

Discharging Aids

1 Discharge Vibrating Cage

Stanelle – Always the best solution



For a safe discharge
of poor-flowing bulk
goods from Silos or
bunkers

Areas of application:

The Stanelle Discharge Vibrating Cage type ASK, serves as a discharge aid for all poor-flowing and bridge-forming, dry, dusty to granular bulk materials. The essential advantage over air-operated systems is that no fluidizing air is contained in the outflowing bulk material. This has a positive effect on bagging and loading bulk material in silo vehicles. The flanged design with 60°, 65° or 70° outlet inclination is easy to attach to any silo or bunker, even retrofitted.

Operation: The vibratory energy of the vibrator motor is transmitted directly to inner parts of the vibrating cage via the swinging elements. By the induced oscillations the bulk material is loosened, possible bridges will collapse and the material flows out.

Material / Design: The ASK can be supplied in steel or various stainless steel grades. Vibration motors with different centrifugal forces and connection voltages are available.

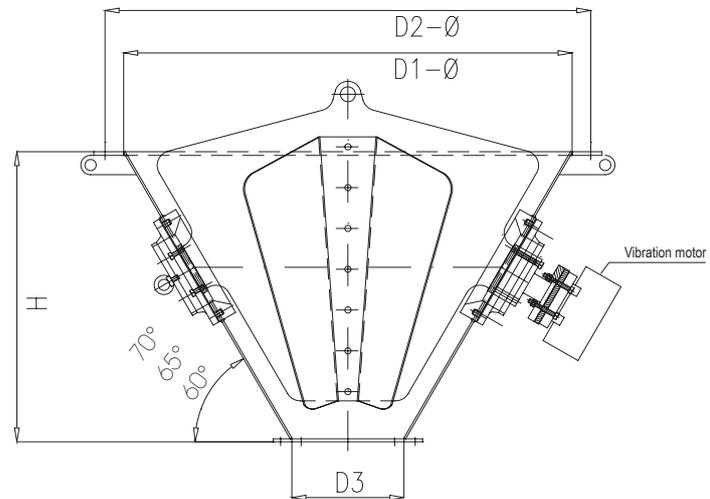
Test center: In order to confirm a reliable and safe discharging we offer a product test in our technical solution center.



Finish: RAL 9006 white aluminum, special painting or hot galvanized version on request.

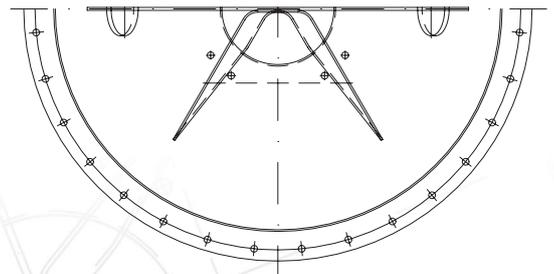
Advantages:

- Elimination of interfering fluidizing air
- Force-locked connection
- No additional construction required
- Easy installation and maintenance
- Compact design
- Wear-resistant construction
- No vulnerable collars
- Temperature range up to max. 80 ° C
- Cone can be heated and insulated
- Special designs on request



Dimensions and technical data:

Nominal diameter	Ø 1200	Ø 1500	Ø 1800
D1 Ø	1200	1500	1800
D2 Ø	1300	1600	1900
Number of holes x Ø	32 x Ø 18	36 x Ø 18	40 x Ø 18
D3 – Ø, H	on customer's request		
Vibration motor	0,16 KW		
Voltage	400, 500 or 690 V / AC		



2 Vibration Boom SVA



Areas of application: The Stanelle Vibration Boom type SVA serves as a discharge aid for all poor-flowing and bridge-forming, dry, dusty to granular bulk materials. The advantage over vibrating cages is the individual applicability. Rectangular bunkers or special outlets can be equipped with the SVA. A targeted placement can also be carried out. The subsequent installation in existing silos or bunker can be carried out without any problem. By a variable mounting of the vibration motor, the action of the SVA on the bulk material can be controlled effectively.

