

RCE

RAIL

PRODUCT GUIDE



RCE EQUIPMENT SOLUTIONS—RAIL DIVISION

1901 Harrison Avenue, Rockford, IL 61104

Toll Free 866-472-4570

Office 815-387-9102

www.rcequip.com

Purchase—Rent—Lease—Parts—Service

THE COMPANY

Since 1997, RCE Equipment Solutions has made tremendous strides in developing high quality, maintenance-of-way rail construction equipment to support the needs of the railroad industry. What began as a shop with four employees has grown into a 100,000+ square-foot manufacturing facility and full-time engineering design team.

The RCE Rail division designs and builds railroad construction equipment and other rail-related products. The company originally started as a rail products dealer for Deere & Co. in the early 1990s. However, by 1997, Deere executives decided the specialty manufacturing was too niche of a market to run through their assembly lines. RCE took it over and utilized outsourced manufacturing with a company in Michigan. Ten years later, manufacturing was brought in-house with a factory in Rockford, IL.

RCE adapts conventional John Deere construction equipment, like excavators, wheel loaders and motor graders, to specific railroad maintenance tasks, such as tie-tamping or right-of-way clearing. Specialized attachments are created to make trackside jobs easier. RCE's patented hydraulic powered retractable high rail system allows machines to operate on and off the rails.

"The majority of rail maintenance equipment is dedicated to the tracks. They can't get out of the way easily for passing trains," RCE Owner Steve Benck says. "What we are doing is equipping machines so they can get on and off the track in seconds. So if you are out 20 miles to perform track maintenance, you can pull off the track to let a train pass."

All the major railway companies and several of the largest rail contractors have called on RCE to engineer and develop equipment for their specific needs or applications. In those customer meetings in Rockford, special-use designs take shape and new products are created.

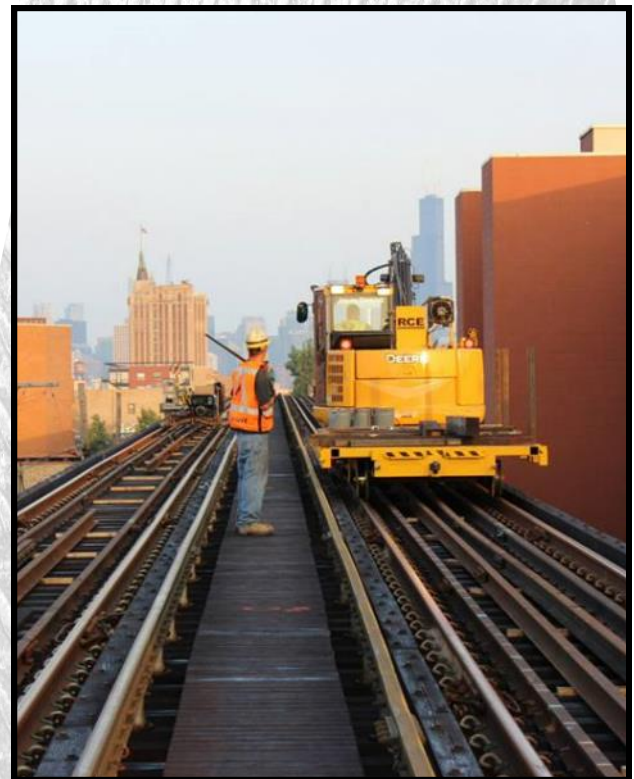
"RCE is all about customization," said RCE Owner Diane Benck. "The models are constantly evolving to meet each customer's needs, most of the time in extreme work environments. This is problem solving and innovation at its finest."

When RCE started, it offered two products. Today, the company offers 30. RCE's equipment has traveled to all different jobsite environments—from downtown Chicago, to a mine in Northern Canada, to the Alaskan outback.



www.rcequip.com
866-472-4570

Table of Contents	Page(s)
Rail Blade	3
Swing Loader	4
Third Rail Swing Loader	5
Tie Crane	6
Third Rail Tie Crane	7
Railavator	8—11
Railavator Specs	12—13
Other Products	14
Engineering	15
Product Support	15



WORLDWIDE SUPPORT OF THE JOHN DEERE DEALER NETWORK
Customizable and Emissions Compliant **Purchase - Rental - Lease**

