

MONTHLY JIB CRANE SAFETY INSPECTION & LOAD
TEST LOG

HSCRANE

Crane ID/No.:

Inspection Date:

Certified Inspector:

Location/Plant:

Model/Capacity:

Next Due Date:

CRITICAL SAFETY REQUIREMENT: Monthly inspections must be conducted by qualified maintenance personnel or certified technicians. This protocol involves geometric measurements and formal dynamic testing. Mark [Pass], [Fail], or [N/A].

NO.	INSPECTION AREA & TECHNICAL CRITERIA	PASS	FAIL	N/A	MEASURED VALUES / SPECIFIC FINDINGS
1	Anchor Bolts & Foundation Integrity Inspect foundation for concrete cracking/spalling. Use a torque wrench to check anchor bolts against OEM specs. Check leveling of the main pillar.	☐	☐	☐	Torque value checked: _____ Nm
2	Structural Deflection & NDT Visuals Check cantilever beam for permanent deformation or twist. Clean and inspect critical weld joints with a magnifying glass for fatigue cracks.	☐	☐	☐	Deflection measured: _____ mm
3	Hook Dimension & Geometric Distortion Measure hook throat opening and twist. Check for wear in the saddle. (Reject if throat opening exceeds 10-15% of original or twist > 10°).	☐	☐	☐	Original: __mm Current: __mm
4	Electrical Control Cabinet Internal Inspection Turn off main power. Inspect main contactors for pitting, check thermal overloads, tighten all terminal screws, and blow out accumulated metallic dust.	☐	☐	☐	Insulation resistance: _____ MΩ
5	Trend Analysis of Historical Logs Review the past month's daily/weekly logs. Identify recurring anomalies (e.g., frequent oil top-ups, recurring limit switch adjustments) to preempt failures.	☐	☐	☐	Recurring issues noted: Yes / No

SECTION 6: DYNAMIC RATED LOAD TEST PROTOCOL

Conduct testing using 100% rated capacity. Test all motions smoothly (lifting, lowering, trolley travel, and rotation).

Test Sub-Item	Acceptance Criteria	Status (P/F)	Remarks
Brake Holding Power	Load must hold firmly with ZERO drift or slippage when motion stops.	[]	
Slewing / Rotation Motor	Smooth start and stop under full load. No structural shudder or gear slipping.	[]	
Structural Response	Structural deflection within allowable engineering tolerances; no unusual vibration.	[]	

Qualified Inspector Signature

Plant Safety Manager Review

External Auditor / Third-Party (if applicable)