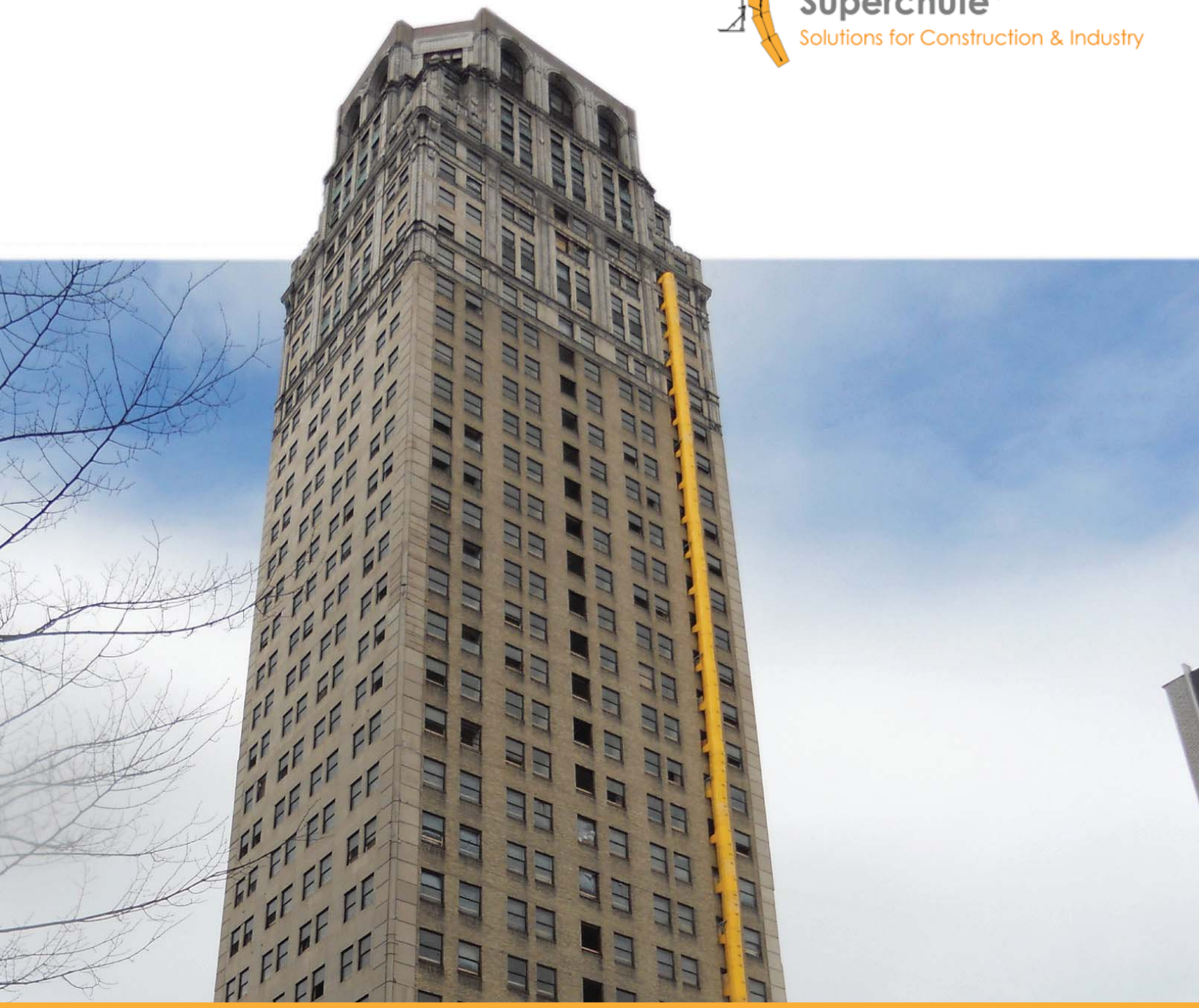
Superchute®
Solutions for Construction & Industry



Superchute® Reference Guide to all Debris Chute & Hoist Products

For pricing please refer to the seperate price book

FOR MORE INFORMATION:

Superchute® Factory
Tel: 800-363-2488
Fax: 514-365-8987

or visit our website
www.superchute.com

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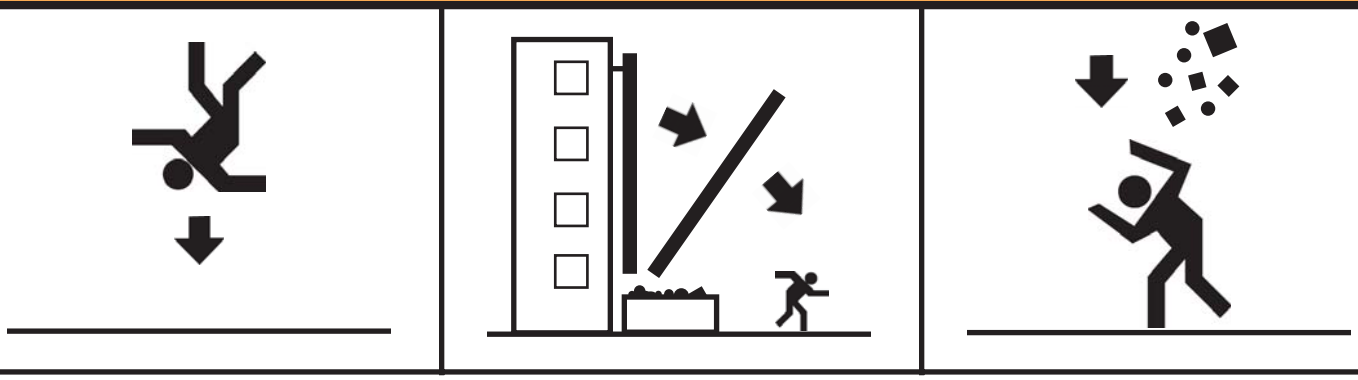
Interested in a First Hand Demonstration of Superchute Products?

Training seminars are offered at the Superchute® Factory and Training Center. Eat in world class restaurants, practice speaking French with the locals, and learn safe chute installation techniques!

One-day training seminars introduce the proper use of Superchute® chute sections, chute hoists, and accessories. We look at OSHA's requirements for chute systems, as well as typical and not so typical installation scenarios.

The factory is located 15 minutes from Dorval Airport on the way into the downtown core. Use your air miles!

⚠ WARNING



- The installation and use of a Superchute Chute System involves many hazards, for example, the risk of:

  - a worker falling off a building
  - a blockage in the chute causing the chute system to collapse
  - a person being struck by falling debris

- Failure to follow Superchute's instructions may result in serious injury or death.

- Before rigging or using a chute system, Planners, Supervisors, Installers, and Users must read, understand, and follow the instructions contained in:

  1. The "Chutes Manual"
  2. The applicable "Chute Hoist Installation Manual(s)"

- For copies of the manuals contact your local distributor or Superchute® Ltd.

When properly used meets OSHA 29 CFR 1926.252 and 1926.852 and CCMC 12270-R

All chute sections are stamped with the above Warning Notice (as of Feb 10, 2000).

The publication you are reading is called "Reference Guide".
It is not a substitute for the "Chutes Manual", or the "Chute Hoist Installation Manual".

Construction Chutes:

OVERVIEW OF THE SUPERCHUTE® SYSTEM

In a complete Superchute® system, a CHUTE HOIST is used to raise, support and lower a series of linked CHUTE SECTIONS.

CHUTE HOISTS are made of galvanized steel, while CHUTE SECTIONS are made of durable polyethylene plastic. CHUTE SECTIONS can be reinforced with STEEL LINERS where needed.

The Chute Hoist

- Many different designs available
- We've got one for your job!
- Use to raise, support & lower the chute

The Top Hopper

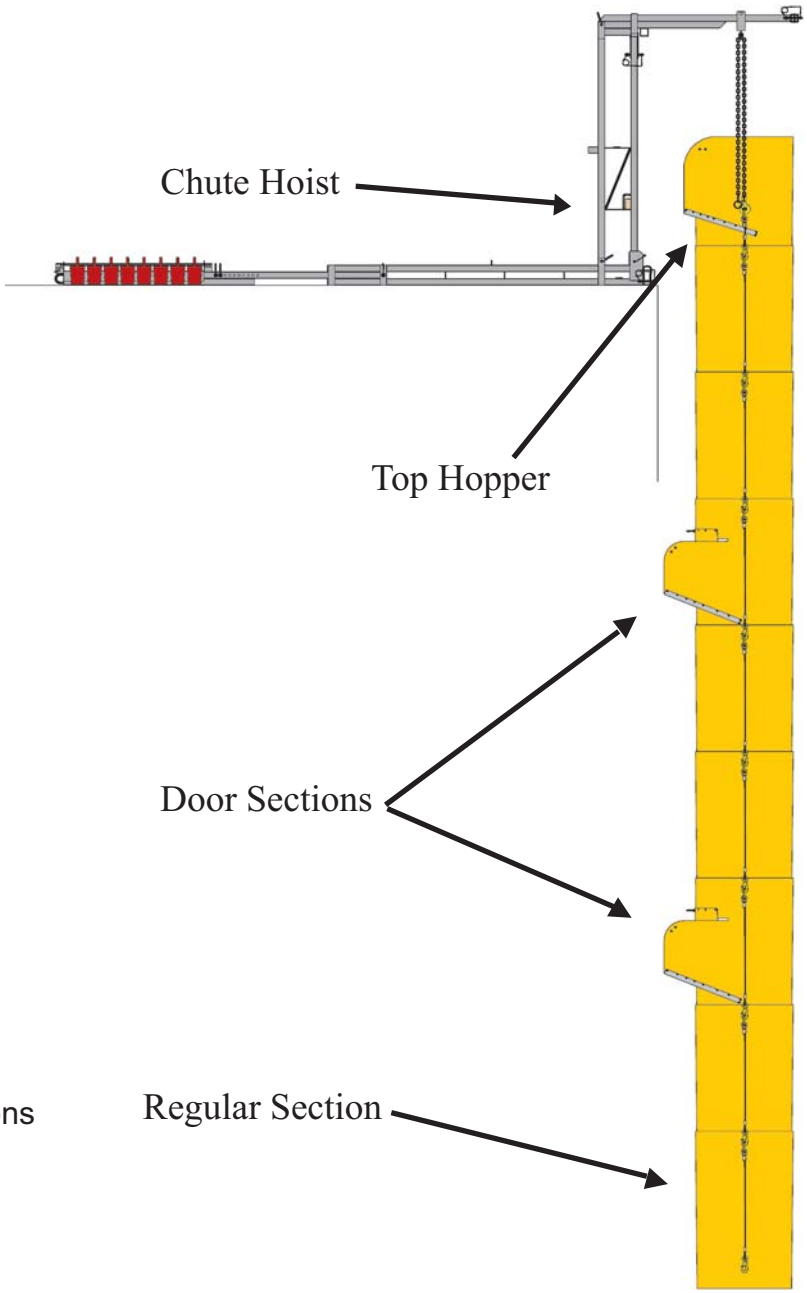
- The uppermost section
- Entry point for debris
- 1 needed per system
- Always heavy duty

Door Sections

- Multi-level entry points for debris
- Can have many in a system
- Always heavy duty

Regular Sections

- The chute consists mostly of these sections



All Sections Are:

- 4 foot high conical tubes
- Available in 6 diameters: 18", 23", 27", 30", 33", 36"
- Outstandingly resistant to abrasion, chemicals, & cold
- Lightweight, safe, flexible, and quiet during use
- Made of our bright yellow, UV-protected plastic
- Printed with a warning notice

WELDED SECTIONS

- The original permanent tube design
- Diameters available:

18” • 23” • 27” • 30” • 33” • 36”

All sections are 4 ft in height.

When linked, 3 sections of any type create a 10 foot drop.

(The overlap is 8”)

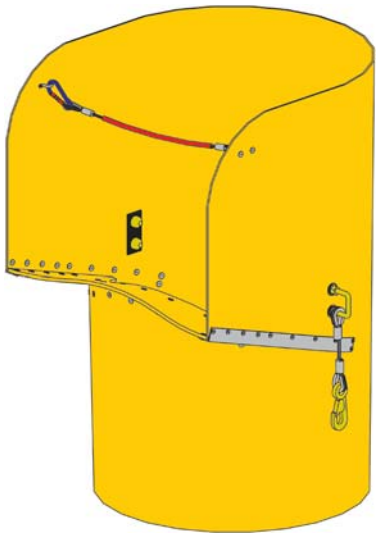
SAFETY FACTOR OF THE LINKING SYSTEM

10:1

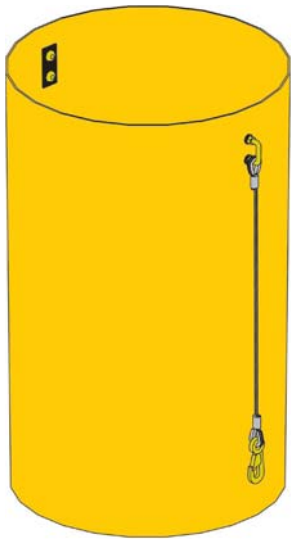
All Superchute® sections are equipped with two 10,000 lb. strong cable assemblies (the combined breaking strain is 20,000 lb).

The Working Load Limit of a Superchute® section is 2,000 lb.

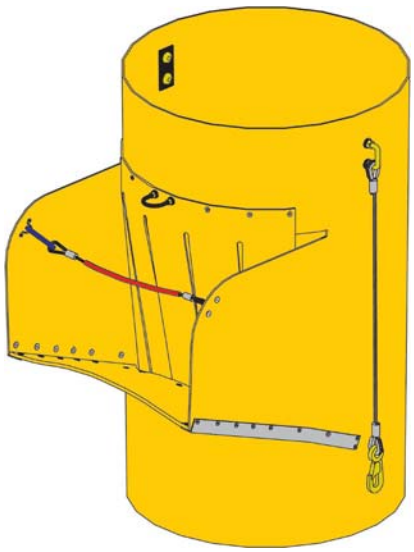
Superchute® chute sections are designed to meet or exceed the requirements of OSHA, Part 1926.852, Subpart T, Chutes, Demolition.



Top Hopper Section



Regular Section



Door Section

WRAPAROUND® SECTIONS

- Top Hopper, Regular, & Door sections are also available as Wraparound® Sections (lay-flat design).
- Wraparound® Sections are available in these diameters: 23” • 27” • 30” • 33” • 36”

Flat: Ready for Transport / Storage

Assembled: Ready for Use

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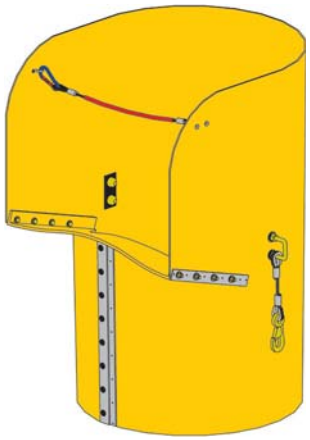

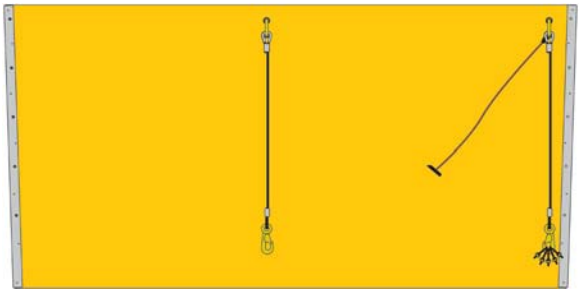

5 eyebolts are all that are needed to assemble a Wraparound® Regular Section.

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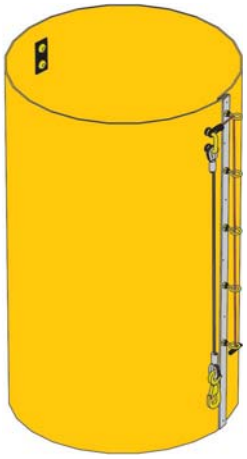
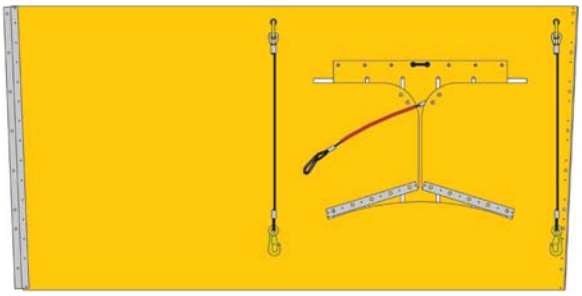
Eyebolt





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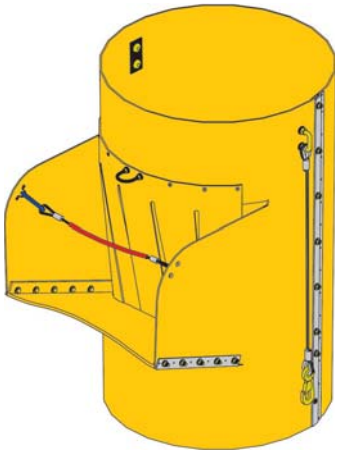
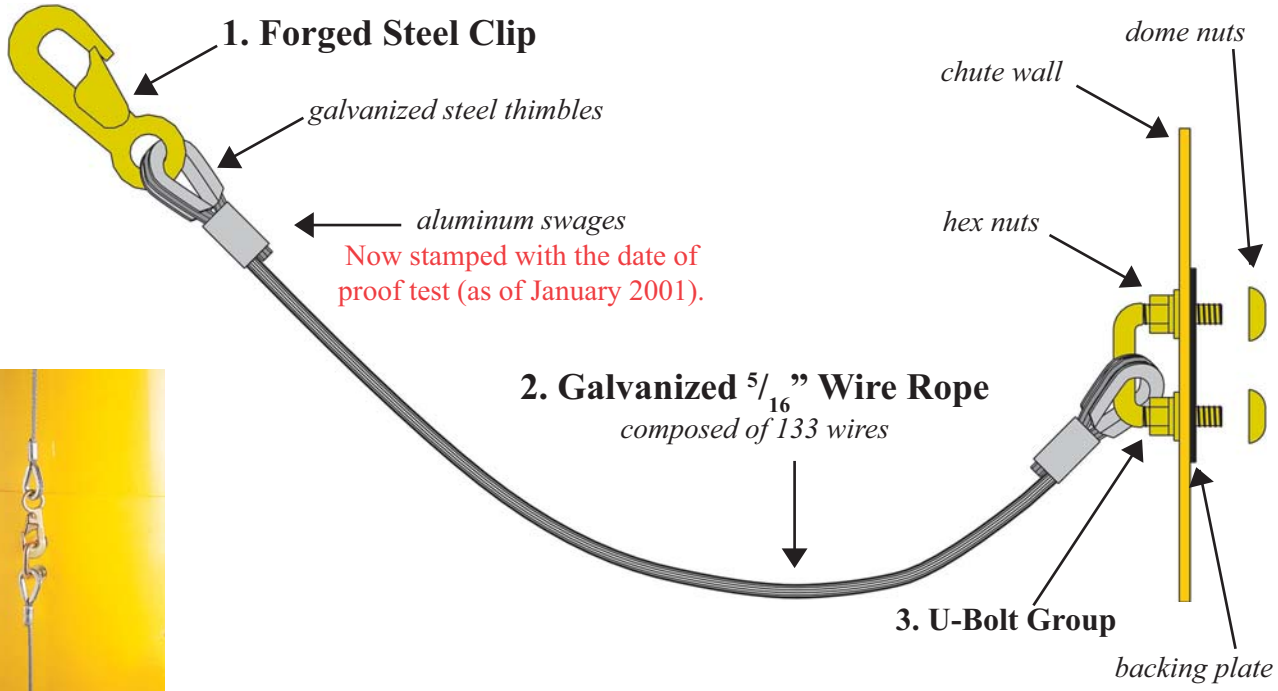


SUPERCHUTE® CABLE ASSEMBLIES - NOW PROOF TESTED

Superchute® sections feature a unique linking system that is QUICK, LIGHTWEIGHT, and STRONG: Working in pairs, cable assemblies allow safe suspension of up to 200 ft. or 2000 lb. of chute (whichever is reached first) with a safety factor of 10 to 1.*

The cable assembly is made of the following pieces:

1. Forged Clip: Strong & impossible to remove without cutting through wire rope
2. Wire Rope: Safer, lighter, & easier to handle than chain
3. U-Bolt Group: Secures the wire rope to the chute wall



All Superchute® sections are equipped with 2 cable assemblies. To build a length of chute, simply clip the cable assemblies of the upper section to the U-Bolts of the section below. Repeat. The result will be two continuous wire rope systems, one on each side of the chute, that support all the weight of the chute.