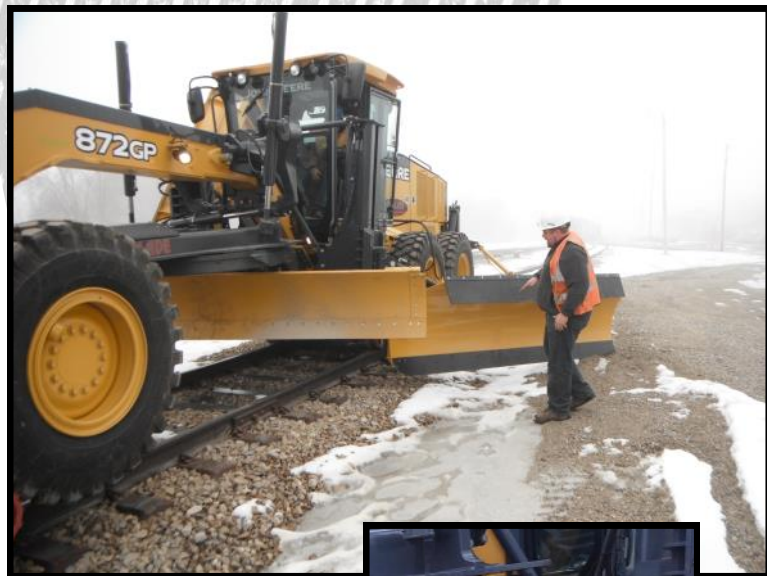
HIGH RAIL

RAIL BLADE

Offering one-of-a-kind advantages, RCE's Rail Blade—high rail motor grader—is the first of its kind in the industry. Choose from six full-featured high rail motor graders each loaded with brawny blades equipped with the same heavy duty durability and uptime-boosting features. Whether you're fighting snow, replacing or tamping ties, undercutting or regulating ballast, the Rail Blade does it all.



Models Available:
670, 672, 770, 772, 870, 872 G or GP



The Rail Blade is a platform designed for versatility. The new **Tie Inserter/Remover** attachment makes it easy to maintain and repair switch ties.

Single Stroke Design

Extracting Force: 28,900 lbs
Rail Lifting Force: 56,550 lbs
Insertion Force: 19,450 lbs



Coming Soon! Hydraulic powered dual tamper head with innovative approach using little or no track time

Hydraulic rotating tie head for standard track tie and switch tie replacement

Front plow and dual wings for fighting snow on and off track



HIGH RAIL

SWING LOADER

Utilizing a John Deere 544 size wheel loader rear section and a custom front chassis that has been modified to work on the rail, the Series 5 Swing Loader has all the power required to handle your rail maintenance needs. The standard loader boom and housing has been replaced with a 200 degree turntable that allows the operator to accomplish swing crane functions. The main boom assembly retains its structural integrity allowing the Series 5 to accomplish wheel loaders functions with 14,500 lift capacity.

Equipped with high traction axles, the Swing Loader has enough drawbar pull to handle the positioning of continuous rail. Whether working on or off rail, the Swing Loader provides a powerful, safe machine that offers the reliability of John Deere wheel loaders and the ultimate in swing crane technology.



ENGINE

Manufacturer/Model—**JD PowerTech™ 6068H Diesel, Turbocharged 6 cylinder, certified to EPA Tier 4, 163 hp, 414 cu. in.**

TRANSMISSION

Deere PowerShift™

Travel Speed Forward Max—**22.2 mph**

Travel Speed Reverse Max—**15 mph**

AXLES / BRAKES

Final Drives—**Heavy-duty inboard planetary**

Differentials—**Hydraulic dual locking front and rear**

Service Brakes—**Hydraulically actuated, inboard, sun-gear mounted, oil cooled, self adjusting, single disc**

Parking Brakes—**Automatic spring applied, hydraulically released, driveline mounted, oil cooled, multi-disc**

MACHINE DIMENSIONS

Overall Length—**24 ft 3 in**

Overall Height—**10 ft 8 in**

Overall Width—**8 ft 6 in**

Overall Weight—**33,500 lb**

WORKING DIMENSIONS AND SPECS

Height to Hinge Pin, Fully Raised—**12 ft, 7 in**

Maximum Lift Capacity—**14,904 lb**

Tipping Load, Straight—**24,579 lb**

Tipping Load, 40 deg, Full Turn—**21,275 lb**

Loader Clearance Circle, Bucket Carry Position—**38 ft 1 in**

Fuel Tank Capacity—**85 gal**

AVAILABLE ATTACHMENTS:

