

Kalmar RT240 Rough Terrain Container Handler



Kalmar RT Center LLC's Rough Terrain Container Handler(RTCH)

Kalmar RT's RTCH has 53,000 lbs (24,040 kg) capacity with the ability to stack 20 and 40 foot ISO containers three high and two rows deep.



Purpose built for rough terrain, fording through 60 inches (1.52 meters) of water, extreme operating temperatures and unsurpassed reliability and durability. (Standard paint color shown to the left)

Unmatched transportability and versatility (Optional commercial paint shown to the right)





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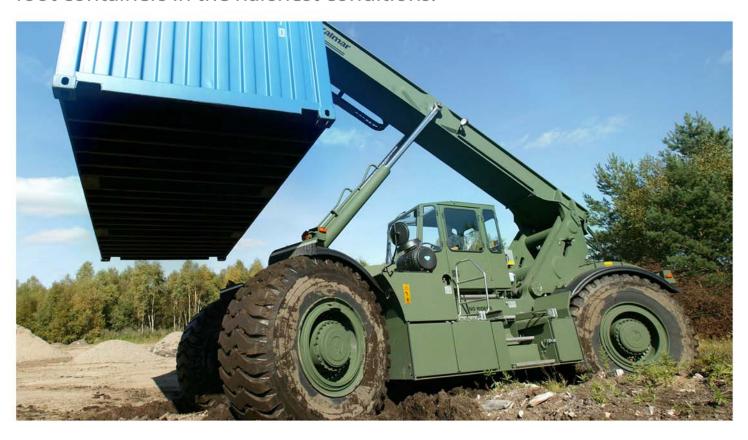






Moving Logistics into Rough Terrain

The Kalmar RT240 operates in unimproved, rough terrain surfaces while easily handling twenty or forty foot containers in the harshest conditions.



KRTC is a customer focused organization dedicated to the highest level of integrity and innovation, delivering quality products though excellence and teamwork. Our vision is to be the world leader in material handling solution and related services for the government sector.

The use of containers for the delivery of a wide variety of supplies is rapidly expanding within most military operations throughout the world. Military and humanitarian operations in remote locations mean logistics must be supported in areas where infrastructure has been destroyed or is non-existent. Military Forces have turned to containerization as a solution to this challenge.

The Kalmar RTCH have the ability to travel over unimproved, rough terrain surfaces while easily handling twenty or forty foot containers in even the harshest of conditions. It is easily transportable and does not require any special tools.

Kalmar RT Center (KRTC) provides material handling solutions for our primary customer, the U.S. Department of Defense, its allies, and related government agencies worldwide.



Material Handling Versatility





Capabilities

- Stack or unstack twenty and forty foot ISO containers with a gross weight of 53,000 lb (24,040 kg) stacked three high, in the first row.
- Stack or unstack twenty and forty foot ISO containers, with a gross weight of 27,500 lb (12,474 kg), stacked three high, in the second row.
- Stack or unstack twenty foot ISO containers with a gross weight of 53,000 lb (24,040 kg), stacked two high, in the longitudinal position.

Kalmar RT Center's equipment has stood the test of time and battle. We understand military operations are conducted in rough, unforgiving environments. We design and build our equipment with that in mind.

Features

The Kalmar RT240 is equipped with an electro-hydraulically operated twenty to forty foot top handler that is capable of:

- Side shifting
- Rotation/Slewing
- Forward/rear tilting
- Left/right tilting
- Load position leveling and locking

These features allow containers to be handled in a wide range of approach angles and ground conditions.



Patented Folding Boom Design





The Kalmar RT240 has a patented folding boom design that allows conversion from operational mode to transport mode in less than thirty minutes without disassembly, special tools, or lifting assets. This conversion brings the RTC240 from an overall height of four meters (13.12 ft) to just under three meters (9.84 ft) allowing the machine to be transported by ship, rail, or over the road by truck.

The RT240 can self-deploy an additional third axle reducing its weight footprint. This coupled with mountable wheels for the top handler, allows the machine to be loaded on transport aircraft such as the C-5, C-17, and the ANTONOV 124.







Proven Reliability in Any Condition Around the World

Anywhere, anytime, in any condition







The Kalmar RT240 operates with ease in adverse terrain and weather conditions from the extreme heat of the Southwest Asian deserts to the frigid cold of the Arctic regions. The machine is capable of fording 1.52 meters (5 ft) of water allowing it to operate where other container handlers and reach stackers cannot. By utilizing the different steering modes, the RTCH can operate in tight areas such as military and commercial landing ships or large areas like a shipping container yard. It is an essential tool for logistics in rough terrain.

