

Ride-On Roller Asphalt Compaction - JSA - A

en-US · Basic task controls · 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. Review layer and support	1. Roller rollover 2. Buried-structure collapse 3. Poor compaction	1. Edge support unknown 2. Utility covers unreviewed 3. Mix requirements absent	1. Review base grade and edges 2. Locate sensitive structures 3. Confirm layer and quality plan	1. Base and edge acceptance 2. Structures and cover capacity 3. Mixture layer and temperature				
2. Brief route and signals	1. Pedestrian runover 2. Reversing collision 3. Blind-spot entry	1. Workers share roller lane 2. Signals inconsistent 3. Visibility restricted	1. Separate workers from travel 2. Agree signals and stop rule 3. Assess visibility and spotters	1. Exclusion and walking routes 2. Signal owner and method 3. Sight lines and blind spots				
3. Inspect roller	1. Brake failure 2. Loss of steering 3. Unrestrained rollover	1. Defects ignored 2. Controls not checked 3. ROPS or belt damaged	1. Check actual machine functions 2. Hold defective controls 3. Use supplied ROPS and belt	1. Brake and steering checks 2. Warning and visibility systems 3. ROPS and restraint condition				
4. Perform repeated passes	1. Worker runover 2. Unsupported-edge rollover 3. Excessive vibration effects	1. Reversal path not checked 2. Edge cracks ignored 3. Sensitive structures omitted	1. Recheck before every move 2. Stop for support changes 3. Follow approved rolling pattern	1. Clear forward and reverse path 2. Edge and base response 3. Pass and vibration records				
5. Park and address defects	1. Unintended rolling 2. Articulation crush 3. Hot-fluid injury	1. Parking place unsuitable 2. Joint unsecured 3. Pressure remains	1. Park by actual procedure 2. Control roll and articulation 3. Isolate stored energies	1. Parking and movement restraint 2. Isolation and support state 3. Heat and residual pressure				
6. Inspect and release traffic	1. Premature traffic damage 2. Unaccepted compaction 3. Worker-vehicle conflict	1. Cooling status assumed 2. Pass count equals quality 3. Barriers removed early	1. Record quality acceptance 2. Confirm release conditions 3. Coordinate traffic opening	1. Test location and results 2. Temperature and surface status 3. Traffic release authority				

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

4. Pre-work checklist

☐ Base and edge acceptance	☐ Exclusion and walking routes	☐ Brake and steering checks
☐ Clear forward and reverse path	☐ Parking and movement restraint	☐ Test location and results
☐ Mixture layer and temperature	☐ Pass and vibration records	☐ Traffic release authority