




**ATOM
FACILITY**

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European leader
on industrial aspiration and
ventilation

EQUIPMENT FOR DUST
REMOVAL AND VENTILATION

A wide-angle photograph of a large industrial workshop. The space is filled with various pieces of machinery, including large metal presses, grinding wheels, and workbenches. Several workers in blue uniforms are visible, engaged in different tasks. The workshop has a high ceiling with large windows and several large, dome-shaped pendant lights hanging from the ceiling. The floor is concrete, and the walls are made of brick and metal.

Own production
aspiration and ventilation
systems



**ATOM
FACILITY**

- Own production
- Guarantee
- Service

Better solutions global
equipment
manufacturers

ATOM Facility s.r.o offers equipment for dust removal, ventilation and aspiration of own production Patented local filters, cylindrical sleeved filters own production, sleeves, aspirational hoses father cyclones

All the Company's equipment has a warranty manufacturer 3 years

Company uses in own products the best the world technologies and accessories leading of the world manufacturers

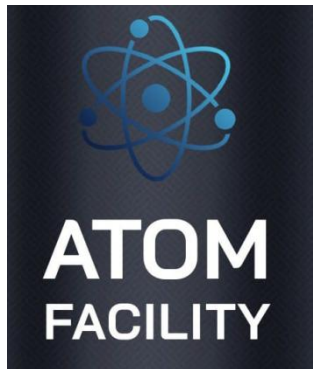
Equipment for dust removal and ventilation

Cylindrical sleeve filters

Local filters

Systems of dedusting of landfill pits

Centrifugal dust collectors (or cyclones)



Department of grain logistics



Center of dust formation

Receiving devices;
Places overflow;
Technical equipment;
Holidays devices



Dust removal system

Centralized;
Cylindrical sleeve filter;
Centrifugal dust collectors;
Local filter;
Zavalnyi pit

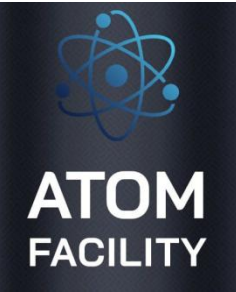


Clean Air

Improvement of working conditions;
Preservation of people's health;
Prevention of dust explosions;
Improvement of the technological process;
Increased service life technological equipment;
Improvement of the ecological situation;
Compliance with legislative norms regarding dust emissions.

Equipment
for
dust removal -
guarantee
clean air

Advantages of our products



- **Body material :**

Galvanized steel or steel ordinary quality plus "powder" painting

- **Air regeneration system:**

Camozzi or Mecair

- **Air preparation system:**

Camozzi or Mecair

- **Filter material:**

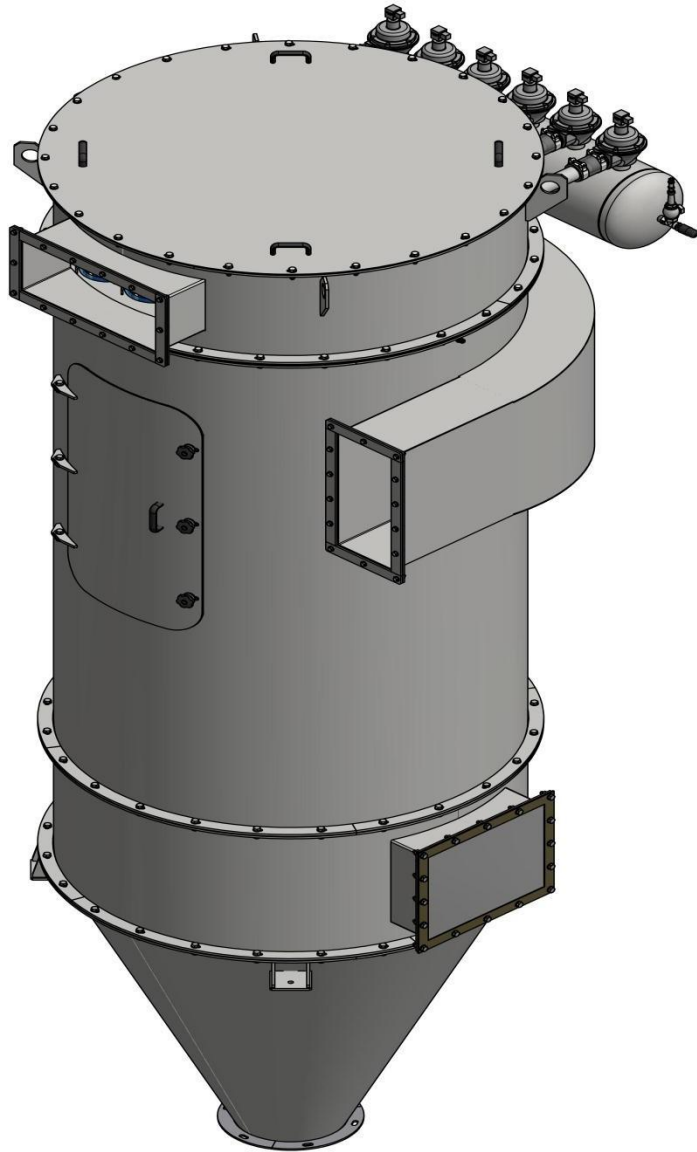
Antistatic, moisture-repellent oil, PES 500