Why Not Use Chain?

"For general construction rigging never use a chain when it is possible to use wire rope. The failure of a single link of chain can result in a serious accident but wire rope on the other hand is frequently composed of 114 wires all of which must fail before the rope breaks. Wire rope gives you reserve strength and a chance to notice a hazard, chains do not." (Rigging Manual, CSAO, 1996)

Superchute® does use chain in products where adjustment is required. For example: Door Adjustment Kits and chute hoists. However, only high quality Grade 70 and Grade 80 chains are ever used.

* Chute sections manufactured in February 1999 or later, equipped with the original cable assemblies, can be used to build a chute system up to 60 sections in height (equivalent to 200 feet or 60 meters) or 2000 lb. (900 kg) in weight, whichever is reached first, provided the two cable assemblies of each section are in new or "good as new" condition. Call Superchute Ltd. or consult the Chutes Manual for the height & weight limits of chute sections that were manufactured before Feb. 1999. **The MONTH and YEAR of manufacture are branded into every chute section (since June 1996), along with the SECTION WEIGHT (since Oct. 1997).**

CABLE ASSEMBLY STRENGTH AND PROOF TESTING

Cable Assembly Strength

- Destruction tests have shown the **Breaking Strain** of a cable assembly to be approx. 10,000 lb. (4500 kg)
- Using a design factor of 10:1, the **Working Load Limit** of a cable assembly is calculated as 1000 lb. (450 kg)
- A chute section has 2 cable assemblies. Therefore a section has a Working Load Limit of 2000 lb. (900 kg)

The information on this page applies to Superchute® cable assemblies in new or "good as new" condition, that were supplied with Superchute® chute sections manufactured in February 1999 or later. Wear and tear will reduce cable assembly strength. Superchute® cable assemblies are designed for use on Superchute® Chute Sections. Do NOT use Superchute® cable assemblies for any other application.

Cable Assembly Proof Testing (as of January 2001)

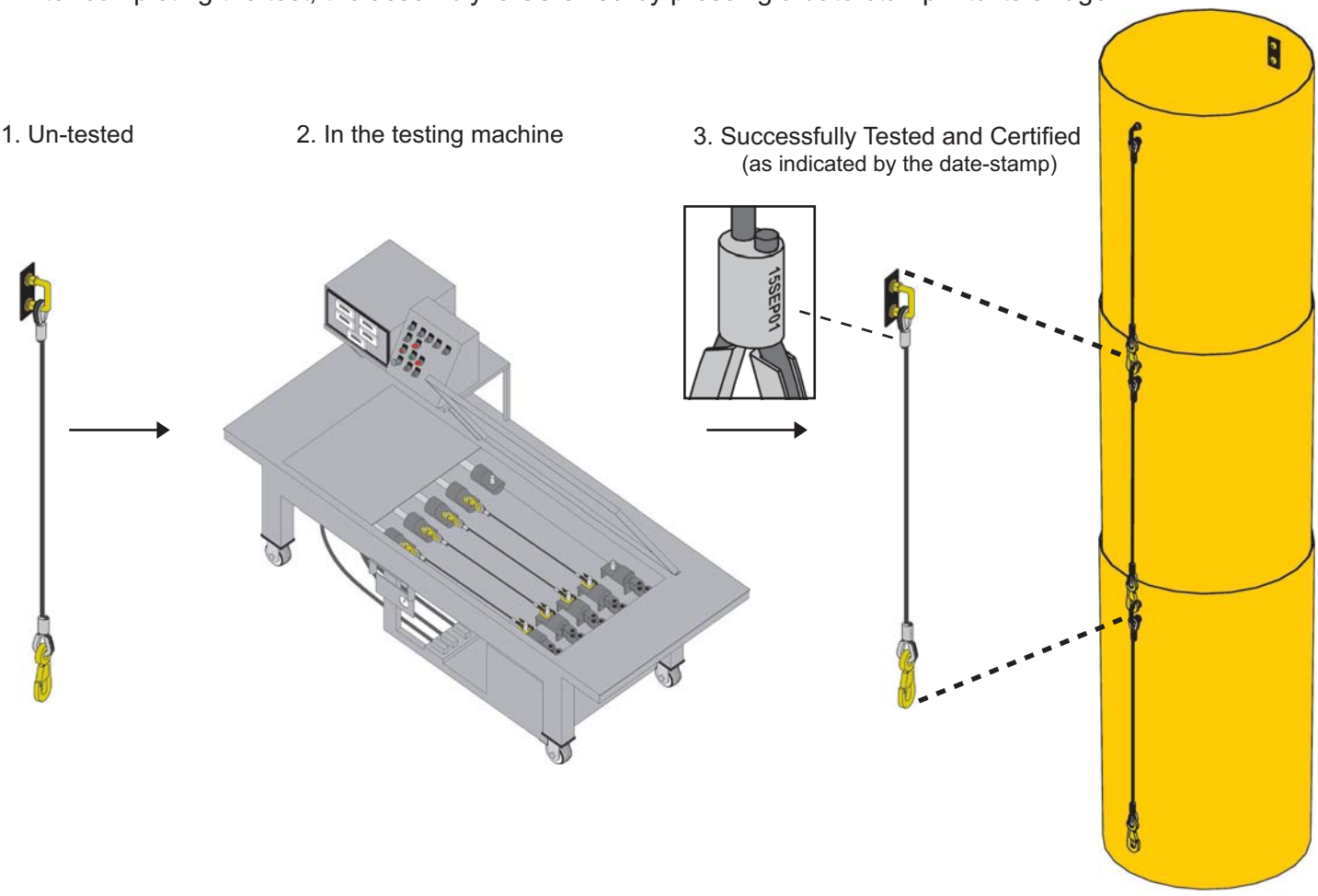
Proof Testing ensures that the cable asssembly was properly made, with components of consistent quality.

- Every cable assembly is proof tested to twice its Working Load Limit
- The Working Load Limit of one cable assembly is 1000 lb. (450 kg)
- Therefore, every cable assembly is **Proof Tested** to 2000 lb. (900 kg)
- After completing the test, the assembly is **Certified** by pressing a date-stamp into its swage

1. Un-tested

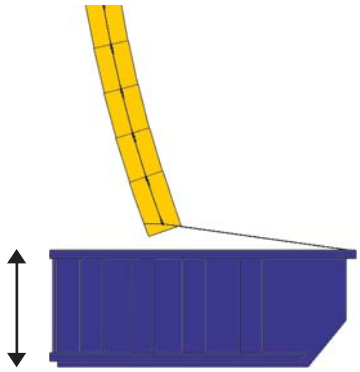
2. In the testing machine

3. Successfully Tested and Certified
(as indicated by the date-stamp)



CONTAINER HEIGHT

When calculating the length of chute you will need, do not forget to subtract the height of the container (approx. 8 ft).



THE WARNING GATE

All Superchute® top hopper & door sections are equipped with a red warning gate.

Explain to workers that the warning gate indicates the operational status of the chute:

- **USE THE CHUTE** when the gate is NOT fastened across the chute opening (debris may be thrown into the chute).

- **DO NOT USE THE CHUTE** when the gate is fastened across the chute opening (do not throw debris into the chute). One of the following situations may exist:

    - There is no container under the chute.
    - The container is full and must be changed for an empty one.
    - The chute is blocked.
    - Workers are adding or removing chute sections.
    - Workers are replacing a damaged chute section.

The warning gate is an OSHA requirement.

The red rubber sheath of the gate is printed with the following instruction:

DO NOT USE CHUTE WHEN THIS WARNING LINE IS CLIPPED ACROSS OPENING

YOUR COMPANY NAME IS ON THE CHUTE

We can brand your company name and phone number into your chute system. Every section is stamped front and back with an 11” x 5” die. This is an excellent advertising tool and a great anti-theft measure.

There is a one-time, set-up charge for making the die, but none for the actual stamping of the sections. Please allow an extra 24 hours for making the die. Once the die is made it is kept in our library, ready to stamp your future orders!

To assist installers and purchasers, section descriptors are also branded into every chute section.

Names can be stamped in BLACK, RED, GREEN, or BLUE ink.

THE PLASTIC

The durability and life of the chute depend on the quality of the plastic. Superchute® uses a high grade polyethlyene that is extremely resistant to abrasion and temperature extremes.

The plastic is unaffected by sub-zero temperatures as low as -156°F (-100°C) which explains why Alaskan contractors insist on using the Superchute®!

To resist sunlight degradation, the plastic is UV treated.

PLASTIC COLOR:

Any color you like, as long as it is yellow! Our brilliant yellow plastic is a visible, safety-minded color and does a great job of showing off your name plate.

SUPERCHUTE® SPREADER BAR

Use the Superchute® Spreader Bar to attach a length of chute to a hoist or crane cable.

Superchute® manufactures two Spreader Bars to meet your needs:

The Light Duty Spreader Bar has cables and features a working load limit of 1000 lb. (450 kg).
The Heavy Duty Spreader Bar has chains and features a working load limit of 2000 lb. (900 kg).

The Light Duty Spreader Bar

The Heavy Duty Spreader Bar

SUPERCHUTE® SECTION AND LINER WEIGHTS

Before a chute is installed its total weight must be know. Knowing the weight of the chute enables the installer to choose a Chute Hoist, or similar, with sufficient load capacity.

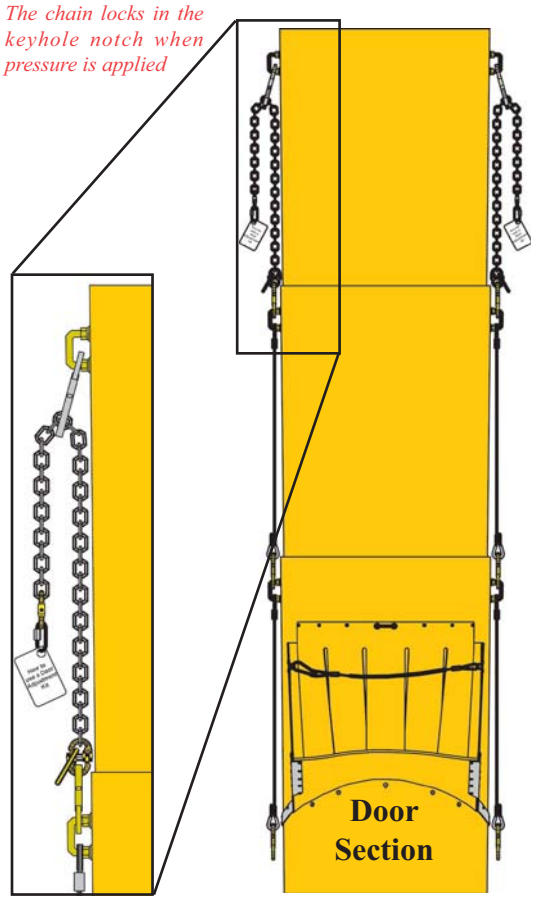
Chute Specs		The Weight of Each Section in lb.						
		Wraparound® Design			Welded Design			Liners (in steel)
Diameter	Wall Gauge	Regular	Top Hopper	Door	Regular	Top Hopper	Door	
18"	5 mm	-	-	-	23	24	29	23
23"	5 mm	30	30	40	27	29	36	32
27"	5 mm	34	41	47	32	34	41	37
30"	5 mm	39	41	50	36	39	47	40
30"	4 mm	31	-	-	27	-	-	40
30"	3.2 mm	28	-	-	-	-	-	40
33"	5 mm	43	48	57	-	40	50	48
36"	5 mm	46	55	64	-	46	57	53

* - signifies that no such section exists.

SUPERCHUTE® DOOR ADJUSTMENT KIT

If your chute incorporates door sections, you may occasionally find that their openings do not line up with the window sills (or floor slabs, or scaffold platforms). Rough adjustment of a door's position is achieved by adding or removing regular sections. For finer adjustment use a Door Adjustment Kit.

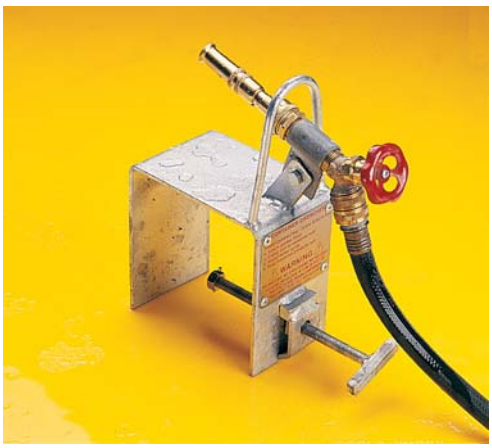
The Kit consists of two lengths of rated chain. Each length is fitted with two clips, one of which is a special chain-grabbing clip (custom forged for Superchute®). The kit is applied to regular sections above the door, which has the effect of raising all the chute below the kit. Debris removal is safer and easier with properly positioned door sections.



Notes:

- The kit is used only where a door needs adjustment.
- One kit is needed for each door you want to adjust.
- As the regular sections nestle further into one another, the door will rise.
- Come-alongs (sold separately) are recommended: One pair per jobsite.

SUPERCHUTE® CONTAINER DRENCHER



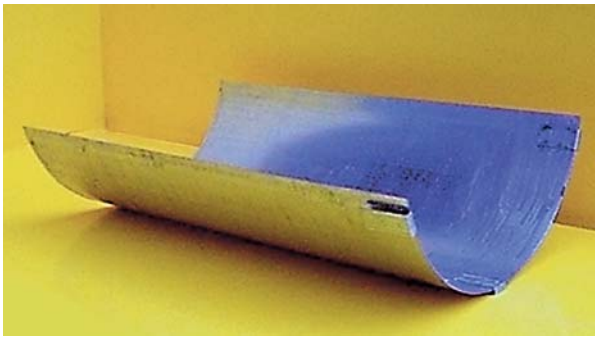
Keep the contents of the trash container wet at all times. Use the drencher to prevent a container from catching fire and subsequently setting fire to the building and/or suspended chute system (which might also introduce smoke into the building).

Use the drencher as part as your overall fire protection plan.

If the temperature will drop below the freezing point, or if the container contains hazardous materials that could leak out, do not apply water. Implement other fire protection measures. Call Superchute® Ltd. for details, or refer to the Chutes Manual.