Front Attachment Loader Coupler

Hydraulic Driven Generator and Magnet

Tote Booms

Buckets

Forks

Snow Plows

Car Couplers Train Air Systems



- ▶ **Hi-Vis coupler lets you change attachments from the cab quickly and easily**
- ▶ **Tote Boom to handle the position of the continuous rail**
- ▶ **Mounted jet engine for blowing snow**
- ▶ **Hydraulically driven generator and magnet for picking up scrap metal**
- ▶ **Hydraulically driven fan runs only as needed for efficient cooling—helps conserve fuel**
- ▶ **All daily service points including fuel are grouped on the left side for quick and convenient ground level access**
- ▶ **Greasing is less messy with centralized lube banks**
- ▶ **Auto-idle applies the brake and automatically reduces engine speed to help conserve fuel after operator-determined period of inactivity**

HIGH RAIL: THIRD RAIL APPLICATIONS

► SERIES 5N SWING LOADER

The 544K Series 5N Swing Loader is a swing crane designed for Third Rail Systems. Using a Deere 544 size wheel loader rear section and a custom front chassis that has been modified to work on the rail, this Series 5N has all the power required to handle your railroad maintenance needs.

Designed specifically for Third Rail applications, the Series 5N has a narrowed high rail axle and tire to keep the width down. The standard loader boom and housing has been replaced with a 200 degree turntable that allows the operator to accomplish swing crane functions. The main boom assemble retains its structural integrity allowing the Series 5N to accomplish wheel loader function with 14,500 lbs of lift capacity. Equipped with the high traction axles, the Series 5N has enough drawbar pull to handle the positioning of continuous rail. Whether working on or off rail, the Series 5N Swing Loader provides a powerful, safe machine that offers the reliability of John Deere loaders and the ultimate in swing crane technology.



ENGINE

Manufacturer/Model—JD PowerTech PVX 6068 Diesel, Turbo-charged 6 cylinder, certified to EPA Tier 4, 163 hp, 414 cu. in.

TRANSMISSION

Deere PowerShift™

Travel Speed Forward Max—22.2 mph

Travel Speed Reverse Max—15 mph

AXLES / BRAKES

Final Drives—Heavy-duty inboard planetary

Differentials—Hydraulic dual locking front and rear

Service Brakes—Hydraulically actuated, inboard, sun-gear mounted, oil cooled, self adjusting, single disc

Parking Brakes—Automatic spring applied, hydraulically released, driveline mounted, oil cooled, multi-disc

MACHINE DIMENSIONS

Overall Length—24 ft 3 in

Overall Height—10 ft 8 in

Overall Width—8 ft

WORKING DIMENSIONS AND SPECS

Height to Hinge Pin, Fully Raised—12 ft, 7 in

Maximum Lift Capacity—14,904 lb

Tipping Load, Straight—24,579 lb

Tipping Load, 40 deg, Full Turn—21,275 lb

Loader Clearance Circle, Bucket Carry Position—38 ft 1 in

Fuel Tank Capacity—86 gal

866-472-4570

WWW.RCEQUIP.COM

ON TRACK

TIE CRANE

With outstanding lift capacity, swing torque and drawbar pull, RCE's Tie Cranes are highly productive. Boasting a tight tail swing, the Tie Crane is ideal for confined spaces. Control is smooth and effortless with the Powerwise III management system. Hydraulic driven axles with integrated dynamic failsafe braking comes standard. Includes fuel efficient iT4 John Deere powered engines. Multiple boom arm options are available—Tie Crane or Bridge Crane.

- RCE carts can be set-up to front and rear of equipment to maximize tie distribution efficiency. Carts designed to handle all types of materials, from heavy loads of reclaimed scrap to ties
- With impressive fuel efficiency, RCE Tie Cranes consume up to **50% less per day** than that of other competitive tie crane models
- AVAILABLE ATTACHMENTS**
Magnet—Tie Grapple—Brush Cutter Head—Scrap Cart—Side Dump Cart—Material Cart

Models available:
TC-75G, TC-85G, TC-120G, TC-135G

	TC-75G	TC-85G	TC-120G	TC-135G
SAE Net Horsepower (hp)	54	54	93	93
Lift Capacity (lb)	2,124	2,124	2,883	2,992
Tail Swing	ZTS	ZTS	N/A	RTS
Arm Breakout Force (lb)	8,554	8,554	12,823	12,942



MAG CRANE

Built on the same platform as the Tie Crane series, the Mag Crane is equipped with a hydraulically powered magnet for pickup of scrap material. This process eliminates the need for workers to walk up and down the rail picking up items by hand, providing a safer work environment. RCE's line of carts allows for the Mag Crane to drop materials in the cart of your choice for easy clean-up.

