

Ride-On Roller Asphalt Compaction - JSA - B

en-US · Technical failure review · v1.0 · 2026-10-14 · Sources: article section 9

Site: | Item ID: | Work area:

Approval	Work supervisor	Technical reviewer	Release / handover authority

1. Job details and team signatures

Date / time	Location / area			Assessor		Supervisor	
Team signatures							

2. Conditions and hold points

Stage	Time	Location / area	Environment / readings	Item / condition	Controls	Plant / tools	Approval / signature
HP-0 Start							
HP-1 Review layer and support							
HP-2 Inspect roller							
HP-3 Enter and trial roll							
HP-4 Inspect and release traffic							

Complete after actual checks. Recheck after changes, defects or shift handover.

3. JSA risk assessment

Job stage	Hazards and effects	Failure factors	Technical and procedural controls	Site verification	P	S	R	A
1. Brief route and signals	1. Reversing collision 2. Blind-spot entry 3. Conflicting movements	1. Signals inconsistent 2. Visibility restricted 3. Other plant uncoordinated	1. Agree signals and stop rule 2. Assess visibility and spotters 3. Coordinate plant movements	1. Signal owner and method 2. Sight lines and blind spots 3. Adjacent plant sequence				
2. Inspect roller	1. Loss of steering 2. Unrestrained rollover 3. Drum pinch	1. Controls not checked 2. ROPS or belt damaged 3. Scraper adjusted running	1. Hold defective controls 2. Use supplied ROPS and belt 3. Isolate before adjustments	1. Warning and visibility systems 2. ROPS and restraint condition 3. Spray scraper and leak status				
3. Enter and trial roll	1. Unexpected vibration 2. Hot-surface injury 3. Collision on entry	1. Settings copied blindly 2. Hot material contact 3. Route not cleared	1. Trial approved configuration 2. Control heat exposure 3. Verify clear travel path	1. Trial speed and vibration 2. Layer temperature record 3. People and plant clear				
4. Perform repeated passes	1. Unsupported-edge rollover 2. Excessive vibration effects 3. Loss of machine control	1. Edge cracks ignored 2. Sensitive structures omitted 3. Abrupt unplanned maneuver	1. Stop for support changes 2. Follow approved rolling pattern 3. Maintain stable controlled travel	1. Edge and base response 2. Pass and vibration records 3. Operator communication				
5. Treat edges and obstructions	1. Worker-machine crush 2. Cover failure 3. Hand-tool contact	1. Handwork overlaps rolling 2. Manhole capacity unknown 3. Worker approaches moving drum	1. Separate handwork and rolling 2. Protect reviewed structures 3. Stop before worker approach	1. Handwork exclusion window 2. Cover and structure condition 3. Operator acknowledgment				
6. Park and address defects	1. Articulation crush 2. Hot-fluid injury 3. Unexpected drum movement	1. Joint unsecured 2. Pressure remains 3. Stop mistaken for isolation	1. Control roll and articulation 2. Isolate stored energies 3. Assign qualified servicing	1. Isolation and support state 2. Heat and residual pressure 3. Defect and service disposition				

P/S/R/A: Complete only after actual site assessment using the site risk method.

4. Pre-work checklist

☐ Signal owner and method	☐ Warning and visibility systems	☐ Trial speed and vibration
☐ Edge and base response	☐ Handwork exclusion window	☐ Isolation and support state
☐ Adjacent plant sequence	☐ Operator communication	☐ Defect and service disposition