The RTCH has been utilized to deliver food, water, and medical supplies to natural disaster victims. Missions have included Hurricane Katrina and Operation Unified Response for the earthquake in Haiti. Its ability to traverse the unfavorable conditions remaining after the natural disaster was an essential asset to the success of the relief efforts. The Kalmar RTCH can go anywhere, anytime, in any condition.

We are here to help you!

At Kalmar RT Center we understand the quality of an organization is in direct proportion to its commitment to excellence. At Kalmar RT Center, excellence is our standard.



Field Service and Warranty

The Kalmar RT Center is proud to provide equipment and services to the United States Armed Forces, its allies, and related government agencies worldwide. We are dedicated to providing our customers with the best customer service and support around the clock. Our technicians provide technical assistance and are here to help keep the machines operations ready for any mission.

Field Service Representatives

The Kalmar RT Center has Field Service Representatives (FSRs) on the ground in Southwest Asia, and provide assistance worldwide.

Reset Services

Our facilities in Texas and Kuwait have certified technicians that are currently restoring the RTCH to factory specifications and applying the latest upgrades, so the Warfighter can accomplish their mission. We are currently expanding our Refurb – Reset programs to encompass any MHE equipment, regardless of manufacturer. Our facilities are state of the art capable of a full spectrum of operations from vehicle to component rebuild.



Service Kits

Kalmar RT Center's equipment gets the job done. We understand that when a Soldier has a mission to accomplish he needs his equipment to work. We pride ourselves in ensuring it does!





Initial Service Kit

The Initial Service Kit provides the filters and related items to perform the required service after the initial 100 hours of operation. This 100-hour service is a requirement to maintain the warranty.

Basic Issue Item Kit

The Basic Issued Item Tool Kit is an essential kit for maintaining and adjusting RTCH items that accrue normal wear and tear. The kit includes: hydraulic reservoir wrench, jacking screws, 3/16 long arm hex key wrench, Philips screwdriver (standard,round,8), crescent wrench, 18 ounce black vinyl tool pouch, slip joint pliers, and air pressure gauge.

Authorized Stocking List Kit

The ASL Kit provides the service parts and filters to perform preventative maintenance services on the RTCH throughout the 1st 2,000 hours of operation.

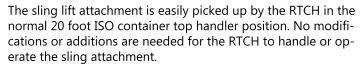
Breakout Cable Kit

This breakout cable kit is installed in series with the existing sensor wiring harness. It is used to troubleshoot the pressure and temperature sensors, electronic control module (ECM), and engine harness.

Sling Lift Attachment







This attachment allows for the movement of slung loads up to 48,000 lbs (21,772 kg) in capacity. Dual and single point loading gives versatility in type and configuration of load handling, such as barriers, bunkers, wheeled equipment, construction equipment, and any load with rated sling points.

Fold down legs allow for easy pick and place of the attachment. Design allows for air, trailer and marine transport with the attachment installed on the RTCH.







Forklift Attachment





The forklift attachment is connected to the top handler twist locks and two hydraulic hose quick-disconnects. Forklift operation is controlled from the joystick, and includes adjustable fork tines. The fork tines are adjustable from 24in. (61 cm) center-to-center to 81.5 in. (207 cm) center-to-center. Lift capacity is 44,000 lb (19,958 kg). This gives the operator the flexibility to lift or load a wide variety of cargo, including standard and odd size containers as well as material loaded on a pallet.

The forklift kit attaches directly to the twist locks on the top handler in less than fifteen minutes without special tools or other lift assets. The fork tines and vertical support beams fold under the forklift framework for transport.



RTCH Enhanced Training Aid (RETA)









Training In the field with the RETA Enhanced Training Aid

The RETA is a enhanced training aid designed to be an efficient tool for training and educating the operators of the Kalmar RT240. The RETA has built-in training sessions that can be used in many different ways. There are 5 different sessions that include:

- Free drive The first one is a non restricted "free driving" session where you can do anything that you'd like.
- Container Transporting The training session is specially designed to improve operator's skills to transport containers from remote areas.
- Container Lifting The training session is specially designed to improve operator's skills of lifting containers and stacking them into position.
- Water maneuvers This training session is designed to help operators differentiate the movement between water and land.
- Dock transporting This session is specially designed to improve skills with the fork kit attachment by moving pallets, one at a time, onto the shipping dock.

Practice makes Perfection

The pictures above and to the right are live screen shots taken during a simulation. As shown above, this machine allows students to get a practical feel for the machine before use in the field.