ON TRACK: THIRD RAIL APPLICATIONS

TC-85GN TIE CRANE

The TC-85GN Tie Crane—the latest model to the Tie Crane series—is for tie handling on Commuter Rail Systems that have a third rail design.

Compact is key in the urban environment. With the TC-85GN Tie Crane, operators can work in even the tightest of conditions in the metro area. With outstanding lift capacity, swing torque and a tight tail swing, this Tie Crane will keep any project on track.

The lower structure of the Tie Crane features a reduced width frame to allow clearance for Third Rail applications. The dual high torque drive motors (one on each axle) increases drawbar pull. The hydraulic actuated brake on each axle provides increased reliability in all weather conditions. With its low center of gravity, the platform design offers greater stability on the track.

With the John Deere excavator upper assembly, the machine boasts all the modern excavator features and readability. *With impressive fuel efficiency, the TC-85GN consumes up to 50% less per day than that of other competitive Tie Crane models.* The heavy excavator boom was designed for greater reliability and versatility with two arm options. The swinging boom offers greater versatility for placing ties in tight conditions and the reduced tail swing provides the ability to work without fouling an adjacent track.

RCE Tie Cranes provide an innovative approach to railroad maintenance tasks, combined with the proven reliability and latest technology from Deere construction excavators. All the power, smoothness and ease of operation you expect from John Deere excavators in a compact, easy-to-manuever package. Spacious cabs offer noticeably more glass, comfort and visibility.

Models available: TC-85GN and TC-135G N



MACHINE DIMENSIONS

Overall Length—**34 ft 4 in**
Overall Height—**8 ft 10 in**
Overall Width—**8 ft 3 in**
Rear-End Length / Swing Radius—**4 ft 11 in**
Lower Carriage Length—**16 ft**
Upperstructure Width—**7 ft 7 in**
Ground Clearance—**4 in**
Counterweight Clearance—**28 in**

SERVICEABILITY

Fuel Tank—**35.7 gal**
Cooling System—**2.7 gal**
Engine Oil with Filter—**3.2 gal**
Hydraulic Tank—**15 gal**
Hydraulic System—**26 gal**

ENGINE

Manufacturer/Model—**Yanmar 4TNV98-WHBW 4 cylinder, certified to EPA interim Tier 4 (IT4), 56.9hp, 202 cu. in.**

