

Annual Overhead Crane Inspection Checklist

Item Category	Inspection Content	Inspection Result (Pass/Fail)
Sling	1. Is the safety latch on the hook effective in preventing accidental load release?	
	2. Is the hook surface smooth without peeling, burrs, sharp edges, or cracks?	
	3. No cracks or welding on hook; wear in dangerous section <10% of original size.	
	4. No deformation or cracks in grab parts; rotating parts run freely; mouth closes tightly with no wear.	
Wire Rope	1. Rope is arranged neatly on drum without crossing or misalignment.	
	2. Pulley rotation is flexible; no jamming or abnormal noise.	
	3. Rope surface shows no cracks, kinks, broken wires or flattened strands.	
	4. Rope securely fixed on drum, with sufficient pressing plates.	
	5. Meets criteria: broken wire count does not exceed 10% of total strands over a twist pitch length.	

Electrical System	1. Control cable insulation is intact, no damage or exposed wires.	
	2. Operating handle functions normally; emergency stop switch works.	
	3. Limit switch for lifting operates reliably and is positioned correctly.	
	4. Electrical cabinet is sealed and dry; components installed firmly without corrosion or looseness.	
	5. Circuit breakers operate normally; overload protector functions correctly.	
Safety Devices	1. Emergency stop switch is effective and installed in an accessible position.	
	2. Audible and visual warning devices operate normally.	
	3. Travel limit switches installed at both ends of bridge and trolley rails.	
	4. Overload limiter functions properly with clear display.	
	5. Buffer devices at end of trolley and bridge rails are intact and reliable.	

Mechanism & Motor	1. Lifting motor, trolley motor, and bridge motor operate smoothly with no abnormal sounds.	
	2. Reducers show no oil leakage or overheating.	
	3. Mechanical brakes work normally, no sticking or failure.	
	4. Couplings are intact with no damage or looseness.	
	5. Wheel flanges are intact, no peeling or wear; no derailment occurs during operation.	
Structure	1. Main girder, trolley frame, and end beams show no cracks or visible deformation.	
	2. Weld seams are free from cracks or detachment.	
	3. Bolted connections are tight and without rust or damage.	
	4. Rail clamps and guide wheels are secure and aligned.	
	1. Work area clean and orderly; no foreign objects obstructing crane movement.	

Overall Condition	2. Warning signs and labels (e.g. rated load) are clear and undamaged.	
	3. No unauthorized modification or use beyond rated capacity.	
	4. Regular lubrication applied to moving parts; no oil spills.	
	5. Inspection record properly filled out and signed.	
Rectification Details:		
Date of Rectification:		