

QUESTIONNAIRE – LUMP BREAKER LBS

Please complete the form fields and return the questionnaire to biuro@interprocess.pl – we will prepare our quotation on this basis. Any questions: tel. +48 787 783 590.

CONTACT DETAILS

Full name:		Phone number:	
Company:		E-mail address:	
Street and number:		Country:	
Postcode, town:		Date completed:	

ORDER

Quantity:		Required delivery date:	
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MATERIAL

Material name:			
Particle size [mm]:		Bulk density [kg/m³]:	
Moisture content [%]:		Angle of repose [°]:	
Material temperature [°C]:	☐ 0–40 ☐ other:		
Material properties:	☐ free-flowing ☐ medium-flowing ☐ poor-flowing ☐ dusty ☐ abrasive ☐ friable ☐ sticky ☐ cohesive (caking) ☐ hanging up, bridging ☐ hygroscopic ☐ aeratable (flooding) ☐ toxic ☐ chemically aggressive (corrosive) ☐ intended for food contact / pharmaceutical product		

REQUIREMENTS

Throughput [kg/h or m³/h]:		operating time [h/day]:	
Lump size at inlet [mm]:	smallest:	typical:	largest:
Particle size at outlet [mm]:	(screen aperture in range 1–25 mm) ☐ to be selected by InterProcess		
Lump hardness:	☐ crumble in the hand ☐ need a blow ☐ hard, firmly caked		
Origin of lumps:	☐ caking in storage / transport (sacks, big-bags, silo) ☐ moisture pick-up ☐ agglomerates after drying or mixing ☐ other:		
Foreign bodies in material:	☐ no ☐ possible – which:		
Fines generation:	☐ not important ☐ to be minimised		

DESIGN

Installation location:	☐ below big-bag discharge station ☐ below sack tipping station ☐ below silo / hopper ☐ after dryer or mixer ☐ after sieve ☐ before pneumatic conveying ☐ other:		
Material feed:	☐ flood feed (full hopper above lump breaker) ☐ metered feed		
Associated equipment:	upstream of breaker: downstream of breaker:		
Available installation height [mm]:			
Lump breaker size (inlet = outlet):	☐ LBS2020 – 200 × 200 mm, up to 1.5 m³/h ☐ LBS3030 – 300 × 300 mm, up to 6 m³/h ☐ LBS3050 – 300 × 500 mm, up to 11 m³/h ☐ to be selected by InterProcess		
Inlet and outlet connections:	☐ standard ☐ matched to existing flanges – dimensions:		
Product-contact parts:	☐ stainless steel 1.4301 (AISI 304) ☐ stainless steel 1.4404 (AISI 316L) finish: ☐ glass-bead blasted ☐ electropolished		
Screen:	☐ perforated plate ☐ woven wire mesh ☐ to be selected		
Shaft seal:	☐ standard ☐ air-purged		

Hygienic design – options (please tick each option separately)

- ☐ internal surfaces ground to roughness Ra < 0.8 µm
☐ tool-free screen removal, with opening sensor
☐ seals and non-steel parts compliant with FDA and Regulation (EC) No 1935/2004
☐ design to GMP / HACCP requirements

DRIVE

Geared motor:	☐ SEW 3×400 V AC, IP65 (standard) ☐ other:		
Supply frequency:	☐ 50 Hz ☐ 60 Hz		

OPERATING ENVIRONMENT

Ambient temperature [°C]: ☐ 0–40 ☐ other: _____

Installation site: ☐ indoors ☐ outdoors, under cover ☐ outdoors, uncovered

ATEX – explosion hazard zone: ☐ no ☐ yes → please specify below:

gases, flammable liquid vapours inside equipment: ☐ 0 ☐ 1 ☐ 2 outside: ☐ 1 ☐ 2

explosion group and temperature class: _____

combustible dusts inside equipment: ☐ 20 ☐ 21 ☐ 22 outside: ☐ 21 ☐ 22

dust parameters dust explosion class: ☐ St 1 ☐ St 2 ☐ St 3 ☐ conductive dust (IIIC)

minimum ignition energy [mJ]: _____

min. ignition temp. [°C] – dust cloud: _____ 5 mm dust layer: _____

CONTROL SYSTEM

Scope of supply: ☐ without controls (power and control by customer) ☐ local control box

Equipment: ☐ maintenance isolator ☐ shaft speed sensor ☐ cover open sensor

INSTALLATION SITE AND ADDITIONAL REMARKS

Description of lump breaker installation site (e.g. upstream and downstream equipment, available space and operator access, method of mounting, available utilities):

Additional remarks/requirements (e.g. process description, special requirements, scope of supply, documentation, installation, commissioning):

If possible, please attach drawings, a plant layout or photos of the installation site and the material safety data sheet (SDS).