

Optimum Foreign Body Protection of the Mill with Minimum Manpower Requirements AIR GRAVITY SEPARATOR AGS AD

The air gravity separator AGS AD is used for aspiration of the hammer mill and, at the same time, for continuous separation of foreign particles of all kinds. With pneumatically actuated magnets and flaps, the foreign particles are cleaned off fully automatically and discharged into a collecting screw in a time-controlled manner. The collecting screw discharges the material through a side pipe. To ensure pressure shock resistance, the pipe is closed by a flap during discharge. Optionally, a separate control system monitors this process.

Your Advantages

Efficient Foreign Body Separation

- Two extra strong permanent magnets for the separation of magnetic foreign bodies
- Cross-flow sifting for separation of non-magnetic foreign bodies and heavy parts
- Air flow can be adjusted to the product characteristics with vanes
- Fully automatic cleaning of the magnets and emptying of the foreign part catch tray (pneumatically operated)
- · Discharge of foreign bodies via an integrated screw conveyor
- Discharge of foreign bodies via a pipeline at the side of the mill, e.g. into a collection container

Reliable Operation and Long Service Life

• Robust welded steel construction for continuous industrial operation (24/7)



• The foreign body separator is ideally suited in combination with our screw feeders TTS for optimum charging of the hammer mill

High Availability

- Avoidance of mill downtimes in case of damage by foreign bodies
- Fully automatic cleaning without the need for personnel

High Safety of Personnel and Plant

- Pressure shock resistant and flameproof design (0.4 bar)
- ATEX design according to zone 21 (II 2 D) inside and 22 (II 3 D) outside optionally possible
- Pressure shock resistance also ensured during the cleaning process by a pipe flap

Technical Details

Туре	AGS 650 AD	AGS 800 AD	AGS 1000 AD	AGS 1200 AD
Throughput capacity at 0.6 t/m ³ (t/h)	55	63	80	92
Throughput (m³/h)	90	105	132	154
Air volume (m³/min)	95	110	140	176
Dimensions and Weight				
Working width (mm)	650	760	960	1112
Installation height (mm)	1095	1095	1095	1095
Width (mm)	830	980	1180	1380
Depth (mm)	695	695	695	695
Weight (kg)	480	500	560	600
Drive				
Gear motor screw (kW)	0.18	0.18	0.18	0.18
Compressed air supply (approx. bar)	6	6	6	6

Tietjen Verfahrenstechnik GmbH Vor der Horst 6, D-25485 Hemdingen +49 (0) 41 06 / 6333-0 info@tietjen-original.com www.tietjen-original.com Version 09/2023, subject to change



Standard Supply and Options

Standard Scope of Supply:

- Pressure shock resistant up to 0.4 bar and flameproof
- 2-stage magnetic cascade, magnets can be actuated pneumatically for cleaning
- · Cross-flow sifting with adjustable vanes
- Pneumatically operated foreign body catch tray
- Discharge screw with gear motor
- Pipe at the side of the mill with pneumatically operated flap
- Air inlet with sound absorbing cover
- Multilayer coating

Option:

Α

- Aspiration air valve A-Vent for explosion isolation of the inlet for the aspiration air: If a dust explosion inside the hammer mill occurs, the A-Vent closes and isolates against the ambient
- ATEX design according to zone 21 (II 2 D) inside and zone 22 (II 3 D) outside
- · On-site control for the cleaning cycle





Pneumatically actuated magnets for cleaning



B Pneumatically emptiable foreign body catch tray











Side pipe for discharging the foreign bodies

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