

Checklist

How to specify a bulk bag unloader

1	Material compatibility	5	Discharge and throughput rates
Assess the properties of your material — such as dust containment, flow characteristics and reactivity — to determine the best design and accessories for the unloader.		Identify the speed required for emptying bags and transferring material to meet your production targets.	
	Dust containment Bulk density Flowability Sanitary / food grade Static / conductivity Material conditioning	6	Discharge rate requirements Hopper and feed mechanisms Continuous / intermittent flow Surge capacity and buffering Dust control and containment
2	Bulk bag requirements	Depending on the material and bag type, consider dust extraction features such as manifolds, rubber skirts, or	
	a for both current and future production needs to ensure r bag unloader can manage anticipated production rates. Bag size & weight capacity Reusable bag Spout size & length Flat bottom bag, no spout Bag dimensions (including overall height) Lifting loops (4, 2 or 1) Bulk bag liners	spo	Seals & connections Dust collection systems Enclosed discharge area Dust-tight bag removal Dust containment enclosures Negative pressure systems Containment during changeover Local exhaust ventilation (LEV)
3	Batching or dosing	7	Safety features
If precise dispensing is required, consider options like load cells or specialised feeding systems.		Prioritise operator safety with ergonomic loading heights, safety interlocks, and other protective design elements.	
4	Batching accuracy Flow control mechanisms Batch size requirements Automation & controls Batching speed vs accuracy Existing system integration Batch verification Minor ingredient dosing Bag handling requirements		Structural safety Hoist & lifting safety Guarding & access controls Emergency stop mechanisms Hazardous material safety Ergonomics & operator safety Safety monitoring Noise control Manual override systems
		8	Compliance
	luate how bags will be loaded and whether the unloader ds to accommodate various bag sizes or types. Dust containment Bulk density Flowability Sanitary / food grade Static / conductivity Material conditioning		ure that the unloader complies with relevant safety, iene, and regulatory standards for your industry. Safety & occupational health Electrical safety Dust control & combustible dust Lifting & handling Environmental Food, pharmaceutical & hygienic Chemical & corrosion resistance

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☐ Risk management & assessment ☐ Documentation & certification