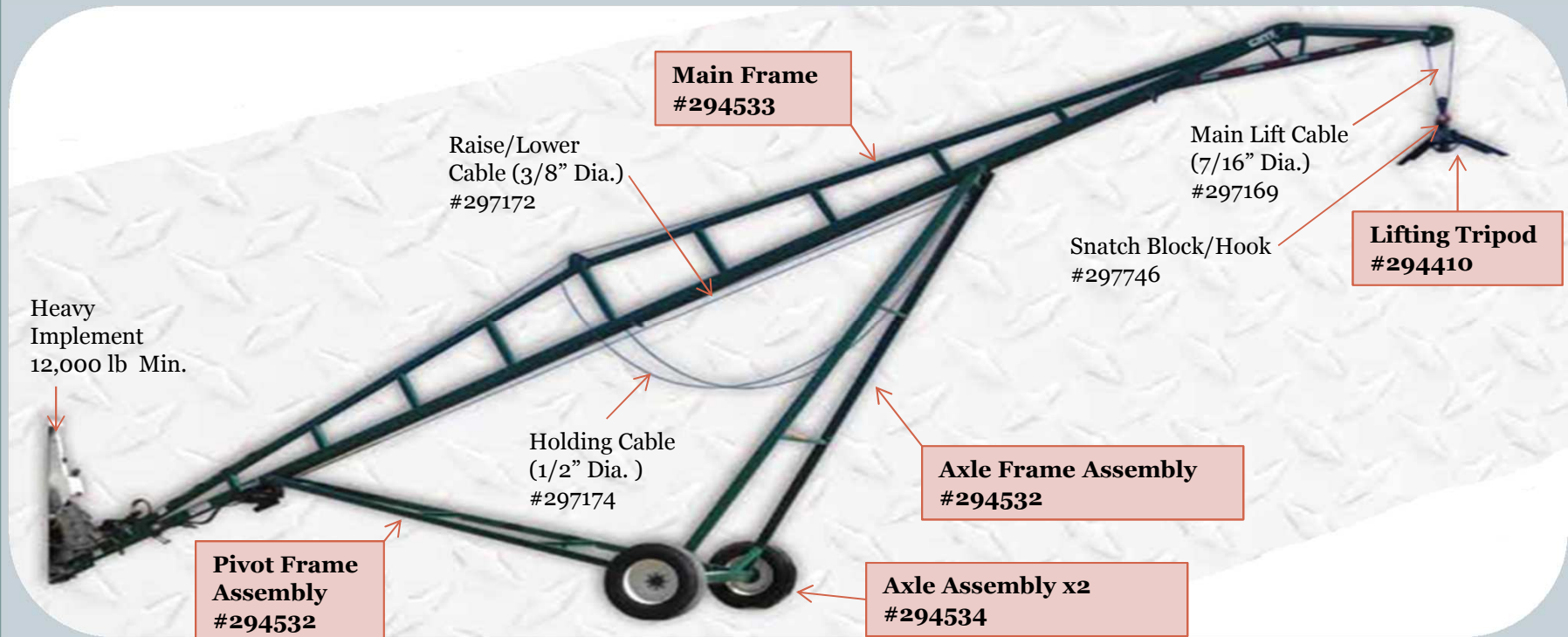


CIM / **COMMERCIAL INDUSTRIAL MANUFACTURING LTD.**

CIM 8000 lb Bin Crane

PART NO. 294530 (8000 LB/3600 KG CAPACITY)

GENERAL TERMS



Bin Lifting Tripod Instructions



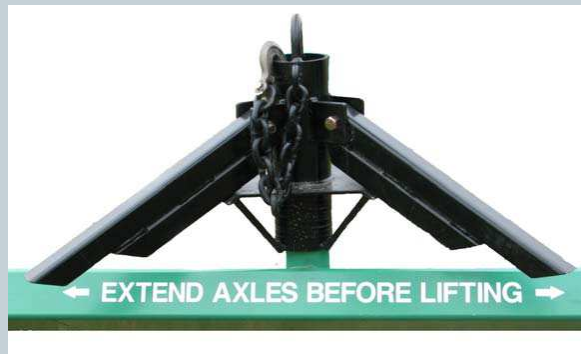
Bin Lifting Tripod Instructions

The bin lifting tripod is designed for use in erecting grin bins, or for placing bins on hopper bottoms. The tripod is recommended for use with bins having a roof slope of approximately 30 degrees – please consult the factory for other applications.

