

Title of Training	CHAIN FALL SAFETY TRAINING		
Equipment Info.	Make/Type/Size/Model	CROSBY CHAIN FALLS	
Material Needed	Operators Manual		
	Designated area to safely use Chain Falls for assigned tasks.		

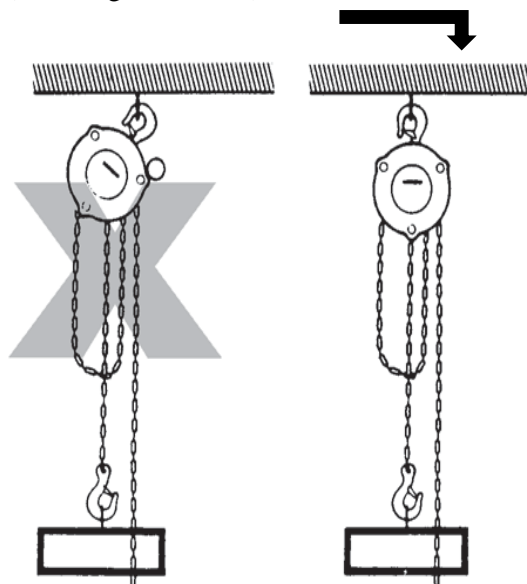
CHAIN HOIST

CHAIN HOISTS

Chain hoists are useful because the load can be stopped and kept stationary at any point. Because of their slow rate of travel, chain hoists also allow precise vertical placement.

Chain hoists should be rigged so that there is a straight line between the upper and lower hooks.

They are intended for use in a vertical or near vertical position only. If rigged at an angle, the upper hook can be damaged at the shank and the throat may open up. If the gear housing is resting against an object while under load it can be damaged or broken. (See Diagram Below)



Always make sure that the hoist is hanging freely

Before using the hoist, inspect the chain for nicks, gouges, twists, and wear. Check the chain guide for wear. Hooks should be measured for signs of opening up. Ensure that the hooks swivel freely and are equipped with safety catches. If the hoist has been subjected to shock loads or dropped, it should be inspected thoroughly before being put back in service. Check the load brake by raising the load a couple of inches off the ground and watching for creep.

If the hoist chain requires replacement, follow the manufacturer's recommendations. Different Manufacturer's use different pitches for their load chain. Chain intended for one brand of hoist will not mesh properly with the lift wheel of another brand and the hoist

will not operate properly, if at all.

The load chain on chain hoists is case-hardened to reduce surface wear and is unsuitable for any other use. Load chain will stretch 3% before failing, whereas Grade 8 alloy chain will stretch at least 15%. Load chains are too brittle for any other application. Any load chain removed from a hoist should be destroyed by cutting it into short pieces. Never try to repair a load chain yourself. Welding will destroy the heat treatment of the chain entirely.

INSPECTION

Minimum Inspection Requirements for Brieser when using Hand Chain Operated Hoists and Come-Along.

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Instructor Name		Date of Training	
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PERFORM the following pre-use inspections: (Use Attachment No: 2-Brieser SH&E Manual)

- ✓ **VERIFY** Portable hoist annual inspection current prior to use
- ✓ Functionally **TEST** controls and operating mechanisms for proper operation in hoisting and lowering directions.
- ✓ **CHECK** all load bearing components for apparent damage.
- ✓ Visually **INSPECT** load chain for the following:
 - Stretch
 - Wear
 - Twists
 - Broken or damaged links
- ✓ Visually **INSPECT** general rigging hardware in accordance with Attachment 6.
- ✓ **CHECK** load chain for proper operation of chain and sprockets with special focus on the travel area of the chain.
- ✓ If any abnormal conditions / defects are found, then **CONTACT** the Brieser Equipment Manager for resolution prior to utilizing the equipment.



HANDS ON EVALUATION EXERCISE

Have users follow pre-operation inspection and preparation procedures to identify potential problems, reduce the chances of accidents, and enhance the safety of their work environment. OSHA 1910.179(j)(2) defines the activities performed for frequent inspections (daily). The five components of this inspection are:

Have Student Perform Pre-Operational Checks

- All function operating mechanisms for maladjustment or excessive wear
- Air or hydraulic systems for deterioration or leakage
- Hooks for deformation or cracks
- Hoist chains for excessive wear, twisting, distorted or stretched links
- Rope reeving for noncompliance with manufacturers' recommendations

Important Notice

This Safety Training Topic (STT) does not necessarily cover all possible hazards associated with this equipment and should be used in conjunction with equipment manual. It is designed as a guide to be used to compliment training in the field at Brieser Construction and as a reminder to users prior to equipment use

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EMPLOYEE NAME (Print or Type)	EMPLOYEE SIGNATURE	TRADE	JOB TITLE
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