



MAINTENANCE OF WAY EQUIPMENT CATALOGUE

January 2017

Presented by:

AMERICAN EQUIPMENT COMPANY

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International Representative

Introduction

American Equipment Company ("AMECO") www.ameco.net is one of the most diversified suppliers of United States of America (USA) manufactured railway products. All of the Company's export efforts are conducted from the Company headquarters in Boca Raton, Florida.

Representing over fifty manufacturers in fifty-eight countries around the world with over forty in-country representatives, AMECO is one of the most diversified suppliers of U.S. manufactured railway equipment products in the world. The Company supplies a wide variety of railway equipment, maintenance of way equipment, locomotive spare parts, locomotive workshop equipment, wheel and axle shop equipment, and permanent way equipment. Equipment supply is complemented by the Company's other services that include financing arrangements, delivery, and product installation.

The Company has established a superior international reputation in over fifty years of operation.

Extensive barriers to entry, a strong international sales force provide AMECO with a rare market position to provide a high level of added value to its relationship with both its principals and its clients.

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Nordco Maintenance of Way Equipment



M7 Ballast Regulator / Profiling Machine



HST Hydraulic Switch Tamper



Auto-Lift Hydraulic Rail Lifter



TRIPP Hydraulic Tie Insertter / Replacer Machine

M7 - Ballast Regulator



Key Features

The M7 - Ballast Regulator includes the following key features:

- Fully enclosed, climate-controlled cab
- Single-pass ballast transfer system
- 1"-thick hydraulically adjustable front plow
- Ballast wings with full joystick control
- Hydraulically driven, cab-controlled broom assembly
- Stone deflector
- Optional snow plowing/removal equipment available
- Ground-controlled, continuous power-up hydraulic turntable
- Cummins Tier III diesel engine
- Four-wheel hydrostatic drive
- Four-speed power shift transmission
- 110V engine oil and block heater
- Hydraulic warm-up valves

Simple component swapouts convert the M7 from a ballast regulator to a snowplow.



M7 - Ballast Regulator

Dual-purpose, four-season machine

Use the M7 as a ballast regulator during spring, summer, and fall. Then simply swap out several components to convert it into a snow-fighting machine in the winter.

Three wing types available for all ballast-sculpting needs

Three available wing types - fixed, rotational, and articulating rotational - allow for precise ballast sculpting and profiling, while handling varying grades of ballast. In addition, the broom is easily adjusted for specific height and tilt requirements.

Handle multiple snow-removal situations

Need to remove snow on your main lines as well as in your yard? The M7 is designed to handle all your snow removal needs:

- Heavy-duty snow wings with 16.5 foot reach on each side
- Positionable three-stage snow auger and blower
- Multi-position snowplow for V-configuration or left/right snow placement

Lower cost of ownership

Since you only need one machine for ballast regulation and snow removal, you save on initial acquisition costs, maintenance costs, and even storage costs - lowering your overall total cost of ownership.

In addition, the M7 uses many of the same components as other Nordco machines, so you can stock fewer maintenance parts.

Optional Equipment

Category	Option Type	Description
Ballast	Wings	Rotational ballast wings, articulating rotational wings
Snow/Winter	Snow/Winter-related accessories	Stairs on broom shroud, snow wings, and snow auger, 110V hydraulic tank heater, 16 ft-reach snow wings, additional lower snow curls, brake de-icing feature, cab-controlled power lockups for snow wings, center flanging plate, Espar airtronic 4 diesel-fired cab heater, Espar diesel-fired engine heater, high-speed V-plow, second operator's suspension seat, snow screw and blower, upper snow curls for front plow
Repair & Maintenance	Lubrication System	Electric top-off pump
	Schroeder test mates	Filters oil to remove engine wear-related metal filings
Other Accessories	Gauges and alarms	Fuel level site gauge, hydraulic reservoir temperature gauge, low hydraulic oil level/high hydraulic oil temperature alarm, hydraulic tank fluid level gauge, hydraulic system pressure gauges
	Lighting and Mirrors	Dome light in engine compartment, electrical cabinet light, locomotive headlights, perimeter lighting package, additional rear view mirror
	Storage	Storage box, additional book storage box
	Miscellaneous	"Danger Live Track" chain-mounted signs, DOT reflective tape, extra parts/operations/maintenance manuals, tow bar with D-handle hitch pins, side window wipers, auxiliary air compressor, 4" vise welded to machine, wheel fenders
	Turntable	Safety interlock and low turntable warning, spring-loaded lock on turntable

Product Specifications

Category	Specification	Value
General	Weight	54,000 lbs
	Length	37'
	Width	11' 4" (with wings in up and locked position)
	Working Clearance	14' 1" (from center of track with one fixed wing extended)
	Height	12' 6"
	Wheel Base	15'
	Travel Speed	40 mph (maximum)
Capacities	Fuel Tank	150 gallons
	Hydraulic Tank	170 gallons
Engine	Make/Model	Cummins, Tier III, turbo-charged, six-cylinder
Hydraulic System	Track Drive Pumps	Sauer Danfoss 90 Series
	Implement and Blower Pumps	Sauer Danfoss 45 Series
Electrical System	Battery	24 Vdc (dual 12V DC batteries), 1150 cold-cranking amps
Axle Drive System	Drive Type	Dual-axle, chain-drive, hydraulic motor driven
Brakes	Type/Style	Cobra-style



HST - Hydraulic Switch Tamper



Key Features

The HST - Hydraulic Switch Tamper includes the following key features:

- Single-operator, climate-controlled, enclosed cab with ergonomic operator station and optional heated outside mirrors
- Electric controls
- John Deere 6.8 liter, Tier III, 175 HP @2200 RPM, four-cycle diesel engine
- 100 gallon fuel tank
- 180 gallon hydraulic oil tank
- High-frequency hydraulic-driven vibratory drop and squeeze workheads with 16 tamping tools (tools vibrate at 3200 VPM with amplitude of 3/8" (9.5 mm))
- Engine-mounted compressor pneumatic system
- 24Vdc (two 12-volt batteries) with 1150 cold-cranking amps
- Dual-axle, hydraulic motor-driven, four-speed transmission
- Air-operated, clasp-type failsafe four-wheel brakes
- 12-month warranty, starting from shipment date



HST - Hydraulic Switch Tamper

Purchase or rebuild options

The Nordco HST - Hydraulic Switch Tamper, completely rebuilt from the frame up, is available through two cost-saving options:

- Purchase one of our already rebuilt HST machines now available in our inventory
- Have us rebuild and upgrade your junior tamper into an HST; multiple tamper models are eligible for this type of conversion

Regardless of your selected option, Nordco will deliver a like-new HST - Hydraulic Switch Tamper that incorporates the latest technology upgrades and carries a full new machine warranty.

Ideal for moderate raises

The HST, a squeeze-type tamper, is ideal for switch tamping at moderate raises. Highly productive, the HST is known throughout the industry for its traversing workheads, performance speeds, simplicity in operation and maintenance, as well its high degree of dependability. In addition, the smaller footprint allows the HST to work in much tighter areas than other tampers.

Robust workheads/tamping tools system

The HST includes four workhead carriages, each containing two hydraulic vibrator tamping units, which in turn each have two tamping tools attached to the underside of the vibrator mount. These hydraulic vibrators deliver a robust 3200 VPM in tamping power. While the workhead carriages are normally configured to work simultaneously, they can be operated independently, if the conditions require it.



Optional Equipment

Category	Option Type	Description
Cab	Cab accessories	Cab window shades, cab pressurizer
Fluid Maintenance	Hydraulic and oil	Hydraulic reservoir temperature gauge in cab, high-pressure filter kit, hydraulic fill pump with stainless tube, electric emergency pump, hydraulic oil low level alarm, hydraulic oil high temperature alarm, hose tree for storage of spare hoses, color-coded remote fluid drains
	Coolant	Remote coolant filter loop
	Fuel	Electric fuel level gauge
Other Accessories	Lighting and mirrors	Perimeter lighting package, heated outside mirrors
	Monitors	Cycle counter, work hour counter
	Miscellaneous	"Danger Live Track" retractable belt, tow bar with D-handle hitch pins, 12V 20 Amp MOW radio circuit, front and rear rail sweeps

Product Specifications

Category	Specification	Value
General	Weight	28,000 lbs
	Length	20' 4"
	Width	10' 6"
	Height	10' 4"
	Travel speed on rail	In excess of 35 mph maximum
	Towing speed	35 mph maximum
	Rated draw bar pull (on rail)	15,000 lbs
Capacities	Fuel tank	100 gallons
	Hydraulic oil tank	180 gallons
	Oil cooler	30 gpm
Hydraulic System	Pressure settings	5000 psi
	Relief cartridge (valve banks)	2700 psi
Engine	Make/Model	John Deere 6.8L, Tier III
	Continuous BHP	175 HP @2200 rpm
	Oil capacity	32.5 liters
Electrical System	Battery	24V Vdc (two 12V batteries, 1150 cold-cranking amps)
	Ground and disconnect	Negative, with positive disconnect
Pneumatic System	Engine-mounted compressor	14 cfm @120 psi
	Tanks	2 @ 6.5 gallons
Axle Drive System	Drive type	Dual-axle drive
	Propulsion type	Hydraulic motor-driven, four-speed transmission
Axle/Wheels	Axle size	5 inch
	Wheel size and type	24-inch, forged steel
Brakes	Indexing	Four-wheel hydro-dynamic
	Traveling	Four-wheel clasp type with fail safe
	Emergency and Parking	Fail-safe spring takeover



Auto Lift - Rail Lifter

Key Features

The Auto Lift - Rail Lifter includes the following key features:

- Remote, adjustable, plate-pushing wands - fully adjustable to adapt to different rail heights and sizes
- Integrated guide rollers for stability during plate insertion
- Hatz diesel engine
- Electric start with neutral start feature
- Vandalism covers over main gauge panels and controls
- 12 VDC, circuit breaker-protected, electrical system
- Work lights over each rail
- Dual-axle, chain-driven propulsion system
- 14" diameter cast-steel wheels
- Single, pressure-compensated hydraulic pump
- Additional cold-weather options available upon request

Easily adjust the workhead to adapt to different rail sizes and heights.

Economical and easily transportable

The small footprint, minimal mechanical components, and low weight make the Auto Lift economical to operate, as well as extremely easy to transport. Heavy-duty cylinders aid in lifting the rails so that plates can be inserted between the rail and the tie.

Single- or dual-rail operation

Single- or dual-rail operating modes make the Auto Lift appropriate for use by both rail and tie gangs. Operators can insert and position plates under one or both rails from the field side. Dual-rail mode requires both operators to activate the propel switch, minimizing incidents.

Quickly adjust to different working conditions

Make simple workhead adjustments to handle the following:

- Different rail sizes
- Different rail heights
- Different tie sizes
- Heavy ballast conditions.

Operator ease of use

The Auto Lift is self propelled, allowing the operators to focus on tie plate insertion and positioning. In addition, the ergonomic controls and the integrated plate-pushing tools make the Auto Lift very intuitive and easy to use.



The Auto Lift's small footprint and light weight make it economical to use and easy to transport.

Stock fewer maintenance parts

Since the Auto Lift uses many of the same components as other Nordco machines, you can stock fewer maintenance parts on your parts wagon.

Ad-hoc rail height adjustments

The rail height manual override option allows for quick, ad-hoc rail height changes for a single plate insertion. In addition, if a section of rail requires continuous manual overrides, a temporary override setting can be quickly set.



The Auto Lift can operator in both single- and dual-operator mode.

Ask us about...

Rebuild Programs

Are your maintenance-of-way machines getting older and less reliable? Nordco can rebuild virtually all maintenance-of-way equipment, regardless of original manufacturer, restoring your machines to like-new status.

Component Exchange Programs

Do you only need a replacement component, such as a workhead or axle, for your maintenance-of-way machine? You can order new or rebuilt components to be delivered directly to your shop or field operations.

Trade-In Programs

Interested in purchasing a new maintenance-of-way machine, but wondering what to do with your existing equipment? In many cases, you can trade in your current equipment for credit towards a new machine.

Rental Programs

Have a short-term need for a particular maintenance-of-way machine? Check our website for a current list of available rental equipment.

Parts Availability

Need parts for your maintenance-of-way machine? Contact our part experts at 1-800-647-1724, Monday through Friday, 7:30 a.m. to 5:00 p.m. US Central Time.

Want to ensure that you order the most essential parts to keep your maintenance-of-way machine operational? Check our website or ask your parts sales representative about the available critical component kits and basic spare part kits for your machine.

Not sure what parts to order for preventive maintenance or winterization? You'll find a large range of kits available - check our website or ask your parts sales representative.

Optional Equipment

Category	Option Type	Description
Engine	Engine Type	Duetz engine
Rail Control	Rail-Related Accessories	Remote adjustable plate-pushing wands and cables
Repair & Maintenance	Fuel/Water Separator	Additional unit
	Corner-mounted jackstands	Holds the unit above the track to allow under-machine repairs
	Remote fluid drains	Allows quick fluid maintenance
Other Accessories	Gauges and alarms	Fuel level site gauge, hydraulic reservoir temperature gauge, low hydraulic oil level/high hydraulic oil temperature alarm
	Lighting	Amber strobe light, perimeter lighting package
	Storage	Additional book storage box, operator belongings box, track tool box
	Miscellaneous	DOT reflective tape, extra parts/operations/maintenance manuals, rail sweeps, tow bar with D-handle hitch pins, additional book storage box

Product Specifications

Category	Specification	Value
General	Weight	4000 lbs
	Length	92"
	Width	72"
	Height	97" (Hatz engine)
	Wheel Base	50"
	Travel Speed	4 mph (maximum)
Capacities	Fuel Tank	10 gallons
	Hydraulic Tank	30 gallons
Engine	Make/Model	Hatz 2M41Z, four-cycle, two-cylinder, air-cooled diesel
Hydraulic System	Pumps	Parker PAVC65
	Control Valves	Piston Pump
Electrical System	Battery	12 Vdc, 1150 cold-cranking amps
Drive System	Drive Type	Dual-axle chain drive
	Axle Type	Stationary
Wheels	Size/Type	14-inch diameter, cast steel



TRIPP - Tie Remover/Inserter



Key Features

The TRIPP - Tie Remover/Inserter includes the following key features:

- Single-operator climate-controlled, enclosed cab
- 82-inch-stroke-length workheads for work on either side of track; 12,880 lbs. insertion force / 20,740 lbs. removal force
- Automatic controls, with manual override
- Cummins Tier III engine
- Four-wheel, dual-axle, hydraulic drives
- Spring-applied, air-released brakes, with Cobra brake shoes
- 24 VDC, circuit breaker-protected, electrical system
- PLC electrical control system
- Dual, pressure-compensated, hydraulic pumps
- Steel manifold-mounted, electrical control valves
- Cab-controlled locks on all cylinders
- Joystick controls

Remove and insert ties from either side of the track, depending on location restrictions.



Minimal disturbance to track structure

The controlled rail lift height system ensures that there is minimal disturbance to the track structure during removal/insertion operations. The weight of the machine, as well as the load transfer inherent in the machine's design, also stabilizes the track during these operations.

Operates from either side of track

82-inch-stroke-length workheads allow the operator to perform removal/insertions from either side of the track, allowing greater control in obstructed or constricted areas; the operator can also access the cab from either side of the machine.

Handles wood and concrete ties

The TRIPP is designed to handle all wood, as well as wood composite, ties. In addition, optional concrete grippers are available to convert the TRIPP to handle concrete ties.

Adjusts for different rail types and heights

Simple switch settings allow the operator to quickly adjust for jointed or welded rail. In addition, operator-controlled settings allow rail lift height adjustments for different rail heights - even different heights on left and right rails.

Robust extraction/insertion force

The TRIPP has the most robust extraction/insertion forces in the industry:

- Extraction force - 20,700 lbs.
- Insertion force - 12,900 lbs.

Adjustable gripper force

The gripper force for the tie gripper assembly can be adjusted for the following:

- Different tie types
- Tie degradation (to prevent further tie disintegration during removal)
- Tie insertion (to prevent damage to new ties)

The gripper force on the tie gripper assembly can be manually adjusted for different tie types and levels of tie degradation.

Ad-hoc rail lift height adjustments

A rail lift jog option lets the operator make ad-hoc rail lift clearance adjustments to handle specific rail or tie conditions. In addition, in-cab controls allow for precise manual positioning of the rail lift assembly; the assembly then automatically returns to its normal settings for the next tie.

Excellent operator visibility

The open design in the workhead area, as well as the floor-to-ceiling windows in the cab, provide excellent operator visibility of tie removal/insertion operations. Also, operator-controlled tie sweeps and brooms clear ballast from the work area, making it easier to view the ties and rail.

Set removal/insertion speeds

Operators can easily adjust for different working conditions, including gang speeds, ballast conditions, and tie conditions, by setting the removal and insertion speeds.

Stock fewer maintenance parts

Since the TRIPP uses many of the same components as other Nordco machines, you can stock fewer maintenance parts on your parts wagon. In addition, the machine's modular design - especially the workhead assemblies - makes components accessible and easy to maintain.



Rail jacks raise the rail while the gripper assembly inserts or removes the tie.

