MAINTENANCE

Silo Maintenance Checklist

Daily, weekly, monthly, quarterly, and annual maintenance checklists for all silo types. Includes inspection forms and record templates.

Doc. No.	Version	Issued	Category	Website
MX-MN-001	Rev 1.0	October 2026	Maintenance	www.manxingstorage.com

A structured maintenance program keeps Manxing silos safe, dust-tight and efficient. The checklists below cover daily, weekly, monthly, quarterly and annual tasks for all silo types. Print or copy the tables, mark each item, and file the completed records.

1. Daily Checklist

	Item	Check / Acceptance Standard	Result / Record
[ ]	Level indication vs. actual level	Deviation below 5% of reading	
[ ]	Silo differential pressure / breathing	Within normal range; relief valve not stuck	
[ ]	Dust collector differential pressure	Within designed range; no abnormal noise	
[ ]	Blower / aeration air pressure	50-70 kPa (or per design); no leak noise	
[ ]	Discharge valve and metering	Steady flow; no bridging or blockage signs	
[ ]	External visual inspection	No leakage, deformation or corrosion streaks	
[ ]	Instrument alarms	All clear; alarms logged and acknowledged	

2. Weekly Checklist

	Item	Check / Acceptance Standard	Result / Record
[ ]	Aeration pad condition (visual)	No ash build-up or blocked pads	
[ ]	Rotary valve seals and rotor clearance	No material leakage; clearance per manual	
[ ]	Bolt tightness spot check (bolted silos)	No loose or missing bolts; re-torque if needed	
[ ]	Filter cartridges condition	No tears; pulse cleaning effective	
[ ]	Compressed air quality (oil/water)	Dry and oil-free at aeration header	
[ ]	Safety valve function test	Opens and reseats freely	
[ ]	Housekeeping around silo	No dust accumulation; area clean	

3. Monthly Checklist

	Item	Check / Acceptance Standard	Result / Record
[ ]	Rotary valve gearbox oil level	Between min and max marks; no contamination	
[ ]	Dust collector compressed air system	Dryer and drains functional; no water	
[ ]	Roof vent and manhole seals	Seals intact; no dust escape	
[ ]	Corrosion and coating condition	Touch up damaged areas within 1 month	
[ ]	Weld visual inspection (accessible areas)	No cracks at nozzles and supports	
[ ]	Load cell zero and linearity check	Within +/-1% of reading	
[ ]	Grounding and bonding continuity	Resistance below 10 ohm	

4. Quarterly Checklist

	Item	Check / Acceptance Standard	Result / Record
[ ]	Aeration floor airflow uniformity test	All zones fluidize evenly	

	Item	Check / Acceptance Standard	Result / Record
[ ]	Temperature sensors calibration check	Deviation within +/-2 degC	
[ ]	Pressure / vacuum relief valve full test	Set pressure verified per nameplate	
[ ]	NDT spot check of critical welds	No crack indications (MT/PT)	
[ ]	Blower filter and silencer cleaning	Clean; no pressure drop increase	
[ ]	Electrical cabinet and interlock test	All interlocks function correctly	
[ ]	Ladder, platform and guardrail inspection	No damage; fixings tight	

5. Annual Checklist

	Item	Check / Acceptance Standard	Result / Record
[ ]	Internal inspection (confined space)	No bridging material, wall wear or corrosion	
[ ]	Shell plate thickness survey (UT)	Corrosion allowance maintained	
[ ]	Structural survey (legs, supports, anchors)	No settlement, cracks or bolt elongation	
[ ]	Coating repair and full touch-up	Coating system per specification	
[ ]	Full instrument calibration	All sensors calibrated with certificates	
[ ]	Blower and gearbox overhaul	Clearances and bearings within tolerance	
[ ]	Explosion protection devices test	Vent panels, isolation valves, gas detectors	
[ ]	Review of maintenance records and spares	Trends reviewed; spares replenished	

6. Inspection Record Template

Copy this table for each inspection event. Attach NDT reports, calibration certificates and photographs where relevant.

Date	Item / System	Result (OK / NG)	Inspector	Action Taken / Follow-up

7. Recommended Spare Parts

Spare Part	Recommended Quantity	Lead Time Note
Aeration pads / fluidizing fabric	5% of installed quantity	Consumable, keep on site
Dust filter cartridges	1 full set	Replace every 2-4 years
Rotary valve rotor and seals	1 set	Wear part
Relief valve diaphragm / spring	1 set	Test annually
Level and temperature sensors	1 of each type	Calibrate annually
Sealing strips (bolted silos)	1 course equivalent	Weather exposed

Contact Manxing

For quotations, engineering review and site assessment, please contact the Manxing engineering team. Our engineers will respond within one business day.

Email	info@manxingim.com
Tel / WhatsApp	+86 159 3903 7000
Website	https://www.manxingstorage.com
Address	Zhengzhou City, Henan Province, China

This document is provided by Manxing Silo Engineering for technical reference. Specifications are subject to confirmation at the time of order. info@manxingim.com | +86 159 3903 7000 | https://www.manxingstorage.com