ELECTRICAL SYSTEM

24 volt

Alternator—**50 amp**

Batteries—**2 x 12 volt**

HYDRAULICS

Open center, load sensing, hydraulic pilot controls with shutoff lever

PERFORMANCE

Swing Speed and Torque—**10.5 rpm, 12,244 lb.**

Travel Speed—**up to 19 mph**

Max Reach—**27 in**

Min Lift Capacity—**1,100 lb**

OPERATING WEIGHT

19,920 lb

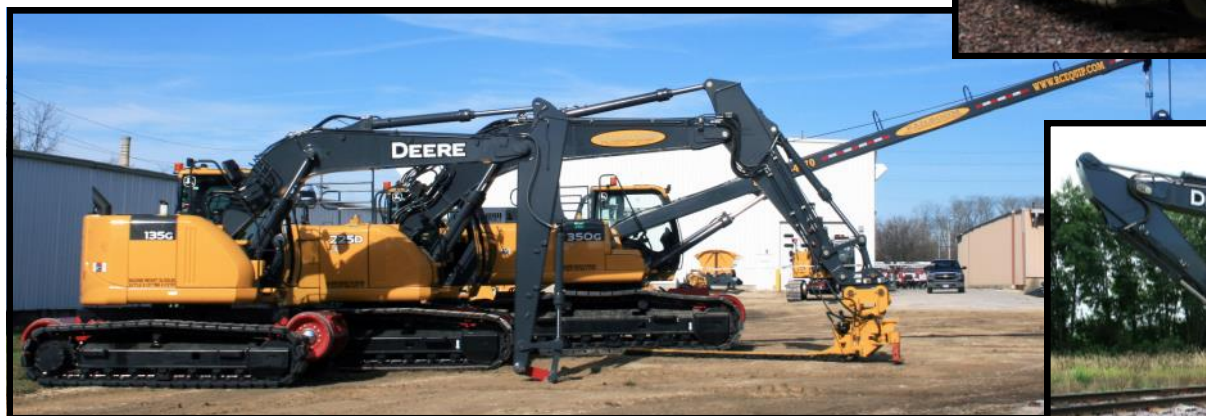


HIGH RAIL

RAILAVATOR

RCE's top-selling product family! RCE's Railavator line-up provides an innovative approach to railroad maintenance tasks. Whether it's pulling rail, cutting brush, craning items, under cutting, or just digging and trenching—the Railavator will arm you for top productivity. Blending versatility with its patented hydraulic powered retractable high rail, you can take it anywhere you need it—hopping on and off the tracks in under 30 seconds. All the power, smoothness, ease of operation and comfort you'd expect from John Deere excavators in a compact, easy-to-maneuver package. Available in six different models. Customizable and emissions compliant. Combined with the proven reliability and latest technology from John Deere, the Railavator provides higher productivity, lower daily operating costs and the worldwide support of the John Deere dealer network.

Models available: 50G, 85G, 135G, 245G, 250G, 350G



KEY FEATURES: G-SERIES EXCAVATORS



- ▶ Tier 4-emission certified engine—fuel efficient, fully integrated and fully supported
- ▶ Powerwise III perfectly balances engine performance and hydraulic flow. Three productivity modes—high, power and economy. When the going gets tough, simply press the power-boost button
- ▶ Wide expanse of front and side glass for all-around visibility. Spacious, noticeably quiet cab
- ▶ Large, easy-to-open service doors and easy access service points
- ▶ A John Deere exclusive, three welded bulkheads within the boom resist torsional stress for unsurpassed durability

RAILAVATOR - FEATURES & ATTACHMENTS

▶ RETRACTABLE TRACK FRAMES

New Feature! The 75G, 85G and 135G have an adjustable lower track frame. When retracted, the machine is under the legal size for transit without a required permit. In work mode, the hydraulically operated frame expands to straddle the track for extra stability.



▶ BRUSHCUTTER

The must-have tool for right-of-way clearing and site preparation! RCE's Brush Cutter is ready to chop, even in the roughest terrain. Maximizing power and convenience, the prime unit of a Railavator is combined with a heavy duty, front mounted shredder cutting head off the excavator arm.

Offering multiple options, RCE's Brush Cutters can be customized by excavator model (high rail and conventional) and size of tree grinding and brush clearing heads. The available mowing heads make a clear cut without the hazards of flying debris.



▶ BRIDGE EXCAVATOR



Meet the new 50G Bridge Excavator! This modified compact excavator was designed specifically for bridge work, featuring ramp clamps to hydraulically clamp to the rail for increased stability and safety. The excavator arm (instead of tie boom) provides extra maneuverability. An optional tie head that clamps and slides is also available.

RAILAVATOR - FEATURES & ATTACHMENTS

RAIL THREADER

The laying of railway track, either in the initial construction of a railway line or when replacing existing rails, is difficult, time consuming and labor intensive. The RCE's rail threader supports and guides the rails on a rail bed, securely and accurately positioning the rail for work.

The rail threader is available on the 245G and 250G Railavators.



UNDER CUTTER



RCE can now supply the 75G, 85G, 135G, 245G, 250G and 350G excavators with under cutter bars ranging from 9 feet to 15 feet in size. By increasing these options, RCE customers can perform under cutting with all the RCE models of hi-rail or standard excavators. The larger machines will have more hydraulic power to perform more efficiently in hard conditions, and the longer bar will be beneficial for switch under cutting. The under cutters feature carbide cutter tips for durability and an optional hydraulic integrated 360 degree rotation system.

VIBRATORY DRIVER

RCE can provide an excavator mounted vibratory driver. This attachment can be easily mounted to an excavator utilizing the existing hydraulic circuitry. Combining high frequency vibration and excavator crowd / retraction forces, the vibratory driver delivers impressive driving and extracting capabilities.