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Optional Equipment

Category	Option Type	Description
Cabin	Cabin accessories	Cab window shades, vandal guards (protective screens over cab windows)
Tie Control	Tie-related accessories	Concrete tie grippers (1 pair), rail lift spotting feature, tie insertion stop device, upgrades to make machine suitable for work in third-rail territory
Engine	Engine upgrade	John Deere Tier IV diesel engine
Repair & Maintenance	Lubrication system	Air-powered grease lubrication system (35# pail & 32' hose)
	Electric hydraulic tank fill system	Allows quick filling of hydraulic tank
	Spare hose tree	Stores extra hoses on the machine
	Remote coolant filter loops	Allows quick filter maintenance
	Schroeder KF 30 case drain return filtration	Filters oil to remove engine wear-related metal filings
Other Accessories	Drive axles	Cab-selectable insulation by-pass for drive axles
	Gauges and alarms	Fuel level site gauge, hydraulic reservoir temperature gauge, low hydraulic oil level/high hydraulic oil temperature alarm
	Lighting and mirrors	Heated outside mirrors, perimeter lighting package
	Storage	Additional book storage box, track tool box
	Miscellaneous	"Danger Live Track" retractable belt, DOT reflective tape, extra parts/operations/maintenance manuals, rail sweeps, tow bar with D-handle hitch pins, windshield washer fluid tank and nozzles

Product Specifications

Category	Specification	Value
General	Weight	36,000 lbs
	Length	36'
	Width	11'
	Working clearance	12' 1" (from center of track with one tie exchanger extended)
	Height	11' 6"
	Wheel base	25'
	Travel speed	23 mph (maximum)
Capacities	Fuel tank	120 gallons
	Hydraulic tank	2 @85 gallons
Engine	Make/Model	Cummins Tier III diesel engine
Hydraulic System	Pumps	Oil Gear PVG
	Control valves	Piston pump
Electrical System	Battery	24 Vdc (dual 12V DC batteries), 1150 cold-cranking amps
Axle Drive System	Drive type	Dual-axle, chain-drive, hydraulic
Brakes	Type/Style	Pneumatically-applied (air), four-wheel, Cobra-style





Nordco Track Inspection Equipment



NRS 260 Ultra-Sonic Rail Flaw Detection Vehicle



NRS 260 Prime Ultra-Sonic Rail Detection Vehicle

NRS-260 Prime Rail Flaw Detection Vehicle



Key Features

- Proprietary wheel probe design, including XL9-11, Sweeper and Tracer wheels
- Dual-rail inspection
- Enhanced side-looking transducers for vertical split head (VSH) detection
- Enhanced gage corner defect detection
- On-board Run-on-Run technology
- Patented enhanced pattern recognition and defect classification
- Forced operator acknowledgment of all anomalies
- Fully integrated Windows operating system with redundant data collection and storage
- Enhanced electrical system capacity, eliminating auxiliary gen-sets and providing greater reliability and quieter operation
- GPS tagging of car movement and defect location, to the thousandth of a mile
- Testing speeds up to 30 mph (50 km/h) under optimal rail conditions

Additional Advantages

- Full-size 4 passenger, high roof vehicle for greater operator comfort
- Full height pass through between front truck cab and rear body to allow all passengers to exit from rear of vehicle and onto center of track during rail testing/inspection
- 23,000lbs GVW does not require special CDL for driver



Full Feature Test Vehicle

The NRS-260 Prime Rail Flaw Detection Vehicle with Freightliner M2 Crew Cab offers a roomy four passenger, high roof front cabin with ample space for supervisors, track inspectors, auditors or other personnel.

Digital signal processing

The NRS-260 Prime features 48-channel digital signal processing, allowing real-time sequential data processing, superior signal-to-noise ratios, and higher testing speeds with fewer false positive test results.

Pattern recognition and defect analysis

Nordco's NRS-260 Prime Rail Flaw Detection Vehicles are fully automated and digital, incorporating the following key features:

- **Pattern recognition defect classification** - incorporates artificial intelligence to recognize common rail conditions, as well as recognize and classify defects. It is an adaptive learning system that adds new defects to the library as they are analyzed, allowing the system to recognize new defects automatically.
- **On-board Run-on-Run** - a comparative analytical tool that compares prior test results to current test results for the same portion of the rail. The system alerts the operator of a match to a prior indication and allows for real-time comparison and the opportunity to identify any changes in the rail's health.

Product Specifications

Category	Specification	Value
Flaw Detection Technology	Test Speed	Up to 30 mph (50 km/h)
	XL9-11 Wheel	9" Rolling Search Unit featuring 11 independent transducers for full coverage of the rail head, web and loss of base. Field and gage side looking transducers for vertical split head detection.
	Sweeper Wheel	9" Rolling Search Unit optimized to detect sub surface shelling and transverse detail fractures.
	Tracer Wheel	6.5" Rolling Search Unit optimized for detection of small gage corner defects.
General	Gross Vehicle Weight	23,000 lbs (10.5 t)
	Dimensions	Width: 9'-9" (3.0 m) with extended mirrors; 8'-8" (2.7m) with collapsed mirrors Height: 12'-3" (3.8 m) on highway Length: 32'-4" (9.9 m) with rear stairs in folded up position
	Hy-rail Gear	14" (356 mm) wheels
	Operating Conditions	-20°F to 110°F (-29°C to 43°F), all weather
Capacities	Couplant	150 gal (568 l)
	Fuel	100 gal (379 l)
	Crew	4 passenger Crew Cab with DOT rated passenger seating
Engine	Type	6.7L Diesel
	Power	200 HP @ 2300 RPM
	Torque	560 lb-ft (760 Nm) @ 1600 RPM

XL9-11 Wheel

The NRS vehicles use Nordco's exclusive XL9-11 wheel probe technology designed specifically to perform ultrasound testing on rail. This 9" rolling search unit includes eleven ultrasonic transducers:

- One zero-degree crystal for both **web coverage** and **base detection**
- One 37.5-degree forward-facing crystal and one 37.5-degree rear-facing crystal for **full rail web coverage**
- Three 70-degree forward-facing crystals (field, center and gage) and three 70-degree rear-facing crystals (field, center and gage) for **full head coverage**
- One side-looking field crystal and one side-looking gage crystal for **longitudinal cross-rail coverage**

Sweeper Wheel

The 9" Sweeper wheel probe is optimized to detect transverse detail fractures beneath sub-surface shelling where field or gage surface conditions are inadequate for traditional detection. One zero-degree transducer and four proprietary shear wave angle transducers focus on head inspection in the field and gage corners. This enables the detection of small transverse defects in these compromised surface zones of the rail head.

Tracer Wheel

The 6.5" tracer wheel probe is oriented at a cant angle, optimized to inspect worn gage corners that cannot be sufficiently inspected with perpendicular oriented RSUs due to contact loss. A set of shear wave transducers is aimed at the gage corner to detect defects in the gage volume of the rail head. A zero degree transducer is used to detect compound features of gage defects that are typically caused by WRI mismatches.



OnePass Ultrasonic Rail Inspection System



Key Features

- High-Definition, 12 channel, battery powered, digital ultrasonic flaw detector
- XL9-11 RSU with direct encoder & quick service mount
- SmartFlow couplant delivery
- On-board Hand Test kit with wireless Flaw Detector Software
- Getac F-110 Tough Tablet, running Win 7
- Common RailTruck software with A-Scan, B-Scan, Recognition Engine & full Audit Capability
- Smart Tracking of GPS locations
- Included Accessories and Transportation options



Advanced, Portable Rail Flaw Detector

OnePass is a portable rail flaw detection system designed to inspect single tracks with only one pass over the rail. This innovative, portable solution for manual rail inspection is ideal for ultrasonic testing in railway yards, crossovers, plug rail and short run applications.

- Nordco has bundled the latest detection and processing technologies in a compact rail test unit to bring leading UT capabilities to hand testing applications. OnePass is designed with the same RSU and Digital Signal Processing Technology as is employed in full featured rail inspection vehicles.
- Ergonomically designed, the OnePass interrogates rail integrity with eleven transducers and represents software recognized defects in a B-Scan view. Defect verification is supported with an integrated hand test kit and on board flaw detection scope software.



Hand Test Kit

XL9-11 Wheel Probe

The OnePass employs Nordco's exclusive XL9-11 wheel probe technology designed specifically to perform ultrasound testing on rail, featuring eleven inspection transducers and a maintenance free direct encoder for local distance measurement:

- One zero-degree crystal for both **web coverage** and **base detection**
- One 37.5-degree forward-facing crystal and one 37.5-degree rear-facing crystal for **full rail web coverage**
- Three 70-degree forward-facing crystals (field, center and gage) and three 70-degree rear-facing crystals (field, center and gage) for **full head coverage**
- One side-looking field crystal and one side-looking gage crystal for **longitudinal cross-rail coverage**



XL 9-11 Wheel Probe
with Direct Encoder

Optional Equipment

Category	Option Type	Description
Universal Configuration	Accessories Kit	Included
	On-board Hand Test Kit	Included, 2.2 lbs (1 kg)
	All-In-One Transport Case	Included, 190 lbs (86 kg) - fully loaded
Options	Service Vehicle Kit	Small Tool Case, Vehicle bracket, Cardboard Box Shipping
	Outtrigger	Tripod mount, keeping the Onepass vertically aligned. Ideal for long range tests.
	Rain & Sun Shield	Canvas protection for tablet to keep tablet shaded and dry.

Product Specifications

Category	Specification	Value
Flaw Detection Technology	UT Signal Processor	High-Definition, 12 Channel Digital Distance Resolution: 1/48" (0.5mm)
	XL9-11 Wheel	9" Rolling Search Unit with light weight construction, featuring 11 independent transducers for full coverage of the rail head, web and loss of base. Field and gage side looking transducers for vertical split head detection.
	Rail Capture	Self-retracting, adaptive roller mechanism
	Computer	Getac F-110 Tough Tablet with GPS & WiFi Touch Screen, GPS, 8GB RAM, 128GB SSD, 4G LTE, WIFI
	Software	RailTruck V7.x Digitizer, A-Scan, B-Scan, audible test record SmartTrack V1.x Asset Tracking & GPS breadcrumbs GPS Defect Tagging
	Operating System	Windows 7
Capacities	System Battery	24V, 15Ah Li-Mn with up to 5 hours Capacity or 24V, 13Ah Ni-Mh with up to 4 hours Capacity (can be airshipped)
	Couplant Capacity	5 quarts with SmartFlow Technology
	Weight	OnePass: 60 lbs (27.2 kg) - empty tank Tablet & Holder: 6.6 lbs (3 kg)



Common Rail Test Software App

1. A-Scan & Digital Scope
2. B-Scan with Defect tagging
3. Recognition Engine & Context View
4. Project & Defect tracking
5. Pause Test feature
6. SmartFlow Couplant control
7. Audio feedback
8. Wireless communication
9. GPS tracking OnePass & Defects

**No extra training
needed!**

**Same software runs
on OnePass and
Nordco's Rail Trucks**





Badger / Little Giant Equipment



Little Giant SPR48 Rail Crane



Badger CD4430R Rough Terrain / Rail Crane

SPR 48 Workcrane

ON & OFF THE ROAD OR RAIL –
REACHING NEW HEIGHTS
AND WORKING HARDER THAN EVER.



LITTLE*Giant*

with the railroad industry in producing hydraulic track cranes, rail dedicated cranes, truck mounted cranes and rough terrain material handlers.

Little Giant cranes are working every day in every corner of the world and are known for their ease of maintenance and cost-effective design.

For more than a half-century, the Little Giant Corporation has been a name synonymous



SPR 48 Workcrane

SPECIFICATIONS

100% Rail dedicated self-propelled 20-ton lattice boom is a true hybrid workhorse.

With the ability to travel the rails on hook-up to a work train, this crane is unmatched in durability and strength of its components. Tackle the tough jobs of picking scrap steel with an optional magnet or use a clam shell bucket to empty railcars.

This **SPR 48 Workcrane** is custom-built to your specifications and has many available options. The SPR 48 has been completely updated with railroad safety items including special pinch point areas, reflective striping, flashing beacons, fire extinguishers, air horns, and color-coded fuel and hydraulic tanks.

The Little Giant SPR 48 is the railroad's choice for a real workhorse!

UPPER SPECIFICATIONS

ENGINE

- Cummins QSB-6.7-Tier 3
- 215 HP (160kw) @ 2,500 RPM
- 655 lb/ft torque (888Nm) @ 1,500 RPM

ELECTRICAL

12 Volt w/100 Amp Alternator, Heavy Duty Battery, Accessories, Operator Indicators, and Emergency Hydraulic Pump

MASTER CLUTCH

Disconnected Clutch for Cold Weather Starting

HYDRAULIC SYSTEM

A Triple Pad Pump Drive Operates Two Variable Displacement, Hydrostatically

Controlled Pumps and a Double or Triple Rotary Gear Pump to Power Crane Functions

TURNTABLE

Ball Bearing, Single Row, Bolted to Upper Structure and Carrier for Easy Removal

CONTROLS

Air, Variable Control, Adjustable for Self-Centering or Lock-In Operation

THROTTLE

Variable Speed, Hand -
Optional Foot Throttle

SWING SPEED

6 RPM

LINE SPEED

198 FPM

LINE PULL

13,000 lbs. with 12" Drum

DRUM CLUTCHES

Two Shoe, Internal Expanding, Air Operated, 21-3/4" Diameter x 3" Wide

DRUM BRAKES

External Contracting, Band Type, 25" Diameter x 4" Wide

POWER LOAD LOWERING

Both Drums

BOOM HOIST

Power Up & Power Down, Independent of ALL Other Functions

STANDARD FEATURES

Telescopic Boom Backstops, Automatic Boom Hoist Kickout, Boom Angle Indicator, Pendant Cable Suspension, Signal Horn, Tool Box, Fire Extinguisher, Anti-Two Block Warning, Triple Sheave Boom Point

OPTIONAL

Third Drum, Boom Point Fairlead, Magnet Equipment, Crane Hook Readout Systems, Train Air Supply, Car Dump System, Hydraulic Out & Down Outriggers

CARRIER SPECIFICATIONS

OPERATING WEIGHT

90,000 lbs.

DRAWBAR PULL

18,000 lbs.

TRAVEL DRIVE

A Variable Displacement Hydraulic Motor Provides Power through a Power Shift, Three-Speed, Full Reversing Transmission to both Axles. Axles are Right Angle, Shaft Mounted, Railway Speed Reducers with Torque Arm Mounts. Axles also have Pneumatic Towing Disconnects for In-Train Towing. Rail Speed when not being towed Infinitely Variable to 28 MPH Maximum.

FRAME

18" x 71# Wide Flange Beam Construction with 1-1/2" End Plates

AXLE

28" MW Wheel with AAR Standard 6x11 Bearings and AAR Type Brakes with Straight and Automatic Control

SUSPENSION

Rubber Springs - All Rubber Suspension

COUPLER

Type 'E' Automatic Engine Coupler ADF Pattern BE64
(AAR Standard) Spring Loaded

All specifications are subject to change.



SPR 48 Workcrane

LOAD CHARTS

SPR 48 LOAD CHART

LENGTH FT.	RADIUS FT.	ANGLE °	LOWER Boom Mount Over End on Rail <i>or</i> 360° on Outriggers	UPPER Boom Mount Over End on Rail <i>or</i> 360° on Outriggers	EITHER Boom Mount Over Side on Rail
30'	10	75	40,000	40,000	30,200
	12	71	40,000	36,800	23,700
	15	65	35,600	28,500	17,800
	20	54	25,200	20,000	12,500
	25	41	18,000	14,500	9,500
	30	23	12,900	9,600	7,600
35'	12	74	40,000	36,000	23,600
	15	69	34,900	28,100	17,700
	20	59	25,200	20,200	12,400
	25	50	19,200	15,200	9,400
	30	38	14,700	11,500	7,500
	35	21	10,500	7,800	6,100
40'	15	71	34,100	27,500	17,700
	20	64	24,700	20,000	12,300
	25	55	19,200	15,300	9,300
	30	46	15,200	12,000	7,400
	35	35	12,100	9,300	5,000
	40	19	8,900	6,500	5,000
45'	15	74	33,100	27,000	17,600
	20	67	24,200	19,600	12,200
	25	60	18,900	15,300	9,200
	30	52	15,400	12,200	7,300
	35	43	12,500	9,800	5,900
	40	33	10,100	7,700	5,000
50'	45	18	7,500	5,400	4,200
	15	75	32,300	26,400	17,500
	20	69	23,600	19,300	12,100
	25	63	18,600	15,100	9,100
	30	56	15,200	12,100	7,200
	35	49	12,600	9,900	5,800
55'	40	41	10,400	8,100	4,800
	45	31	8,400	6,400	4,100
	50	17	6,400	4,500	3,500
	20	71	23,200	18,900	12,000
	25	66	18,200	14,800	9,000
	30	60	14,900	12,000	7,100
55'	35	54	12,400	9,800	5,700
	40	47	10,500	8,200	4,700
	45	39	8,900	6,800	4,000
	50	30	7,200	5,300	3,400
	55	17	5,500	3,800	2,900

1. All operators and support personnel shall read and fully understand manufacturer furnished operator's manual, the latest applicable American National Standards Institute (ANSI) Safety Standards for Cranes, and any applicable federal, state, or local safety regulations before operating machine. Crane and load ratings comply with ANSI and Power Crane & Shovel Association (PCSA) Standards.

2. **ALL "ON OUTRIGGER"** lifts shall be made with outrigger beams fully extended and jacks extended to fully support and level machine.

3. Underlined ratings are based on machine's structural strength. All other ratings do not exceed 85% of tipping load on rail and 80% of tipping on outriggers with machine stable on firm ground.