STEEL LINERS

Use Superchute® Steel Liners to protect heavy-wear areas in your chute system, for example:



- The last few sections curving into the container
- The back wall of a door section
- The back wall of a top hopper

Superchute® Liners feature:

- 14 gauge galvanized steel construction
- Brackets for easy attachment to the wall
- Two hand-holds
- Painted diameter specs.
- Stainless steel warning label

Liners are available for all six chute section diameters:

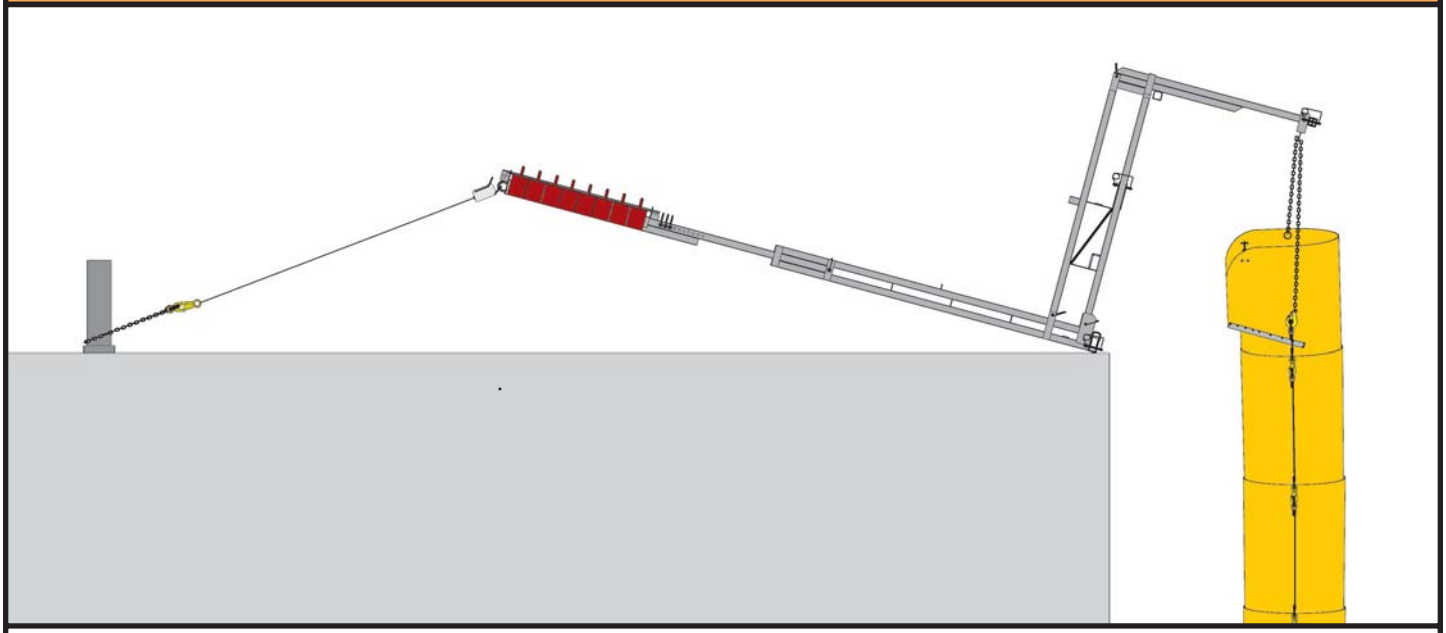
Chute Diameter	Weight of Liner
18"	23 lb.
23"	32 lb.
27"	37 lb.
30"	40 lb.
33"	48 lb.
36"	53 lb.

CONTAINER CORD

It is common practice to tie the end of the chute to various points of the container, in order to obtain an even fill. The problem is that most ropes have tremendous strength, and are unlikely to fail if the full container is accidentally driven away with the rope still attached. Because this scenario could result in the ENTIRE CHUTE BEING PULLED FROM THE BUILDING we recommend the use of Superchute® Container Cord (provided free of charge with every chute order). Superchute® Container Cord is designed to fail, thus freeing the chute.

CHUTE HOISTS

⚠ WARNING



- Every Superchute Chute Hoist is designed to safely lift, support, and lower a maximum chute load. The hoist Frame and Fishpole may fail if more than the maximum load is applied.
- A falling chute system can seriously injure or kill.
- NEVER overload a hoist Frame or Fishpole.
- Calculate the total weight of the chute before installing it (add up the weight of all chute sections and steel liners that will be used). The chute's total weight MUST NOT exceed the maximum load capacity of the chute hoist. If it does, the selected hoist model is not satisfactory for the job at hand. Read, understand, and follow the instructions contained in the "Chutes Manual" and "Chute Hoist Installation Manual(s)" before rigging or using a chute hoist.
- For copies of the manuals contact your local distributor or Superchute® Ltd.

CHUTE HOISTS

Use Superchute® Chute Hoists from roofs, floor slabs, and windows:

Bolt Down Hoists

Roofer Hoists

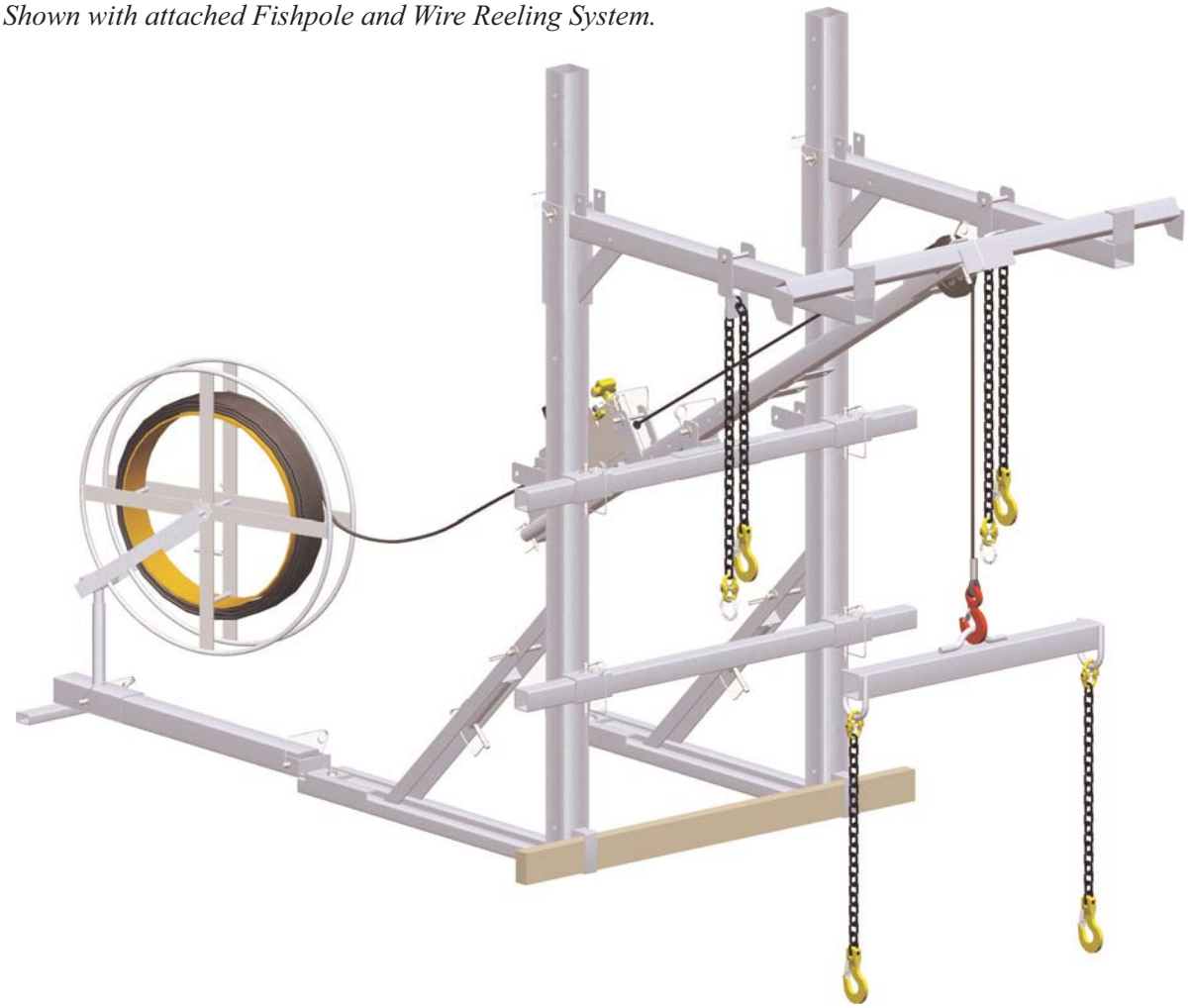
Hoisters

Loadspreaders

- 13 models available
- All feature a 3:1 safety factor
- All use a removable Fishpole
- All work with cranes
- Assemble in 10 min. with lock pins
- Easy to transport
- Galvanized steel construction
- Only to be used for handling chutes

Model SC-750-bd

Shown with attached Fishpole and Wire Reeling System.



Bolt Down Frames

WARNING!

Always ensure adequate fall protection exists.
For ease of viewing, many of the enclosed sketches show chute hoists installed WITHOUT adequate surrounding fall protection.

Bolt Down Frames: SC-250-bd, SC-500-bd, SC-750-bd, SC-1000-bd & SC-1500-bd

The Superchute® Bolt Down Frame is a popular chute hoist that attaches to a concrete floor slab using 2 expansion anchor bolts (supplied). On jobs where drilling into the floor is not possible, the Frame can be secured using a Counterweight Conversion Kit.

Each Frame ships and stores as a neat, compact rectangular packet, and assembles in 5 minutes using only 6 locking pins. Built-in storage tubes hold the anchor bolts. There are no loose pieces.

Five Frame models are available. These offer a maximum chute load capacity of 250 lb, 500 lb, 750 lb, 1000 lb or 1500 lb. All feature a 3:1 safety factor. The length of chute that a single Frame can lift, support, and lower depends on the diameter of chute used (larger diameter chute sections weigh more).

On jobs where a taller chute is needed, Frames can be piggybacked on successive floors to achieve a maximum chute height of 200 ft.

Raise and lower the chute using a crane, boom lift, or the removable Fishpole. A single Fishpole can serve many frames of the same model.

The SC-250-bd and SC-500-bd Frames share the same Fishpoles as do the SC-750-bd and SC-1000-bd (3 Fishpole models are available: one has a drum winch with 90' of cable, the other two have a traction winch for cases where a longer cable is needed).

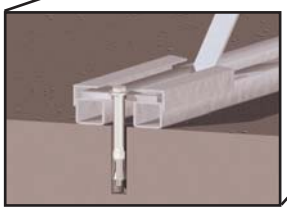
U.S. Pat. 5,934,437

Model SC-250-bd

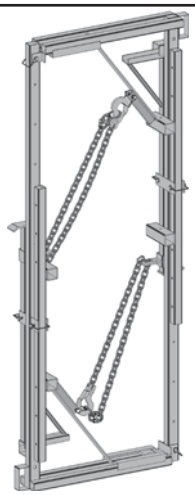
Use only with HILTI® Bolt model HSL M12/50 or HSLB M12/50 or Power-Bolt model 6945 (available from Superchute®)

WHEN PROPERLY USED, MEETS OSHA'S FALL PROTECTION REQUIREMENTS

THE ADEQUACY OF THE SUPPORTING STRUCTURE MUST BE VERIFIED BY A STRUCTURAL ENGINEER

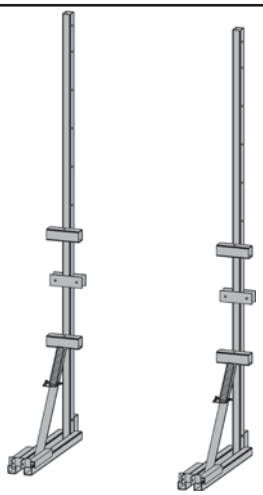


STEP 1



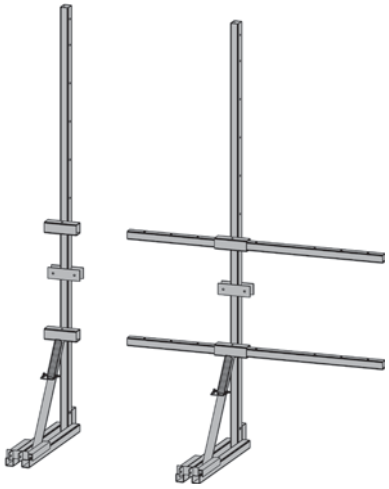
Start with a closed packet.

STEP 2



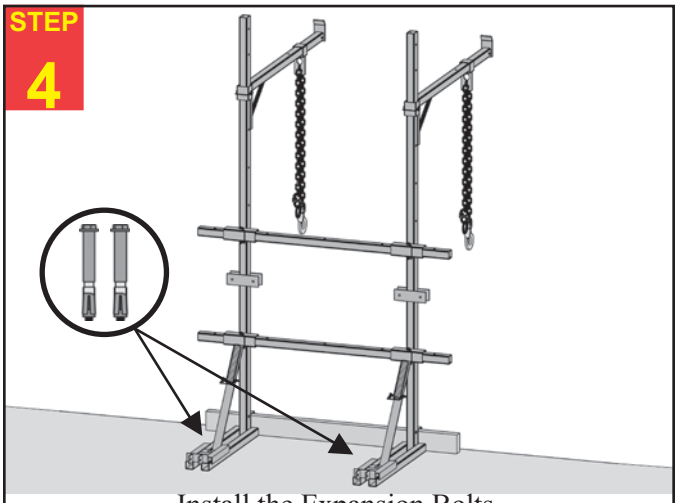
Place the Masts side by side.

STEP 3



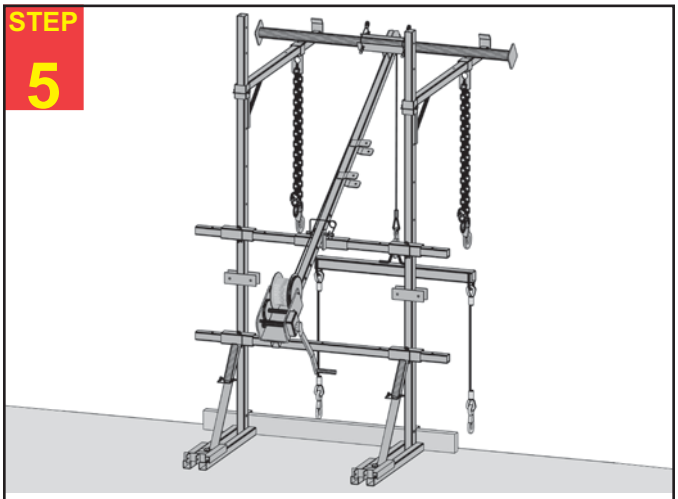
Insert the Tie Bars.

STEP 4



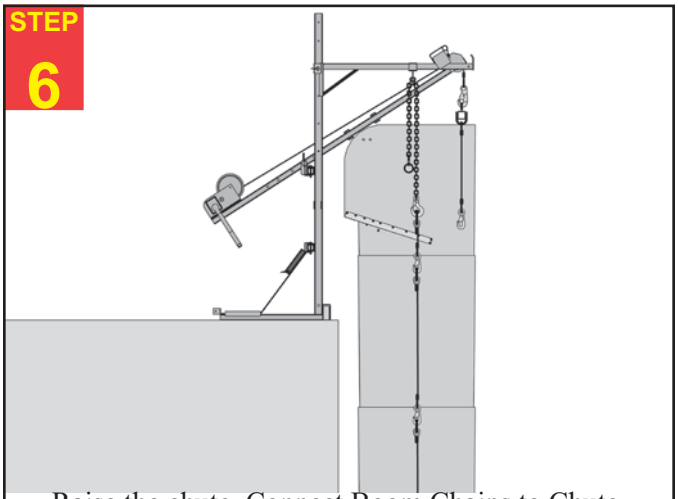
Install the Expansion Bolts.
Insert Toeboard. Attach Booms.

STEP 5



Install the Fishpole and lower the Spreader Bar.

STEP 6



Raise the chute. Connect Boom Chains to Chute.
Unclip Spreader Bar and remove Fishpole.

BOLT DOWN FRAME INSTALLATION HEIGHTS

SC-250-bd

Diameter of Chute:	18"	23"	27"	30"	33"	36"
Max. number of chute sections:	10	7	6	6	5	5
Max. length of chute:	34 ft	24 ft	20 ft	20 ft	17 ft	17 ft

SC-500-bd

Diameter of Chute:	18"	23"	27"	30"	33"	36"
Max. number of chute sections:	20	16	13	11	10	9
Max. length of chute:	67 ft	54 ft	44 ft	37 ft	34 ft	30 ft

SC-750-bd

Diameter of Chute:	18"	23"	27"	30"	33"	36"
Max. number of chute sections:	32	25	20	18	16	14
Max. length of chute:	107 ft	84 ft	67 ft	60 ft	54 ft	47 ft

SC-1000-bd

Diameter of Chute:	18"	23"	27"	30"	33"	36"
Max. number of chute sections:	42	33	27	25	22	19
Max. length of chute:	140 ft	110 ft	90 ft	84 ft	74 ft	64 ft

SC-1500-bd

Diameter of Chute:	18"	23"	27"	30"	33"	36"
Max. number of chute sections:	64	51	42	37	34	29
Max. length of chute:	214 ft	170 ft	140 ft	124 ft	114 ft	97 ft

WARNING! Height limits will be reduced if using steel liners.

Use only with HILTI® Bolt model HSL M12/50 or HSLB M12/50 or Power-Bolt model 6945 (available from Superchute®)

THE COUNTERWEIGHT CONVERSION KIT

In cases where the floor cannot accommodate Expansion Anchors, the Frame may be secured using a Counterweight Conversion Kit.

Hoist Model	Counterweights Required
SC-250-bd	6 (330 lb. Total)
SC-500-bd	12 (660 lb. Total)
SC-750-bd	20 (1100 lb. Total)
SC-1000-bd	22 (1210 lb. Total)
SC-1500-bd	30 (1650 lb. Total)

Model SC-500-bd

PIGGYBACKING

All hoists shown are Model SC-250-bd

On jobs where a taller chute is needed, Frames can be piggybacked in order to achieve a maximum chute height of 200'.

For buildings that are growing skywards, the piggyback arrangement may be the only practical installation method.

Piggybacking allows the chute to be lengthened quickly, without disturbing segments that have already been installed:

As the building rises, fasten a Bolt Down Frame to the latest floor level. Use the Fishpole or a crane to raise a new length of chute to the new floor level. Chain the chute length to the Frame, and mate its lower end to the chute already in use below.

If the chute system contains door sections, the piggyback arrangement will also allow the door sections to be better aligned with the window or floor slab openings.

