

Leveling Machine Technical Acceptance Checklist

Inspection Item	Technical Requirement	Acceptance Method
Machine Appearance & Build Quality	No deformation, cracks, rust; paint uniform	Visual inspection
Frame Structure	Welds smooth, no defects; rigidity meets design	Visual
Leveling Rollers	Material GCr15; hardness HRC 60±2	Hardness test + visual
Backup Rollers	Smooth rotation; no abnormal noise	Manual rotation test
Roller Bearings	No vibration; temperature rise < 15°C	Running test
Roller Seals	No oil leakage	Visual
Roller Parallelism	≤ 0.02 mm	Dial indicator
Roller Straightness	≤ 0.02 mm	Dial indicator
Leveling Accuracy (Flatness)	≤ 0.5 mm/m (or per contract)	Straightedge + feeler gauge
Surface Quality After Leveling	No scratches, dents, or marks	Visual
Thickness Range Capability	Meets specified range	Test with sample material
Width Range Capability	Meets specified range	Test with sample material
Feeding Speed	Meets design value	Speed measurement
Motor Performance	No abnormal noise	Running test
Gearbox	No leakage; smooth transmission	Visual + running test
Coupling	No cracks; elastomer intact	Visual
Hydraulic System Pressure	Meets design pressure	Pressure gauge
Hydraulic Cylinder	No leakage; smooth movement	Visual + running test
Hydraulic Filter	Pressure difference within normal range	Gauge reading
Electrical Cabinet	Wiring neat; labels complete	Visual
PLC & HMI	All functions operate correctly	Functional test
Sensors	Proximity/photoelectric sensors respond correctly	Functional test
Emergency Stop	All E-stop buttons functional	Functional test
Safety Guards	Installed; no missing parts	Visual
Noise Level	≤ 85 dB (or per contract)	Noise meter
Vibration Level	Within ISO 10816 limits	Vibration meter
Lubrication System	Oil/grease supply normal	Visual + running test
Tools & Accessories	Delivered per packing list	Checklist
Technical Documents	Manuals, electrical drawings, maintenance guide	Document check
Spare Parts	Delivered per contract	Checklist
Final Acceptance	Meets all technical requirements	Comprehensive review