4. **DO NOT EXCEED** crane load ratings. When load radius or boom angle are between listed values, use the smaller load ratings. **DO NOT ATTEMPT TO TIP MACHINE TO DETERMINE ALLOWABLE LOADS.**

5. Weight of hook blocks, buckets, slings, and all other load handling devices are not accounted for in the load chart. The load handling device must be considered as part of the load.

6. Reduce ratings appropriately for wind conditions, speed of operation, soft or uneven supporting surfaces, etc.

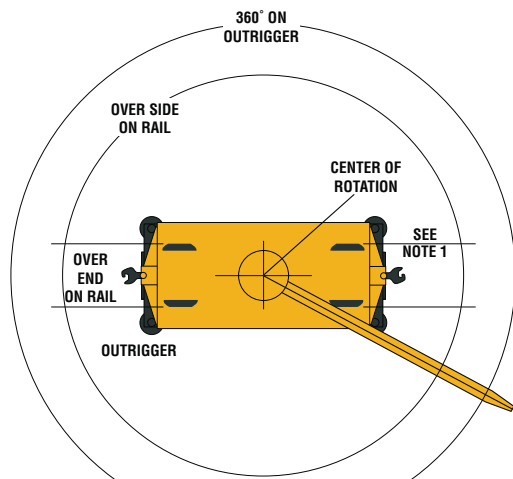
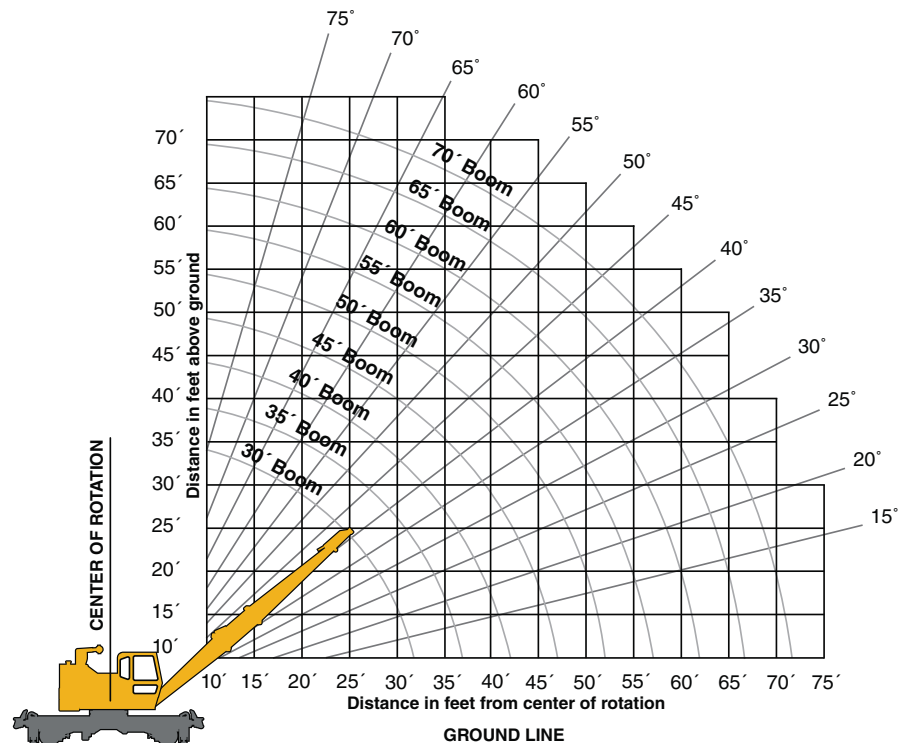
7. Load ratings apply to this machine **ONLY** as originally manufactured and equipped. Unauthorized modification or optional equipment may reduce load capacity. Please consult LITTLE GIANT **before** modification or use of optional equipment not covered on this chart.

8. These load ratings are for lift service only. Consult & adhere to appropriate load ratings chart for other applications (*clamshell, dragline, magnet, etc.*)

RECOMMENDATIONS: *5/8-6X19 Extra Improved Plowsteel IWRC Wire Rope

PARTS OF LINE	1	2	3	4	5
MAX. HOOK LOAD	10,000	20,000	30,000	40,000	50,000

All specifications are subject to change.

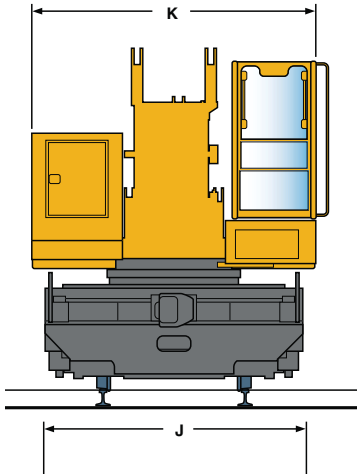
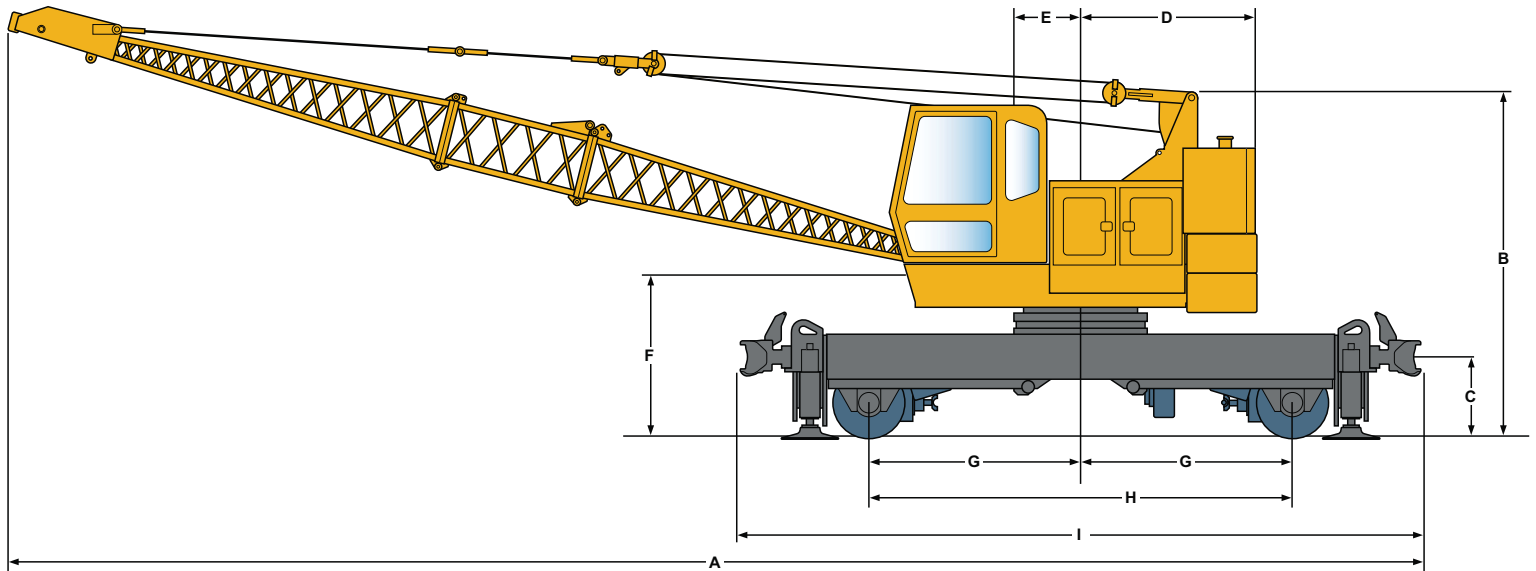


NOTE 1:
These lines determine the limiting position of any load for operation within indicated working areas.



SPR 48 Workcrane

GENERAL DIMENSIONS



Description	U.S.	Metric
A Overall length with 30' Boom	43' 0"	13.10m
B Maximum Height Above Rail	11' 8"	3.56m
C Rail to Counterweight	4' 1"	1.24m
D Maximum Swing Clearance	6' 3"	1.91m
E Boom Foot Pin to Center of Rotation	1' 9"	0.55m
F Rail to Boom Foot Pin	6' 8"	2.03m
G FRONT/Rear Axle to Center of Rotation	7' 4"	2.23m
H Wheelbase	14' 8"	4.47m
I Carrier Length with Couplers	24' 0"	7.32m
J Carrier Width	9' 0"	2.74m
K Overall Width for Travel	10' 5"	3.17m
L Operating Weight	*90,000 lbs.	*40823 kg.

* Estimated Operating Weight

All specifications are subject to change.

OPTIONS FOR MODEL SPR 48 WORKCRANE

Model SPR 48 Rail Dedicated 20-Ton Crane with 215 HP Cummins QSB-6.7-Tier 3

- 5' Boom Extension with Pendent Cables
- 10' Boom Extension with Pendent Cables
- 20' Boom Extension with Pendent Cables
- Full Revolving Fairlead
- Boom Tip Fairlead
- LSI Load Moment System
- A-2-B Load Moment System
- Drum Rotation Indicators (both drums)
- Anti-Vandal Kit for Carrier and Upper
- 10-Ton Hook Block
- 20-Ton Hook Block
- 3rd Drum Winch (hydraulic drive)
- Air Conditioner - Upper Cab
- Outrigger - Out and Down Cab Controlled
- Tagline - Single Barrel
- Electro-magnet 10KW Generator w/Tagline and Controls
- 40" Magnet
- 1/2 Yard Dragline Bucket
- 3/4 Yard Dragline Bucket
- Air Car Dump

NOTE: For clamshell and dragline applications you will need to order a revolving fairlead, boom tip fairlead, and a tagline.





- *Integrated Hi-Rail system by Badger*
- *Thread rail*
- *Lift rail onto tracks*
- *Hoist machinery on/off tracks*
- *Built to tough railroad standards*
- *F.R.A compliant*
- *Integrated safety features*
- *Ergonomically engineered*
- *Tier III Cummins engine*



SERIES GD4430R Rough Terrain Crane

FEATURES

- 2 Section 53' Boom
- Self Lubricating Boom Slider Pads
- Two Speed Planetary Grooved Drum Hoist - with negative draft flange
- Auxiliary Hoist Option
- Hoist Drum Rotation Indicator
- High Visibility Cab – with multi position seat, in dash display, main wiper and upper wiper
- Electronic Joystick Controls
- Continuous 360 Degree Rotation
- Optional Load Moment Indicator – with digital display, CANbus system interface and overload shutdown
- Radio Anti Two Block System
- Rugged, Weatherproof Automotive Style Electrical System
- Design meets ANSI B30.5 Recommendations
- Heavy Duty Steel Fenders – integrated with the fuel and hydraulic tanks
- Electronically Controlled Powershift – six (6) forward speeds and six (6) reverse speeds
- All Wheel Drive – all wheel steer and crab steering
- Auto Centering Axles – rear have oscillation
- Hydraulic Disc Brakes (4)
- Planetary Swing Drive - two on the 4430R
- Swing Brake – two on the 4430R
- 24 Volt System
- Cantilever Style Outriggers
- Operators Manual, Parts and Service Manual Included

ENGINE

Cummins QSB 4.5 diesel engine, turbocharged, 4 cylinder water cooled 160 HP @2500 RPM (or Optional QSB 6.7 160 HP 6 cylinder). Electronic sensors and controls to reduce service issues and provide easy maintenance. Cummins 2 year, 2000 hour standard engine warranty.

Engine accessories:

- Dry type air cleaner, with restriction indicator.
- Grid block heater.

POWER TRAIN:

Electronically controlled powershift with six (6) forward speeds and six (6) reverse speeds. Torque converter.

- 3 forward speeds, high range.
 - 3 forward speeds, low range
 - Rear axle disconnect
- Maximum top travel speed of 25-MPH.*

AXLES:

Front: Rigid, front planetary type steer axle.

Rear: Oscillating rear planetary steer axle. Both offer optional Auto Centering feature.

SUSPENSION:

Oscillation with hydraulic lockout device.

BRAKES:

Fully hydraulic disc type brakes on all four wheel locations.

Emergency braking and parking brake system is spring applied and hydraulic release mounted on the front axle input shaft.

TIRES:

Manufacturers standard of sufficient load capacity for a fully loaded crane to perform pick and carry operation. All optional foam-filled tires are matching and of premium grade. Spare tire mounted on rim is optional.

STEERING:

Hydraulic four wheel power steering with tilt steering column.

Hydraulic type steering with four (4) steering modes.

- 2 wheel front
- 2 wheel rear
- 4 wheel coordinated
- 4 wheel crab

Synchronized auto centering is standard.

ELECTRICAL:

24 volt charging system with weather proof electrical harnesses.

Alternator: 70 ampere minimum rated capacity

Batteries: Two (2) batteries.

FUEL TANK:

Tank capacity is 75 gallons. Optional 110 gallon capacity.

CARRIER:

High tensile steel with all welded triple-box beam construction fully reinforced. Fully machined turntable mounting plate and integrally welded outrigger mounts. Decking has skid resistant surfaces including tool storage compartment. Access steps and grab handles are provided on left and right sides as well as front and rear corners. High-tensile steel design that produces high strength frame that reduces bending and weight.

General Spec

OPERATORS CAB:

Fully enclosed one (1) person clearview pressurized cab mounted on the front center of the carrier. All steel construction and has two hinged entry doors with tinted safety glass windows and shatter resistant windshield and roof glass.

- Air conditioning, automotive dash style
- Two each lockable exit doors (right and left side with shock absorber design)
- Sliding windows in doors
- Mirrors
- Fire extinguisher
- Adjustable sun visor
- Windshield wiper
- Heater and defroster - 12000 btu hot water
- Eleven way adjustable, cushioned seat with seat belt.

ELECTRONIC INSTRUMENT PANEL:

- Fuel level
- Tachometer
- Speedometer
- 6.5" LCD CANbus display
- Engine oil pressure
- Hydraulic oil pressure
- Engine water temperature
- Torque converter oil temperature

Additional Equipment:

- Slow moving vehicle sign
- Emergency 24v pump for hydraulics
- Factory installed work lights
- Factory installed turn signals
- Back up alarm, steam cleanable, "ECCO"

HYDRAULIC SYSTEM:

- Boom telescope
- Boom hoist
- Boom swing
- Winching
- Outriggers

PUMPS:

Three (3) variable piston pumps for all crane functions.

CYLINDERS:

Double acting and of adequate size and length for all service functions.

HYDRAULIC RESERVOIR:

110 gallon minimum capacity reservoir with oil level and temperature indicator. Tank is constructed of steel and has internal baffles and diffuser. Filtration is 10-micron return filter with bypass protection and is located on the exterior of the hydraulic tank. [Class 22/18/13E ISO4406-1999]

HYDRAULIC LINES:

All hydraulic lines are pressure compensated/load sensing system for all crane operating functions and have provisions to prevent chaffing during operation. All fittings are O-Ring face seal type.

BOOM:

Fully synchronized, two (2) section boom (30.5' to 53' in length) of six-sided box type construction. Consists of one (1) double acting telescopic cylinder. The cylinder is equipped with integral holding valves. Accessible wear pads for both vertical and horizontal forces support boom sections. Made of formed and welded high-tensile steel plate for maximum strength and weight ratio. Contact factory for boom options.

Specifications

UPPER STRUCTURE:

All welded design made from high alloy steel plate.
Bolt on cast counterweight – 9000 lbs.

BOOM HEAD:

Welded to the inner boom section with a minimum of five (5) sheaves mounted on heavy duty anti-friction bearings.
Auxiliary lifting sheave mounted on the main boom for single line work.

TURNTABLE:

Upper structure is mounted on an anti-friction bearing of the shear ball design. Single row, ball type with external teeth and is bolted to the revolving upper structure and bolted to the carrier frame.

BOOM SWING AND BRAKE SYSTEM:

Boom swing is 360 continuous and is hydraulically driven through planetary reduction type gears. Maximum swing speed (unloaded) is 3 R.P.M. Swing brake is heavy duty multiple disk actuated automatically from the operators cab. Two (2) position swing lock for pick and carry as well as travel modes.

MAIN HOIST:

Lebus grooved drum driven by a 2 speed hydraulic axial piston motor through a winch speed reducer for power load lowering and raising. Equipped with a counterbalance and wet disk brake system. Includes a drum rotation indicator.

WIRE ROPE:

Has three (3) complete wraps of cable on the drum at maximum boom extension and elevation with line at maximum parting and the hook block at ground level. Cable is 5/8" x 433 feet minimum. Maximum permissible load is 10,000 pounds with a minimum line speed of 385-FPM.

LOAD BLOCK:

Rating exceeds the cranes gross lift capacity and is equipped with a safety latch and is permanently marked with the maximum capacity. A five (5)-part sheave block and swivel hook with safety latch is provided.

OPTIONAL AUXILIARY HOIST:

Lebus grooved drum driven by a 2 speed hydraulic axial piston motor through a winch speed reducer for power load lowering and raising. Equipped with an automatic brake and counterbalance valve. Auxiliary hoist is controlled independently of the main hoist.

WIRE ROPE:

Three (3) complete wraps of cable on the auxiliary drum at maximum boom extension and elevation (including jib use) with the hook block at ground level.

OPTIONAL 7.5 TON OVER HAUL BALL:

Furnished with a down-haul weight of sufficient size and weight to keep the cable tightly wrapped on the auxiliary winch drum. Hook is equipped with a safety latch.

ANTI TWO BLOCK DEVICE:

Unit has a pendant type wireless warning device with audio alarm and warning light.

CONTROLS:

Hand Controls are electronic joystick controlled type. All levers and pedals will be positioned for optimum efficiency.