TAMPER HEAD



Spot maintenance where fouled ballast needs to be removed and new ballast tamped into position. RCE's tamper heads—manufactured in-house—feature 360 degree rotation systems and are available in two or four motor configurations.



RAIL BOOM

The first of its kind in the RCE product line, the Rail Boom—a material handling boom—is ideal for lift and hold applications. This attachment provides the ultimate in versatility— one day a Rail Boom, the next an excavator bucket—with ease.

The Rail Boom was designed for a Railavator (high rail excavator), but can be sold separately which provides the option to use conventional excavators sitting in your fleet. It was fully engineered for use on a Deere excavator, but can be modified for all makes equipment.



KEY FEATURES: RAIL BOOM

- ▶ Custom designed for particular application in terms of lift and hook height
- ▶ Engineered with 3D modeling and finite element analysis for stress concentrations
- ▶ All joints machined, brushed and greased
- ▶ Welding to ASTM standards
- ▶ All testing to SAE standards
- ▶ Fully tested load cart Crane Load System with the following features:
 - Load cell with live weighing
 - Overload warning
 - Anti-2 block warning
 - Wireless communication
 - In cab panel
- ▶ Boom angle sensor and off-level sensor
- ▶ Hydraulic de-rate for overload
- ▶ Hydraulic winch with brake
- ▶ 2 part hook block
- ▶ Boom/winch controls in right joystick
- ▶ Auxiliary function to run winch and plumbed to tank for winch brake
- ▶ DY form 18 rotation resistance cable
- ▶ Installation and removal back to an excavator in a day



Pictured on 250G and 350G excavators. RCE can design a boom with additional specifications per request.

RAILAVATOR

ENGINE		POWERTRAIN	HYDRAULICS	SWING MECHANISM AND SERVICEABILITY	OPERATING DIMENSIONS	MACHINE DIMENSIONS
50G	Yanmar / 4 TNV 88, certified to Final Tier 4, 35.9 hp, 134 cu. in. turbo-charged Diesel engine	Two Speed Propel with automatic shift—Travel speed on Crawler Tracks (maximum) Low— 1.6 mph High— 2.6 mph Travel Speed on High Rail (max) — 2.6 mph	Open center, load sensing, auxiliary hydraulic flow adjustable through monitor Main Pumps—2 variable-displacement axial piston pumps, 2 x 31.7 gpm	Swing Speed and Torque— 9 rpm, 10,847 lb. Refill Capacities—Fuel Tank— 18.5 gal Refill Capacities—Hydraulic System— 14.8 gal	Break out Force—Arm Digging— 5,401 lb Break out Force—Bucket Digging— 8,267 lb Lifting Capacity Over Front at Ground Level— 5,531 lb. Maximum Reach—Ground Level— 18 ft 6 in Maximum Digging— 11 ft 7 in Maximum Cutting Height— 18 ft 10 in Maximum Dumping Height— 13 ft 4 in Minimum Swing Radius— 7 ft 3 in Tail Swing Radius— 3 ft 3 in	Overall Length— 17 ft 11 in Overall Height— 8 ft 4 in Cab Height— 8 ft 4 in Overall Width with High Rail Conversion— 6 ft 7 in Upperstructure Width— 6 ft 1 in Ground Clearance— 13 in
	Yanmar / 4 TNV 98, certified to Final Tier 4, 56.9 hp, 202 cu. in. turbo-charged Diesel engine	Two Speed Propel with automatic shift—Travel speed on Crawler Tracks (maximum) Low— 1.9 mph High— 3.1 mph Travel Speed on High Rail (max) — 14 mph	Open center, load sensing, auxiliary hydraulic flow adjustable through monitor Main Pumps—2 variable-displacement axial piston pumps, 2 x 38 gpm Operating Pressure— 4.6 psi Controls—Pilot levers, short stroke, low effort hydraulic pilot controls with shutoff lever	Swing Speed and Torque— 10.5 rpm, 12,244 lb. Refill Capacities—Fuel Tank— 31.7 gal Refill Capacities—Hydraulic System— 15 gal	Break out Force—Arm Digging— 6,902 lb Break out Force—Bucket Digging— 10,467 lb Lifting Capacity Over Front at Ground Level— 5,367 lb. Maximum Reach—Ground Level— 24 ft 9 in Maximum Digging— 14 ft 10 in Maximum Dumping Height— 16 ft 8 in Minimum Swing Radius— 9 ft 6 in Tail Swing Radius— 4 ft 11 in	Overall Length— 22 ft 5 in Overall Height— 8 ft 4 in Cab Height— 8 ft 4 in Overall Width with High Rail Conversion— 8 ft 1 in Ground Clearance— 14 in Counterweight Clearance— 2 ft 4 in
135G	Isuzu 4JJ1, certified to EPA IT4/EU Stage IIIB, 97 hp, 4 cylinder, 182 cu. in. turbocharged Diesel engine	Two Speed Propel with automatic shift—Travel speed on Crawler Tracks (maximum) Low— 2.1 mph High— 3.4 mph Travel Speed on High Rail (max) — 18 mph	Open center, load sensing, auxiliary hydraulic flow adjustable through monitor Main Pumps—2 variable-displacement axial piston pumps, 2 x 28 gpm Operating Pressure— 4.685 psi Controls—Pilot levers, short stroke, low effort hydraulic pilot controls with shutoff lever	Swing Speed and Torque— 13.3 rpm, 25,000 lb. Refill Capacities—Fuel Tank— 58 gal Refill Capacities—Hydraulic System— 33 gal	Break out Force—Arm Digging— 13,521 lb Break out Force—Bucket Digging— 21,480 lb Lifting Capacity Over Front at Ground Level— 5,900 lb. Maximum Reach—Ground Level— 28 ft 7 in Maximum Digging— 19 ft 7 in Maximum Cutting Height— 31 ft 9 in Maximum Dumping Height— 23 ft 8 in Minimum Swing Radius— 4 ft 11 in Tail Swing Radius— 4 ft 11 in	Overall Length— 24 ft 3 in Overall Height— 9 ft 3 in Cab Height— 9 ft 2 in Overall Width with High Rail Conversion— 10 ft 2 in Upperstructure Width— 8 ft 2 in Ground Clearance— 16 in Counterweight Clearance— 2 ft 9 in