- **Automatics :**

Camozzi

Control unit IP56, sensor presence of pressure, drop sensor pressure

Options and configurations



- *Body made of stainless steel or ordinary steel with high-quality powder coating;*
- *Explosive discharge membrane;*
- *Fan ATOM Facility s.r.o;*
- *Condensate drain automatic Camozzi;*
- *Explosion-proof execution of Camozzi, Mecair;*
- *Compressor Turkey (Dalgakiran);*
- *Silencer.*



**ATOM
FACILITY**

Cylindrical bag filter

Ecological and effective

- *Efficiency of cleaning dusty air - 99.0-99.5%;*
- *Optimal use of the entire filtering surface;*
- *A low level of load compared to analogues on filter sleeves, which increases their service life;*
- *Reduction of load due to sedimentation of large particles under the action of centrifugal force at the entrance to the filter before reaching the sleeves;*
- *Effective, impulse system of regeneration of filter sleeves;*
- *Residual dustiness of the air up to 20 mg / m³ (norm - no more than 50 mg / m³);*
- *Possibility of use for explosive dust;*
- *Compact design, which allows installation in limited conditions;*
- *Ease and convenience during installation and maintenance;*
- *The possibility of installation, both in the middle of the room and outside;*
- *Long service life due to strong and reliable construction.*



Scope / Advantages



Application in centralized aspiration networks for dust removal:

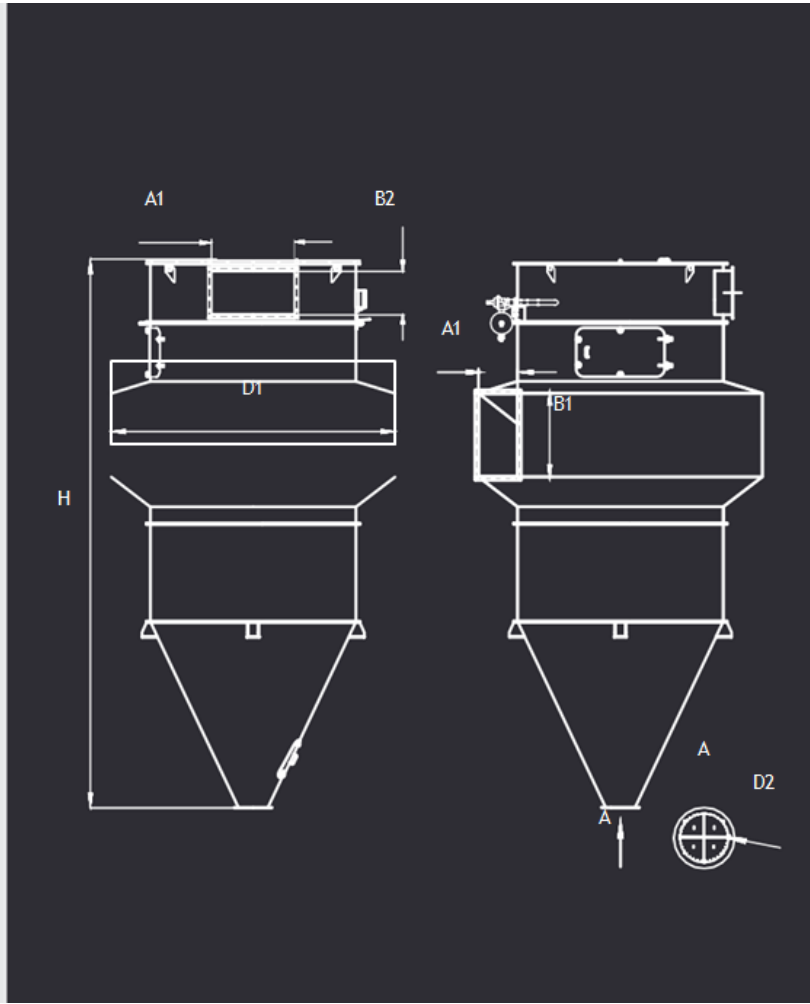
1. *receiving devices (from road and rail transport);*
2. *places of overflows of transport equipment (shoes of noriy, bulk trays and dump boxes conveyors, etc.);*
3. *technological equipment (scalpers, separators, dryers, weighing equipment, etc.);*
4. *release devices (for road and rail and water transport).*

