ENGINEERING TOOL

Custom Silo Engineering Questionnaire

Detailed questionnaire to specify your custom silo requirements: material properties, capacity, site conditions, and special needs.

Doc. No.	Version	Issued	Category	Website
MX-ET-002	Rev 1.0	October 2026	Engineering Tools	www.manxingstorage.com

Complete this questionnaire to help Manxing engineers prepare an accurate silo proposal. Fill in as much as you can; unknown fields can be marked "TBD". Send the completed form to info@manxingim.com or contact +86 159 3903 7000 (Tel / WhatsApp).

1. Project and Contact Information

Company name	
Contact person	
Email	
Phone / WhatsApp	
Country / City	
Project name	
Expected delivery date	

2. Material Properties

Material name	
Bulk density (t/m3)	loose / packed
Particle size / gradation	
Moisture content (%)	
Material temperature (degC)	
Angle of repose (deg)	if known
Abrasiveness / corrosivity	
Explosion hazard (Kst, Pmax)	if known
Other hazards (toxic, self-heating)	

3. Capacity and Flow Requirements

Required storage capacity (t)	
Feeding rate (t/h)	

Discharge rate (t/h)	
Cycles per day	
Filling method	pneumatic / mechanical / belt
Discharge destination	truck / wagon / ship / process
Redundancy required	yes / no

4. Silo Configuration

Construction	bolted / welded / no preference
Bottom type	cone / flat / other
Number of discharge outlets	
Level measurement type	radar / ultrasonic / load cell
Dust collection required	yes / no
Aeration required	yes / no
Insulation / heating required	yes / no
Internal lining required	yes / no

5. Site Conditions

Seismic zone / PGA (g)	
Basic wind speed (m/s)	
Snow load (kPa)	
Ambient temperature range (degC)	
Soil bearing capacity (kPa)	
Available footprint (m x m)	
Indoor / outdoor installation	
Access constraints	

6. Utilities Available

Power supply	e.g. 380 V / 50 Hz / 3-phase
Compressed air (pressure, flow)	
Water supply	
Control voltage	

Plant room / control room location	

7. Special Requirements and Standards

Applicable standards	EN / GB / NFPA / ATEX / other
Explosion protection required	yes / no
Paint color / RAL	
Automation / PLC required	yes / no
Remote monitoring required	yes / no
Documentation language	
Other requirements	

8. Attachments Checklist

	Item	Check / Acceptance Standard	Result / Record
[ ]	Site layout / general arrangement drawing	DWG or PDF attached	
[ ]	Process flow diagram (PFD)	DWG or PDF attached	
[ ]	Material test report / MSDS	PDF attached	
[ ]	Geotechnical report	PDF attached	
[ ]	Photographs of site	JPG attached	

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