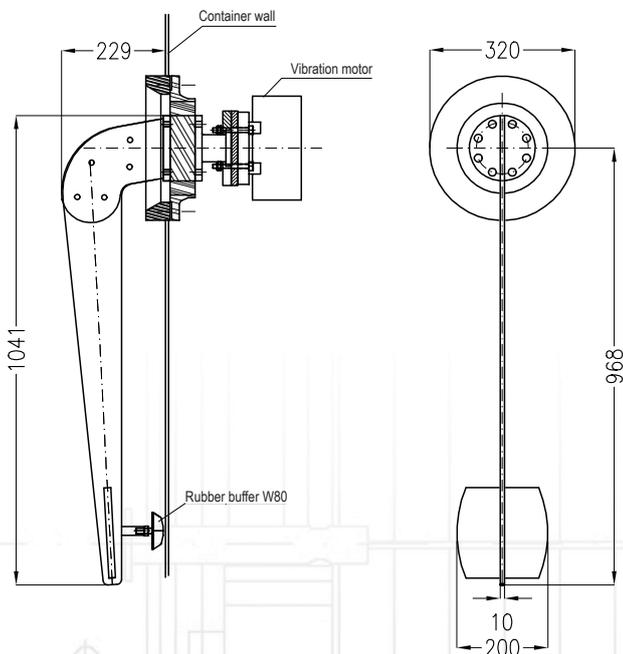
Advantages:

- Simple design
- Targeted application
- Easy retrofit installation
- Wear-resistant construction
- Exchangeable from the outside
- Robust swinging element
- Temperature range up to max. 80 ° C
- Vibration motors with different centrifugal forces available

Material / Design: Depending on the application, the Stanelle Vibration Boom can be supplied in steel or various stainless steel grades. Vibration motors with different centrifugal forces and connection voltages are available.

Finish: RAL 9006 white aluminum, special painting or hot galvanized version on request.

Operation: With the beginning of the discharge operation the vibrating motor is switched on in a pulsating mode. Through this pulsating oscillation, vibration energy is transferred into the material. By changing the centrifugal force setting and the variable pulse frequency control, the bulk material is stimulated. The fine-dosed vibration ensures that the bulk material is not compacted.



3 Air injector loosening system LUALO

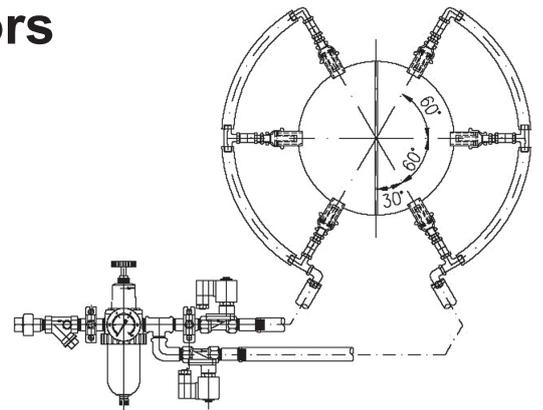
Injectors - Cushions - Pulsators

Air loosening system:

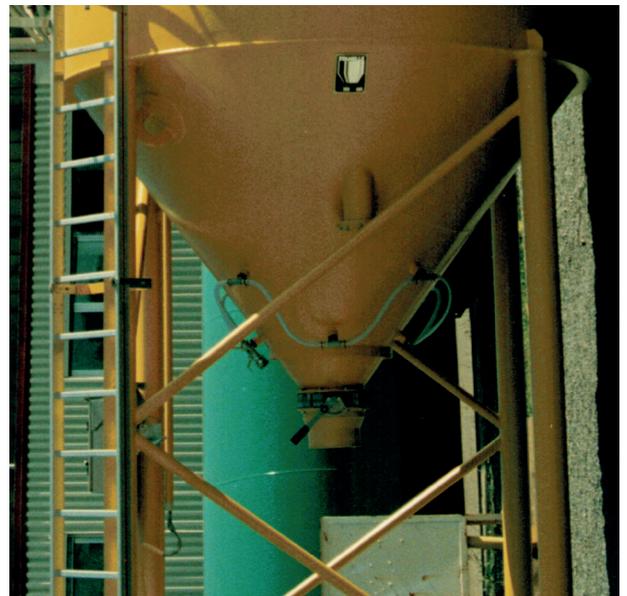
The Stanelle air loosening system type LUALO is used for fluidisation of poor-flowing, technically dry, non sticky bulk materials. The advantage of the injector / pulsator loosening system is that they are not located directly in the stream of bulk material and can be replaced from the outside. Use in a series of pulses while discharging material is recommended.

Details / Explanation:

- 3, 4 or 6 special injectors with check valve, for installation into silo cone.
- Plastic reinforced hose, air pressure reducing unit, assembled solenoid valve with mounting clamp for installation on silo cone or silo bracket.
- The pre cleaned air (max. operating pressure 5 bar) is connected on site with a suitable air hose. The air flows through the oil and water separator into the pressure reducing unit which throttles the air pressure to the necessary level. By activating the solenoid valve, the compressed air flows through the plastic reinforced hose to the check valves, which are located directly in front of the air injectors, to finally fluidize the bulk material.
- With on site mounted maintenance unit.



Air injector with 2x3 injectors



Cushion



Pulsator