DIMENSIONS OF THE BOLT DOWN FRAMES

Secured using Expansion Anchor Bolts (Top View)

Model SC-250-bd

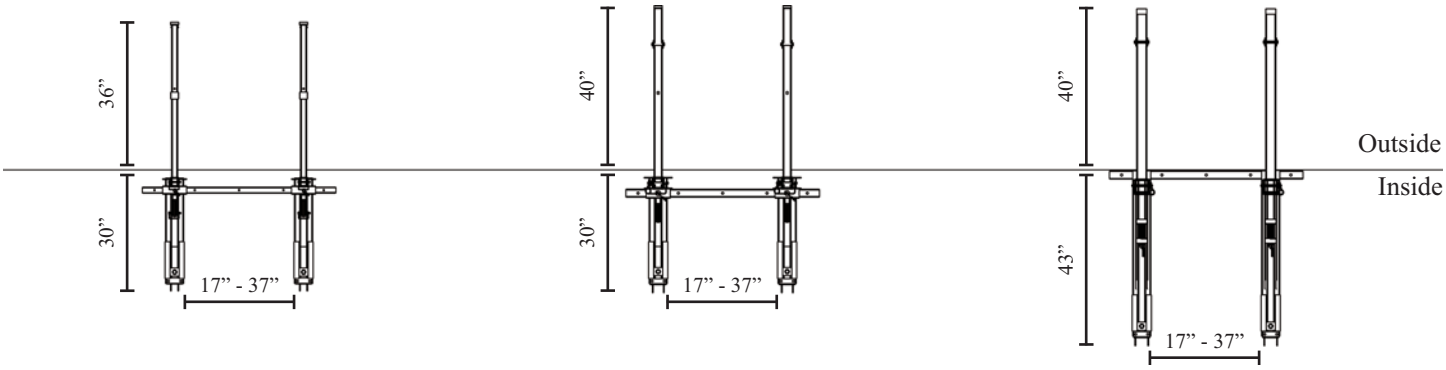
Frame Weight:	110 lb.
Fishpole Weight:	70 lb.
Mast Height:	6’ 6”

Model SC-500-bd

Frame Weight:	190 lb.
Fishpole Weight:	70 lb.
Mast Height:	6’ 6”

Model SC-750-bd

Frame Weight:	210 lb.
Fishpole Weight:	95 lb.
Mast Height:	6’ 6”

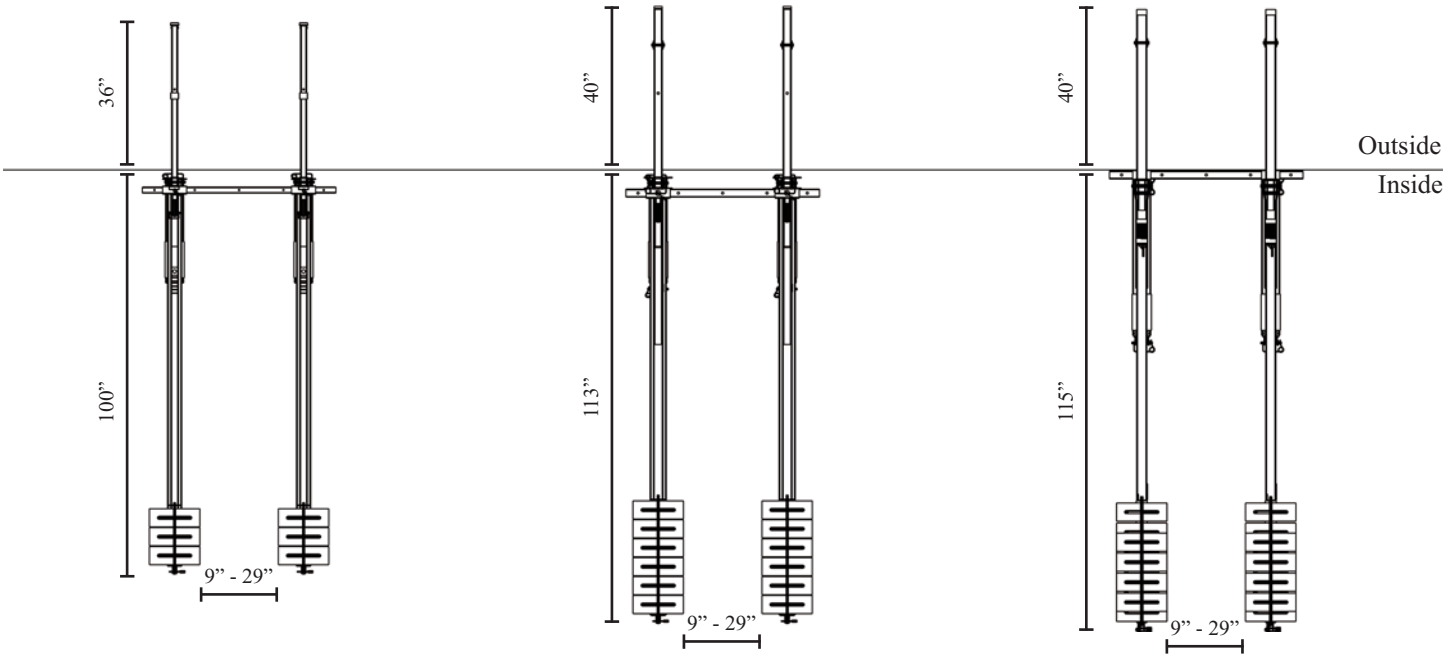


Secured using Counterweights (Top View)

Frame Weight:	190 lb.
Counterweights:	330 lb.

Frame Weight:	300 lb.
Counterweights:	660 lb.

FrameWeight:	370 lb.
Counterweights:	1100 lb.



DIMENSIONS OF THE BOLT DOWN FRAMES

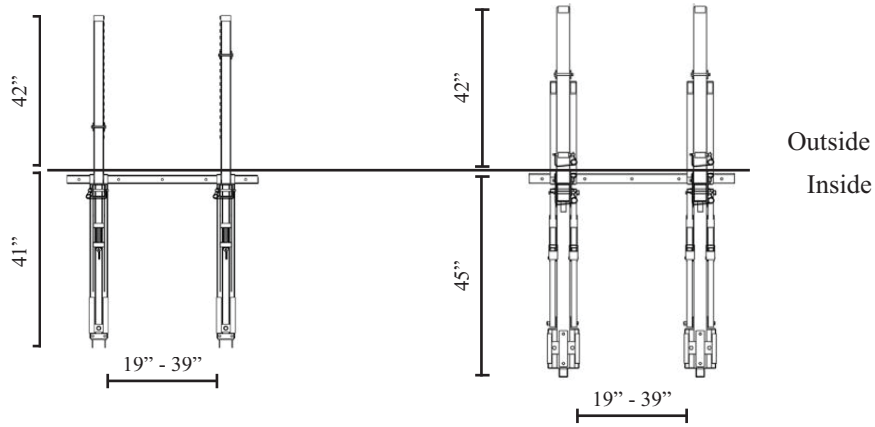
Secured using Expansion Anchor Bolts (Top View)

Model SC-1000-bd

Frame Weight:	275 lb.
Fishpole Weight:	115 lb.
Mast Height:	6’ 6”

Model SC-1500-bd

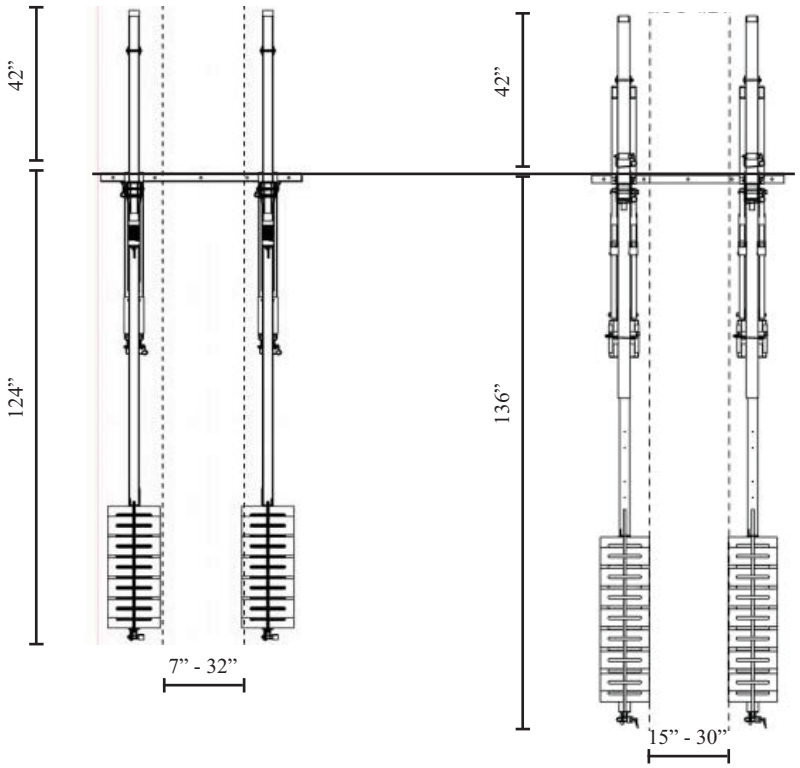
Frame Weight:	300 lb.
Fishpole Weight:	30 lb.
Mast Height:	6’ 6”



Secured using Counterweights (Top View)

Frame Weight:	415 lb.
Counterweights:	1210 lb.

Frame Weight:	500 lb.
Counterweights:	1650 lb.



Model SC-900-s or SC-2000-s

Shown with winch attachment

Scaffold Hoists

WARNING!

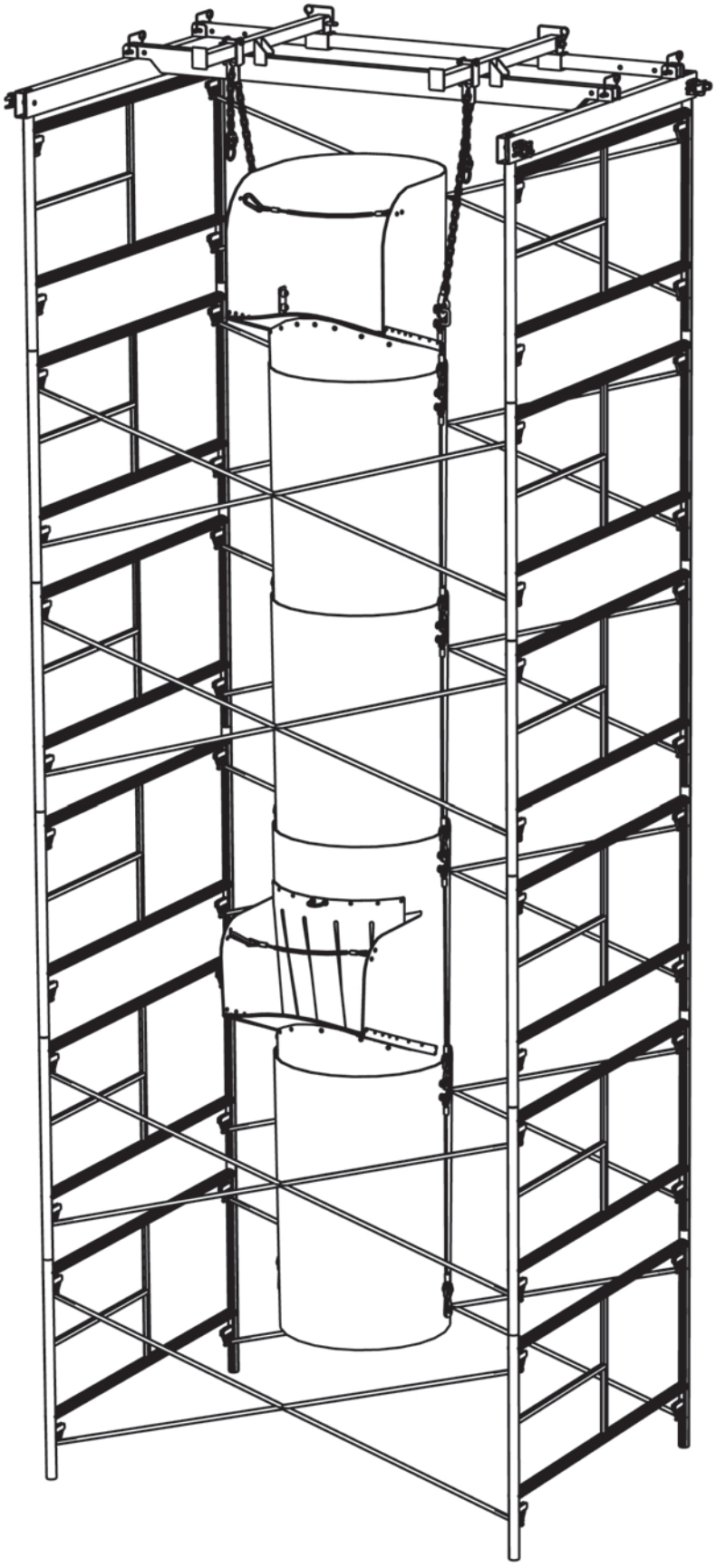
Always ensure adequate fall protection exists.

For ease of viewing, many of the enclosed sketches show chute hoists installed WITHOUT adequate surrounding fall protection.

Scaffold Hoists: SC-900-s or SC-2000-s

For Installation
ON TOP OF or INSIDE
a Scaffold Tower

The weight of the chute is evenly distributed to the four corners of the scaffold.



STEP 1

Attach the End Members to the Scaffold Frames.

STEP 2

Install the Rear Beam on the End Members.

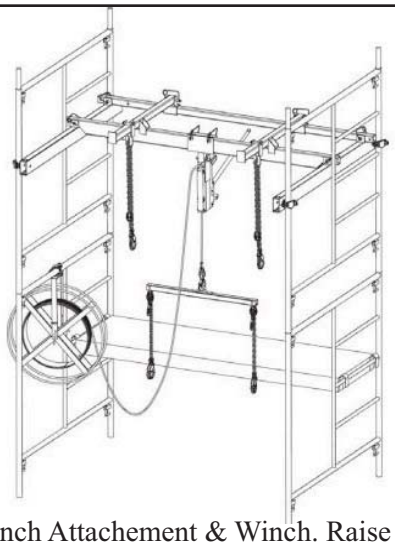
STEP 3

Install the Center Beam on the End Members.

STEP 4

Install the Booms.

STEP 5



Install Winch Attachement & Winch. Raise the chute.

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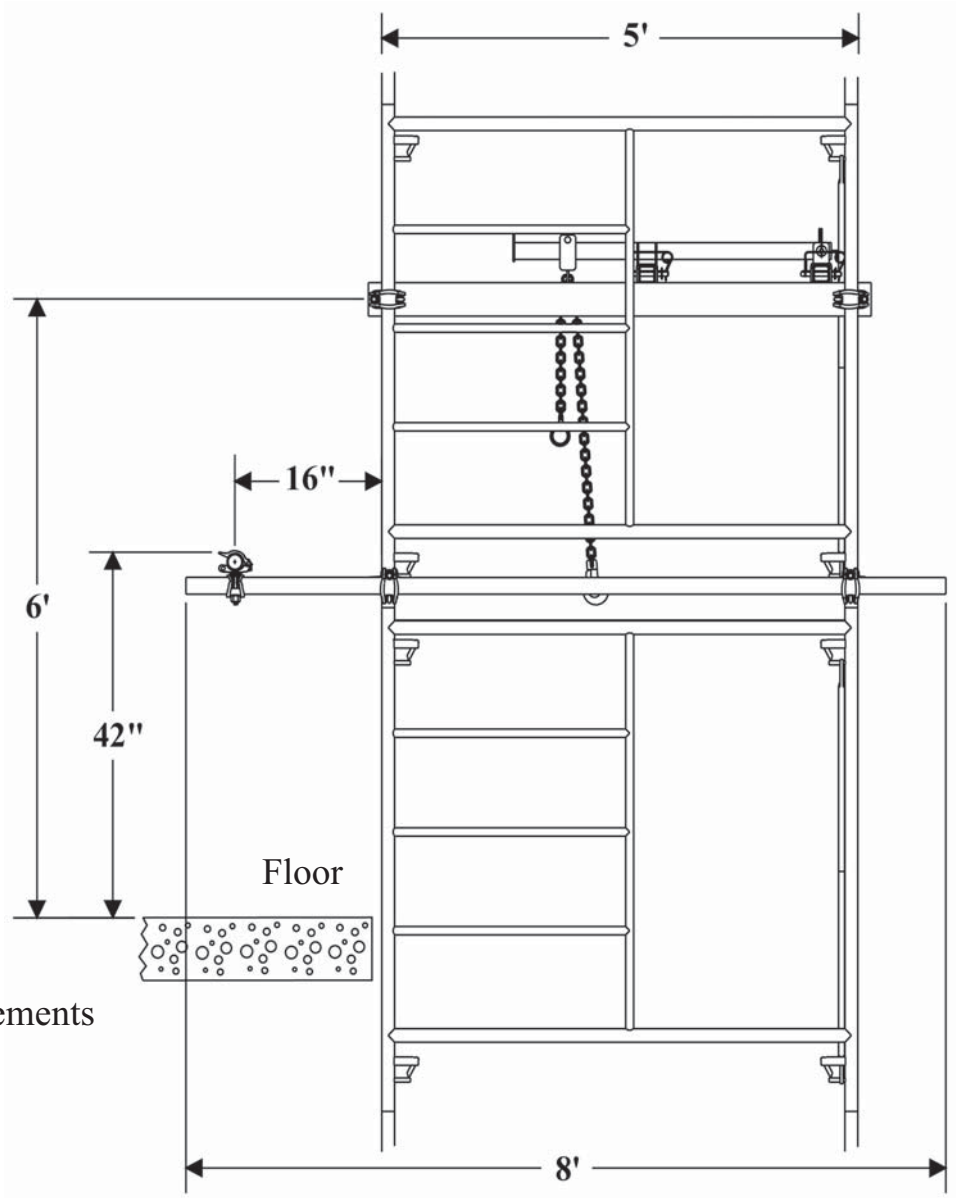
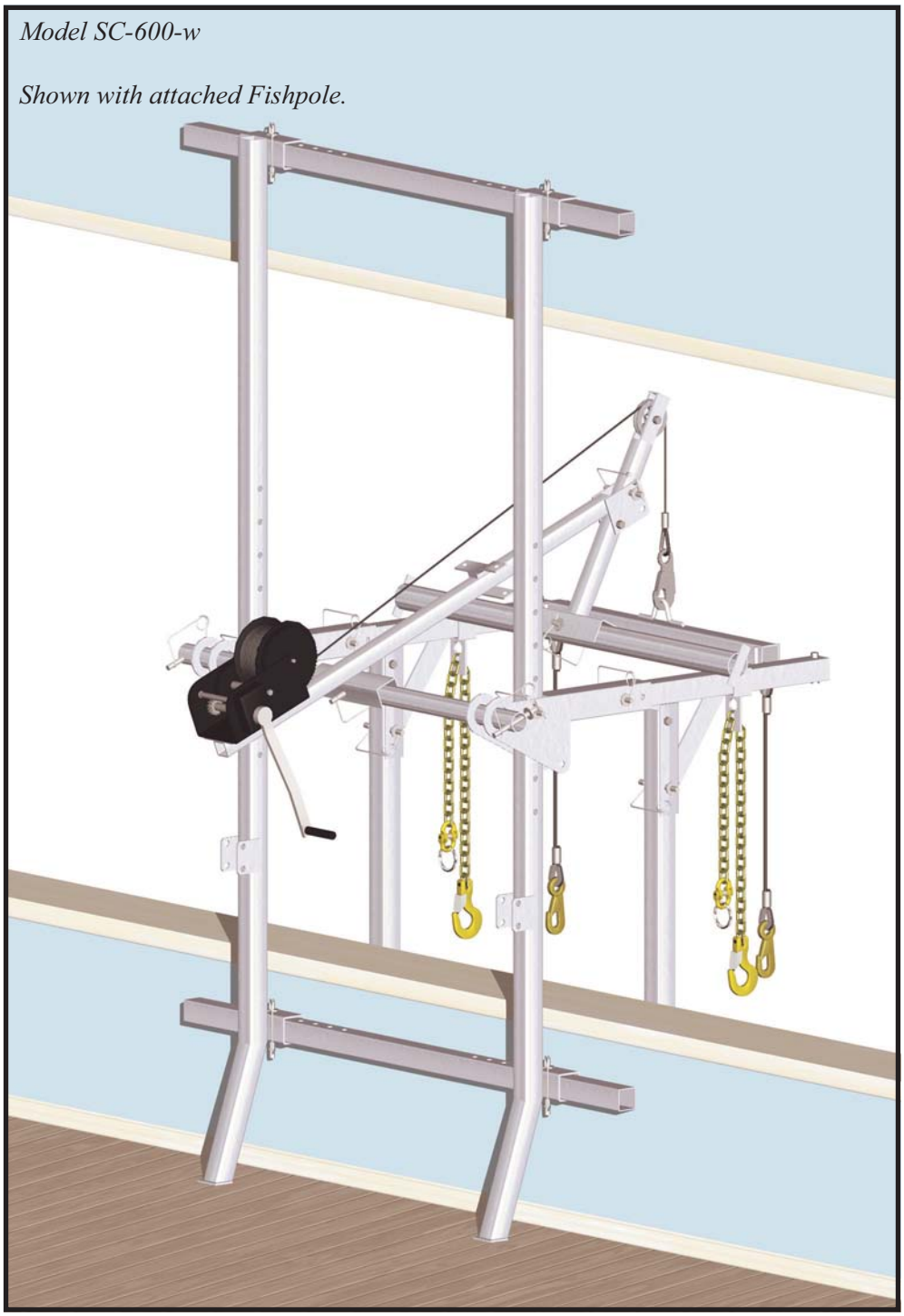
Safer and Simpler Chute Installation



Side View
with Installation Measurements



Model SC-600-w

Shown with attached Fishpole.

