

Rigging Hardware Inspection/Removal Criteria

Rigging hardware must be removed from service if damage such as the following is visible and must only be returned to service when approved by a qualified person.

- a) missing or illegible manufacturer's name or trademark and /or rated load identification.**
- b) indications of heat damage including weld spatter or arc strikes.**
- c) excessive pitting or corrosion.**
- d) bent, twisted, distorted, stretched, elongated, cracked or broken load-bearing components.**
- e) excessive nicks of gouges.**
- f) A 10% reduction of the original or catalog dimension at any point around the body or pins.**
- g) incomplete thread engagement.**
- h) excessive thread damage.**
- i) evidence of unauthorized modifications.**
- j) other conditions, including visible damage that cause doubt as to the continued use of the equipment.**
- k) for swivel hoist rings, lack of the ability to freely rotate or pivot.**
- l) for swivels, loose or missing nuts, bolts, cotter pins, snap rings or other fasteners and retaining devices.**

Also with the use of Compression Hardware (wire rope clamps) the following must be considered.

- a) insufficient number of wire rope clips.**
- b) improperly tightened wire rope clips.**
- c) indications of damaged wire rope.**
- d) indications of slippage of wire rope.**

Currently Recognized H&R Equipment Manufacturer Markings

Armstrong Co (eyebolts):



Brewer-Tichner Co:

BTC

Campbell Chain Co (formerly California Chain):

Campbell, CCA, ☆C

Columbus McKinnon/Midland Forge:

CM,

The Crosby Group:

Crosby, CL, Crosby-Laughlin, CG

Chicago Hardware and Fixture Co.:

Chicago, CHF,

Dekalb Forge Co. / Rockford Drop Forge:

DFC,

Edward W. Daniel Co.:



Gunnebo-Johnson:

Gunnebo, G-R, (Gunnebo-Ramnas), Johnson

Ken Forging Inc./Cleveland City Forge (eyebolts/turnbuckles):

K, CCF, KF

Lettiere Material Handling Equipment Inc.:

LMHE

Skookum/Ulnem:

SKOOKUM

Markings that do not appropriately identify the manufacturer:

- China
- Holland
- Korea
- USA
- Germany
- Japan
- Taiwan