

Crane Inspection Checklist

A pre-use inspection checklist for cranes.

Rigging and hooks

- ☐ Inspect slings for cuts, fraying, kinks and broken wires.
- ☐ Check shackles, hooks and fittings for wear, cracks and deformation.
Remove from service any hook with cracks, excessive throat opening or twist.
- ☐ Verify hook safety latches close and function.
- ☐ Confirm rigging is rated for the load and within its capacity.
- ☐ Check tags and certifications on rigging are current.
- ☐ Verify the load is correctly secured and balanced before lifting.

Wire rope and hoist

- ☐ Inspect wire rope for broken wires, kinks, birdcaging and corrosion.
- ☐ Check rope spooling is even on the drum with no overlap.
- ☐ Verify the rope is correctly seated in sheaves.
- ☐ Inspect sheaves and drums for wear and grooving.
- ☐ Confirm rope end connections are secure and undamaged.
- ☐ Check lubrication of the rope and reeving.

Controls and instruments

- ☐ Confirm all controls operate smoothly and return to neutral.
- ☐ Check the load moment indicator and readouts function.
- ☐ Verify gauges, warning lights and alarms read normally.
- ☐ Test hoist, swing, boom and travel functions.
- ☐ Confirm brakes hold and operate correctly.
- ☐ Check the cab, mirrors and visibility are clear.

Load chart and capacity

- ☐ Confirm the correct load chart for the configuration is in the cab.
- ☐ Verify the load weight is known and within capacity.
- ☐ Check boom length, radius and angle against the chart.
- ☐ Confirm counterweight matches the configuration.
- ☐ Verify the lift plan accounts for wind and ground conditions.
- ☐ Confirm clearances from power lines and obstructions.

Outriggers and stability

- ☐ Confirm outriggers are fully extended and pinned per the chart.
- ☐ Check outrigger pads and cribbing are rated and on firm ground.
- ☐ Verify the crane is level within tolerance.
- ☐ Confirm tires are off the ground when fully on outriggers.
- ☐ Check the ground bearing capacity supports the loads.
- ☐ Verify the swing area is clear and barricaded.

Safety devices and records

- ☐ Test the anti-two-block device and warning.
- ☐ Confirm limit switches and overload protection function.
- ☐ Check the horn, alarms and signaling work.
- ☐ Verify the fire extinguisher is charged and mounted.
- ☐ Confirm operator certification and inspection records are current.
- ☐ Record defects, take unsafe cranes out of service, then sign and file.