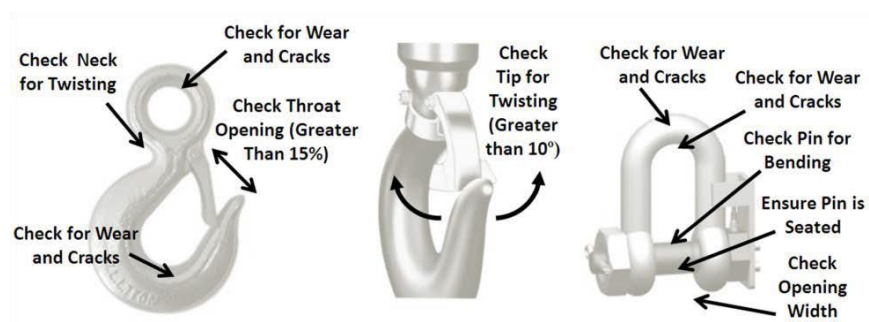


## CRANE & HOIST PRE-USE INSPECTION CHECKLIST

### HOOK DEFICIENCIES

- If hook throat opening has increased by 15%.
- Load bearing point has been worn by 10%, the hook must be replaced.
- Inspect hook tip. If it is twisted by 10 degrees or more the hook must be replaced.
- Check for excessive damage from chemicals and for deformation and cracks.
- Check for and replace damaged, inoperative, or missing hook latches.



### WIRE ROPE DEFICIENCIES

**NOTE! TO AVOID INJURY, WEAR LEATHER GLOVES WHEN INSPECTING WIRE ROPES**

- Rope distortion such as kinking, crushing, un-stranding, bird caging, main strand displacement, or core protrusion.
- General corrosion, heat damage and broken or cut strands.
- Number, distribution, and type of visible broken or cut wires.
- Reduction of rope diameter due to loss of core support, internal or external corrosion, or wear of outer wires.
- Corroded, cracked, bent, worn, damaged, or improperly applied end connections.

- Wire rope pull through of end connection.
- Clamps that recommend a specified torque on the clamp bolts.
- Rope lubrication, if recommended.

### **CHAIN DEFICIENCIES**

- Select an unworn and unstretched length of chain (e.g., at the slack end of the chain).
- The number of links selected must be an odd number and should be approximately 12 inches to 24 inches in length.
- Measure the gauge length of the unworn and unstretched length of chain selected by use of a caliper-type gauge.
- Measure the gauge length of the same number of links in a used section of the load chain.

Replace the chain if the used gauge length is 2-1/2% longer than the unused gauge length for manually operated hoists or is 1-1/2% longer than the unused guard length for power operated hoists.

### **General Damage**

Inspect chains, slings, wires hooks and other components of the crane/hoist for general damage, wear and tear.

### **Tagged**

Check that the crane or hoist is not tagged with an out-of-order sign.

### **Control Devices**

Test run each motion to ensure they are working properly.

### **Brakes**

Check for excessive drift in each motion of the crane and that stopping distance is normal.

### **Reeving**

Check that the wire rope is properly reeved and that rope parts are not twisted about each other

### **Limit Switches**

Check that the upper limit device stops the lifting motion of the hoist load block before striking any part of the hoist or crane

### **Oil Leakage**

Check for any sign of oil leakage on the crane and on the floor beneath the crane

### **Unusual Sounds**

Check for any unusual sound from the crane or hoist mechanism whilst operating the crane or hoist.

### **Warning & Safety Labels**

Check that warning and other safety labels are not missing and are legible.

### **Hook and Chain Assembly - Monthly Inspection**

**Once a month, complete the following tasks. When completed, initial and date the crane's/hoist's inspection tag.**

#### **Hook**

Check for damage, cracks, nicks, gouges, deformations of the throat opening, wear on the saddle or load bearing point, and twist. Refer to the manufacture's manual.

#### **Hook Latch**

Check for proper operation. If there is a gap between the end of the latch and the hook, then check the hook for elongation.

#### **Wire Rope**

Check for broken wires, broken strands, kinks, and any deformation or damage to the rope structure.