• 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
**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:**
Electrically 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 internally 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.

**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

**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 telescoping 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.
GENERAL SPECIFICATIONS

OPTIONS

ANTI TWO BLOCK DEVICE:
Latched.
Furnished with a down-haul weight of sufficient size
at maximum boom extension and elevation
hoist is controlled independently of the main hoist.
Automatic brake and counterbalance valve. Auxiliary
power load lowering and raising. Equipped with an
axial piston motor through a winch speed reducer for
Lebus grooved drum driven by a 2 speed hydraulic

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 parking 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.

CONTROL:
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:
Gantleve 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.

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

### On OUTRIGGERS

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<tr>
<th>LOAD RADIUS (ft)</th>
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### On RAIL

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### On TIRES

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</tr>
</tbody>
</table>

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 cabling 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.

---

### Recommended Tire Pressure

<table>
<thead>
<tr>
<th>Tire Size</th>
<th>Stationary</th>
<th>Creep</th>
<th>2.5 MPH</th>
<th>Travel</th>
</tr>
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<td>10000 X 23.5 22 L</td>
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<tr>
<td>MAX. HOOK LOAD</td>
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<td>40000</td>
<td>50000</td>
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</tbody>
</table>

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

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

2 SECTION (30.5’ - 53’ BOOM)

### On OUTRIGGERS

<table>
<thead>
<tr>
<th>LOAD RADIUS (ft)</th>
<th>BOOM LENGTH (ft)</th>
<th>360º STATIONARY</th>
<th>15º DEFINED ARC COVER FRONT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Over Front (lb)</td>
<td>Over Front (lb)</td>
</tr>
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<td>31</td>
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### On RAIL

<table>
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<th>50 MAX BOOM LENGTH (ft)</th>
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<th>15º DEFINED ARC COVER FRONT</th>
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<tr>
<td></td>
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<td>Creep (Super-elevation)</td>
<td>Creep (Super-elevation)</td>
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### On TIRES

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<thead>
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<th>LOAD RADIUS (ft)</th>
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<tr>
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</table>

### PICK AND CARRY

- **Stationary**: 2.5 MPH
- **Creep**: 2.5 MPH

### Recommended Tire Pressure

<table>
<thead>
<tr>
<th>Tire Size</th>
<th>Stationary</th>
<th>Creep</th>
<th>2.5 MPH</th>
<th>Travel</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.00 X 23.5-2</td>
<td>123 PSI</td>
<td>123 PSI</td>
<td>95 PSI</td>
<td>95 PSI</td>
</tr>
</tbody>
</table>

### Parts of Line

<table>
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<tr>
<th>Parts of Line</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAX. HOOK LOAD</td>
<td>10000</td>
<td>20000</td>
<td>30000</td>
<td>40000</td>
<td>50000</td>
<td>60000</td>
</tr>
</tbody>
</table>

1. All operators and support personnel shall read and fully understand 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 (PCSAS) Standards.

2. All “ON OUTRIGGERS” 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 95% of tipping “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 underestimated 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.

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.
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