Loadspreaders

WARNING!

Always ensure adequate fall protection exists.

For ease of viewing, many of the enclosed sketches show chute hoists installed WITHOUT adequate surrounding fall protection.

Loadspreaders: SC-350-w & SC-600-w

The Superchute® Window Loadspreader is a simple chute hoist that mounts to the window of a structurally adequate wall.

The key advantage of this hoist design is its ability to safely support a chute load without the need for expansion bolts or counterweights.

Two models are available. These offer a maximum chute load capacity of 350 lb, or 600 lb. Both feature a 3:1 safety factor.

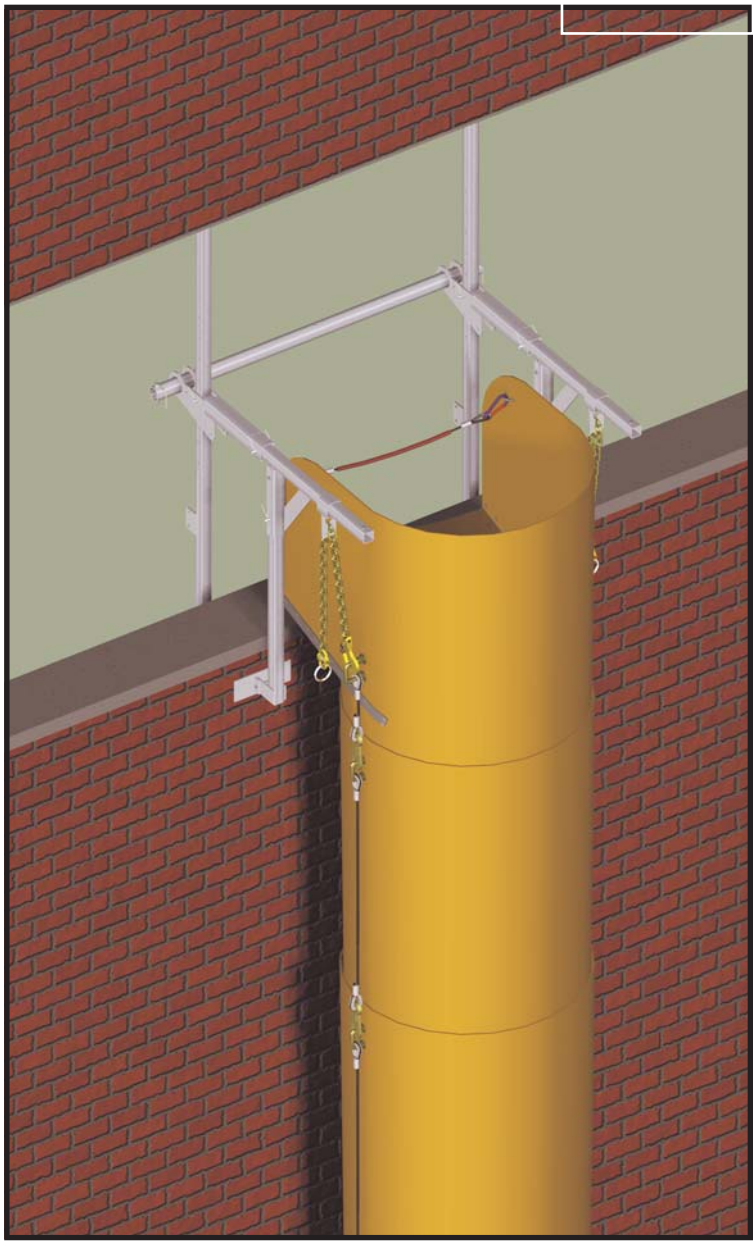
The length of chute that a Loadspreader can carry depends on the diameter of chute used (larger diameter chute sections weigh more).

Raise and lower the chute using a crane, boom lift, or the removable Fishpole.

The two Loadspreader models each have their own unique Fishpole. A single Fishpole can serve many frames of the same model.

The hoist ships and stores as 5 neat, compact bundles, and assembles in 10 minutes using a handful of locking pins (no tools needed).

Model SC-350-w

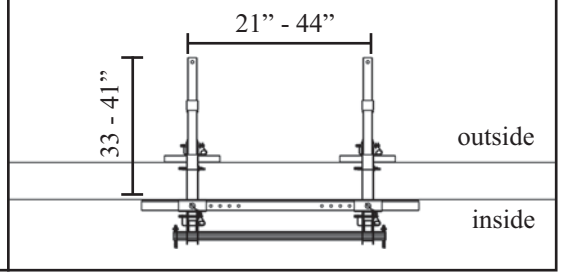


THE ADEQUACY OF THE SUPPORTING STRUCTURE MUST BE VERIFIED BY A STRUCTURAL ENGINEER

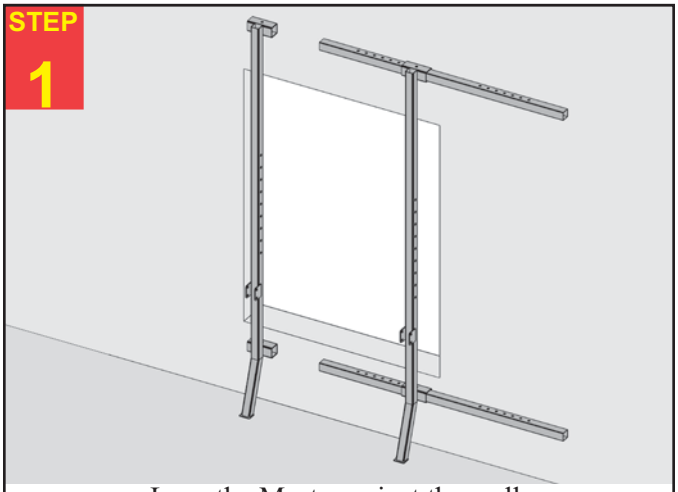
Dimensions:

SC-350-w Weight:	165 lb.
SC-600-w Weight:	235 lb.
Mast Height:	7’8” or 9’
Boom Reach:	41”
Max. Wall Thickness:	20”

Footprint (Top View)

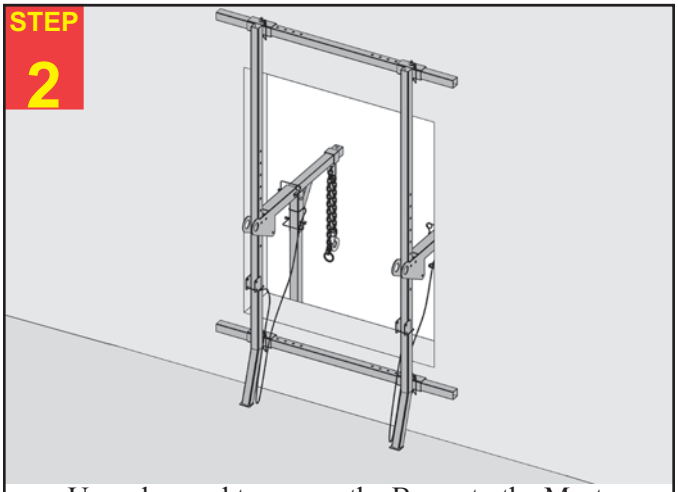


STEP 1



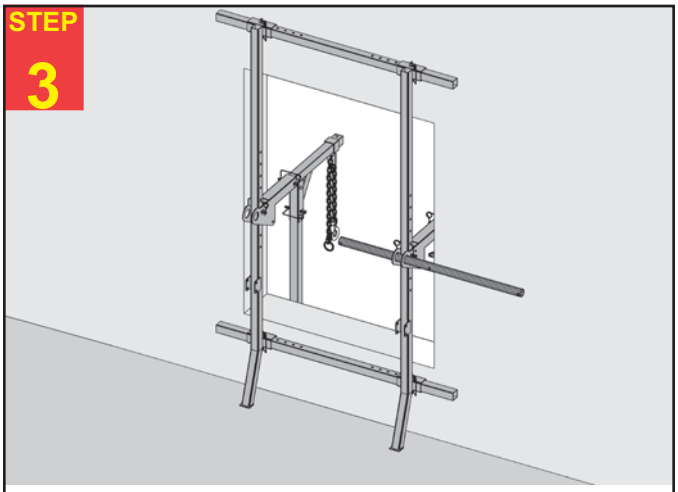
Lean the Masts against the wall.
Insert the Tie Bars.

STEP 2



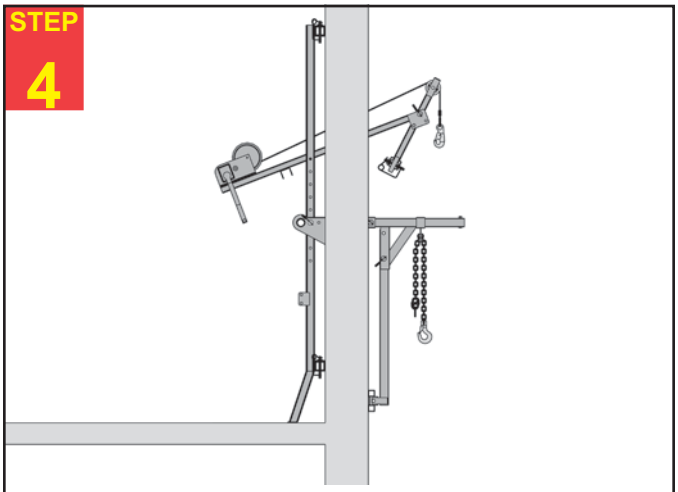
Use a lanyard to secure the Boom to the Mast.
Pass Boom through window & pin in position. Repeat.

STEP 3



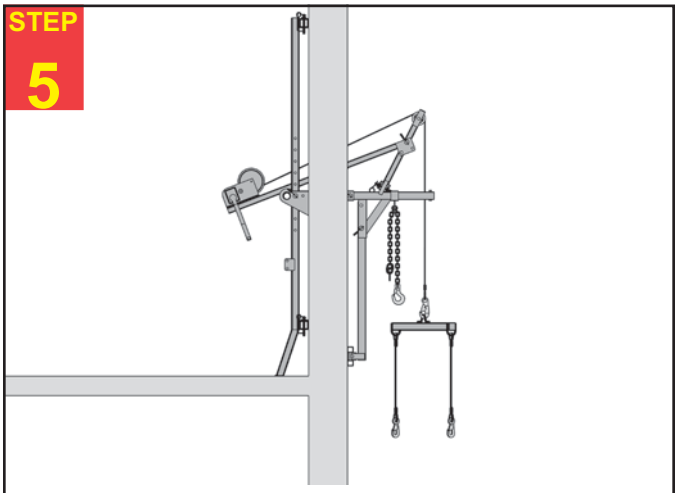
Insert the Inner Pipe.

STEP 4



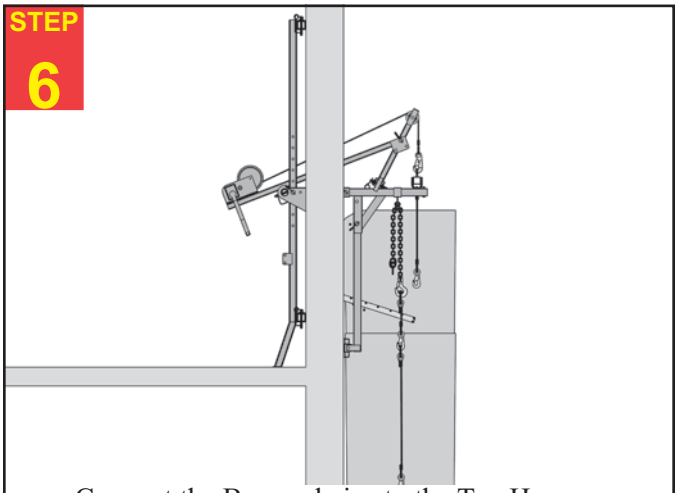
Install the Fishpole.

STEP 5



Lower the Spreader Bar. Raise the chute.

STEP 6



Connect the Boom chains to the Top Hopper.
Unclip Spreader Bar and remove the Fishpole.

WINDOW HOIST INSTALLATION HEIGHTS

SC-350-w

Diameter of Chute:	18"	23"	27"	30"	33"	36"
Max. number of chute sections:	14	11	9	8	7	7
Max. length of chute:	47 ft	37 ft	30 ft	27 ft	23 ft	23 ft

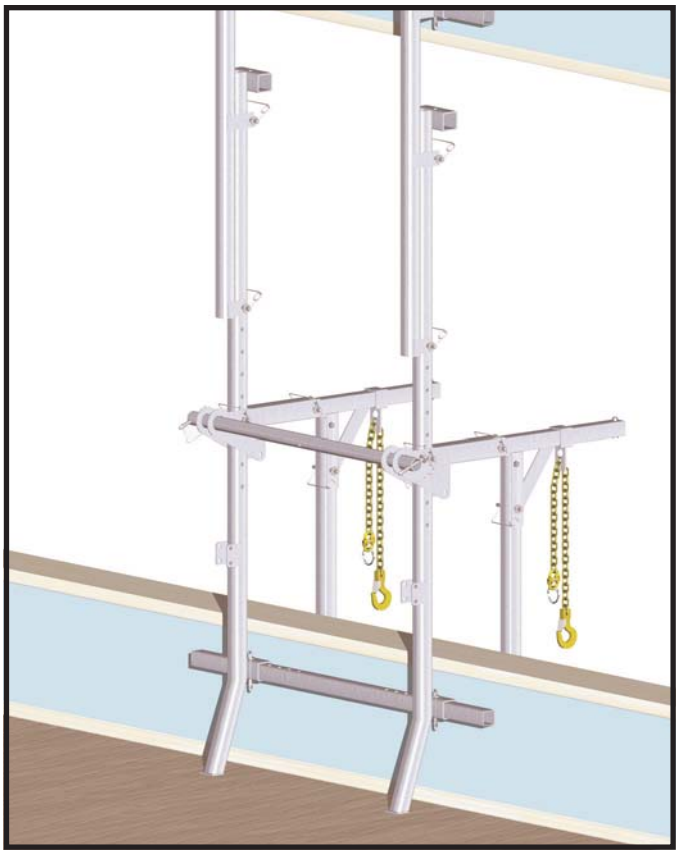
SC-600-w

Diameter of Chute:	18"	23"	27"	30"	33"	36"
Max. number of chute sections:	24	18	16	14	13	11
Max. length of chute:	80 ft	60 ft	53 ft	47 ft	43 ft	37 ft

WARNING! Height limits will be reduced if using steel liners.