Hand operated controls include the following:

- Swing
- Main winch
- Auxiliary winch
- Throttle lock
- Boom hoist
- High and low winch speed control
- Swing Brake
- Boom telescope
- Horn

Foot controls include:

- Accelerator
- Service brakes

Control switches include the following:

- Lights
- Ignition
- Engine stop
- Parking brake
- Steering modes
- Windshield wipers
- A.C./Heater/Defroster
- Outriggers

Permanently engraved labels, indicating control function and direction are furnished.

MULTI POSITION OUTRIGGERS:

Cantilever style outriggers are standard.

LIGHTING:

The following lights are furnished and installed:

Two (2) brake/turn taillights.
Two (2) sealed beam headlights.
Optional Four (4) worklights.
Optional perimeter lighting.
Strobe lights.

F.R.A. COMPLIANT PACKAGE:

Standard on the CD4425R and CD4430R. Friction drive High-Rail gear with anti-free wheel design.

WARRANTY:

1 year and 1500 hours standard warranty.

All specifications are subject to change.

LSI SYSTEM

The Standard System currently included is a load indicator system A2B; this is a wireless system that has only audible alarm and function kick-out for A2B. This is standard equipment and is required by ASME B30.5 crane standard. It indicates load, boom length, boom angle, and two block status. This gives you an automatic shut down safety feature, and additional LSI graphical display on the dashboard. This system prevents the operator from lifting an un-safe load as long as the operator does not bypass the system in any way (ie removing the load cell from the hook or pressing the bypass switch). Be advised that the load cells and A2B switches should not be used during duty cycle work (ie threading rail or other rapid swinging and lowering operation) and should be stored on the machine.

OPTIONS

- Recovery Winch
- Side Handrails
- Front Windshield Protection Screening
- All Windows Anti-Vandal Protection Screening
- Rear View Wide Angle Camera(s) With Color Monitor in Dash
- Hydraulic Tool Ports and Hose Reel
- Pintle Hitch – Rear
- Boom Tip Fairlead
- F.R.A. Compliance Package (std on CD4425R and CD4430R)
- Anti-Vandal Kit for Locks and Caps
- Install Customer Accessories, Radios and Sirens
- Custom Fleet Colors
- Wide Stance Machine (rail models only)
- Work Lights
- Perimeter Night Lighting
- Extra Mirrors to View Outriggers
- Outrigger Travel Latches
- Open Door Latches
- Optional Heated Seat



CD4425R
20-25 TON CAPACITY
Machine weight 55,500 lbs.



CD4430R
30 TON CAPACITY
HI-RAIL EQUIPPED
Machine weight 58,500 lbs. (2 section boom)

CD4425R

LIFTING CAPACITIES - POUNDS 2 SECTION (30.5' - 53' BOOM)

On OUTRIGGERS

LOAD RADIUS (ft)	BOOM LENGTH (ft)																	
	31			35			40			45			50			53		
	BOOM ANGLE (deg)	OVER FRONT (lb)	360° (lb)	BOOM ANGLE (deg)	OVER FRONT (lb)	360° (lb)	BOOM ANGLE (deg)	OVER FRONT (lb)	360° (lb)	BOOM ANGLE (deg)	OVER FRONT (lb)	360° (lb)	BOOM ANGLE (deg)	OVER FRONT (lb)	360° (lb)	BOOM ANGLE (deg)	OVER FRONT (lb)	360° (lb)
10	61	50000	50000	65	45800	45800	68	45800	45800	71	45800	45800						
12	57	41650	41650	61	41650	41650	65	41650	41650	68	41650	41650	70	37500	37500	71	35000	35000
15	50	33300	33300	55	33000	33300	60	33300	33300	64	33300	33300	66	33300	33300	68	28000	28000
20	36	25000	25000	44	25000	25000	51	25000	25000	56	25000	25000	60	25000	25000	62	25000	25000
25	15	20000	20000	31	20000	20000	41	20000	20000	48	20000	20000	53	20000	20000	56	20000	20000
30				0	16650	16650	29	16650	16650	39	16650	16650	46	16650	15000	49	16000	15000
35							0	14250	13100	27	14250	11000	37	14000	11000	41	14000	11000
40										0	12500	8500	26	12000	8500	32	12000	8500
45													0	10000	7800	19	10000	7800
48																0	9000	6700

On RAIL

On RAIL		360° STATIONARY				15° DEFINED ARC COVER FRONT				
		Superelevation			Creep (Superelevation)					
LOAD RADIUS (ft)	50 MAX BOOM LENGTH (ft)	0 (mph)	< 2 (in)	2 < 4 (in)	4 < 6 (in)	0 (mph)	< 2 (in)	2 < 4 (in)	4 < 6 (in)	MAX NO LOAD LOAD BOOM (deg)
10	30.5	18000				39750				61
12	30.5	16100				35250	28200			56
15	30.5	13500	10800	9000	7200	30000	24000	20000	16000	49
20	35	9150	7320	6100	4880	22500	18000	15000	12000	44
25	37	5250	4200	3500	2800	17400	13920	11600	9280	36
30	40	4300	3456	2880	2304	13425	10740	8950	7160	29
35	45	3500	2805	2338	1870	10500	8400	7000	5600	27
40	50	2700	2220	1850	1480	8475	6780	5650	4520	26
45	53	2000	1620	1350	1080	7050	5640	4700	3760	19
48	53	1700	1356	1130	904	6450	5160	4300	3440	0

On TIRES

LOAD RADIUS (ft)	MAX BOOM LENGTH (ft)	PICK AND CARRY			
		Stationary	Creep	2.5 MPH	
		360° (lb)	OVER FRONT DEFINED ARC (lb)	STRAIGHT OVER FRONT (lb)	
10	30.5	18000	33000	25000	21000
12	30.5	15000	29000	22000	18000
15	40	11000	23000	17500	15000
20	40	7000	15000	13000	11000
25	45	5000	11000	9000	8000
30	45	3000	7000	7000	6000
35	45	2000	6000	6000	5000
40	53	1500	5000	5000	4000
45	53		3500	3500	3500
48	53		3000	3000	3000

Recommended Tire Pressure				
Tire Size	Stationary	Creep	2.5 MPH	Travel
16.00 X 25-32 PLY	125 PSI	125 PSI	95 PSI	95 PSI

Parts of Line	1	2	3	4	5	6
MAX. HOOK LOAD	10000	20000	30000	40000	50000	60000

1. All operators and support personnel shall read and fully understand manufacturer furnished operator's manual, latest applicable American National Standards Institute (ANSI) Safety Standards for Cranes, and any applicable federal, state, or local safety regulations before operating machine. Crane and load ratings comply with ANSI and Power Crane & Shovel Association (PCSA) Standards.

2. All "ON OUTRIGGER" lifts shall be made with outrigger arms fully extended to fully support and level machine (tires off supporting surface). Additional structural blocking or cribbing may be required for some applications.

3. All ratings where reversed text appears are based on 85% of tipping load "ON OUTRIGGERS" and 75% of tipping "ON TIRES" with machine stable on firm level

ground. Ratings where text is **not** reversed are based on structural competence. Boom angles are undeflected boom angles.

4. **DO NOT EXCEED** crane load ratings. When load radius or boom angle are between listed values, use the smaller load rating. **DO NOT ATTEMPT TO TIP MACHINE TO DETERMINE ALLOWABLE LOADS.**

5. Weights of hook blocks, bucket, slings, and all other load handling devices are not accounted for in the load chart. The load handling devices must be considered as part of the load.

6. Reduce ratings appropriately for wind conditions, speed of operation, soft or uneven supporting surfaces, etc.

CAUTION - IN WIND OVER 30 MPH, CEASE OPERATION; POSITION BOOM AWAY FROM WIND AND LOWER BOOM BELOW 60°.

IN WIND OVER 50 MPH, FULLY RETRACT AND LOWER BOOM TO LOWEST POSSIBLE POSITION.

7. Load ratings apply to this machine only as originally manufactured and equipped. Unauthorized modification or optional equipment may reduce load capacity. Please consult Badger Equipment **BEFORE** modification or use of optional equipment not covered in this chart.

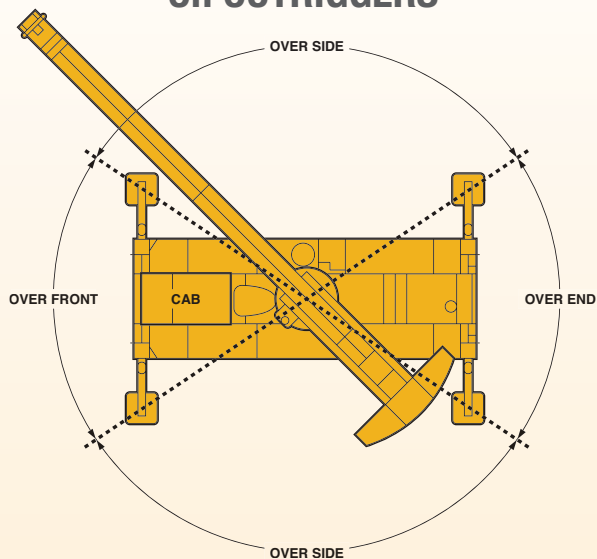
8. **DO NOT** lift over operator cab.

9. **WARNING** - These load ratings are for lift service only.

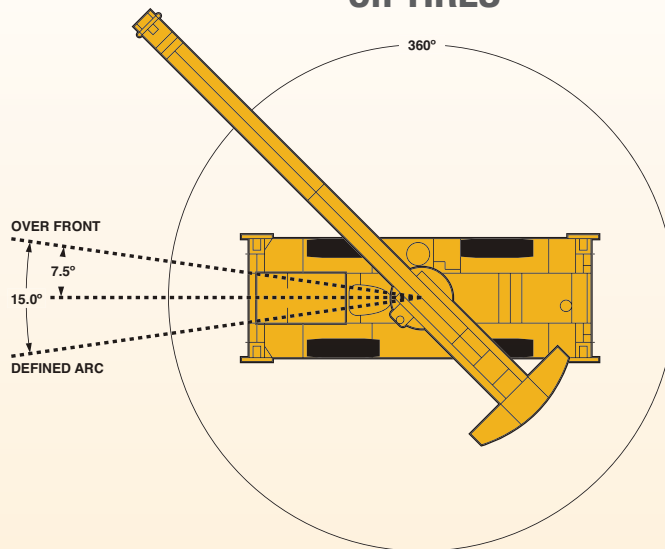
Load Chart

TOP-DOWN DIAGRAMS

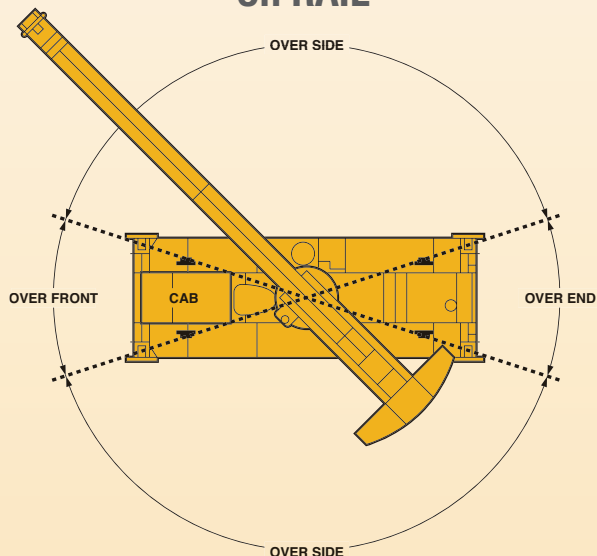
On OUTRIGGERS



On TIRES



On RAIL



10. Pick and carry load ratings are shown in load chart for on tires. Boom must be above 0°.

11. Load shall be restrained from swinging and shall be positioned as close to the ground as possible over the front along the carrier's lengthwise centerline. **DO NOT** exceed 2.5 MPH (4 Km/h) travel speed using smooth starts and stops. "Creep" is movement not to exceed 200 ft in a 30 min period. Other crane operations **SHALL NOT** be permitted when transporting a load.

OPTIONAL – Foam Filled Tires

RECOMMENDATIONS:

5/8" – 6 x 19 Class – 6 x 25 FW, PRF, RRL, XIP, IWRC Wire Rope



CD4430R

LIFTING CAPACITIES - POUNDS 2 SECTION (30.5' - 53' BOOM)

On OUTRIGGERS

LOAD RADIUS (ft)	BOOM LENGTH (ft)																	
	31			35			40			45			50			53		
	BOOM ANGLE (deg)	OVER FRONT (lb)	360° (lb)	BOOM ANGLE (deg)	OVER FRONT (lb)	360° (lb)	BOOM ANGLE (deg)	OVER FRONT (lb)	360° (lb)	BOOM ANGLE (deg)	OVER FRONT (lb)	360° (lb)	BOOM ANGLE (deg)	OVER FRONT (lb)	360° (lb)	BOOM ANGLE (deg)	OVER FRONT (lb)	360° (lb)
10	61	60000	60000	65	55000	55000	68	55000	55000	71	55000	55000						
12	57	50000	50000	61	50000	50000	65	50000	50000	68	50000	50000	70	45000	45000	71	42000	42000
15	50	40000	40000	55	40000	40000	60	40000	40000	64	40000	40000	66	40000	40000	68	33600	33600
20	36	30000	30000	44	30000	30000	51	30000	30000	56	30000	30000	60	30000	30000	62	30000	25200
25	15	24000	22800	31	24000	22800	41	24000	22800	48	24000	22800	53	22000	20000	56	20000	20000
30				0	20000	16900	29	20000	16900	39	20000	16900	46	18000	15000	49	16000	15000
35							0	17100	13100	27	17100	11000	37	14000	11000	41	14000	11000
40										0	14000	8500	26	12000	8500	32	12000	8500
45													0	10000	7800	19	10000	7800
48																0	9000	6700

On RAIL

On RAIL		360° STATIONARY				15° DEFINED ARC COVER FRONT				
		Superelevation			Creep (Superelevation)					
LOAD RADIUS (ft)	50 MAX BOOM LENGTH (ft)	0 (mph)	< 2 (in)	2 < 4 (in)	4 < 6 (in)	0 (mph)	< 2 (in)	2 < 4 (in)	4 < 6 (in)	MAX NO LOAD LOAD BOOM (deg)
10	30.5	18000				39750				61
12	30.5	16100				35250	28200			56
15	30.5	13500	10800	9000	7200	30000	24000	20000	16000	49
20	35	9150	7320	6100	4880	22500	18000	15000	12000	44
25	37	5250	4200	3500	2800	17400	13920	11600	9280	36
30	40	4300	3456	2880	2304	13425	10740	8950	7160	29
35	45	3500	2805	2338	1870	10500	8400	7000	5600	27
40	50	2700	2220	1850	1480	8475	6780	5650	4520	26
45	53	2000	1620	1350	1080	7050	5640	4700	3760	19
48	53	1700	1356	1130	904	6450	5160	4300	3440	0

On TIRES

LOAD RADIUS (ft)	MAX BOOM LENGTH (ft)	PICK AND CARRY			
		Stationary	Creep	2.5 MPH	
		360° (lb)	OVER FRONT DEFINED ARC (lb)	STRAIGHT OVER FRONT (lb)	
10	30.5	18000	33000	25000	21000
12	30.5	15000	29000	22000	18000
15	40	11000	23000	17500	15000
20	40	7000	15000	13000	11000
25	45	5000	11000	9000	8000
30	45	3000	7000	7000	6000
35	45	2000	6000	6000	5000
40	53	1500	5000	5000	4000
45	53		3500	3500	3500
48	53		3000	3000	3000

Recommended Tire Pressure				
Tire Size	Stationary	Creep	2.5 MPH	Travel
16.00 X 25-32 PLY	125 PSI	125 PSI	95 PSI	95 PSI

Parts of Line	1	2	3	4	5	6
MAX. HOOK LOAD	10000	20000	30000	40000	50000	60000

1. All operators and support personnel shall read and fully understand manufacturer furnished operator's manual, latest applicable American National Standards Institute (ANSI) Safety Standards for Cranes, and any applicable federal, state, or local safety regulations before operating machine. Crane and load ratings comply with ANSI and Power Crane & Shovel Association (PCSA) Standards.

2. All "ON OUTRIGGER" lifts shall be made with outrigger arms fully extended to fully support and level machine (tires off supporting surface). Additional structural blocking or cribbing may be required for some applications.

3. All ratings where reversed text appears are based on 85% of tipping load "ON OUTRIGGERS" and 75% of tipping "ON TIRES" with machine stable on firm level

ground. Ratings where text is **not** reversed are based on structural competence. Boom angles are undeflected boom angles.

4. **DO NOT EXCEED** crane load ratings. When load radius or boom angle are between listed values, use the smaller load rating. **DO NOT ATTEMPT TO TIP MACHINE TO DETERMINE ALLOWABLE LOADS.**

5. Weights of hook blocks, bucket, slings, and all other load handling devices are not accounted for in the load chart. The load handling devices must be considered as part of the load.

6. Reduce ratings appropriately for wind conditions, speed of operation, soft or uneven supporting surfaces, etc.

CAUTION - IN WIND OVER 30 MPH, CEASE OPERATION; POSITION BOOM AWAY FROM WIND AND LOWER BOOM BELOW 60°.

IN WIND OVER 50 MPH, FULLY RETRACT AND LOWER BOOM TO LOWEST POSSIBLE POSITION.