The unit should be lowered through the center roof opening in the completed bin roof in **roof install** position as shown below.

Once through the opening, allowing the tripod to open up to the **transport & lift** position shown below.

Before placing any load on the tripod, hook the safety chain over the lip of the roof opening. In the event of a lifting cable breakage, this chain will prevent the tripod and pulley block from falling and potentially causing serious injury.



Transport & Lift Position



Roof Install Position

IMPORTANT SAFETY WARNING

Never lift people or objects over people Be sure safety chain is hooked before lifting

General Operating Instructions



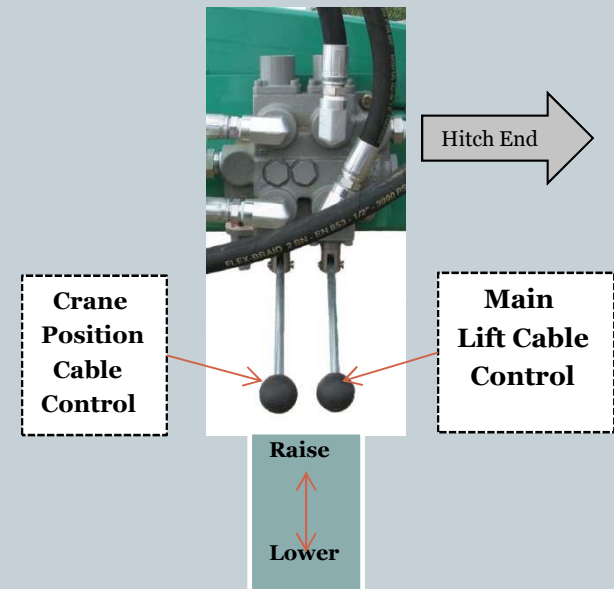
Raising & Lowering Crane

1. Move crane into position near bin to be lifted.
2. Remove the transport hitch. Using the main working hitch and the screw jack, connect the crane to a heavy tractor or similar anchor point.
3. Use the screw jack to lift the wheels off the ground one at a time, extend axles and pin securely in place.
4. Connect the hydraulic hoses after checking lines for cracks and leaks. Select “Raise” position on winch selector valve. Using small lever movements, loosen (lower) the main lifting cable and disconnect the main lifting cable from the transport hook.
5. Select “Raise/Lower” position on winch selector valve. Determine the correct hydraulic lever direction to raise the crane with small movements.
6. Winch the raise/lower cable “in” to raise the crane to the “Low” or “High” working positions. As the crane raises, move the height adjustment cable from hook to hook to keep minimum slack. When working height is reached, hook the winch raise/lower cable “out” to place tension on the height adjustment cable.

Raise/Lower cable is not designed to support crane while lifting.

7. **Raise the crane only as high as needed** for the maximum lift you require. This will keep the crane as stable as possible.
8. Connect the lifting cable to the bin to be lifted using a device of adequate strength.
9. Select “Lift” position on the winch selector valve, and you are ready to begin.
10. To lower the crane, reverse the above procedure. Be sure to keep tension on the lifting cable at all times to minimize cable knotting, etc.
Do Not apply excessive tension to the cable in transport position.
11. Height adjustment cable should always be hooked when at all possible to minimize consequences of a Raise/Lower cable failure.

Rough Dimensions
Transport: 13' 6" x 59'
Max Height: 44' 7"
Usable Height: 41' 6" to
Snatch Block Hook)



Basic Safety Instructions

Danger

1. Maximum Lift Capacity: **8000 lbs** (3600 kg) *
See Bin Crane Setting Selection Information Sheet on Page 8.
2. Never Lift People or objects over people.
3. The Crane **MUST** be attached to a heavy vehicle or implement (greater than 12000 lbs / 5400 kg) before attempting to lift a bin.
4. Use extreme caution while working or moving crane in the vicinity of power lines or overhead objects. Serious risk of shock exists.
5. Be sure device used to attach cable to bin is of adequate strength.