- ✓ *separation of dust and light product impurities;*
- ✓ *The possibility of returning dust back into the product;*
- ✓ *Combining several sources of dust formation into one aspiration system;*
- ✓ *Reducing the number of sources of dust emissions at the enterprise .*

Cylindrical bag filter

Main technical characteristics:

Characteristics							
Model	Productivity, m3/h	Area, m2	Weight, kg	Compressed air flow, l/min	Pa	Regeneration	
JC-1520	1000-3200	14	400	160	1200	Pulse/mechanical	
JC-3224	4000-8000	33	900	180	1200	Pulse/mechanical	
JC-5225	7500-12500	52,8	1150	220	1200	Pulse/mechanical	
JC-5230	9000-15000	63,4	1200	260	1200	Pulse/mechanical	
JC-8830	18000-25000	107,2	2000	300	1600	Pulse/mechanical	
JC-10932	25000-34000	142,4	2500	320	1800	Pulse/mechanical	
Dimensions							
Model	A1	B1	A2	B2	H	D1	D2
JC-1520	155	345	195	150	3010	960	230
JC-3224	200	450	495	195	3915	1250	300
JC-5225	300	600	660	350	4300	1700	300
JC-5230	300	600	660	350	4820	1700	300
JC-8830	400	850	850	450	5600	2900	300
JC-10932	470	980	1100	470	6100	3260	300



Local filter



Effective dedusting of transport equipment



Bucket elevator shoe / bulk trays / belt and scraper conveyors / unloading carts / backfill pits

Point filters of the ATOM Facility s.r.o company are used for the direct removal of dust at the places of their formation. A slight decrease in pressure (vacuum), which is formed inside this filter, allows you to suck the required amount of air from partially or fully closed machine. The dust that settles on the filter sleeves is then returned to the product flow during regeneration, which is automatically supplied by pneumatic pulses. Clean air is removed from the filter using a fan through the clean air chamber.

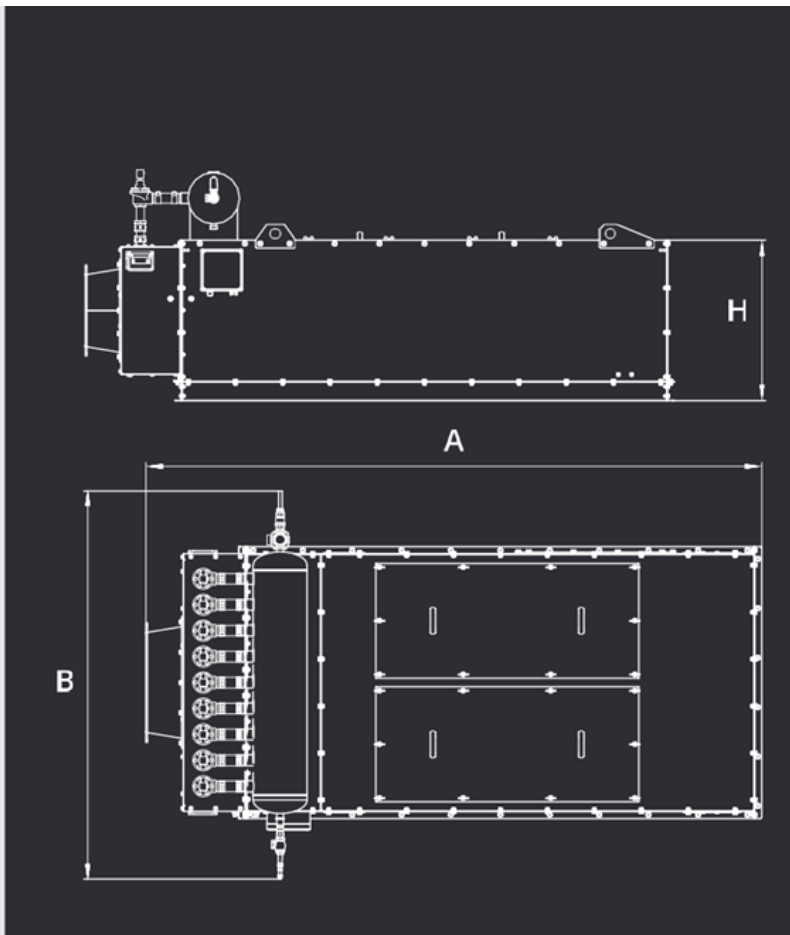
- ✓ *Air purification efficiency - 99.0-99.5%;*
- ✓ *Dust return to the product;*
- ✓ *Preservation of product mass;*
- ✓ *Exclusion of branched networks of air ducts;*
- ✓ *Reduction of energy consumption;*
- ✓ *Reduction of waste disposal costs.*