ENGINE	POWERTRAIN	HYDRAULICS	SWING MECHANISMS AND SERVICEABILITY	OPERATING DIMENSIONS	MACHINE DIMENSIONS
245G	Isuzu 4 HKIX, certified to EPA IT4/EU Stage IIIB, 159 hp, 4 cylinder, 317 cu. in. turbocharged Diesel engine	Two Speed Propel with automatic shift—Travel speed on Crawler Tracks (maximum) Low— 2.1 mph High— 3.4 mph Travel Speed on High Rail (max) — 17 mph	Open center, load sensing, auxiliary hydraulic flow adjustable through monitor Main Pumps—2 variable-displacement axial piston pumps, 2 x 162 gpm Operating Pressure— 4,980 psi Controls—Pilot levers, short stroke, low effort hydraulic pilot controls with shutoff lever	Swing Speed and Torque— 11.8 rpm, 50,000 lb. Refill Capacities—Fuel Tank— 100 gal Refill Capacities—Hydraulic System— 34.3 gal	Break out Force—Arm Digging— 25,629 lb Break out Force—Bucket Digging— 35,522 lb Lifting Capacity Over Front at Ground Level— 10,922 lb. Maximum Reach—Ground Level— 32 ft 6 in Maximum Digging— 21 ft 9 in Maximum Cutting Height— 36 ft 10 in Maximum Dumping Height— 29 ft 3 in Minimum Swing Radius— 7 ft 10 in Tail Swing Radius— 5 ft 6 in
250G	John Deere PowerTech PVS 6.8 L, certified to EPA Final Tier 4/ EU Stage IV, 188 hp, 6 cylinder, 415 cu. in. turbocharged engine	Two Speed Propel with automatic shift—Travel speed on Crawler Tracks (maximum) Low— 3.3 mph High— 5.5 mph Travel Speed on High Rail (max) — 17 mph	Open center, load sensing, auxiliary hydraulic flow adjustable through monitor Main Pumps—2 variable-displacement axial piston pumps, 2 x 59.2 gpm Operating Pressure— 4,980 psi Controls—Pilot levers, short stroke, low effort hydraulic pilot controls with shutoff lever	Swing Speed and Torque— 13.5 rpm, 57,150 lb. Refill Capacities—Fuel Tank— 132 gal Refill Capacities—Hydraulic System— 63 gal	Break out Force—Arm Digging— 25,629 lb Break out Force—Bucket Digging— 35,522 lb Lifting Capacity Over Front at Ground Level— 10,922 lb. Maximum Reach—Ground Level— 32 ft 6 in Maximum Digging— 21 ft 9 in Maximum Cutting Height— 34 ft 8 in Maximum Dumping Height— 29 ft 3 in Minimum Swing Radius— 11 ft 3 in Tail Swing Radius— 5 ft 6 in
350G	John Deere PowerTech PSS 9.0L, certified to EPA Final Tier 4/ EU Stage IV, 271h hp, 6 cylinder, 549 cu. in. turbocharged engine	Two Speed Propel with automatic shift—Travel speed on Crawler Tracks (maximum) Low— 2.1 mph High— 3.1 mph Travel Speed on High Rail (max) — 17 mph	Open center, load sensing, auxiliary hydraulic flow adjustable through monitor Main Pumps—2 variable-displacement axial piston pumps, 2 x 162 gpm Operating Pressure— 4,980 psi Controls—Pilot levers, short stroke, low effort hydraulic pilot controls with shutoff lever	Swing Speed and Torque— 11.8 rpm, 50,000 lb. Refill Capacities—Fuel Tank— 100 gal Refill Capacities—Hydraulic System— 34.3 gal	Break out Force—Arm Digging— 25,629 lb Break out Force—Bucket Digging— 35,522 lb Lifting Capacity Over Front at Ground Level— 10,922 lb. Maximum Reach—Ground Level— 32 ft 6 in Maximum Digging— 21 ft 9 in Maximum Cutting Height— 35 ft 3 in Maximum Dumping Height— 29 ft 3 in Minimum Swing Radius— 14 ft 8 in Tail Swing Radius— 5 ft 6 in