Warning

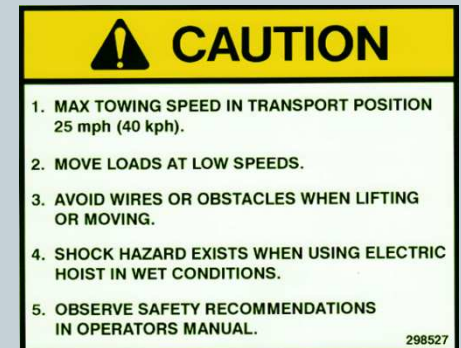
1. Move crane at low speeds when raised or loaded to avoid swinging the load or tipping the crane.
2. Keep hands and loose clothing away from cables and winch mechanism. Be sure that others are well clear of the winch before raising or lowering.

Caution


1. Maximum recommended towing speed in Transport Position 25 mph (40 kph).
2. Do not attempt to transport crane in raised position. Raise crane only as high as needed for job.
3. Check all cables frequently and thoroughly for signs of corrosion, binding or knotting. Replace as required. See Wire Rope Safety on page 11.

VERY IMPORTANT

Keep lifting cable under tension at all times including rewinding. This will prevent the cable from piling up in the winch and damaging the cable.



Warning / Caution Decals



CAUTION

1. MAX TOWING SPEED IN TRANSPORT POSITION 25 mph (40 kph).
2. MOVE LOADS AT LOW SPEEDS.
3. AVOID WIRES OR OBSTACLES WHEN LIFTING OR MOVING.
4. SHOCK HAZARD EXISTS WHEN USING ELECTRIC HOIST IN WET CONDITIONS.
5. OBSERVE SAFETY RECOMMENDATIONS IN OPERATORS MANUAL.

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DANGER

- MAXIMUM LIFTING CAPACITY: 8000 LB. (3600 KG.)
- NEVER LIFT: - PEOPLE
- OBJECTS OVER PEOPLE
- HITCH CRANE TO HEAVY IMPLEMENT BEFORE LIFTING.

FAILURE TO FOLLOW DIRECTIONS MAY RESULT IN SERIOUS INJURY OR DEATH

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WARNING

KEEP HANDS AWAY FROM HOIST AND CABLE WHEN POWER IS CONNECTED

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8000LB CRANE LOAD CHART

HIGH SETTING # 5	8000 LB. MAX.
SETTING # 4	7500 LB. MAX.
SETTING # 3	7000 LB. MAX.
SETTING # 2	6500 LB. MAX.
LOW SETTING # 1	6000 LB. MAX.

Overloading of the crane will result in structural failure

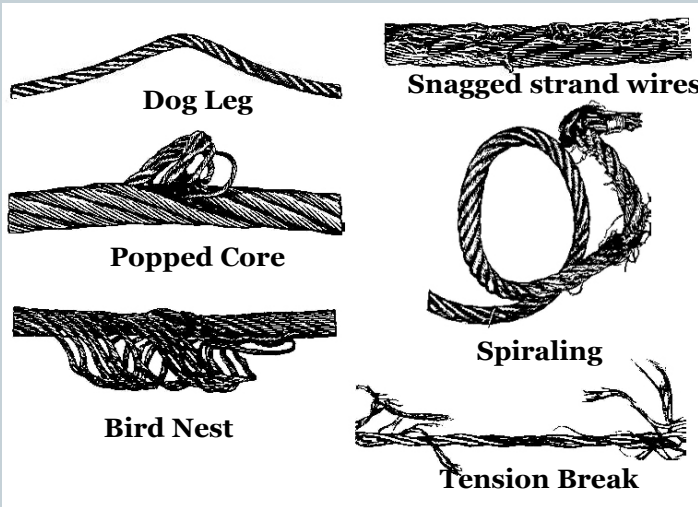
Wire Rope Safety

**** Inspect wire rope before each use ****

Things to look for when inspecting CIM Ltd Crane wire rope:

1. Is there evidence of corrosion, wear or kinks?
2. Are there any visible broken wires?
3. Are the clips & thimbles still in place and protecting the wire rope?
4. Do the thimbles and clevises show any visible defects?

