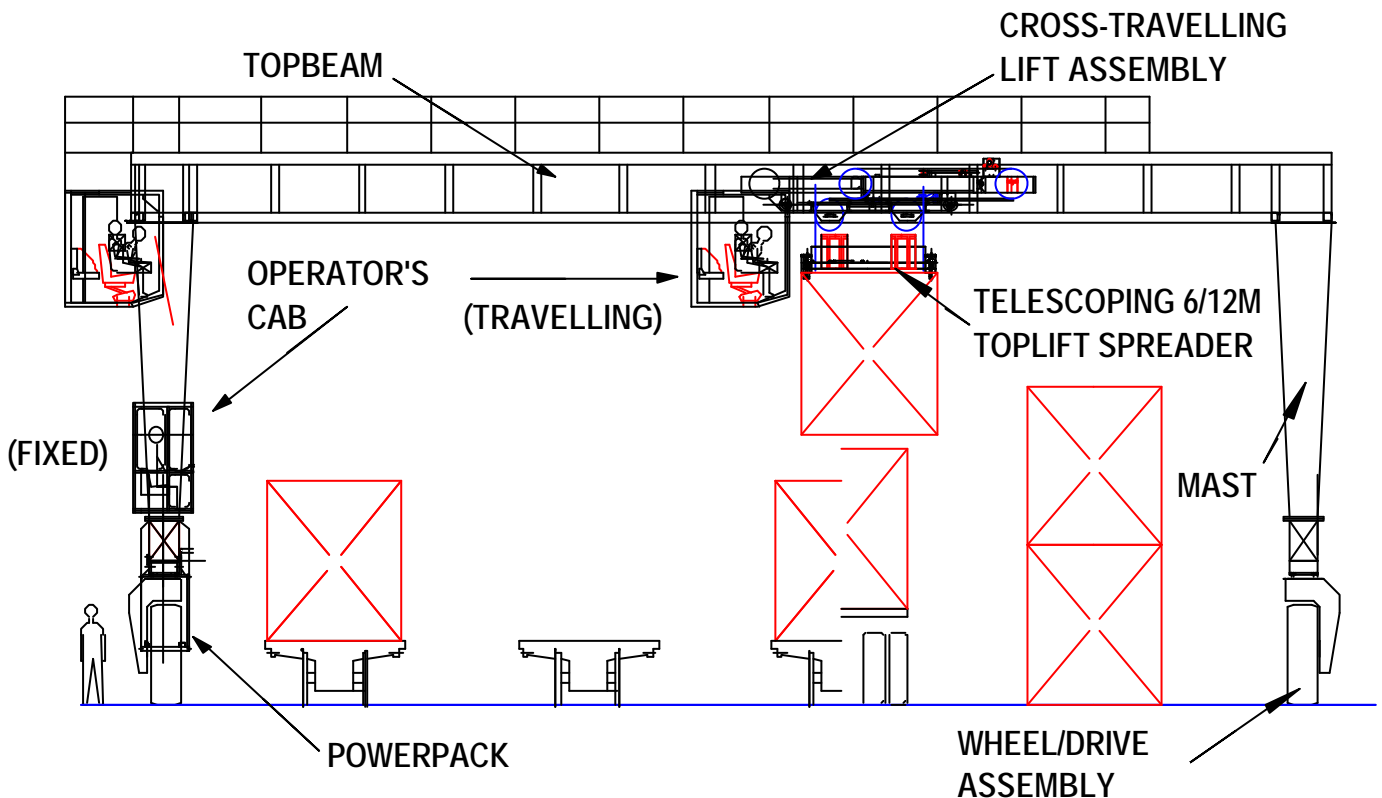
ISOLOADER

"Rubber-tyred Gantry"

Model: RTG
Spec. No. RTGST01 ... from 10T



The "Rubber-tyred Gantry" is an economical solution when straddling multiple lanes of rail/road and/or container storage, or when maximum storage density in the container stack is desired. Modular components are selected to meet the cycle time free-working-area requirements.



ISOLOADER *"Rubber-tyred Gantry"* Model: RTG Spec. No. RTGST01

ISOLOADER Rubber-tyred gantries are built-to-order engineered machines.

JOBSITE requirements will determine machine span and height, lifting speed and characteristics, cross-travel speed, long-travel speed, sequence of operation, lifting interface required, operator cab position, power delivery system, and other details.

