AZO Innovation

Modular discharge station for big bags allows configuration to meet individual requirements

Cost-efficient, modular principle

Reliable handling of big bags

Rapid, dust-tight connections

Discharge aids for difficult bulk materials

Preferred applications

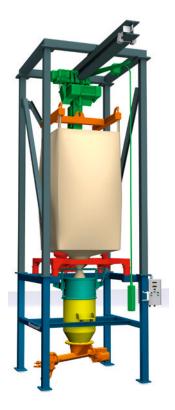
Flexible bulk materials receptacles such as big bags have become firmly established for handling powders in a variety of branches. They have clear advantages over sacks when it comes to transporting and storing bulk materials. They are environmentally friendly, require less operating staff and storage space and reduce costs for transport and processes.

Apart from free-flowing bulk materials, poor-flowing products can also be discharged reliably using appropriate discharge aids.

Special advantages

- Modular system allows configuration to meet individual requirements, making it cost-effective
- Reliable discharge of bulk materials into closed production systems with little generation of dust
- Convenient lifting of big bags from pallets to the big bag discharge station
- Low-dust connections thanks to the big bag docking system
- With the option of vibrating discharge aids and/or massager devices for poor-flowing bulk materials

- Suitable for various sizes and types of big bags
- Easy to use thanks to ergonomic design
- Also suitable for big bags with inliners





Modular: cost-efficient and flexible

AZO big bag discharge stations make it possible to discharge big bags with little generation of dust and to feed products reliably into the closed production plant. To improve efficiency and reduce costs even further, AZO has developed a modular concept for a big bag discharge station. The required components such as frame, traverse, chain hoist, discharging aids, big bag docking system, buffer bin and discharging unit can be chosen from a "construction set", depending on the requirements. The entire discharge station can be configured to suit needs without outlay for design, which has a very positive effect on the price and delivery time. They are comparable with equipment from series production, however the modular station covers a much broader range of uses than a standard model, which makes it very flexible. Modular technology makes it possible to adapt the stations in use to changing production conditions with minimum outlay.



THE INNOVATION



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Modular big bag discharge station 1600 x 1600 mm

Upper frame with traverse and chain hoist





upper frame for low overall



Support platforms



standard support frame for easy-flowing bulk materials

Connection systems



heights

support platform improves discharge properties dis-



1000 kg and 2000 kg traverse

1000 kg and 2000 kg chain hoist;

support platform with vibrating discharge aid for non-free-flowing bulk materials



1000 kg and 2000 kg traverse for low overall heights



support platform with massager device for especially difficult, nonfree-flowing bulk materials, with optional vibrating discharge aid



big bag connection system with inflatable seal for bulk materials that generate a high level of dust



hopper for dust-free, granular bulk materials

Hopper



bag clamp for bulk materials that generate little dust



big bag connection systems for powdered bulk materials



Ø 500 mm hopper volume: 85 - 110 litres with/without vibrating discharge aid

Lower frame



Lower frame without stage height: 1480 mm



Ø 800 mm hopper volume: 100 - 350 litres with/without vibrating discharge aid



Lower frame with one stage height: 1730 mm



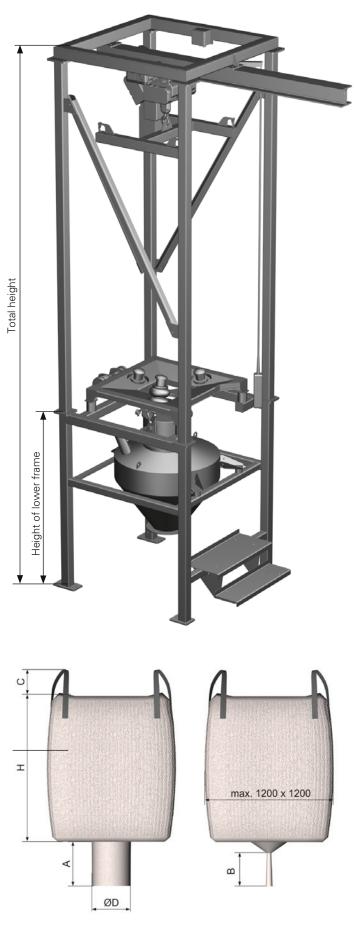
Ø 1100 mm hopper volume: 350 - 750 litres with/without vibrating discharge aid



Lower frame with two stages height: 1980 mm



Technical data



Total height

		Girder, hanging					
Big bag height [mm]		1500	1750	2000			
Height of lower frame	1480	4870	5120	5370			
[mm]	1730	5120	5370	5620			
	1980	5370	5620	5870			
Overall heights are decreased by 290 mm for plants where the height has been optimised							

Hopper volume

Height	Hopper	Outlet diameter [mm]					
of lower	diameter	205 for	305 to	305 to	500 to		
frame	[mm]	AL1)200	DFS ²⁾ 100 /	DFS2)140	AT4)500		
(mm)			AK ³⁾ 300				
1.480	500	-	85 L	-	-		
	800	-	-	-	200 L		
1.730	500	100 L	130 L	110 L	-		
	800	-	200 L	100 L	350 L		
1.980	1.100	350 L	500 L	350 L	750 L		
1) Rotary valve							
2) Dosing screw							
3) Butterfly valve							
4) Pick up cone							

Technical data

Load-bearing	1000 kg o	r 2000 kg				
capacity						
Design:	frame:					
	mild steel, epoxy-coated					
	alternatively: chromium-nickel steel 1.4301					
	parts in immediate contact with products:					
	chromium-nickel steel 1.4301					
	Choice of surface finishes A2-1 to A2-4					
	L4-2 to L4-3					
	(refer to AZO's surface finishes)					
Weight:	1050- 1700 kg (without big bag)					
Protection class:	IP 54					
Nominal voltage:	400 V / 50 Hz					
Control voltage:	24 V					
Connected load:	1,76 kW					
Noise level:	< 70 dB (A)					
Seismic zone	Calculation according to EN1998-1:2010					
	in Germany, Belgium, France and Italy					
	unrestricted					
Use for:	big bags, max. 1200x1200 mm					
	with heights of					
	H = 1500 mm, 1750 mm, 2000 mm					
	with outlet connectors:					
	outlet-Ø D [mm]		fastened	standard		
		length min.	lenght min. B [mm]	loop length C [mm]		
		A [mm]	_ []			
	330-380	550	400	300		
	380- 500	600	450	300		
	500-600	650	500	300		
Big bag weight	1960 kg for station with load capacity 2000 kg					
max:	960 kg fo	or station w	ith load capacit	y 1000 kg		

AZO Innovation

Modular discharge station for big bags

6039



modular discharge station for big bags with mounted dosing screw (not part of the modular system)



Support hopper with vibrating discharge aid and massager device



Big bag connection systems for powdered bulk materials



Big bag connection system with \emptyset 500 hopper with mounted dosing screw (not part of the modular system)



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