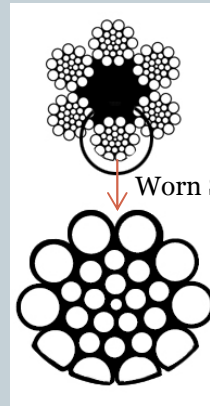
Types of Wire Rope Damage



Broken Wires

Replace wire rope if there are:
- 3 or more broken wires in a 2" length

Wire Wear



If the cable diameter wear reduction is greater than $1/32$ ", the cable must be replaced.

When the surface wires are worn by $1/3$ or more of their diameter, the rope must be replaced

Wire Rope Lubrication

It is important to periodically lubricate the wire rope to prevent excess wearing when the rope bends or straightens. The lubrication is also important to prevent corrosion and the deterioration of the fiber core. Lubricant can be applied in any effective method which can uniformly coat the entire length of the wire rope

Wire Rope Storage and Handling

Wire rope must be handled in a manner to prevent kinking or twisting. Improper rigging and lifting shortens the working life of a rope and puts your employees and equipment in danger. It is important to store wire rope correctly to protect it from grit and dirt.

Very Important

Keep lifting cable under tension at all times including rewinding. This will prevent the cable from piling up in the winch and damaging the cable.

Bin Crane Setting Selection & Limitations



CIM 8000 LB BIN CRANE SETTING SELECTION FOR ***FLAT BOTTOM BINS***
 MODELS INDICATED ARE THE LARGEST LIFTED WITH 8000 LB CRANE WITH JIB EXTENSION

SETTING #1 6000 LB MAX (LOWEST)	SETTING #2 6500 LB MAX	SETTING #3 7000 LB MAX	SETTING #4 7500 LB MAX	SETTING #5 8000 LB MAX (HIGHEST)
148	148	148	148	148
198	198	198	198	198
1507	1508	1508	1509	1509
1807	1807	1807	1807	1807
2106	2107	2107	2107	2107
2405	2406	2406	2407	2407
2704	2705	2705	2706	2706
3604 (2 wraps)	3004	3004	3005	3005
			3304	3304

CIM 8000 LB BIN CRANE SETTING SELECTION FOR ***WELDED HOPPER BINS***
 MODELS INDICATED ARE THE LARGEST LIFTED WITH 8000 LB CRANE WITH JIB EXTENSION

SETTING #1 6000 LB MAX (LOWEST)	SETTING #2 6500 LB MAX	SETTING #3 7000 LB MAX	SETTING #4 7500 LB MAX	SETTING #5 8000 LB MAX (HIGHEST)
148	148	148	148	148
197	197	198	198	198
1505	1506	1506	1506	1506
1805	1805	1805	1806	1806
2104	2105	2105	2105	2106

****ALL SETTINGS BASED ON A HITCH HEIGHT OF 18" AND LEVEL GROUND****
 ****LIMITS ABOVE ARE BASED ON SAFE LIFTING OF THE BIN ONLY****
 ****FULL CRANE SETTING SELECTION & LIMITATIONS CHART LISTED ON Pg.8 OF OPERATORS MANUAL****

Roof Limitations of Wide-Corr Bins

The table below lists the maximum height and weight limits for each diameter of bin which Westeel approves for lifting by the roof using a crane. These limits assume that the total lifting load is even distributed around the peak ring, through the use of a CIM lifting tripod or similar device of adequate strength. Any bin exceeding EITHER the height or weight MUST be lifted using jacks or similar method which supports the wall sheets directly.

These limits are critical. Failure during lifting carries the risk of serious injury or death.