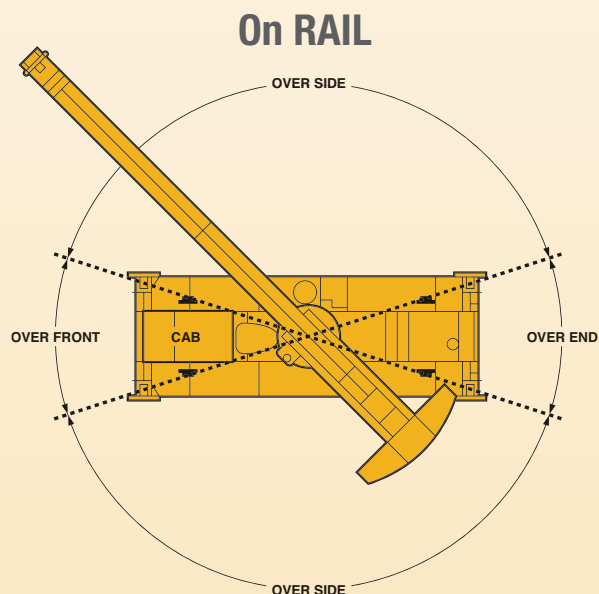
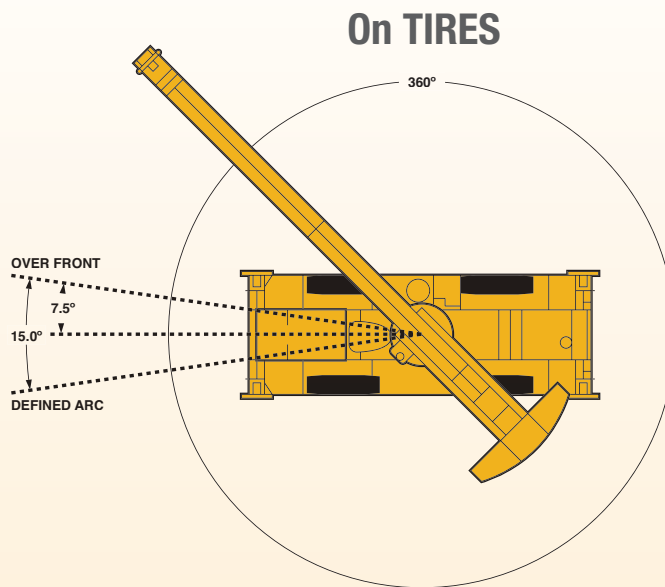
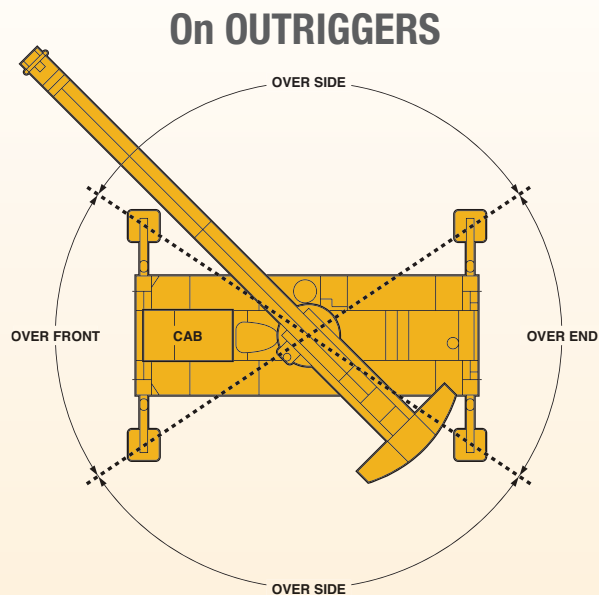
7. Load ratings apply to this machine only as originally manufactured and equipped. Unauthorized modification or optional equipment may reduce load capacity. Please consult Badger Equipment **BEFORE** modification or use of optional equipment not covered in this chart.

8. **DO NOT** lift over operator cab.

9. **WARNING** - These load ratings are for lift service only.

Load Chart

TOP-DOWN DIAGRAMS



10. Pick and carry load ratings are shown in load chart for on tires. Boom must be above 0°.

11. Load shall be restrained from swinging and shall be positioned as close to the ground as possible over the front along the carrier's lengthwise centerline. **DO NOT** exceed 2.5 MPH (4 Km/h) travel speed using smooth starts and stops. "Creep" is movement not to exceed 200 ft in a 30 min period. Other crane operations **SHALL NOT** be permitted when transporting a load.

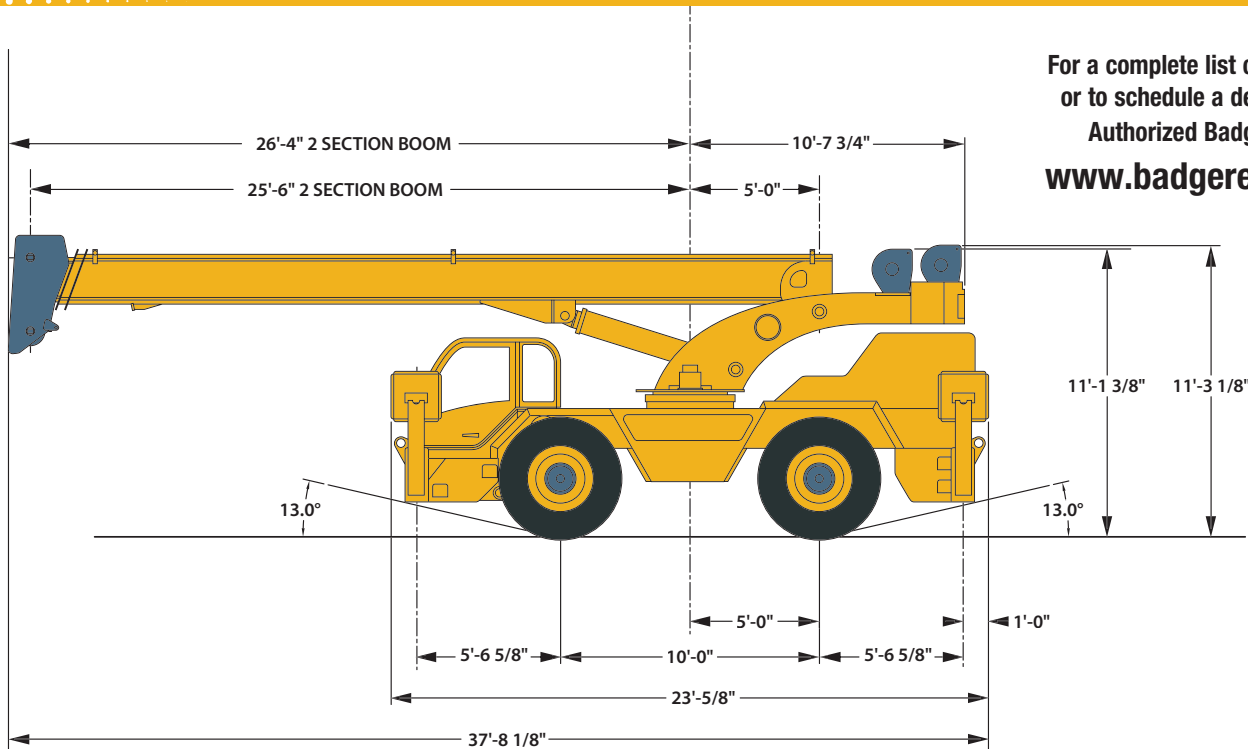
OPTIONAL – Foam Filled Tires

RECOMMENDATIONS:

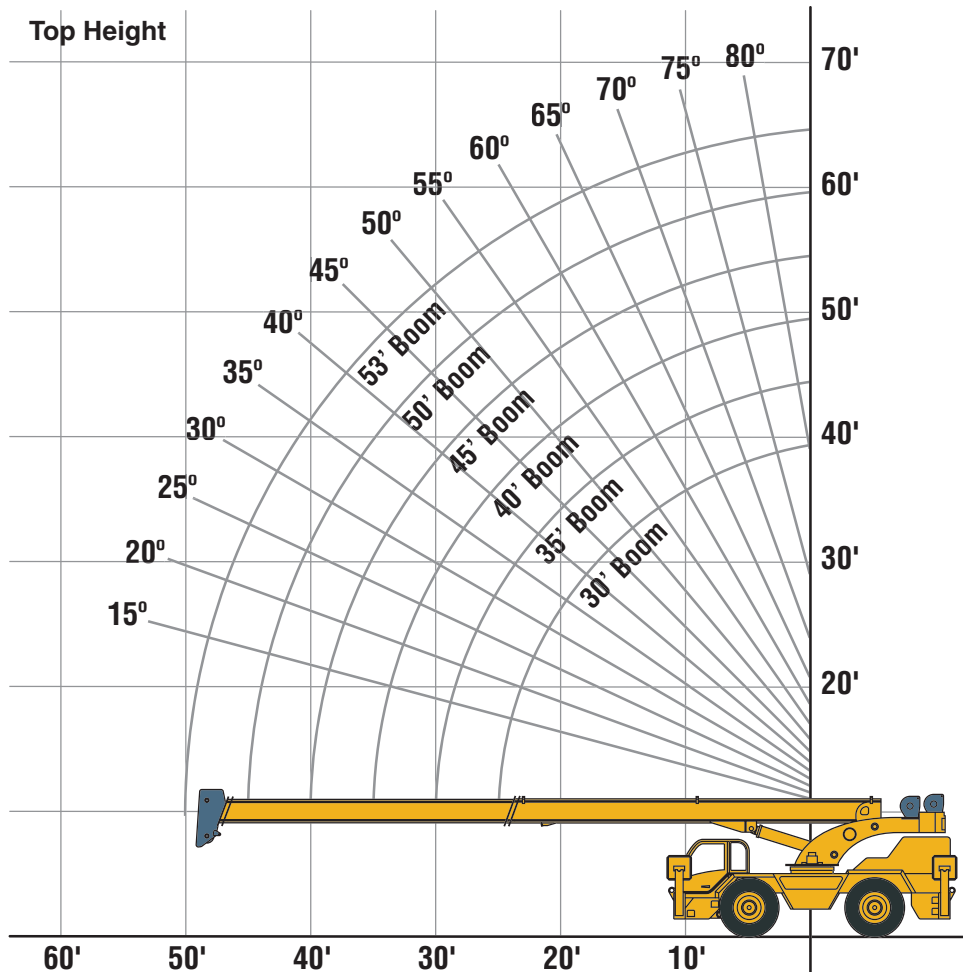
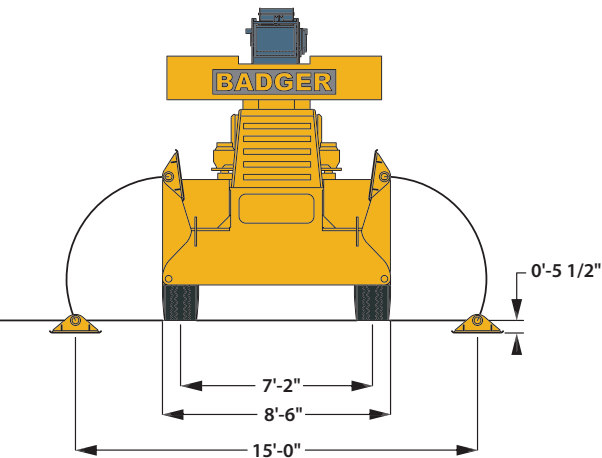
5/8" – 6 x 19 Class – 6 x 25 FW, PRF, RRL, XIP, IWRC Wire Rope



General Dimensions



For a complete list of optional equipment
or to schedule a demo please see your
Authorized Badger Dealer or visit
www.badgerequipment.com





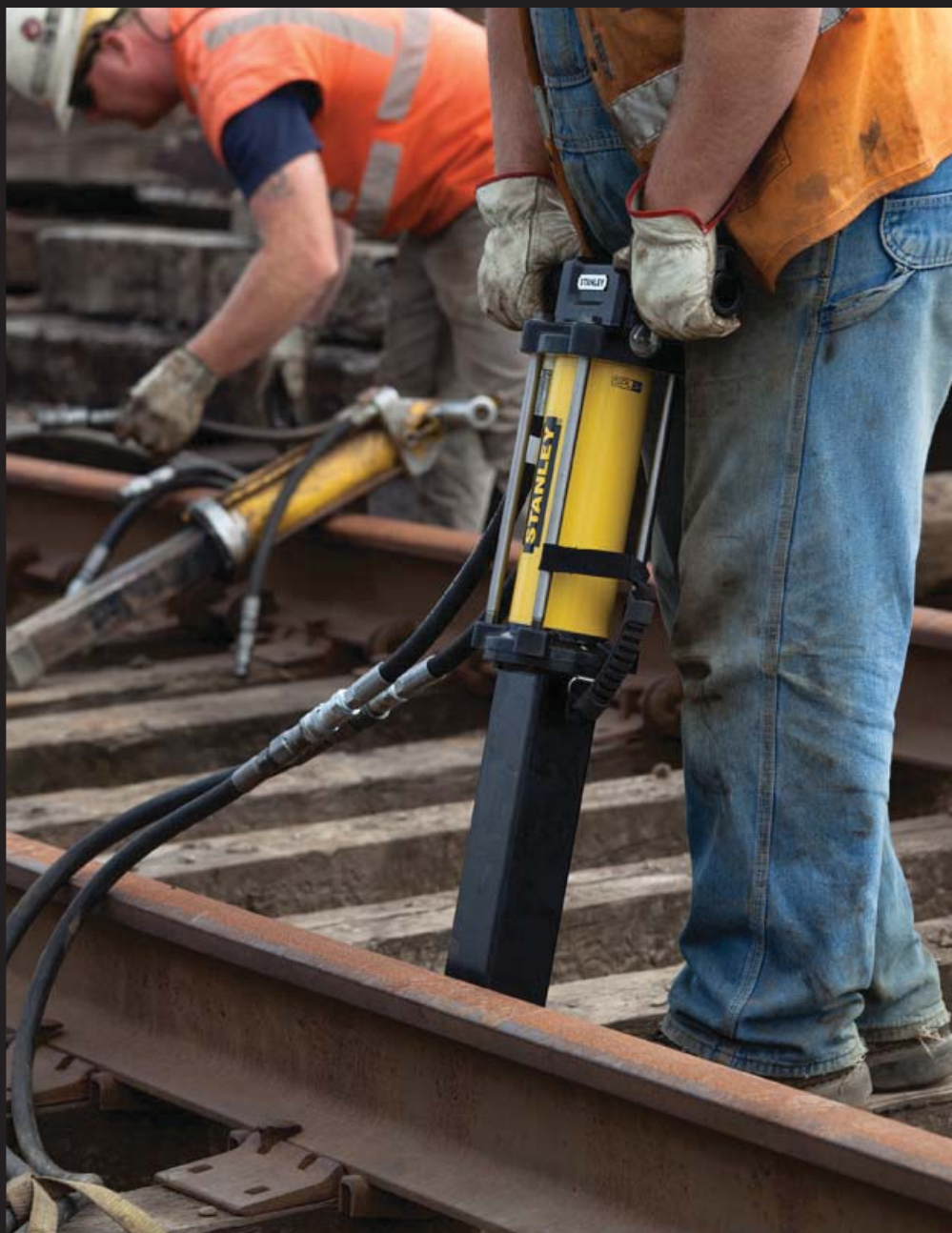
IPS / Ohio Locomotive Crane



Ohio DE-650 Rail Crane / Pile Driver Crane

2015-
2016

RAILWAY MAINTENANCE OF WAY TOOLS PRODUCT CATALOG



STANLEY®
Infrastructure

POWERFUL TOOLS FOR POWERFUL JOBS



Professionals turn to hydraulic tools when they need to get a job done. Nothing matches the performance of hydraulic tools to grind and cut rail, drive posts or spikes, or pull spikes. Because their energy is derived from compressed oil, hydraulic tools can pack a big punch in a little package. Their inherent efficiency means they're friendlier to the environment than comparable air or gas tools. And because they're self-lubricating, they last several times longer.

Today we offer dozens of tools that can operate dependably off a single power source and professionals around the world are turning to the power of Stanley Hydraulic Tools for their most powerful jobs.



ADVANTAGES OF HYDRAULIC TOOLS

- **Durability & Maintenance** - Hydraulic tools are designed to last with minimal maintenance requirements. Because internal components are bathed in hydraulic oil, it is not uncommon for them to last 15 years or more.
- **Low Noise** - Hydraulic tools are significantly quieter than comparable gas-powered and pneumatic alternatives.
- **Increased Power & Productivity** - Since compressed oil transfers far more energy than compressed air, nothing packs as much pound-for-pound punch as hydraulic. That allows us to deliver a smaller, lighter tool design that can deliver more power than even the biggest gas or pneumatic alternatives.
- **Cold Conditions** - Hydraulic tools can be operated in sub-zero temperatures without freezing up.
- **Wet Conditions** - Wet weather does not affect hydraulic tools. In fact, many models are available for use underwater.
- **Enclosed Spaces** - Hydraulic tools don't produce exhaust and their power sources can be stationed remotely. Not so with gas-powered tools which often discharge engine exhaust directly onto the operator or with pneumatic tools which can atomize small droplets of lubricating oil into the surrounding atmosphere.
- **Cost-Effective, Environmentally Friendly Operation** - Hydraulic tools are inherently more efficient, meaning they require less energy to perform the same work as alternative tools, saving time and money. Hydraulic tool circuits are designed to keep oil in and contaminants out and our tools can be used with a variety of biodegradable environmentally safe hydraulic oils, so they can be operated with minimal impact to their surrounding environment.