THE MAST EXTENSIONS

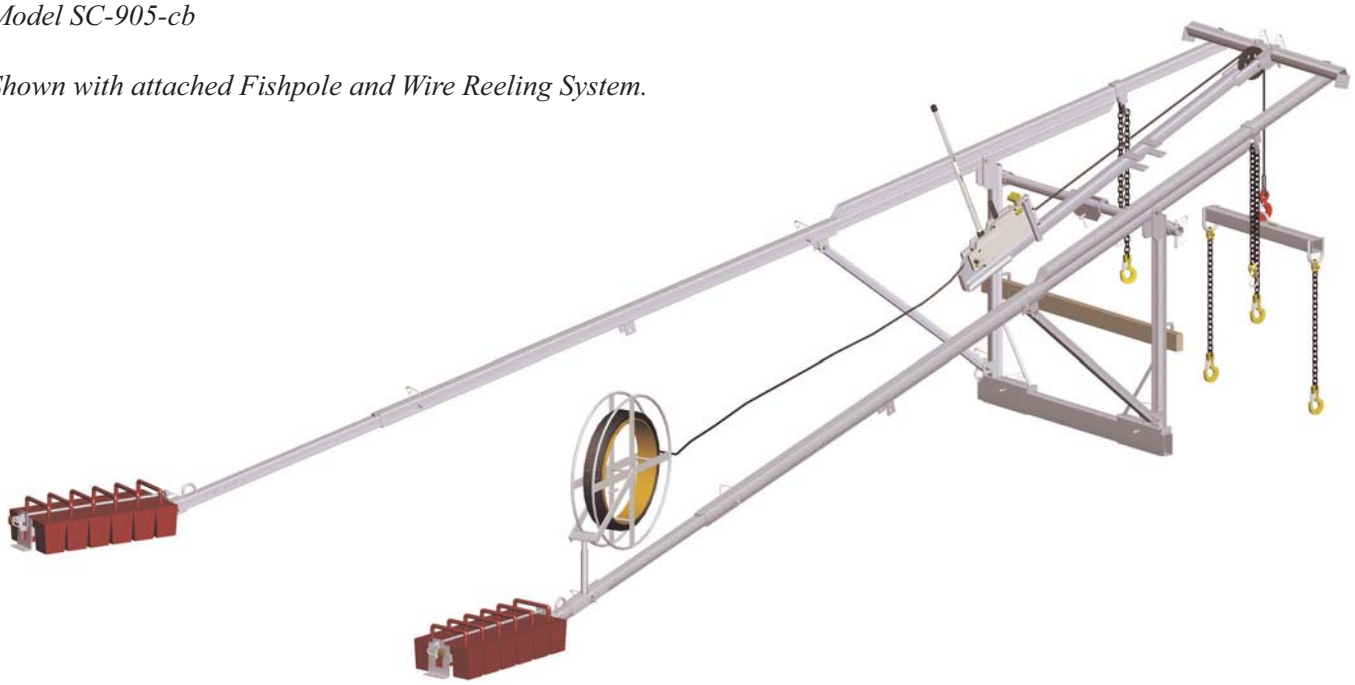
Only for use on 7’8” tall masts. For cases where the top of the window is too high, a mast extension kit is available. The kit increases the height of the 7’8” masts to 9’.



Model SC-600-w with mast extensions

Model SC-905-cb

Shown with attached Fishpole and Wire Reeling System.



Roofer Hoists

WARNING!

Always ensure adequate fall protection exists.
For ease of viewing, many of the enclosed sketches show chute hoists installed WITHOUT adequate surrounding fall protection.

Roofer Hoists: SC-300-cb, SC-605-cb, and SC-905-cb

The Superchute® Roofer Hoist is a counterweighted chute hoist that can be installed on flat roofs, floor slabs, and through window openings. Model SC-300-cb can also be safely installed on a roof with a slope of up to 5:12.

There are two advantages to this hoist design:

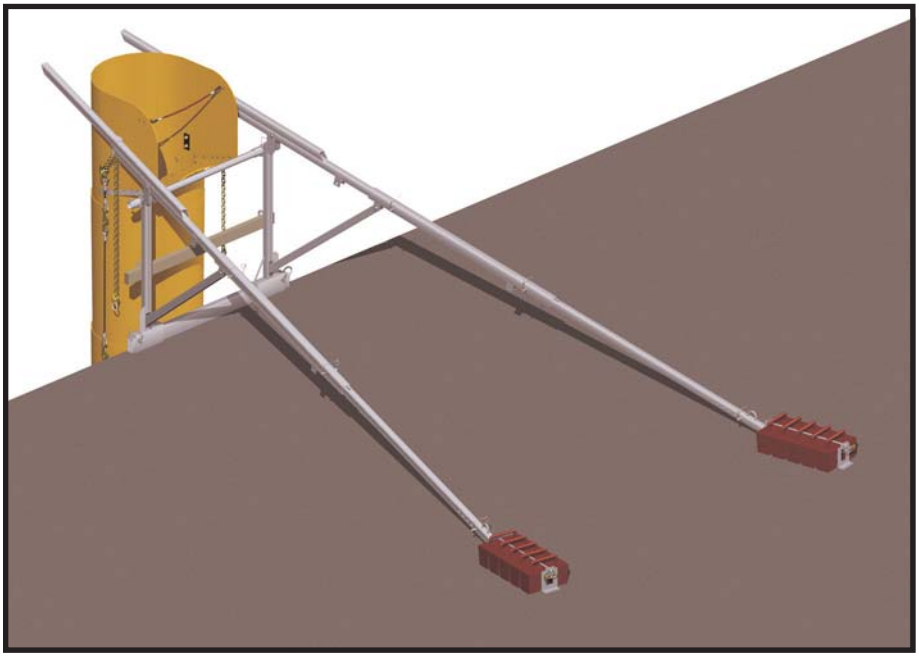
- The frame touches the roof deck in only 3 places, so tear-offs can proceed with the hoist in place.
- Towards the front of the hoist, the rising weight beams help safeguard against falls.

Three models are available. These offer a maximum chute load capacity of 300 lb, 600 lb, or 900 lb. All feature a 3:1 safety factor. The length of chute that a Roofer Hoist can carry depends on the diameter of chute used (larger diameter chute sections weigh more).

Raise and lower the chute using a crane, boom lift, or the removable Fishpole. The three Roofer Hoists each have their own unique Fishpole. A single Fishpole can serve many frames of the same model.

The assembly is quick (10 minutes), and requires only a handful of identical locking pins. No tools are needed. When not in use the entire frame is folded and stored as a few compact bundles.

Due to the loading imposed on the underlying deck, the SC-905-cb must only be installed on a concrete roof or floor slab.



Model SC-605-cb

WHEN PROPERLY USED, MEETS OSHA'S FALL PROTECTION REQUIREMENTS

THE ADEQUACY OF THE SUPPORTING STRUCTURE MUST BE VERIFIED BY A STRUCTURAL ENGINEER

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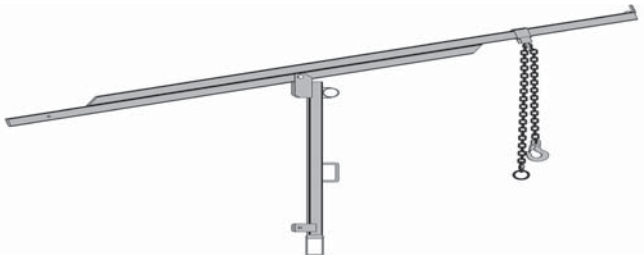
INSTALLATION OVERVIEW

SC-905-cb

STEP 1

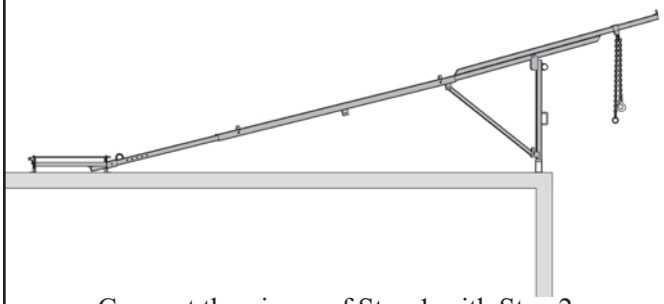
Join the Weight Beam and Connector Beam.
Extend the Cross Brace.

STEP 2



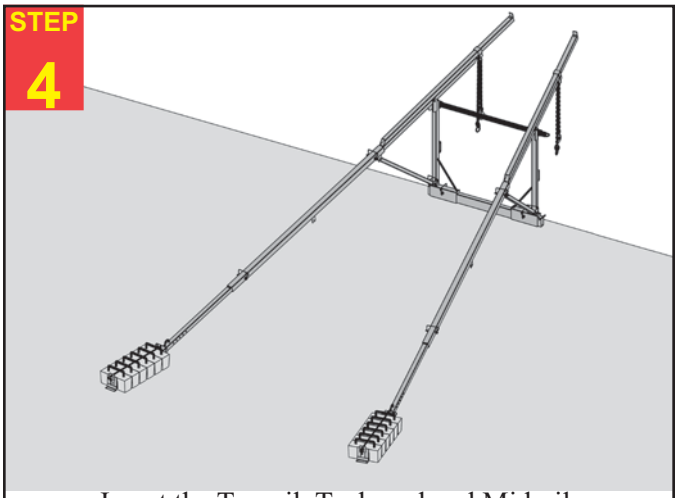
Open the Mast & Boom Packet.

STEP 3



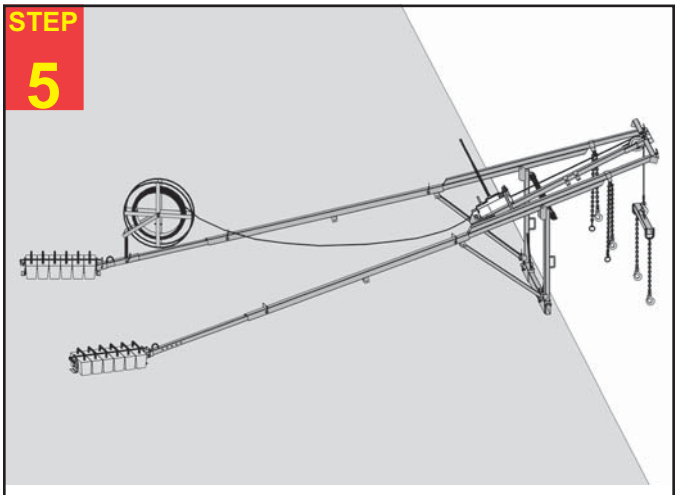
Connect the pieces of Step 1 with Step 2.
Repeat Steps 1 to 3 to build the opposite side.

STEP 4



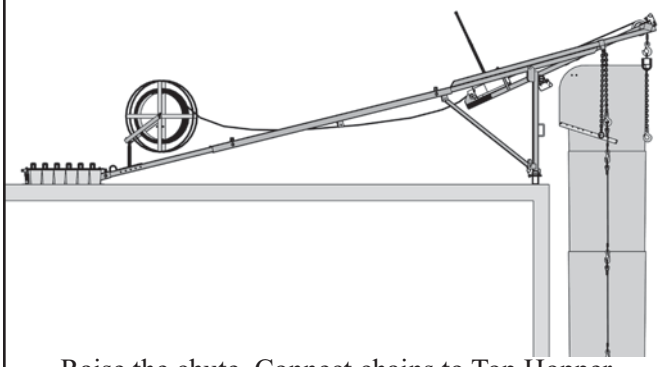
Insert the Toprail, Toeboard and Midrail.
Install and padlock the Counterweights.

STEP 5



Install the Fishpole and lower the Spreader Bar.

STEP 6



Raise the chute. Connect chains to Top Hopper.
Unclip Spreader Bar and remove Fishpole.

ROOFER HOIST INSTALLATION HEIGHTS

SC-300-cb

Diameter of Chute:	18"	23"	27"	30"	33"	36"
Max. number of chute sections:	12	9	8	7	6	6
Max. length of chute:	40 ft	30 ft	27 ft	23 ft	20 ft	20 ft

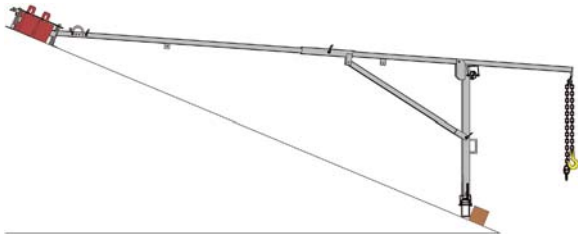
SC-650-cb

Diameter of Chute:	18"	23"	27"	30"	33"	36"
Max. number of chute sections:	24	18	16	14	13	11
Max. length of chute:	80 ft	60 ft	53 ft	47 ft	43 ft	37 ft

SC-905-cb

Diameter of Chute:	18"	23"	27"	30"	33"	36"
Max. number of chute sections:	36	27	24	21	19	17
Max. length of chute:	120 ft	90 ft	80 ft	70 ft	63 ft	57 ft

WARNING! Height limits will be reduced if using steel liners.



The SC-300-cb can be installed on a pitched roof with a maximum slope of 5:12.

DIMENSIONS OF THE ROOFER HOISTS

Model SC-300-cb

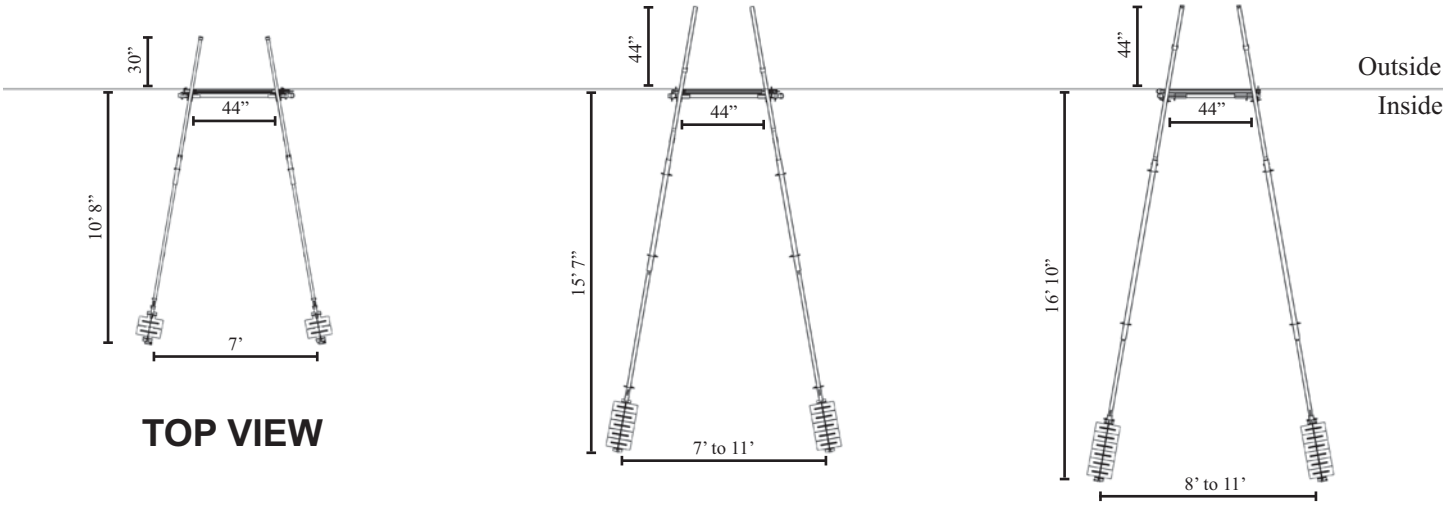
Total Weight: 235 lb. (excl. weights)
Counterweights: 4 needed (220 lb. total)
Mast Height: 46”

Model SC-605-cb

Total Weight: 380 lb. (excl. weights)
Counterweights: 10 needed (550 lb. total)
Mast Height: 46”

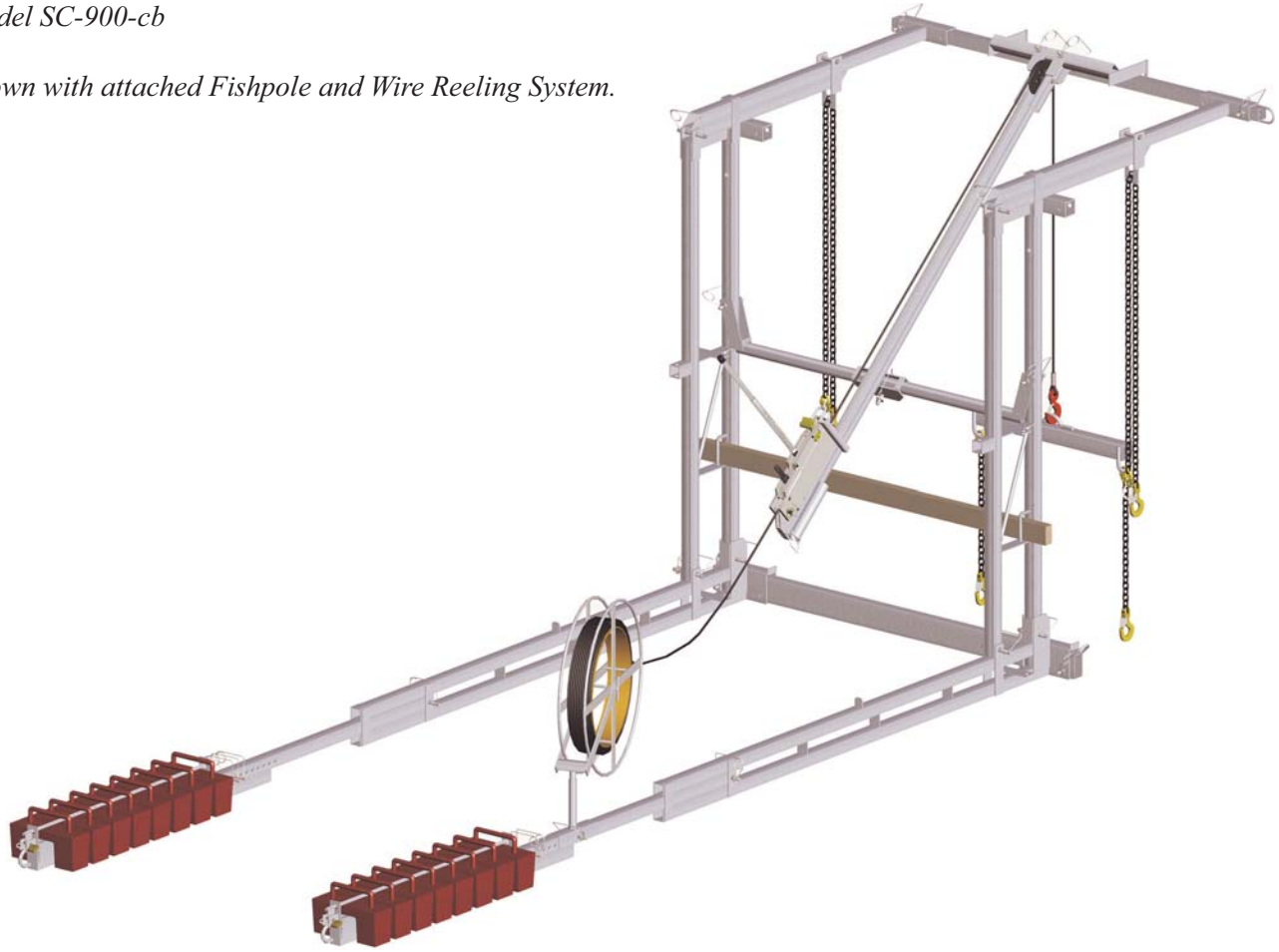
Model SC-905-cb

Total Weight: 500 lb. (excl. weights)
Counterweights: 12 needed (660 lb. total)
Mast Height: 46”



Model SC-900-cb

Shown with attached Fishpole and Wire Reeling System.