Bin Dia.	Max Tier Height	Approx. Weight
15'	7	5'200
18'	7	5'200
21'	8	*9,000 lbs
24'	8	*9,000 lbs
27'	8	*11,000 lbs
30'	8	*13,000 lbs

Important Safety Notes:

Limits above are based on safe lifting of the bin only. They are not based on design factors for lifting people or objects over people. **Adequate safety blocks or supports must be used when working under or near the bin wall.** Extreme caution must be used when lifting bins more than a few inches, for example when mounting bins to hoppers. "Bouncing" of the load and/or wind gusts can add significantly to the loads on the roof and could cause overloading and/or failure.

***These are the limitations of the Wide-Corr roof**

Crane Inspection



CIM Inspection Check List

1. Inspect entire Crane for straightness & alignment.
2. Inspect entire Crane for Stress cracks, special attention given to Main Frame Assembly & Jib.
3. Remove & Inspect all pins for wear, inspect/replace bushing were applicable.
 - insure proper hardware is in place (ie: Proper Grade Bolts, nuts etc...)
4. Remove Upper Roller Shaft & Bushing, inspect/replace were applicable.
 - insure proper hardware is in place (ie: Proper Grade Bolts, nuts etc...)
5. Inspect wire ropes for damage &/or wear as listed on Pg **11** of Operators manual.
6. Check Tire Inflation Pressure (100 psi)
7. Check Winch Gear Box Oil Level, add as required.
8. Inspect Winch, hoses & valve for wear and/or leaks. Replace or tighten connections as Required.
9. Inspect Axle Hub Assembly, Re-pack bearings as required.
 - insure proper hardware is in place (ie: Dust Caps, Lug Nuts, etc...)
10. Grease entire unit.
11. Install Dated Inspection Decal

List of Common Parts (Full List see Owner Manual)

Item No.	Description
294531	Bin CR Pivot Frame
294532	Bin CR Axle Frame
294533	Bin CR Main Frame
294534	Bin CR Axle Assy
294573	Bin CR Transport Hitch
294574	Bin CR Lift Hitch
297740	Bin CR Sheave, 4" x .375 cable x .625
297742	Bin CR Sheave, 6" x .438 cable x 1.38
297743	Bin CR Sheave, 8" x .438 cable x 1.38
297571	Bin CR Main Roller
297572	Bin CR Main Roller Shaft
297169	Bin CR Cable, .438 cable x 135' IWRC
297172	Bin CR Cable, .375 cable x 70' IWRC
297174	Bin CR Cable, .500 cable x 45' 6" IWRC
297356	Bin CR 3/4" Screw Clevis
297582	Bin CR 1/2" Screw Clevis
297746	Bin CR snatch Block/Hook (8000Lb)
294544	3/4 x 4" Hitch Pin
297425	1" NC Bolt x 3.5" c/w Nut
297426	1" NC Lock Nut
294505	Bin CR Tire & Wheel Assy
297578	Bin CR Braden Winch Mot
294541	Bin CR Winch & Mount
297751	Bin CR Direction Control Valve
298910	Bin CR Jack
29273	Grease Seal #29273
D-10,000	Dust Cap
297117	1/2" Hyd Hose x 10' c/w fittings
297750	1/2" Hyd Hose x 62" c/w fittings

CIM Ltd WARRANTY



It is the policy of Commercial Industrial Manufacturing Ltd. (CIM) to repair or replace any products returned, freight prepaid and judged by CIM to have failed due to defective material or workmanship within a 12 month period from the time the purchaser receives the product from CIM.

CIM will not assume responsibility for loss of income, shipping, labour or travel expenses. The warranty is void if the product has been obviously abused or subjected to other than normal usage for which it was designed for.

Any alterations, modifications or additions done to the finished product will void any warranty claims against the product.

Items that are not manufactured by CIM are covered by the warranties of the supplier of these items. We will therefore extend, without assuming responsibility, any warranty given to us by our suppliers, subject to the terms of such warranties.

CIM reserves the right at any time to make changes to the design of its products as it sees necessary without providing notification of such changes.

Allan Hauber
General Manager