SPIKE PULLER

MODEL SPL31A

Stanley's SPL31 Spike Driver offers automatic pull cycle (patent pending) to reduce kickback and improve ease of use. Its 34%** weight reduction directly reduces the physical demand / fatigue of the operator. The reduction also gives the operator improved control and ease of use. The SPL31 side carry handle offers portability and ergonomics when carrying the puller 100-200 ft. down the track. The SPL's side placement of the hose whips protects the couplers and whips from possible abuse and damage while still plumbing straight into the tool. 34% weight reduction, increased handle durability, best-in-class ergonomics and overall improved value.

SPECIFICATIONS

Weight: 31 lbs* / 14 kg

Length: 32.75 in / 83.1 cm

Handle Width: 16.25 in / 41.29 cm

Pulling Force: 16,647 lbs / 7550 kg

Flow Rate: 5 - 10 gpm / 18 - 38 lpm

Pressure: 2,000 - 2500 psi / 137 - 172 bar

FEATURES

- Automatic cycle.
- Redesigned handle.
- New side carry handle.
- Industry-leading pulling force.
- New Engineered seal design - 60%** increase in life.
- Redesigned lower chute - decreased weight.

ORDER INFORMATION

Model	Description	Weight	Included Equipment
SPL31A	Spike Puller, Lightweight, Automatic Cycle	31 lbs*	Hose Whips and Couplers
SPL31A-S	Spike Puller, Lightweight, 2-Stage Cycle, Trigger Lock	31 lbs*	Hose Whips and Couplers

*Tool weight is wet without whips and couplers.

**Compared to the Stanley SP48

ACCESSORIES

Part No.	Description
33256	Grip Jaw (Qty. 2 Required)
34876	"W" Grip jaw Casting (Hair Pin - Qty. 2 Required)



SPIKE DRIVER

MODEL SD67

Stanley's SD67 Spike Driver provides a strong level of performance for the toughest applications. The anti-vibration handle and the two length options, help reduce operator fatigue.

SPECIFICATIONS

Weight: 70 lbs / 31.8 kg
Length: 28.75 or 32.25 in. / 73 or 82 cm
Width at Handles: 18 in. / 45.8 cm
Hyd. Pressure: 2000 psi / 140 bar
Flow Range: 5-10 gpm / 20-38 lpm
Max. Back Pressure: 250 psi / 17 bar
Cup Width: 2.9 in. / 7.4 cm

FEATURES

- Anti-Vibration Handle isolates the tool's vibration, further reducing operator fatigue.
- Two length options are available which allow operator to stand in a fully-upright position for better comfort.
- 1300 Blow-Per-Minute design makes quick work of any spike being driven-even in the hardest ties.
- Feathering On/Off Valve allows the operator to control the output energy of the tool, providing more control and ease of handling.
- Diaphragm-Type Accumulator design provides for ease of maintenance and extended service life of the tool.



ORDER INFORMATION

Model	Description	Included Equipment
SD67101	Anti-Vibration Handle, Short - 28.75 in. / 73 cm	Hose Whips, Flush-Face Couplers
SD67141	Anti-Vibration Handle, Long - 32.25 in. / 82 cm	Hose Whips, Flush-Face Couplers

ACCESSORIES

Part No.	Description
31254	Accumulator Charging Kit

TIE TAMPER

MODEL TT46

The TT46133 Tie Tamper's spring-dampened anti-vibration handle isolates the tool's vibration which reduces operator fatigue and increases productivity.

The feathering On/Off valve allows the operator to control the output energy of the tool, providing more control and ease of handling.

The TT46133 Model has a spring-loaded bit keeper allows the bit to be backed out even when driven deeply into the ballast.

SPECIFICATIONS

Weight: 54 & 56 lbs / 24 & 25 kg

Length: 54 & 56 in. / 98.4 & 100.9 cm

Width at Handles: 14 & 17 in. / 35.66 & 44 cm

Hyd. Pressure: 2000 psi / 140 bar

Flow Range: TT46133 - 4-6 gpm / 15-22 lpm

TT46233 - 7-9 gpm / 26-34 lpm

Max. Back Pressure: 200 psi / 14 bar

Blows Per Minute: 1,500

Standard Shank Size: 7/8 x 2-9/16 in. / 22.2 x 65 mm

FEATURES

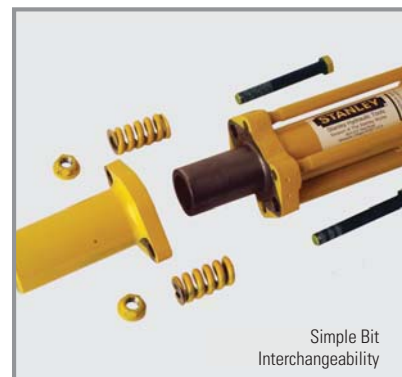
- Spring-dampened anti-vibration handle.
- Feathering On/Off valve.
- Spring-loaded bit keeper.
- 1500 blows per minute.

ORDER INFORMATION

Model	Description	Included Equipment
TT46133	Anti Vibration Handle Tie Tamper, Heavy Duty (5 gpm), CE	Couplers, Hose Whips, 21 in. Steel
TT46233	Anti Vibration Handle Tie Tamper, Heavy Duty (10 gpm)	Couplers, Hose Whips, 21 in. Steel

ACCESSORIES

Part No.	Description
59033	Tie Tamper Steel - 4" w/"V" Cut 21" OAL - Round - Fits TT46133 and TT46233
59034	Tie Tamper Steel - 4" w/"V" Cut 18" OAL - Round - Fits TT46133 and TT46233
44937	Tie Tamper Steel - 4" w/"V" Cut 21" OAL - Hex - Fits TT46133 and TT46233
44979	Tie Tamper Steel - 4" w/"V" Cut 18" OAL - Hex - Fits TT46133 and TT46233
69397	Frost Chisel - 2" x 24" - Fits TT46133 and TT46233
31254	Accumulator Charging Kit



MULTI-PURPOSE PERCUSSION TOOL

LIGHT TO MEDIUM DUTY BREAKER

MODEL BR45



Percussion tool with hose whips, tamping bit and spike driver bit.

SPECIFICATIONS

Application: Light concrete or asphalt breaking or scoring, small rock breaking, rod driving, tamping.

Tool Bit Size: 1" Hex x 4-1/4" Shank

Weight: 55 lbs / 25 kg

Length: 28 in. / 71 cm Without Bit

Width at Handles: 17.5 in. / 44 cm

Connection: 3/8 in. flush face quick disconnect couplers

FEATURES

- Versatile - lightweight and powerful hand-held tool presents countless MOW solutions.
- Ease of use - maintained with the anti-vibration

handles to absorb the impact energy from the tool during operation.

- Control valve features a feathering on/off for precise control of the output energy.
- Designed for light to medium duty applications.
- Water-resistant provides more flexibility in all weather conditions.
- Bit locking system retains the tool bit from loosening or detaching from the tool during operation.
- Leg guard provides greater control and comfort.
- Cold weather operation, hydraulics will not freeze in cold conditions.
- No exhaust - hydraulic percussion tools are a closed circuit system, improving the work condition and comfort.

Nothing equals the impact force of hydraulic-powered breakers. With the best power-to-weight ratio, higher blow energy, and a lower noise level than pneumatic breakers, our hydraulic percussion tools are simply the best choice. Internal components are continually bathed in hydraulic oil, providing long-lasting performance with minimal maintenance requirements. And because the hydraulic system is totally enclosed, there's no tool exhaust or oil atomization often found with gas-powered or pneumatic alternatives.

ORDER INFORMATION

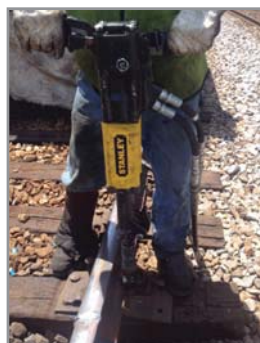
Model	Description	Included Equipment
BR45158	Anti-Vibration Percussion Tool Kit, 28 in. Overall Length Without Bit	Percussion Tool with Hose Whips, Tamping Bit, Spike Driver Bit

ACCESSORIES

Part Number	Description
29431	Tamping Bit, 5 in.
38709	Spike Driver Bit
208001	Dead Head Spike Driver, 5 in.
07702	Moil Point
07704	Chisel
58540	Tie Tamper Steel - 21" x 5"
31254	Accumulator Charging Kit



Punch



Drive



Tamp



Tamping Bit



Spike Driver



Dead Head Spike Driver

IMPACT WRENCH
MODEL IW12



SPECIFICATIONS

- Weight:** 18 lbs / 8 kg
- Length:** 9.5 in. / 24 cm
- Width:** 4 in. / 10 cm
- Capacity:** 3/4 in. / 1.9 cm Square Drive
- Flow Range:** 4-12 gpm / 15-45 lpm
- Pressure:** 1000-2000 psi / 70-140 bar
- Torque:** 250-1200 ft lbs / 340-1632 Nm

FEATURES

- Adjustable impact intensity.
- Swing-hammer design.
- Larger feathering trigger.
- Standard reversing valve.
- Handle coating transmits less heat.

ORDER INFORMATION

Model	Description	Included Equipment
IW12140S	3/4 in. Square Drive	HTMA Flush-Face Couplers, Hose Whips
IW1214001	3/4 in. Square Drive	HTMA Flush-Face Couplers, Hose Whips, CE

Stanley's hydraulic impact wrenches are world renowned for their adjustable impact intensity settings allowing for a wide range of uses. The rugged design incorporates an integral motor and heavy-duty mechanism for the rigors of track maintenance use. The power-to-weight ratio of these products are un-matched by any impact wrench on the market in their class.



IMPACT WRENCH

MODEL IW16



SPECIFICATIONS

Weight: 26 lbs / 11.8 kg

Length: 14.5 in. / 36.8 cm

Width: 4.5 in. / 11.4 cm

Capacity: 7/16 in. or 1/2 in.

Flow Range: 12 gpm / 45 lpm

Pressure: 1000-2000 psi / 70-140 bar

Torque: 500-2500 ft lbs / 680-3400 Nm

FEATURES

- Adjustable impact intensity.
- Swing-hammer mechanism.
- Large "D" handle and feathering On/Off valve.
- Standard reversing valve.
- Available Extended Handle Mechanism.

ORDER INFORMATION

Model	Description	Included Equipment
IW16150S	1 in. Square Drive	HTMA Couplers and Hose Whips

ACCESSORIES

Part No.	Included Equipment
33276	Socket Retainer Pin
33277	Socket Retainer Ring
31201	Adapter - 1 in. to 3/4 in. Drive
31203	10 in. Extension - 1 in. Drive
72768	Upright Handle Assy. Kit
33230	Socket Set Includes 6 Sockets: P/N 25211 - 1 in. Square Drive 8-Point Deep x 2-3/16 in. P/N 25216 - 1 in. Square Drive 8-Point Deep x 1-5/8 in. P/N 25217 - 1 in. Square Drive 8-Point Deep x 1-13/16 in. P/N 25218 - 1 in. Square Drive 8-Point Deep x 1-11/16 in. P/N 26456 - 1 in. Square Drive # 70 Torx P/N 27710 - 1 in. Square Drive 4-Point x 1 in.



IW16 with Stand-Up Handle

DRILL

MODEL DL07



The DL07 Drill is ideal for drilling holes in wood, metal and masonry. It features instant reverse for high reliability and efficiency in all types of drilling applications.

SPECIFICATIONS

Weight: 6 lbs / 2.7 kg
Length: 9 in. / 23 cm
Capacity: 1/2 in. Chuck / 12 mm Chuck
Max. Flow: 12 gpm / 45 lpm
Max. Pressure: 2000 psi / 140 bar

FEATURES

- Hyvrevz™ gear-type motor.
- Oversized feathering trigger.
- Increased operator comfort.
- Dual position Assist Handle.
- Built-in reverse flow check valve.
- Handle coating transmits less heat.

SPEED/HYD. FLOW

350 rpm @ 3 gpm / 11.3 lpm
 475 rpm @ 4 gpm / 15 lpm
 750 rpm @ 6 gpm / 23 lpm
 1000 rpm @ 8 gpm / 30 lpm
 1250 rpm @ 10 gpm / 38 lpm

ORDER INFORMATION

Model	Description	Included Equipment
DL07552S	OC/CC Dual Spool, 1/2 in. Chuck	Trigger Guard, Assist Handle, Couplers, Hose Whips
DL07572S	Dual Spool, 5/8 in. Chuck	Trigger Guard, Assist Handle, Couplers, Hose Whips

ACCESSORIES

Part N.o.	Description
	Augers with 7/16 in. Shank
27850	9/16 in. Dia., 8 in. Twist, 12 in. OAL
27851	11/16 in. Dia., 8 in. Twist, 12 in. OAL
27852	13/16 in. Dia., 8 in. Twist, 12 in. OAL
27855	9/16 in. Dia., 12 in. Twist, 16 in. OAL
27856	11/16 in. Dia., 12 in. Twist, 16 in. OAL
27857	13/16 in. Dia., 12 in. Twist, 16 in. OAL
27858	15/16 in. Dia., 12 in. Twist, 16 in. OAL
27859	1-1/16 in. Dia., 12 in. Twist, 22 in. OAL

Part No.	Description
	Augers with 7/16 in. Shank
27860	9/16 in. Dia., 18 in. Twist, 22 in. OAL
27861	11/16 in. Dia., 18 in. Twist, 22 in. OAL
27862	13/16 in. Dia., 18 in. Twist, 22 in. OAL
27863	15/16 in. Dia., 18 in. Twist, 22 in. OAL
27864	1-1/16 in. Dia., 18 in. Twist, 22 in. OAL
27865	11/16 in. Dia., 32 in. Twist, 22 in. OAL
27869	13/16 in. Dia., 36 in. Twist, 22 in. OAL
32400	13/16 in. Dia., 15 in. Twist, 22 in. OAL

The ID07 Impact Drill/Wrench delivers impact torque of up to 500 ft lbs (675 Nm). It is capable of breaking loose some of the toughest bolts and nuts. The ID07 can drive wood augers into the hardest salt-cured or creosote-treated ties without reaction torque to the operator.

SPECIFICATIONS

Weight: 7 lbs / 3.3 kg
Length: 8.5 in. / 21.6 cm
Capacity: 7/16 in. or 1/2 in.
Max. Flow: 12 gpm / 45 lpm
Max. Pressure: 2000 psi / 140 bar

FEATURES

- Hyvrevz™ gear-type motor.
- Swing-hammer mechanism.
- 7/16 in. hex quick-change chuck or 1/2 in. square drive.
- Built-in reverse flow check valve.
- Handle coating transmits less heat.

IMPACT DRILL

MODEL ID07



ORDER INFORMATION

Model	Description	Included Equipment
ID07810S	7/16 in. Quick Change Chuck	Couplers, Hose Whips

ACCESSORIES

Part No.	Description
05117	Adapter, 7/16 in. Male Hex x 1/2 in. Male Square
07192	Adapter, 1/2 in. Female Square x 5/8 in. Hex QC
33155	Lineman's Socket, 13/16 in. and 15/16 in.
33156	Lineman's Socket, 1 in. and 1-1/8 in.
73636	Assist Handle

RAIL DRILL

MODEL RD12

The power of the RD12 when used in conjunction with our exclusive indexable carbide tipped bits easily drills both hardened and standard rail with the same tool, providing a low cost per hole.

SPECIFICATIONS

Weight: 58.5 lbs / 26.5 kg

Length: 28 in. / 71.1 cm

Width: 8 in. / 20.3 cm

Water Capacity: 2 gallons / 7.6 liters

Flow Range: 8-10 gpm / 30-38 lpm

Pressure: 2000 psi / 140 bar

Feed Rate per Revolution: .013 in. / .03 mm

FEATURES

- Lightweight aluminum construction.
- Preset integrated water flow control.
- Over-center clamp design.
- Tool rack for extra bits.
- Automatic water/coolant control valve.



Note: Rail Drills do not operate without bits.

ORDER INFORMATION

Model	Description	Included Equipment
RD12101	Rail Drill with Water Tank, CE	Couplers and Torx Driver - Does not include bits, indexable carbide tips, water tank, templates - please order those separately.
RD12101K	Rail Drill with Water Tank, CE - Kit	Couplers and Torx Driver - 22625 Guide Assembly 115-140 lb. 3-1/2 in. x 6 in. x 6 in., 29469 Drill Bit 1-1/8 in., 29468 Drill Bit 1-3/16 in., 29467 Drill Bit 1-1/4 in., 29461 Drill Bit 1-5/16 in., 32510 Drill Bit 1-1/2 in. Trepanning, 31969 Ten Piece Carbide Insert Kit, 31984 Single Sided Rail Template Set - 90 RA, 31985 Single Sided Rail Template Set - 115/119 RE, 31986 Single Sided Rail Template Set 131/132/136 RE, 31987 Single Sided Rail Template Set 133 RE

ACCESSORIES

Part No.	Description
29471	Drill Bit 1 in.
29470	Drill Bit 1-1/16 in.
29469	Drill Bit 1-1/8 in.
29468	Drill Bit 1-3/16 in.
29467	Drill Bit 1-1/4 in.
29461	Drill Bit 1-5/16 in.
29465	Drill Bit 1-3/8 in.
32511	Drill Bit 1-7/16 in. Trepanning
32510	Drill Bit 1-1/2 in. Trepanning
33331	Drill Bit 1-9/16 in. Trepanning
67267	Drill Bit 1-5/8 in.

