



# Toolbox Talk

## Topic: Rigging Inspection

Selecting the correct rigging is an important part of preventing crane rigging accidents. If you are a rigger, you have a role in preventing crane rigging accidents by rigging properly and inspecting the rigging before each lift.

**When inspecting rigging, consider the following:**

WIRE ROPE SLINGS	NYLON WEB SLINGS	POLYESTER ROUND SLINGS
<ol style="list-style-type: none"> <li>1. Five broken wires in one strand in one rope lay.</li> <li>2. Ten randomly distributed broken wires in one rope lay.</li> <li>3. Kinked or crushed.</li> <li>4. Bird caging.</li> <li>5. Evidence of severe corrosion.</li> <li>6. Evidence of heat damage from any cause.</li> <li>7. Abrasion, scrubbing or peening causing loss or more than 1/3 of the original diameter of outside wires.</li> <li>8. Capacity tag missing or not legible.</li> </ol>	<ol style="list-style-type: none"> <li>1. Excessive wear.</li> <li>2. Cuts or burns from sliding on a sharp edge or being wrapped around a sharp edge.</li> <li>3. Red indicator threads exposed.</li> <li>4. Ensure identification tag is readable.</li> <li>5. Evidence of corrosion.</li> <li>6. Holes from punctures or melted by slag.</li> <li>7. Ensure that there are no knots and that slings are not tied together.</li> </ol>	<ol style="list-style-type: none"> <li>1. Acid or caustic burns (discoloration, could be chemical burns.)</li> <li>2. Evidence of heat damage.</li> <li>3. Knots in any part of sling.</li> <li>4. Holes, tears, cuts, abrasive wear, snags that expose the core yarn.</li> <li>5. Broken or damaged core yarns.</li> <li>6. Missing or illegible sling identification.</li> <li>7. If the liner jacket is damaged, the sling must be removed from service.</li> </ol>
<p><b>Note:</b> Don't forget to wear puncture-resistant gloves when inspecting wire rope slings to prevent hand injury from broken wires.</p>	<p><b>Note:</b> Always use protective sleeves and/or softeners when lifting items with rough or sharp edges. Use wire rope before nylon slings.</p>	<p><b>Note:</b> When the outer protective jacket exposes the inner jacket, consider taking out of service to be repaired.</p>

### Important

- Any sling that has been damaged must be destroyed and discarded.
- Any sling that has been used for towing must be marked for towing only and may never be used for making a lift again.
- Rigging used to hoist people or as part of a fall protection system must be marked for personnel only and not be used for making a material lift.