You will want to consider at least the following for a preliminary design on an RTG:

Number of (and height of) containers to be stacked and will a container need to travel OVER that stack, to determine the height
Number of container rows wide, number of rail lines, number of truck lanes (or other) to determine span (width)
Maximum weight of the load, and (if possible) average load
Average lifts per hour required, maximum lifts per hour required, and is "order picking" a desired method of operation
Length of area to be serviced and will multiple container stacks be serviced with the one machine
Types and sizes of containers to be lifted, and the two most prevalent types
Maximum number of container TEU required for storage
If a rail operation, will trucks need to be serviced while a train is being serviced, and which is the priority

Operational Data.

Pavement: Concrete, bitumen, compacted high-quality hardstand or other equal pavement. Slope 2%.

Yard Layout: Storage areas are normally layed out in rows with containers on 2.7-2.8m centres. All items to be straddled (rail lines, truck lanes, container lanes etc.) need to be specified.

Standard Features:

Structure.

Structure.The RTG structure consists of four **vertical masts** with **topbeams** above (front and rear), **wheel/drive assemblies** below, and **side beams** (left and right). A **powerpack** is hung from one of the sidebeams. An **operator's cab** is usually positioned above the sidebeam, or alternatively, attached to the overhead topbeams. In remote-control only RTGs, there is no operator's cab. The **lifting assemblies** are enclosed in the topbeams and rest on rails that allow **cross-travel** of the attached load. Wire ropes from the lifting assemblies raise and lower the **spreader** attached below.

Systems.

Power Pack: The powerpack contains a water-cooled diesel engine set driving a hydraulic pump set. Hydraulic controls and a reservoir system are behind the engine/pump group. A powerpack enclosure reduces the noise level for the operator. A fuel tank with built-in gauge is suspended from the powerpack for ease of access.

Lifting: Lift systems of hydraulic cylinders, sheaves and ropes, are enclosed in each topbeam. Each lift system moves sideways as a unit within the topbeam to allow cross-travel of the load. The lift systems raise and lower lifting ropes. A toplift spreader is attached to the lifting ropes. The toplift spreader attaches to the container to be lifted. The lift and cross-travel at each end is independently controlled. Safety

Product Optional Extras:

Lighting Package: Lighting for the load connections and for traveling within the yard. Includes associated interconnecting wiring and controls; upgrade in alternator to handle the additional load, all factory installed/tested at time of initial machine production

**6/9/12 Spreader; Grab-arms
Chain Placer and Tool Box**

locks are provided against hose failure.

Spreaders: The powered 6m or 6/12m telescoping spreader incorporates hydraulic actuators, which operate the locking and unlocking of each corner twist-lock. Mechanical and electric safeties indicate safe attachment and release of the container. An auxiliary set of lifting chains with twistlocks is provided. These chains are placed on the hooks located on the spreader. The chain set allows the lifting of out-of-shape containers and flat racks. Chain baskets are provided on the masts for storage of the chain set.

Travel: A hydrostatic drive provides infinitely variable speed control in both forward and reverse directions. A spring-applied fail safe brake system holds the machine when parked. Steering is powered by hydraulic cylinders. Tyres and rims are selected to match the application.

Operator's Control Cab: The placement of the enclosed conditioned cab is selected to afford optimal viewing of the major operation to be performed at the site. The machine is designed to be controlled from the operator's cab. Direction is controlled by steering wheel or joystick. Each lifting system has its own levers to raise/lower and side-shift the load. A push-pull valve controls the application of the parking brake. Spreader functions are controlled and status indicated. Powerpack operational indicators are provided. Any accessory lights provided are controlled from the operator's cab.

Warning Devices: Two (2) rotating amber beacons are provided, one at each end of the machine, usually mounted on a front and rear vertical mast. An electric horn is provided. A reversing beeper is offered as an option below.

Major Painting: A high grade protective paint system is applied to suit the anticipated operating climate. Any special conditions should be noted at time of proposal discussions.

**Pressure Test Kit; Weighing Systems
Wheelguards; Reversing Beeper
Lighter Duty Auxiliary Chains
Remote Radio Control, Automatic Steering
Special Spreader Systems (grabs, coils etc)
Custom Powerpacks
Lower Pressure Wheel Systems**

© ISOLOADER 2001: We reserve the right to update this specification at any time without notice

ISOLOADER AUSTRALIA Pty Ltd
PO BOX 20, 8 BUCKMAN CLOSE
SAWTELL, NSW AUSTRALIA 2452
Telephone: +61 2 6658 1333
Facsimile: +61 2 6653 2366
www.isoloder.com
sales@isoloder.com
SERVICE AND INNOVATION
ACN 001 059 874 ABN 50 001 059 874

(Steelbro)

(Steelbro
Distribution)