Part No.	Description
31624	Drill Bit 32 mm
29472	Drill Bit 33 mm
31647	Drill Bit 36 mm
31969	Ten Piece Carbide Insert Kit
Templates	Contact Your Local Rep.



CHAIN SAW

MODEL CS06

The CS06 Chain Saw offers the highest power-to-weight ratio of any chain saw on the market today. All models feature interlocking triggers, hand guards, low kick-back bars and chains.

Because hydraulic power doesn't require a flywheel to smooth power pulses, there is no chain coasting when the trigger is released.

The CS06 pistol-grip chain saw is ideal for timber tie/sleepers.

SPECIFICATIONS

Weight: 6.25 lbs / 2.8 kg (w/o bar)

Length (Less Bar): 14 in. / 36 cm

Width: 9 in. / 23 cm

Capacity: 12, 15, 20 in. / 30, 38, 51 cm

Pressure: 1000-2000 psi / 70-140 bar

Flow Range: 7-9 gpm / 26-34 lpm

Optimum Flow: 8 gpm / 30 lpm

FEATURES

- Low kick-back.
- Wide variety of bar lengths.
- Operate from open or closed-center circuits.
- Highest power-to-weight ratio.
- Operates on both Type I and II hydraulic circuits.
- Underwater models available.
- No chain coasting.



ORDER INFORMATION

Model	Description	Included Equipment
CS06610	OC/CC, 12 in. cut	Bar and Chain
CS06620	OC/CC, 15 in. cut	Bar and Chain
CS06630S	OC/CC, 20 in./51 cm	Couplers, Bar and Chain

ACCESSORIES

Part No.	Description
07642	Saw Chain, 20 in. / 51 cm Bar (325 in. Pitch)
07935	File Guide with File
07639	Saw Bar 20 in.
07629	Rim Sprocket, 7-Tooth



CHAIN SAW

MODEL CS28

SPECIFICATIONS

Application: Tree Trimming

Cut Capacity: 12 in. / 30 cm

Hyd. Flow: 7-9 gpm / 26-34 lpm

Weight: 8.4 lbs / 3.8 kg

Overall Length: 75 in. / 191 cm

Width: 4.375 in. / 11 cm

Connection: 3/8 in. NPT Male Adapter (couplers sold separately)

FEATURES

- Used for trimming and pruning large tree branches.
- Ideal for use by right-of-way crews, arborists, utilities, parks departments, grounds keepers, and forest trail maintenance crews.
- Fiberglass pole handle.
- Hyrevz™ motor.
- Dual spool for operation on open center or closed center systems.
- Automatic chain oiling.

ORDER INFORMATION

Model	Description	Included Equipment
CS28812	Pole Chain Saw, OC/CC	12 in. Saw Bar, Saw Chain, Chain Guard

ACCESSORIES

Part No.	Description
05144	Chain/Bar Guard
07616	Sprocket Spline Adapter
07629	Rim Sprocket, .325P x 7 tooth
12363	File Guide
08347	13 in. Saw Bar

Part No.	Description
08348	Saw Chain for 13 in. bar
11464	Scrench
33289	Chain Saw File
11294	Flat File

RAIL SAW

MODEL RS25

Stanley's RS25 Rail Saw with its bell-crank style clamp design provides positive, rigid locking to all types of rail for quick and accurate set-up.

The ergonomical long saw arm is standard with the RS25 and allows the operator full use of the tool in a standing position. The indexable swivel on the clamp arm and saw, allows cutting on both sides of the rail, eliminating the need to disconnect from and re-connect to the saw clamp.

SPECIFICATIONS

Saw & Clamp Weight: 56 lbs / 25 kg

Saw Weight: 33 lbs / 15 kg

Length w/o Wheel: 36 in. / 92 cm

Width: 11 in. / 28 cm

Depth: 18 in. / 46 cm

Flow Range: 8-10 gpm / 30-38 lpm

Pressure: 2000 psi / 140 bar

Spindle Speed: 4000 RPM w/ 16 in. Wheel
4500 RPM w/ 14 in. Wheel

FEATURES

- Bell-crank style clamp design.
- Ergonomically designed long saw arm.
- Lockable lower arm significantly reduces operator effort.
- Indexable swivel on the clamp arm.
- Tamper-proof speed control.
- Sealed bearings in arm and pivot joints.
- Available in 14 and 16 inch models.
- Cast aluminum construction.
- Integrated retractable blade position guide.

ORDER INFORMATION

Model	Description	Included Equipment
RS25103	16 in.	Clamp, Couplers and Hose Whips
RS25113	14 in.	Clamp, Couplers and Hose Whips

ACCESSORIES

Part Number	Description
73647	Rail Saw Blade - 14 in. Stanley Abrasive Cut-Off Saw Blade
73648	Rail Saw Blade - 16 in. Stanley Abrasive Cut-Off Saw Blade
34367	Universal Bell Crank Kit



Model RS25103 Shown



TRACK JACK

MODEL TJ10



SPECIFICATIONS

Weight: 43.5 lbs / 19.7 kg

Base Length: 11 in. / 27.9 cm

Height (Collapsed): 14.5 in. / 36.8 cm

Stroke (Total Lift): 8.9 in. / 22.6 cm

Lifting Capacity: 10 Tons / 9,072 kg

Amount of Travel per Pump

Stroke: .15 in. / 3.8 mm

FEATURES

- Narrow bridge model available.
- One piece forged base.
- Low pump handle effort.

ORDER INFORMATION

Model	Description
TJ10111M	Integral Pump, Hydraulic Jack w/ Pump Handle
TJ10112M	Integral Pump, Narrow Base Bridge Jack

Stanley's track jacks are the best jacks available with untouchable power-to-weight ratios and impressive lifting capacity.



LIGHTER THAN AIR

Powering hydraulic tools doesn't require a large pull-behind power source like an air compressor. The fact is, a power supply about the size of a wheelbarrow, such as our GTR20 and HP28 Power Units, is more than sufficient to operate any tool shown in this catalog from our biggest breakers to our smallest drills.

Our hydraulic power units use the latest in commercial engine technology from manufacturers such as Briggs & Stratton and Honda. These engines are air cooled, fuel efficient, light weight, rugged, and pack plenty of power to operate our most demanding tools without over-taxing the engine.

- Versatile - dozens of tools can be operated from these power units.
- Air cooled - no winter freezing considerations.
- Fuel efficient - 1.3 gallons per hour / 4 liters per hour estimated fuel consumption.

- Quiet Operation.
- Small size - can fit into small truck or van.
- Portable - can be wheeled around job site like a wheelbarrow.
- Serviceability - can be serviced by small engine dealers.

POWER UNITS

MODEL GTR20

The Hydraulic power to operate Stanley's line of hydraulic railroad tools compact design is ideal for all your on-site hydraulic power needs. The ultra efficient hydraulic tool circuit cooling provides comfortable tool operation even in the most demanding environments.

SPECIFICATIONS

Weight: 330 lbs / 150 kg
Length: 35 in. / 90 cm
Width: 23 in. / 59 cm
Height: 29 in. / 74 mm
Pressure: 2000 psi / 140 bar
Fuel Capacity: 5.5 gal. / 24 liter

FEATURES

- Compact and lightweight.
- Computerized electronic throttle control.
- In-tank hydraulic filtration.
- Pressurized engine oil lubrication.
- Locking handle.
- Electric Start.

ORDER INFORMATION

Model	Description	Included Equipment
GTR20B02	(1), 10 gpm / 38 lpm or (2), 5 gpm / 20 lpm 18 hp Briggs & Stratton (Gas Powered)	Auto Throttle, Wheels and Handles
GTR20B06	Skid Mount, (1), 10 gpm / 38 lpm or (2), 5 gpm / 20 lpm 18 hp Briggs & Stratton (Gas Powered)	Auto Throttle

ACCESSORIES

Part No.	Description
31848	50 ft. Hose Assembly
31972	25 ft. Hose Assembly
04182	Flow and Pressure Tester



GTR20

POWER UNITS

MODEL HP28

The HP28 (TWIN8) twin circuit hydraulic power unit offers a revolutionary design capable of operating two tools at 8 gpm simultaneously. For the first time running two hydraulic tools at full 8 gpm capacity is a reality, increasing productivity and versatility like never before. Experience how the HP28 will change the way hydraulic tools are used and JOIN THE REVOLUTION!

Each of the two circuits is optimized to deliver ideal flows and pressures to both Type 1 and Type 2 hydraulic tools.

SPECIFICATIONS

Applications: Heavy-duty continuous use hydraulic power supply for up to 2 tools both Type 1 and Type 2

Capacity: 2 each 5 or 8 gpm / 2 each 20 or 30 lpm

Pressure: 2000 psi / 140 bar

Weight: 360 lb / 163 kg

Length: 37.5 in. / 95.3 cm

Width: 25.75 in. / 65.4 cm

Height: 30 in. / 76.2 cm

Engine: Briggs & Stratton 27 hp

Connection: 3/8 in. flush face quick disconnect couplers

Heat Rejection: Up to 9 hp use of two with both 1 & 2 Type tools

FEATURES

• ATM Technology

Active Thermal Management (ATM) optimizes performance in extreme weather conditions. By managing oil temperatures, preheat time is decreased and tool runtime increases.

• Side Handles

New side handles improve ease of lifting the unit while adding side impact protection and with no moving parts to wear or corrode.

• Solid Tires

Eliminates the need to refill flat tires and decreases pull force needed for maneuvering.

• Recessed Control Panel

Protects dashboard and couplers.

• Tough Grip Multi Position Handle

Special *Tough Grip* handle surface improves comfort and control with increased durability.

• Lifting Hook

Flush face design protects the lifting hook from accidental job abuse.

• Auto Choke

Allows for quick and easy starting of the power unit.



ORDER INFORMATION

Model	Description	Included Equipment
HP28B02	5 or 8 gpm Briggs & Stratton 27 hp	Throttle, Wheels and Handles

ACCESSORIES

Part No.	Description
31848	50 ft. Hose Assembly
31972	25 ft. Hose Assembly
04182	Flow and Pressure Tester

WELD SHEAR

MODEL WS10



WS10321A

Stanley's powerful yet light-weight Weld Shear is the ideal tool for shearing thermite welds with a shearing force of over 20,000 lbs (89,000 Nm).

The WS10's efficient design allows welds to be sheared prior to dismantling the weld mold, decreasing the time to set up and increasing productivity.

The in-line pump handle eliminates rocking of the shear on the rail during shearing operation.

FEATURES

- 10 Ton / 9 Metric Tons shearing force.
- Efficient hand pump.
- In-line handle.
- Controls placed away from shear for operator safety.
- 4 self-locking hold downs.
- Replaceable rollers.

SPECIFICATIONS

Weight: 90 lbs / 41 kg

Length: 29 & 32.5 in. / 73.7 & 82.5 cm for WS10301 and WS10200, 28 in / 71 cm for WS1032101A

Width: 19.5 in. / 49.5 cm

Hyd. Pressure: 2000 psi / 140 bar

Flow Range: 3-10 gpm / 12-38 lpm

Shear Force: 20,000 lbs / 89,000 Nm

ORDER INFORMATION

Model	Description	Included Equipment
WS10321A	Lightweight Weld Shear	Blade Set "A" (132 lb Rail - 27948)
WS10321AB	Lightweight Weld Shear	Aero Quip Couplers, Blade Set "A" (132 lb Rail - 27948)
WS1032101A	Weld Shear (CE Power Unit)	
WS102200A	Weld Shear Hand Pump, Light Weight	Blade Set "A" (132 lb Rail - 27948)

ACCESSORIES

Item No.	Description
27948	Blade Set A (105 - 155 lb / yd [47 70 kg / M] Rail*)
27989	Blade Set B (60 - 130 lb / yd [41 - 60 kg / M] Rail*)
35742	Blade Set C (60 - 90 lb / yd [36 - 60 kg / M] Rail*)
73394	Weld Shear Hold Down

FROG GRINDER

MODEL FG10



SPECIFICATIONS

Wheel Capacity: 6 in. / 15 cm
Arbor Size: 5/8 in. - 11
Optimum Flow: 10 gpm / 38 lpm
Hyd. Pressure: 2000 psi / 140 bar
Spindle Speed: 4000 RPM
Length: 44 in. / 112 cm
Width: 10.5 in. / 27 cm
Weight: 85 lbs / 41 kg

FEATURES

- Upright handle for ergonomic operation.
- 3-position pivot at both ends allows for 3 separate grinding operations.
- Interlocking, full length, bail type safety trigger.
- Sealed height adjustment mechanism for infinite angle adjustment.
- Removable wheel guard for easy access to the grinding wheel.
- Built-in speed control.
- Extension for Grinding Frog Points.
- Spark Guard.

ORDER INFORMATION

Model	Description	Included Equipment
FG10110	Frog Grinder	Couplers, Extension Arm, Spark Guard

ACCESSORIES

Part No.	Description
28597	6" Cup Grinding Stone
69772	Spark Guard

SPECIFICATIONS

Wheel Capacity: 6 in. / 15 cm
Arbor Size: 5/8 in. - 11
Optimum Flow: 10 gpm / 38 lpm
Hyd. Pressure: 2000 psi / 140 bar
Spindle Speed: 4000 RPM
Length: 44 in. / 112 cm
Width: 20 in. / 51 cm
Weight: 118 lbs / 53.5 kg

FEATURES

- Upright handle for ergonomic operation.
- Adjustable flange wheels ensure grinding accuracy.
- Interlocking, full length, bail type safety trigger.
- Removable wheel guard for easy access to the grinding wheel.
- Built-in speed control.

PROFILE GRINDER

MODEL PG10



ORDER INFORMATION

Model	Description	Included Equipment
PG05110	Profile Grinder - Lightweight OC 6"	Couplers, Shaft Wrench
PG10110	Profile Grinder	Couplers, Shaft Wrench

ACCESSORIES

Part No.	Description
28597	6" Cup Grinding Stone
25060	Spark Guard

The FG10 Frog Grinder is ideal for grinding frogs, rail ends or mismatched rail. While the PG05 and PG10 Profile Grinders are designed to grind a wide range of rail from 90 to 141 pound.



GRINDERS

MODELS HGL61, HGL80, HGL81



SPECIFICATIONS

Models: HGL80, HGL81 and HGL61
RPM: 5500
Pressure Range: 2000 - 2500 PSI
Flow Range: 7 - 10 GPM

HGL80 - Long Handle
 Length: 23.35 Inches
HGL81 - Short Handle
 Length 19 Inches
HGL61 - Short Handle
 Length: 19 Inches

FEATURES: HGL80, HGL81 and HGL61

- 12% weight reduction over the HG80 providing the industry's lightest hydraulic hand held grinders.
- High performance hydraulic motors providing industry leading grinding speed and power.
- Redesigned handle eliminates the hydraulic oil from the handle, improves tool balance and user comfort.
- New long and short rear handle options improve user ergonomics.
- New adjustable front handle for improved control and ergonomics.
- New trigger interlock improves tool durability and ease of use.
- Durable grip coating on front and rear handles provides a solid grip in the toughest conditions.
- New oversized shaft interlock for ease of use during wheel changes.
- A built-in flow control valve prevents the chance of excessive spindle speed and also protects the motor, resulting in increased tool life.

ORDER INFORMATION

Model	Description	Motor Rotation	Weight	Length	Width
HGL80	1" x 8" Grinder	Clockwise	13.6 lbs	23.35 in.	12 in.
HGL81	1" x 8" Grinder	Clockwise	13.6 lbs	19 in.	12 in.
HGL80-N	1" x 8" Grinder with Aero Quip Couplers	Clockwise	13.6 lbs	23.35 in.	12 in.
HGL81-N	1" x 8" Grinder with Aero Quip Couplers	Clockwise	13.6 lbs	19 in.	12 in.
HGL80-L	1" x 8" Grinder	Counter Clockwise	13.6 lbs	23.25 in.	12 in.
HGL81-L	1" x 8" Grinder	Counter Clockwise	13.6 lbs	19 in.	12 in.
HGL80-LN	1" x 8" Grinder with Aero Quip Couplers	Counter Clockwise	13.6 lbs	23.35 in.	12 in.
HGL81-LN	1" x 8" Grinder with Aero Quip Couplers	Counter Clockwise	13.6 lbs	19 in.	12 in.
HGL61	Standard Bull Nose Grinder	Counter Clockwise	9.6 lbs	19 in.	10 in.
HGL61-N	Bull Nose Grinder with Aero Quip Couplers	Counter Clockwise	9.6 lbs	19 in.	10 in.

ACCESSORIES

Model	Part Number	Description
HGL61	30872	Bull Nose Grinder Stone
HGL80	28598	1" x 8" Horizontal Grinding Stone



SPECIFICATIONS

Wheel Capacity: 6 in. / 15 cm
Arbor Size: 5/8 in. -11
Optimum Flow: 10 gpm / 38 lpm
Hyd. Pressure: 2000 psi / 140 bar

Spindle Speed: 4000 RPM
Length: 18 in. / 46 cm
Width: 10.5 in. / 27 cm
Weight: 20 lbs / 9 kg

ORDER INFORMATION

Model	Description	Included Equipment
GR60121S	6 in. Grinder w/ Counter-Clockwise Rotation	Couplers and Hose Whips

ACCESSORIES

Part No.	Description
28597	6" Cup Grinding Stone



GRINDER

MODEL GR60

ROBOTIC WELDER

MODEL RW30



The Patented RW30 Robotic Welder is a computer controlled welder. It is ideal for repairing rails or frogs. The RW30 provides consistent high quality welds.