OTHER PRODUCTS



TIE HEAD

Manufactured in house, RCE's tie head has 360 degree rotation. Various sizes available depending on carrier size.



BACKHOE HIGH RAIL

High rail simplified. With an RCE backhoe with Dymax Rail Rider you could access remote places easily all the time without damage to your equipment. Dymax Rail Rider for backhoe loaders gives you the ultimate flexibility. Get on- and off-track in under a minute, and access remote locations by the most direct route. After all, the quickest way from A to B is a straight line. The Dymax Rail Rider easily attaches to the backhoe loader in 8 hours or less.



RAIL CLIP

RCE has designed a temporary concrete tie restraint device that holds the rail for monitored use until repair crews can get out to fix the affected area. Saving time and thousands of dollars, the Rail Clip can be used on either side of the rail to pull the track back after damage caused by derailment or a broken tower.

Tested in various conditions, the patented design is durable and easy to use.



CARTS

RCE manufactures various products including side dump, material, scrap and tie carts. All can be custom build to desired specifications. Carts feature safety bumpers and derail guards, hydraulic or air actuated disc brakes, heavy duty latches and recessed lift rings in the bed floor.

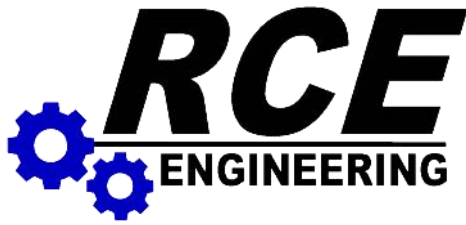


Side Dump Cart—Features 180 degree rotation to easily handle all types of materials from the comfort of the cab



PURCHASE—RENT—LEASE—PARTS—SERVICE

DISTINCTIVE ENGINEERING



At RCE, we're all about customization. With a full-time, on-site engineering team with over 20 years of equipment development experience, rest assured we can bring your vision to reality. The engineering and manufacturing of specialized tools or equipment modifications is done in-house so customers have constant support from beginning to end. The RCE engineering team has designed specialty products and tools for the energy sector, including unique grapples and large drills for specific applications.



PURCHASE—RENT—LEASE—PARTS—SERVICE



1901 Harrison Avenue, Rockford, IL 61104

Toll Free 866-472-4570

Office 815-387-9102

www.rcequip.com

Purchase—Rent—Lease—Parts—Service