Hoisters

WARNING!

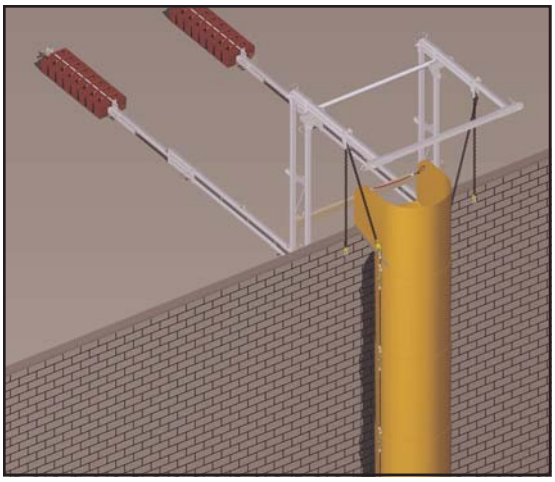
Always ensure adequate fall protection exists.
For ease of viewing, many of the enclosed sketches show chute hoists installed WITHOUT adequate surrounding fall protection.

The Hoisters: SC-610-cb, SC-900-cb, and SC-2000-cb

The Superchute® Hoister is a heavy-duty counterweighted chute hoist that can be installed on flat roofs, floor slabs, and through window openings. The advantage of this hoist design is its ability to work over tall roof parapets and window sills.

Three models are available. These offer a maximum chute load capacity of 600 lb, 900 lb, or 1700 lb. All feature a 3:1 safety factor. The length of chute that a Hoister can carry depends on the diameter of chute used (larger diameter chute sections weigh more).

Model SC-900-cb



Raise and lower the chute using a crane, boom lift, or the removable Fishpole. The three Hoisters each have their own unique Fishpole. A single Fishpole can serve many frames of the same model.

A Hoister consists of a dozen compact pieces, all of which are small enough to fit in an elevator car. The assembly is quick (10 minutes), and requires only a handful of identical locking pins. No tools are needed.

For added fall protection, OSHA compliant guardrails & gates are available for all three Hoisters.

Due to the loading imposed on the underlying deck, the SC-900-cb & SC-2000-cb must only be installed on concrete floor slabs.

THE ADEQUACY OF THE SUPPORTING STRUCTURE MUST BE VERIFIED BY A STRUCTURAL ENGINEER

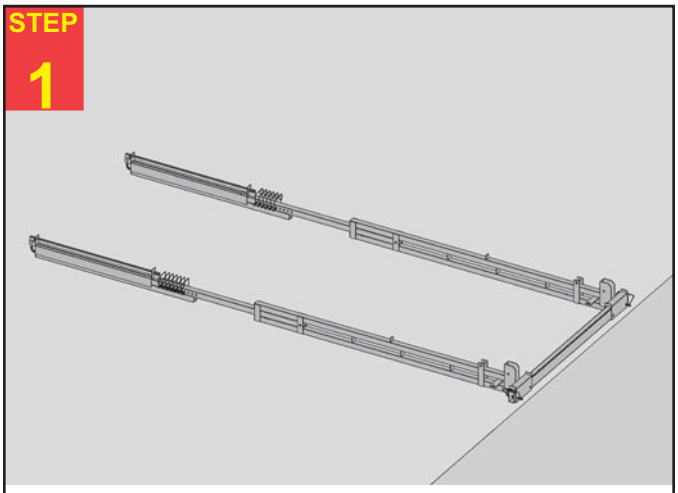
WHEN PROPERLY USED, MEETS OSHA'S FALL PROTECTION REQUIREMENTS

U.S. Pat. 5,934,437

Courtesy of Mike Radosti, United Rentals, Baton Rouge, LA

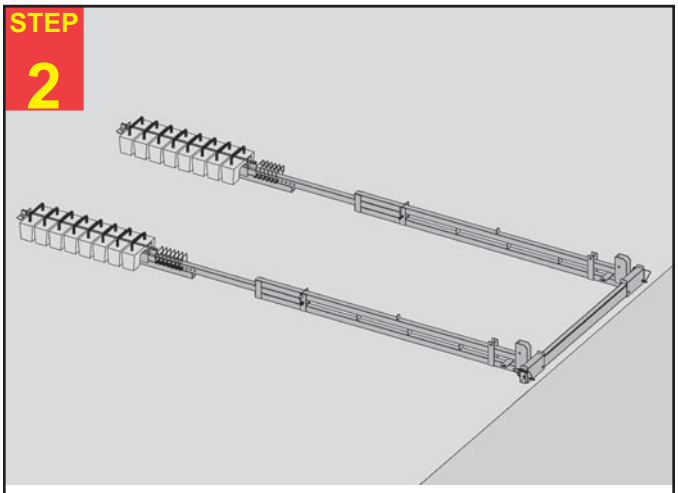
Model SC-610-cb

STEP 1



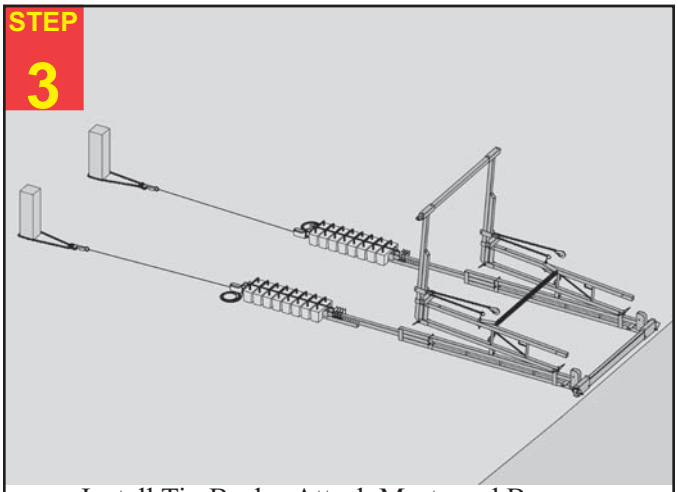
Set-up the three sided base frame.

STEP 2



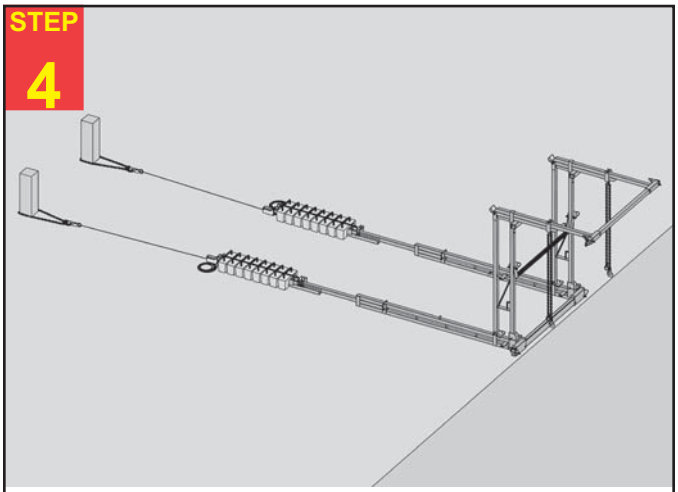
Install and padlock the Counterweights.

STEP 3



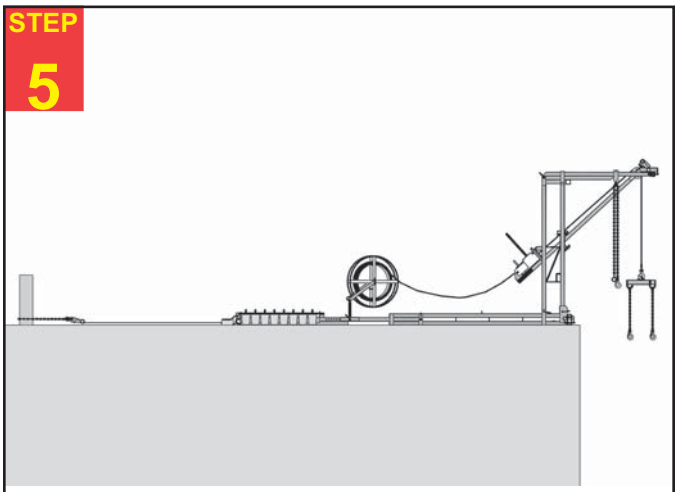
Install Tie-Backs. Attach Masts and Booms.
Insert the Toprail, Midrail, and Outer Cross Bar.

STEP 4



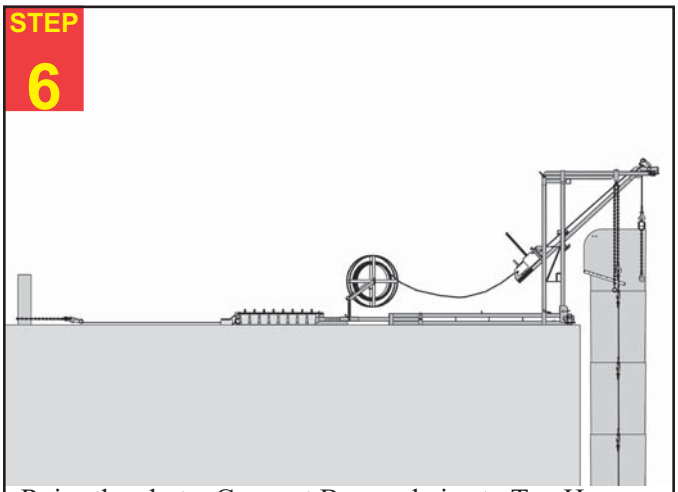
Use 3 men to raise the Masts to the vertical position.

STEP 5



Install the Fishpole and lower the Spreader Bar.

STEP 6



Raise the chute. Connect Boom chains to Top Hopper.
Unclip Spreader Bar and remove Fishpole.

HOISTER INSTALLATION HEIGHTS

SC-610-cb

Diameter of Chute:	18"	23"	27"	30"	33"	36"
Max. number of chute sections:	24	18	16	14	13	11
Max. length of chute:	80 ft	60 ft	53 ft	47 ft	43 ft	37 ft

SC-900-cb

Diameter of Chute:	18"	23"	27"	30"	33"	36"
Max. number of chute sections:	36	27	24	21	19	17
Max. length of chute:	120 ft	90 ft	80 ft	70 ft	63 ft	57 ft

SC-2000-cb

Diameter of Chute:	18"	23"	27"	30"	33"	36"
Max. number of chute sections:	60	51	45	40	36	33
Max. length of chute:	200 ft	190 ft	150 ft	133 ft	120 ft	110 ft

This hoist's maximum capacity is 1700 lb. or 200 ft. (whichever is reached first) to account for wind & dynamic loading effects on the chute.

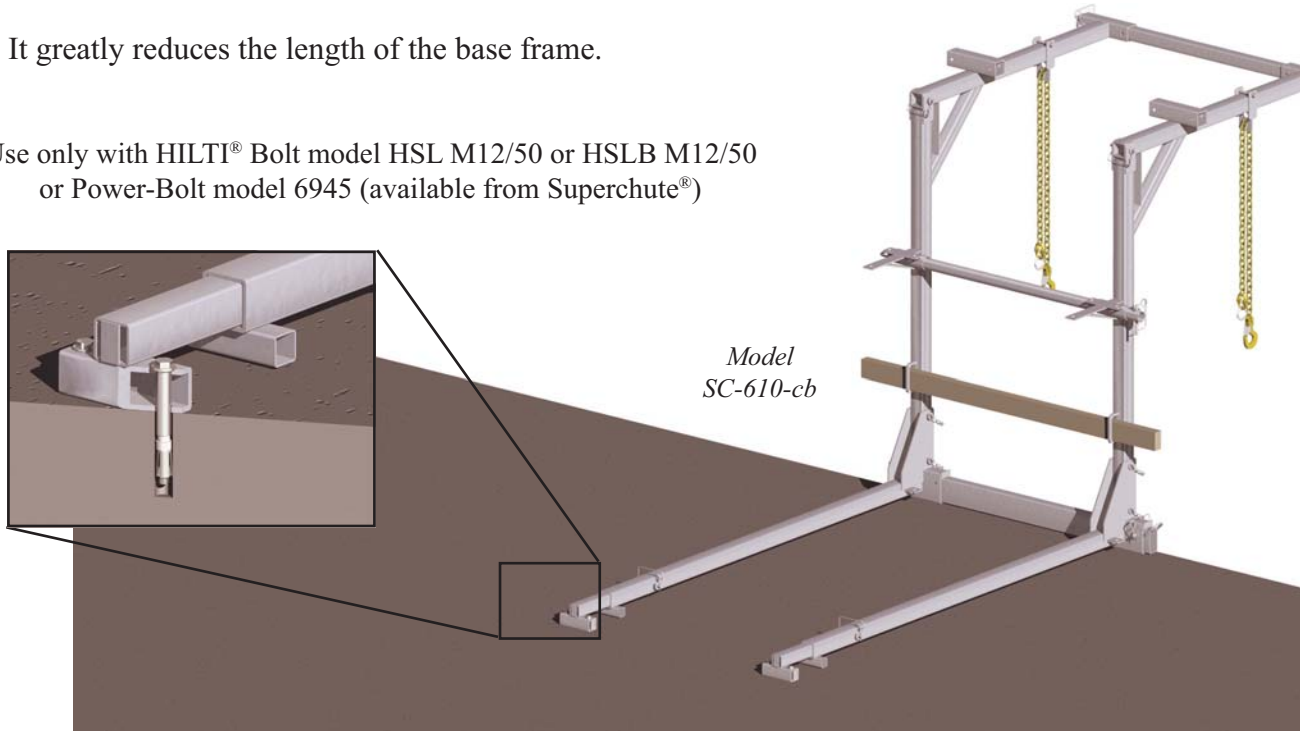
WARNING! Height limits will be reduced if using steel liners.

NEW! THE BOLT DOWN CONVERSION KIT

In cases where the concrete floor can accomodate expansion anchors, the frame may be secured using a Bolt Down Conversion Kit. The advantages of the kit are:

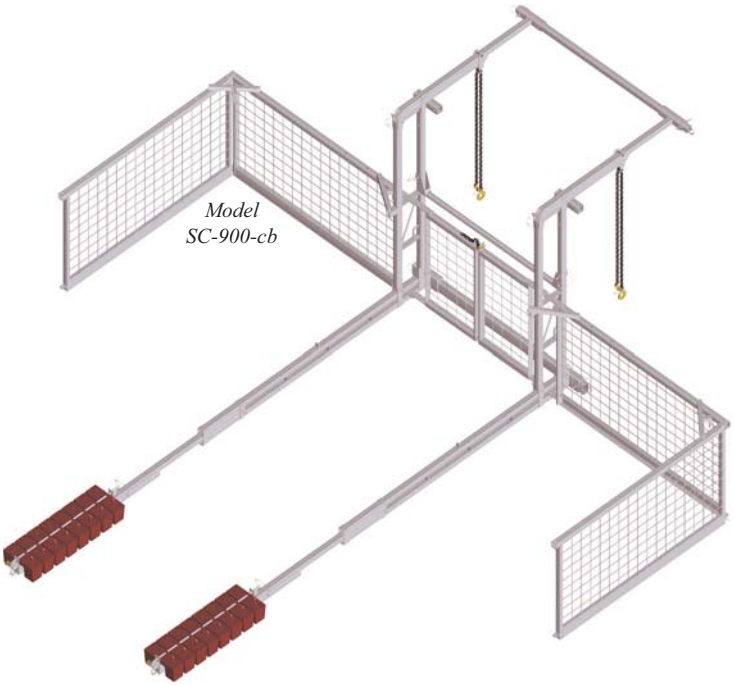
- It saves a lot of weight since it replaces the Back Balance Beams and Counterweights.
- It greatly reduces the length of the base frame.

Use only with HILTI® Bolt model HSL M12/50 or HSLB M12/50 or Power-Bolt model 6945 (available from Superchute®)

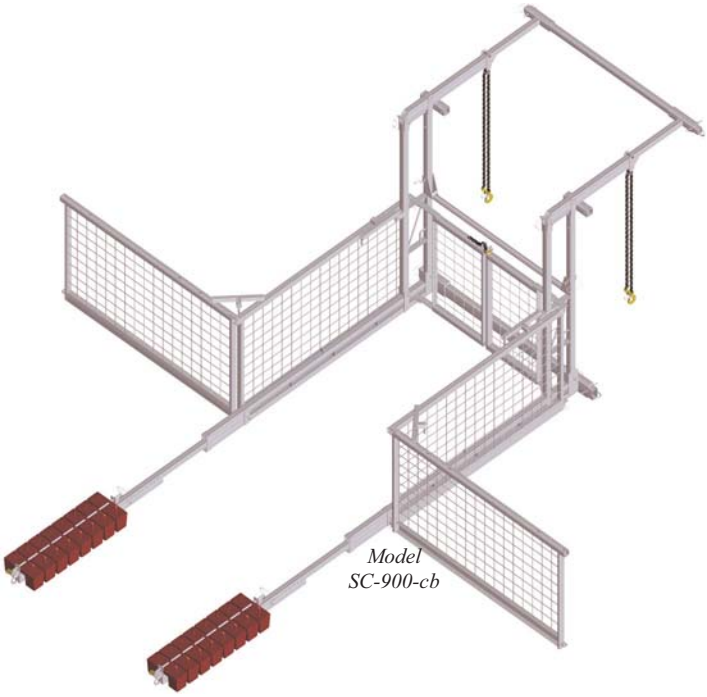


Model SC-610-cb

GATES AND GUARDRAILS

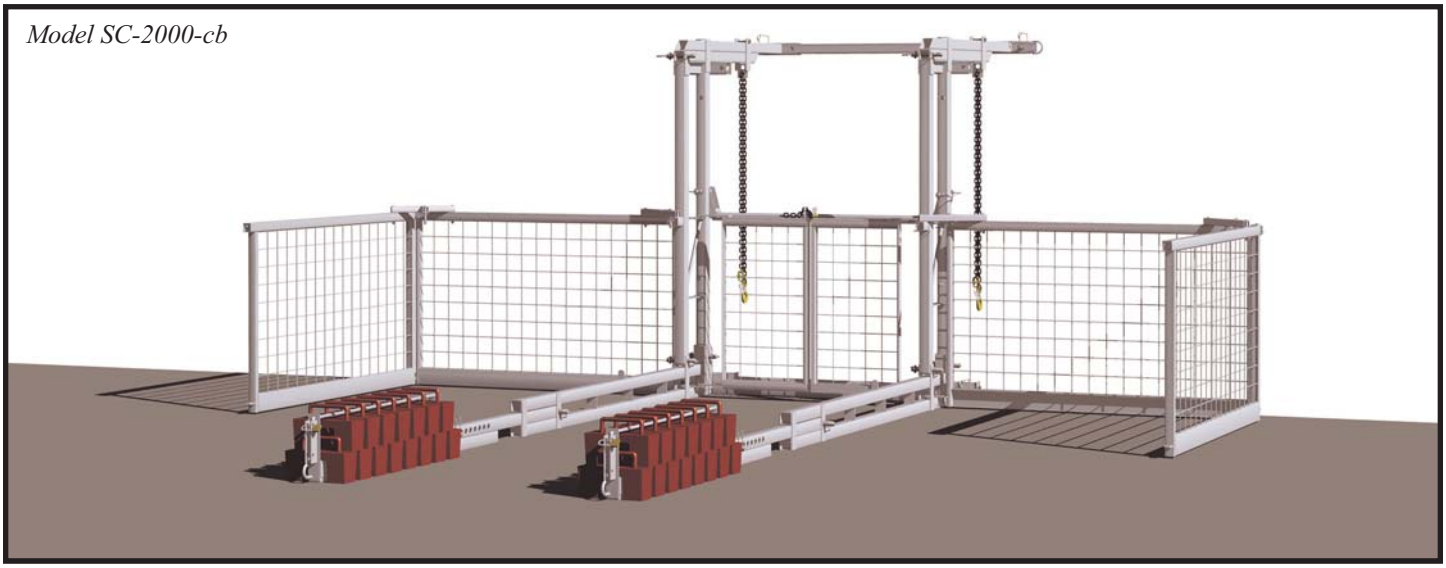


To prevent falls, gates and guardrails can be installed. Gates mount between the masts and can be used to control access to the chute. Guardrails mount outside the masts and are secured with Lockbraces.