Training Services



40/80 Hour Operator Training

The operator course gives the students the basic knowledge of the methods to safely operate the Kalmar RTCH in real world conditions. For example:

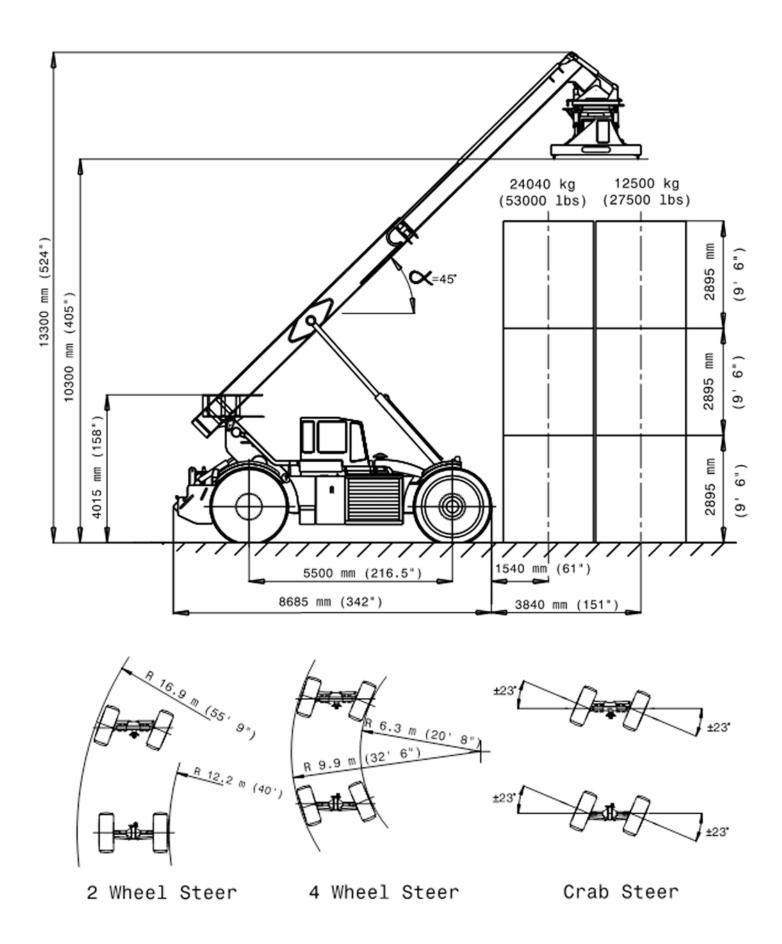
- •The course shows how to make proper inspections, maintenance and lubrication procedures to keep the vehicle fully mission capable.
- •The students will learn the operational skills and techniques to safely handle and manipulate 20 to 40 foot containers throughout a wide range of mission driven scenarios.
- •Students are introduced to the different transportation modes of the RTCH and perform the transport conversions in a safe and efficient manner.

Written and practical tests are given to evaluate the effectiveness of the training. Certificate of completion is issued.

40/80 Hour Maintenance Training

The purpose of the Field Level Maintenance course is to provide the student with the basic knowledge and skills to troubleshoot, repair and maintain the Kalmar RTCH. The course will cover: safety, hydraulic systems, mechanical systems, and engine systems.

Written and practical tests are given to evaluate the effectiveness of the training. Certificate of completion is issued.



EngineMakeCumminsModelQSM11, US EPA Tier IIICylinder6Power298 kW,400 HPDisplacement10.8 L/269 cu.inCoolingHydraulic driven, variable speed fanFuelDiesel/JP-8/JP-5
Transmission ZF Model 4 WG310 Gears 3 fwd/2 rev
Axles Make
Brakes ServiceHydraulically operated & cooled, in-board, wet disk type. ParkingHand operated, spring applied/hydraulically released

Performance

Travel speed, unladen 37 k	(m/h, 23 mph
Travel speed, laden 24	km/h, 15 mph
Travel speed, reverse, max 11.3	km/h, 7 mph
Gradeability at 3	km/h, 2 mph
Unladen	27%
Laden	27%
Fording depth	1.52 m, 60 in

Weight

Curb weight	53751 kg, 118500 lbs
Front axle	29121 kg, 64200 lbs
Rear axle	24630 kg, 54300 lbs

Service Capacities

Fuel tank	390	L,	103	gal
Hydraulic tank	681	L,	180	gal

Additional Data

Electrical system	24V DC
Alternator	105 Amps

Tires

Size	29.5	- ,	35
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RT240 in Transport Mode