SPECIFICATIONS (RW30110)

Weld Zone Length: 15.75 in. / 40 cm

Weld Zone Width: 13.75 in. / 34.9 cm

Weld Speed (Estimated): 5.0 in./minute / 32 cm/minute

Weld Travel Speed: 7.8 to 15.7 in./minute / 19.8 to 39.8 cm/minute

Weight: 65 lbs / 29.5 kg

Length (Less Handles): 25.6 in. / 650 mm

Width: 29 in. / 740 mm

Height: 16 in. / 400 mm

Input Power Required: 115-230 V / 50-60 Hz

FEATURES

- Eliminates operator exposure to weld fumes.
- Records all welding events into memory for later download to PC.
- Memory adapter, PC adapter, and software available as an option.
- Automated control provides consistent welds.
- Weld bead, patterns, and dimensions all electronically controlled.
- Automatic call-up from memory.

Model RW30110 Robotic Welder Shown



INCLUDED WITH ALL MODELS

Computer Control



Stick-out Gauge

ORDERING INFORMATION

Model	Description	Included Equipment
RW30110	Robotic Welder, 400 mm Travel, No Wire Feed	Frog Clamps, Stick Out Gauge, Computer Control
RW30112	Robotic Welder, 400 mm Travel, No Wire Feed	Above with Heater for cold weather operation
RW30120	Robotic Welder, 1000 mm Travel, No Wire Feed	Frog Clamps, Stick Out Gauge, Computer Control

ACCESSORIES

Part No.	Description
62328	Carbon Frog Inserts
66544	Right Self Alignment Clamp
66545	Left Self Alignment Clamp
69889	Charlie Main Board

Part No.	Description
69837	Pull Gun
69823	Roll 'un Roll
70716	Cold Weather Update Kit
WF10112	Wire Feeder

ECONNECT

The New Generation of Pin Brazing Units



- Lightweight - 21.6 lbs - 60% Lighter.
- 20% lower energy consumption.
- Green - lead free battery.
- Battery with nano technology.
- Fully charged in 2 - 3 hours.
- Increased efficiency per charge.
- High capacity - 50 brazings per charge - 25% increase.
- Prepared for SafeBond® 1.
- Built in heater.

**Lightweight and digitized pin brazing unit.
ECONNECT reaches a whole new level of performance.**

ECONNECT PACKAGE

Part No.	Description
72970	ECONNECT Unit
72971	S-15 Automatic Brazing Gun
72972	Charger 36V / 110V f. ECONNECT 6.7A - 110V
72973	Carrying Strap
72790	Grinder
72974	Carrying Case
72975	ECONNECT Kit - (All of the Above)

EP30 PIN BRAZE UNIT



EP30200

- Low Transition Resistance - Only 5 microhms / brazed joint (0.000005 ohm).
- High Mechanical Strength - Binding strength 71,000 psi, shear strength 35,550 psi, maximum load 5,000 N.
- Low Brazing Temperature - Braze material melts at 1227 degrees F / 650 degrees C.
- Very Quick Method - A braze takes about 2 seconds, a bond with 2 brazings plus grinding takes less than 2 minutes.
- Easy to use.
- Works in all weather conditions.



SPECIFICATIONS

	BG10 Gun	EP30
Voltage	36 Volts	36 Volts
Braze Capacity	N/A	40 - 60
Weight	2.5 lbs / 1.1 kg	44 lbs / 20 kg
Length	8.5 in / 21.5 cm	12.4 in / 92 cm
Width	2.75 in / 6.9 cm	8.6 in / 22 cm
Height	6.5 in / 16.5 cm	15.7 in / 40 cm

Part Number		Description
35808		Carbide Burr
35835		Brazing Pin, 8 mm
39705 - 16 in. Long 39244 - 7-7/8 in. Long 35844 - 5-3/4 in. Long		Contact Head Bond - with 7 mm or .276 in. Diameter
41226 - 46 in. Long 41225 - 34 in. Long		Switch Bond
40366		Extension Bond - 12 in. Long
39242 - 4-1/4 in. Long 41635 - 24 in. Long		Web Type Track Connection with 7 mm or .276 in. Diameter (Crimpable Sleeve is 3/16 in. in Diameter)
40366		Signal Extension Bond - 6-3/4 in. Long
35832 - 8 mm 35834 - 12 mm		Ceramic Ring for use with each brazing pin

Part Number		Description
35830		Ring Holder 8 & 9.5 mm Rings
35826		Pin Holder 8 & 9.5 mm
BG10100		Pin Brazing Gun (Includes Cable)
67122		Wire Clip (Secures Signal Wire to Rail)
35857		Copper Plate with M8 x 18 Brass Threaded Stud
HGE12151		Cordless Die Grinder, Battery and Charger
Contact Stanley Hydraulic Tools for Complete List of Accessories		

PADLOCK

MODELS 83-3 / 83-2 / 83-1



FEATURES

- Strong Powdered Metal Steel Body – Built up around cylinder for added protection against attack. Electroless nickel plated inside and out.
- Case hardened or stainless steel shackles offer maximum pull resistance.
- Pick resistant rotating disc cylinder is top loaded for protection against attack.
- Factory controlled high strength keys and blanks prevent unauthorized key duplication. For extra security, key is retained when lock is open.



Model	Shackle Diameter	Shackle Material	Body Width	Body Thickness	Body Height	Total Height	Shackle Clear		Wt. Lbs.
							Vertical	Horizontal	
80	9/16	Case Powdered Steel Body	2-3/4	1-13/32	2	4-7/16	1-7/8	1-1/4	1
81-1	9/16	Case Hardened Steel	2-3/4	1-13/32	2	4-7/16	1-7/8	1-1/4	1
83-1	3/8	Case Hardened Steel	1-7/8	1-1/8	1-7/8	3-3/8	1-1/8	13/16	.88
83-2	3/8	Case Hardened Steel	1-7/8	1-1/8	1-7/8	4-1/4	2	13/16	.97
83-3	3/8	Case Hardened Steel	1-7/8	1-1/8	1-7/8	5-1/4	3	13/16	.99
83-4	3/8	Stainless Steel	1-7/8	1-1/8	1-7/8	3-3/8	1-1/8	13/16	.88
83-5	3/8	Stainless Steel	1-7/8	1-1/8	1-7/8	4-1/4	2	13/16	.97
83-6	3/8	Stainless Steel	1-7/8	1-1/8	1-7/8	5-1/4	3	13/16	1.0

Model 81 (5) Disc Padlocks available keyed alike (KA) or keyed different (KD).

Model 83 (6) Disc Padlocks available keyed alike (KA) or keyed different (KD).

Note: All dimensions in inches.

Case hardened steel shackle.

Powdered metal steel body construction is electroless nickel plated inside and out.

Fluorocarbon o-ring.

To protect the lock from physical attack, the body is built up around the cylinder with a narrow shoulder to reduce the leverage point.



Unlike other locks, The Environmental Padlock's top-loaded cylinder cannot be extracted from the bottom. The cylinder can only be accessed when the shackle is in the unlocked and open position.

Dual deadlocking shackle.

Pick resistant disk cylinder.



TELEWELD RAIL HEATERS



SERIES II - MODEL T2G - Propane



Teleweld Series II Rail Heater Car for continuously welded rail. The car features a hydraulic propulsion system providing travel and work speeds up to 10 miles per hour (16km/h). The unit is equipped with dual heaters (8 burners over each rail), single hydraulically operated vibrator unit with float (2HC), space for 4 each 100 lb. (45kg) propane tanks (Customer supplied) with storage space for 4 spare propane tanks.

Each heating unit consists of 8 crucibles mounted on standard carriages designed for heating on wood ties. The heating units are capable of producing a total of 425,000 BTU per hour.

SERIES I - MODEL T3C - Propane

Teleweld Series I Rail Heater Car for continuously welded rail. The car features a hydraulic propulsion system providing travel and work speeds up to 3 miles per hour (5 km/h), and is towable to speeds up to 20 mph (32 km/h). The unit is equipped with dual heaters (16 burners over each rail), dual, hydraulically operated vibrator units with float (2HC), 1 each 500 gallon (1892 liter) DOT MC-331 certified propane reservoir.

Each heating unit consists of 32 crucibles mounted on standard carriages designed for heating on wood ties. The heating units are capable of producing a total of 1,700,000 BTU per hour.



SERIES 1 - Propane



Teleweld Series I Rail Heater Car for continuously welded rail. The car features a hydraulic propulsion system providing travel and work speeds up to 18 miles per hour (29 km/h), and is towable.

The unit is equipped with dual heaters (16 burners over each rail), dual, hydraulically operated vibrator units with float (8HC), 1 each 500 gallon (1892 liter) DOT MC-331 certified propane reservoir.

Each heating unit consists of 32 crucibles mounted on standard carriages designed for heating on wood ties. The heating units are capable of producing a total of 1,700,000 BTU per hour.

SERIES ID - Diesel



Teleweld Series ID Rail Heater Car for continuously welded rail. The car features a hydraulic propulsion system providing travel and work speeds up to 18 miles per hour (29 km/h), and is towable. The unit is equipped with dual, diesel fueled heaters (10 burners over each rail), dual, hydraulically operated vibrator units with float (8HC), 1 each 300 gallon (1135 liter) diesel fuel reservoir.

Each heating unit consists of 20 burners on a 2 heater units designed for heating on wood or concrete ties. The heating units are capable of producing a total of 1,800,000 BTU per hour.

MODEL 16A RAIL HEATER



Teleweld Model 16A Double End Type Heater for Rail End Welding will provide the proper pre and post heats to achieve an optimum hardness pattern when building up battered, chipped or fractured rail ends.

MODEL SE RAIL HEATER

Teleweld Model SE Single End Type Heater for Frog, Switch, Engine Burn Welding provides a fast, and economical rail heating.

The SE Rail Heater will heat the head of the rail to 700° to 800°F in approximately 3 minutes, and to 1100° to 1200° in approximately 6 minutes.

Fuel consumption for the Teleweld Heaters is approximately 4 lbs (1.8 kg) of LPG per hour with burner at full heat.





PRECISION RAILWAY COMPANY



***FACTORY AUTHORIZED REMANUFACTURER
HARSCO 6700 Switch / Production Tamper***



PRECISION RAILWAY COMPANY

FACTORY AUTHORIZED RE-MANUFACTURER OF HARSCO MODEL 6700 SWITCH PRODUCTION TAMPER

Remanufacturing

The Harsco 6700 switch production tamper includes four workhead carriages with hydraulic vibrator motors that deliver 4500 VPM in tamping power. The Harsco 6700 is ideal for moderate track raises and is capable of making lifts up to 4 inches at approx. 20 ties per minute.



Remanufacturing Process

We remanufacture Harsco 6700 Switch Production Tampers, upfitting them with the latest OEM technology available. We have the ability to remanufacture customers' existing equipment or procure equipment on their behalf for remanufacturing.

- Jupiter II Operating System
- All major components purchased from OEM, Harsco Rail
- Remanufactured machines have same warranty, reliability, productivity and technology as a new machine

Details of the remanufacturing process of a Harsco 6700 small cab to large cab conversion.



Small cab frame



Frame extension that will convert small cab to large cab style 6700



Rear platform removed and ready for frame extension to be installed



Frame extension in place



Frame extension married to original small cab frame



Frame extension and rear platform newly painted



Front view of newly painted frame and platform



New cab built and painted, ready for install



New OEM components to go on existing frame



Engine remanufactured Cummins 8.3 liter diesel engine, covered by 2-year Cummins warranty



Painted frame in assembly bay



Remanufactured front axle, new front stabilizer cylinders and remanufactured rear drive



New hoses and accumulators



Remanufactured engine being installed



New cab, freshly painted and installed



Remanufactured Harsco workheads being installed



All four workheads installed



New oil cooler relocated to front deck



Remanufactured Harsco jackbeam
ready to be installed



All major components installed.
Machine ready to be filled with
hydraulic fluid and tested





RAILROAD CONSTRUCTION EQUIPMENT



"Railavator" HiRail Excavators – Material Handlers

Railavator

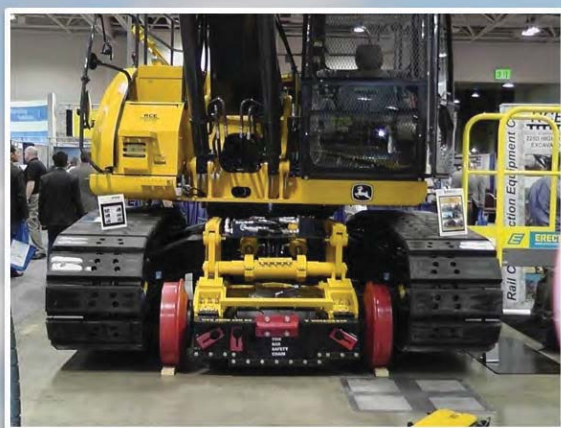
RCE
RAILROAD CONSTRUCTION EQUIPMENT



Well armed.

Whether it's pulling rail, cutting brush, craning items, under cutting, tamping ties, replacing ties, or just digging and trenching the Railavator will arm you for top productivity. With its patented hydraulic powered retractable high rail you take it anywhere you need it.

All the power, smoothness, ease of operation and comfort you'd expect from John Deere excavators in a compact, easy-to-maneuver package. And with quieter, more spacious cabs offering ample legroom and noticeably more glass, comfort and visibility.



Specifications	225D Railavator
SAE Net Horsepower	159 hp
Operating Weight	68,500 lb.
Lift Capacity	14,248 lb.
Digging Depth	22 ft.
Arm Breakout Force	22,924 lb.





Travel at speeds of 20 mph on high rail

10 seconds to raise or lower machine on/off high rail

John Deere drive axles powering high rail wheels

Bucket coupler for easy substitution of attachments

Reduced-tail-swing design allows rotation in confined spaces

Fuel-efficient 159 HP Isuzu Tier-3-emission-certified engine



Available Attachments:

Under Cutter Bar
Tamper Head
Dual Tamper Head
Rotating Tie Head
Brush Cutter Head
Tower Knocker
PTC Driver
Grapple

Cribbing Bucket
General Purpose Bucket
Magnet
Hydraulic Breaker
Scrap Cart
Side Dump Cart
PTC Cart
Material Cart



1. Hydraulic powered dual tamper head with an innovative approach using little or no track time

2. Ability to clean mud from within track without long set up times, lower operating costs and lower maintenance costs

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

4. Mower unit brings the ultimate in brush cutting technology for railroad vegetation management



Large fuel tanks and 500- and 5,000-hour engine and hydraulic oil-service intervals help increase uptime and lower daily operating costs

Auto-idle helps make the most of every precious drop of fuel by automatically reducing engine speed when pilot levers are momentarily released

Large, easy-to-open doors provide quick access to service items. Lube banks, filters and checkpoints are grouped for added convenience

Machine Information Center (MIC) captures and stores vital machine performance and utilization data to help improve uptime, productivity and profit

Conveniently located sight gauges let you check coolant and hydraulic fluid levels at a glance



Keep daily operating costs low, profits high.

The less time you spend on daily maintenance chores, the more time you have to do productive work. That's why the 225D Railavator was loaded with features designed to simplify service and minimize downtime and expense.

Service points are grouped conveniently behind large, easy-to-open service doors, so you can quickly perform daily checks and get on with your day. And get back to the real work of increasing your bottom line.

Specifications

225D
LC

Engine 225D LC

Manufacturer and Model Isuzu AI-4HK1XYSA-02
certified to EPA Tier 3 emissions
159 horsepower, 4 Cylinder
325 cu. in. turbocharged Diesel Engine

Powertrain

Two-speed propel with automatic shift - Travel Speed on Crawler Tracks(maximum)
Low 2.2 mph
High 3.4 mph
Travel Speed on High Rail(maximum) 20.4 mph

Hydraulics

Type Open center, load sensing; auxiliary hydraulic flow adjustable through monitor
Main Pumps 2 variable-displacement axial-piston pumps. . 2 x 56.0 gpm
Operating Pressure 4,980 psi
Controls pilot levers, short stroke, low effort; hydraulic pilot controls with shutoff lever

Swing Mechanism 225D LC

Swing Speed & Torque. 13.3 rpm & 62,850 lbs

Refill Capacities

Fuel Tank 85 gal.
Hydraulic System 60.8 gal.

Operating Dimensions & Weights

Break out Force Arm 27,877 lb. -- Bucket Digging 29,099 lb
Lifting Capacity Over Front at Ground Level . 14,533 lb.
Maximum Reach 31 ft. 3 in. -- Reach at Ground Level 30 ft. 7 in.
Maximum Digging Depth 20 ft. 5 in.
Maximum Cutting Height 34 ft. 8 in.
Maximum Dumping Height 25 ft. 1 in.
Minimum Swing Radius 9 ft. 0 in. -- Tail Swing Radius 5 ft. 6 in.

Machine Dimensions 225D LC

Overall Length 32 ft. 0 in.
Overall Height 10 ft. 6 in.
Cab Height 9 ft. 8 in.
Overall Width with Triple Semi-Grouser Shoes: 10 ft. 6 in
Upperstructure Width 9 ft. 5 in.
Ground Clearance 18 in
Counterweight Clearance 3 ft. 2 in
RAILAVATOR Operating Weight 68,500 lb.

RCE