Various guardrail configurations are possible:

- the open box configuration (above and below)
- the channeled corridor configuration (right)



DIMENSIONS OF THE HOISTERS

Model SC-610-cb

Total Weight: 430 lb. (excl. weights)
Counterweights: 12 needed (660 lb. total)
Mast Height: 5’ 9”

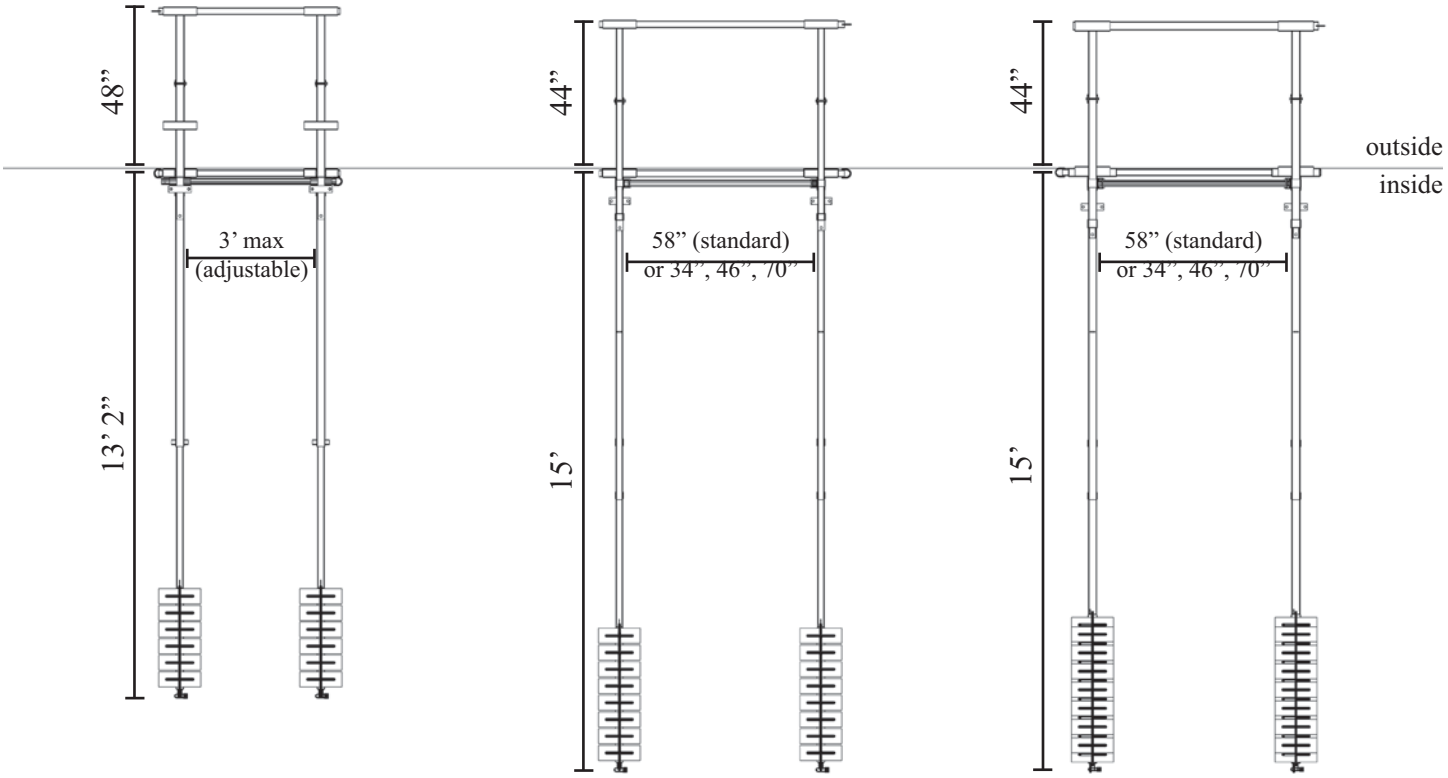
Model SC-900-cb

Total Weight: 580 lb. (excl. weights)
Counterweights: 16 needed (880 lb. total)
Mast Height: 7’

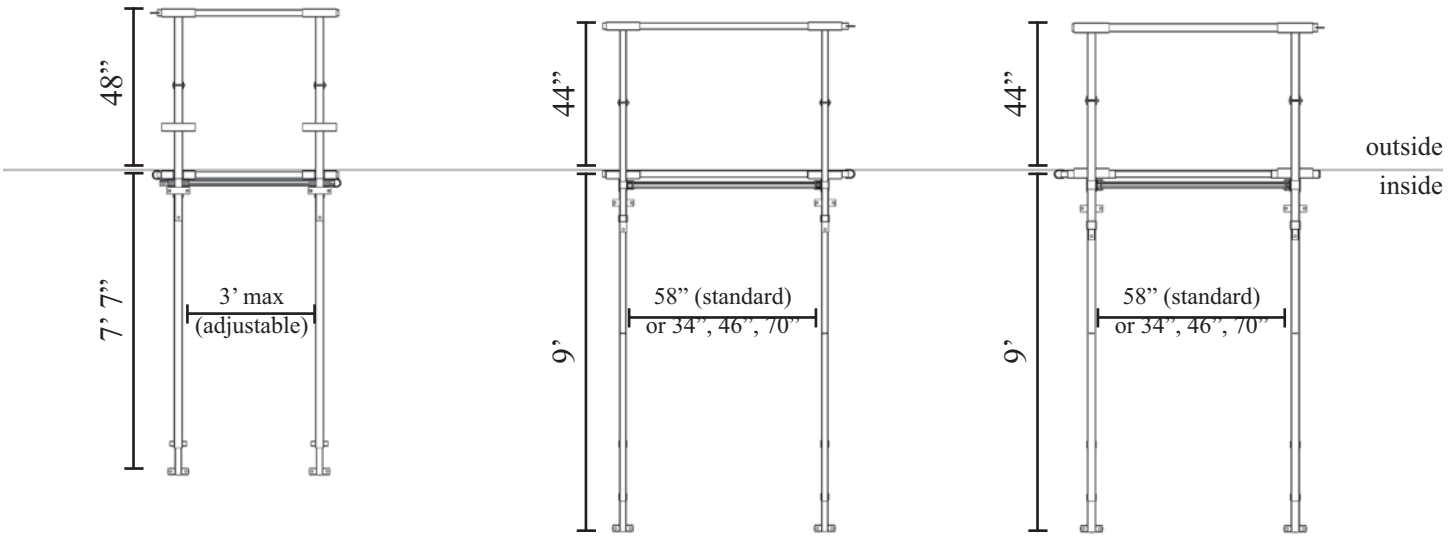
Model SC-2000-cb

Total Weight: 845 lb. (excl. weights)
Counterweights: 30 needed (1650 lb. total)
Mast Height: 7’

Secured using Counterweights (Top view)



Secured using Expansion Anchor Bolts (Top View)



CHUTE HOIST OVERVIEW

Safer, quicker and easier chute installations can be achieved using Superchute® Chute Hoists. Designed by engineers, Chute Hoists overcome the two main challenges facing chute installers:

1) Hoisting the chute
2) Anchoring the chute to the building

15 Models Available – Only from Superchute®

	design	model	installation
1.	Bolt Down Frame	SC-250-bd	Window / Flat Roof / Concrete Floor Slab
2.	Bolt Down Frame	SC-500-bd	Window / Flat Roof / Concrete Floor Slab
3.	Bolt Down Frame	SC-750-bd	Window / Flat Roof / Concrete Floor Slab
4.	Bolt Down Frame	SC-1000-bd	Window / Flat Roof / Concrete Floor Slab
5.	Bolt Down Frame	SC-1500-bd	Window / Flat Roof / Concrete Floor Slab
6.	Scaffold Hoist	SC-900-s	Scaffold Tower
7.	Scaffold Hoist	SC-2000-s	Scaffold Tower
8.	Loadspreader	SC-350-w	Window
9.	Loadspreader	SC-600-w	Window
10.	Roofer Hoist	SC-300-cb	Window / Pitched or Flat Roof / Floor Slab
11.	Roofer Hoist	SC-605-cb	Window / Flat Roof / Floor Slab
12.	Roofer Hoist	SC-905-cb	Window / Flat Roof / Floor Slab
13.	Hoister	SC-610-cb	Window / Flat Roof / Concrete Floor Slab
14.	Hoister	SC-900-cb	Window / Flat Roof / Concrete Floor Slab
15.	Hoister	SC-2000-cb	Window / Flat Roof / Concrete Floor Slab

Understanding the Descriptive Name

"bd" - the hoist is Bolted Down to a concrete slab.
"s" - the hoist is for Scaffold use only.
"w" - the hoist is for Window use only.
"cb" - the hoist is Counterbalanced with weights.

Bolt Down Frame SC-500-bd

Design Name

"SC" indicates that this is a Superchute® product.

The maximum chute load that can be applied, in pounds, to the Frame and Fishpole. Also known as the Working Load Limit. For example, "500" means it can safely raise, support and lower 500 pounds of chute.

Using A Crane With A Chute Hoist

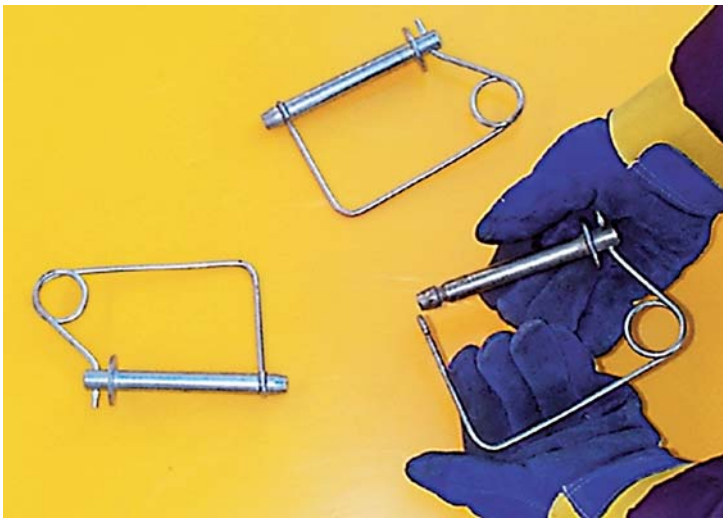
All of our chute hoists are designed to work with a crane or boom lift. If you always have a crane on site, you can forego the purchase of the Fishpole (the removable Fishpole is used to raise and lower the chute).

Counterweighted Hoists

All counterweighted hoists use industry standard 55 lb. cast iron painted weights.

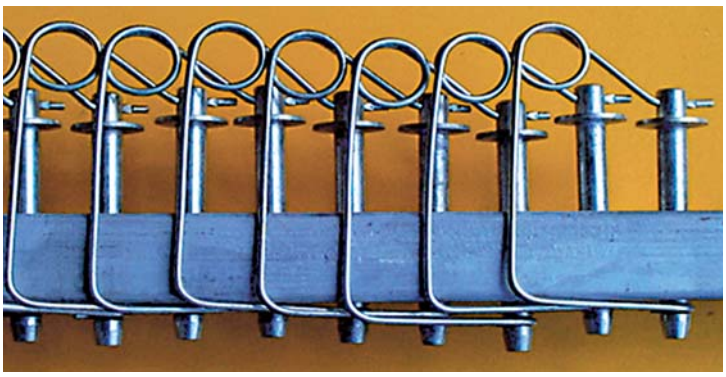
HOIST COUNTERWEIGHT

CHUTE HOISTS: NEAT FEATURES



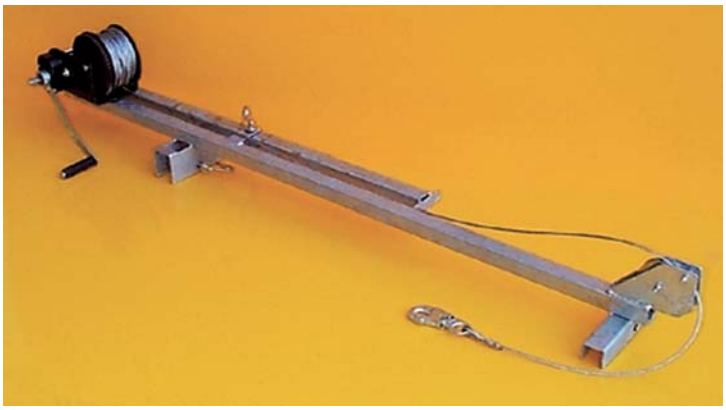
LOCKING PINS

You won't waste any time setting up your hoist. No tools required! These pins are all that you need!



PIN RACKS

The Roofer & Hoister models feature built-in pin racks to prevent pin loss and hole spare pins. Glance at the rack before taking your hoist to the job! The Bolt Down & Loadspreader models don't have pin racks. Instead, the pins are used to store unassembled hoists as compact packets.



THE FISHPOLE

All Superchute® hoists feature a Fishpole for raising & lowering the chute. The Fishpole is removed after the chute is attached to the hoist frame. Therefore a single Fishpole can be used to install chutes on many hoist frames (the frames must all be of the same model).

Traction winch that accompanies the SC-2000-cb Fishpole

WINCHES

Every Fishpole is equipped with a manual winch. Our manual winches easily manage the rated chute load and provide the proper speed for chute installation. Manual winches require no external power source, only your arm-power!

We use 2 winch designs: Traction winches are used on hoists that require 750 lb. of lifting capacity, or greater. Drum winches are used on hoists that require less than 750 lb. of lifting capacity.

TIE-BACK KITS FOR CHUTE HOISTS

Superchute® Hoists that will be secured with counterweights must also be tied-back to anchors. Tie-backs will prevent a hoist from being pulled over the edge in the event of a major chute blockage. The weight beams of all Chute Hoists feature built-in Tie-Back Loops for this purpose: Use the loops to secure the hoist to an anchorage.

The Superchute® Tie-Back Kit offers easy installation and adjustment. A single properly installed kit can withstand up to 5000 lb. of pull. Consists of 100 ft. of galvanized $^{5}/_{16}$" cable, a cable grabber, and a forged clip with a locking gate. The 2 weight beams of a hoist each require their own kit. The kit can be used with Chain Slings & Concrete Anchors (below). Use the Kit to secure Superchute® hoists - Do NOT use to secure chutes or people.

Lever-Action Cable Grabber

- *Kit attaches easily to the weight beams of all Superchute® Hoists.*
- *When the Grabber's lever is raised, the cable can run freely through it.*
- *Drop the lever and the cable locks in place.*
- *In this way, workers can obtain snug tie-backs instantly.*

A structural engineer must verify the adequacy of the anchorage that secures the Tie-Back Kit.

CHAIN SLINGS

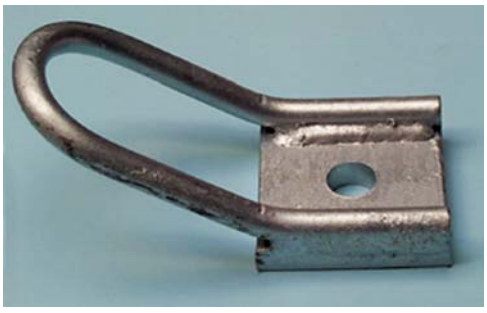
Use Chain Slings to secure tie-backs to structurally adequate members of a building. Consists of 10 feet of Grade 80 chain, the ends of which are equipped with clip-in rings. Use Chain Slings to secure Superchute® hoists & chutes - Do NOT use to secure people.

Working Load Limit: 1000 lb. (450 kg)
Breaking Strain: 10000 lb. (4500 kg)

A structural engineer must verify the adequacy of the chosen anchor point.

CONCRETE ANCHORS

Use Superchute® Concrete Anchors to secure tie-backs. Attach the anchor to a concrete floor slab using an expansion bolt. Ideally suited for securing the Tie-Back Kit (above). Use Concrete Anchors to secure Superchute® hoists & chutes - Do NOT use to secure people.



Working Load Limit: 1000 lb. (450 kg)
Breaking Strain: 5000 lb. (2250 kg)

Galvanized steel construction. A structural engineer must verify the adequacy of the chosen anchor point.
Use only with HILTI® Bolt model HSL M12/25 or HSLB M12/25 or Power-Bolt model 6942 (available from Superchute®)