Local bag filter

Main technical characteristics:

Characteristics					
Model	Productivity, m3/h	Area, m2	Weight, kg	Compressed air flow, l/min	Resistance, Pa
JL-4	600-1000	4	100	160	1200
JL-6	1000-1500	6	120	160	1200
JL-9	1500-2200	9	200	160	1200
JL-12	2200-3000	12	220	160	1200
JL-16	3000-4000	16	240	320	1200
JL-18	4000-4500	18	260	320	1200
JL-20	4500-5000	20	280	320	1200

Dimensions			
Model	A	B	H
JL-4	1492	975	77
JL-6	1992	975	977
JL-9	1992	1185	977
JL-12	2492	1255	977
JL-16	2492	1465	977
JL-18	2492	1570	977
JL-20	2492	1675	977



Aspiration of clogged pits

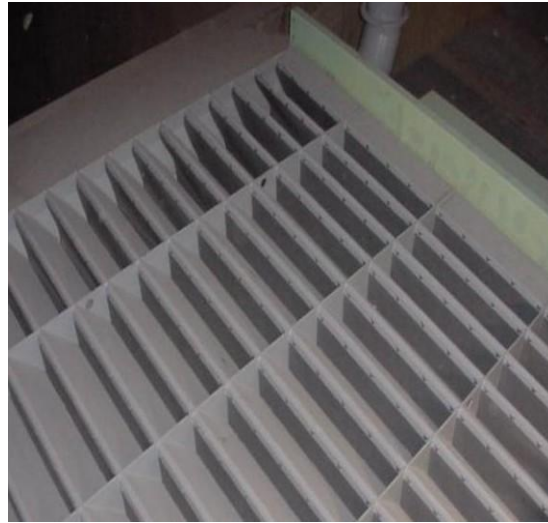
The dusty air formed in the receiving hopper enters the dusty air chamber, where the dust settles on the filter elements, and the purified air enters the purified air chamber and is discharged into the atmosphere with the help of an exhaust fan. The amount of dust accumulated on the filter elements is removed from the process or returned back to the transporting product with the help of a regeneration system (self-cleaning).

- *operates when the receiving hopper is full;*
- *high degree of air purification - 99%;*
- *the possibility of connecting to existing centralized compressed air systems;*
- *low consumption of compressed air;*
- *reliability of operation and ease of maintenance;*
- *lack of additional equipment (sluice gate, unloader, etc.);*
- *preservation of the weight of the transported product;*
- *easy and quick installation;*
- *compact dimensions;*
- *small packaging;*
- *operation at a temperature range from -50 to +60 (provided that the air preparation complies with the technical regulations specified in the product passport);*
- *Short payback period.*



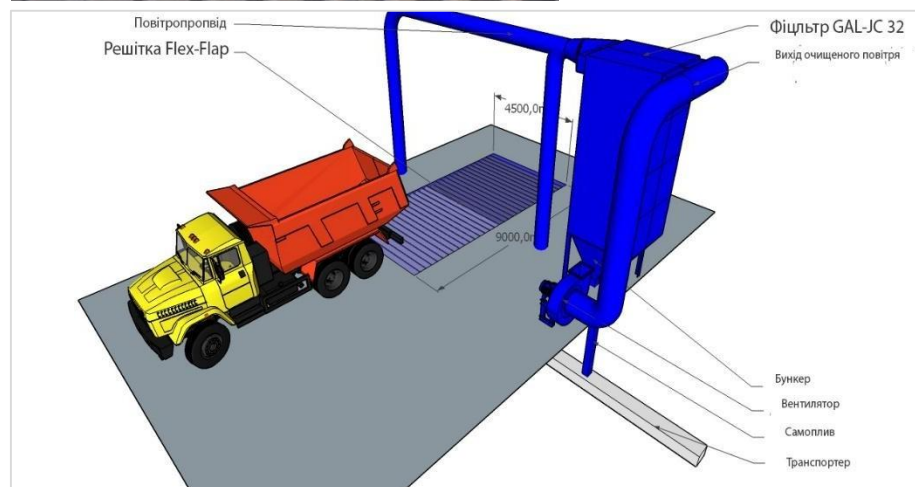
Flex flap

Aspiration of the hopper of receiving devices

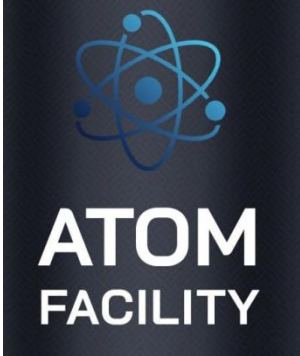


Flex-flap aspiration bunker receiving devices

- Variants of execution of the Flex system:
- St3 steel 6 mm and MBS rubber 4 mm;
- Hardox steel 4mm and polyurethane.

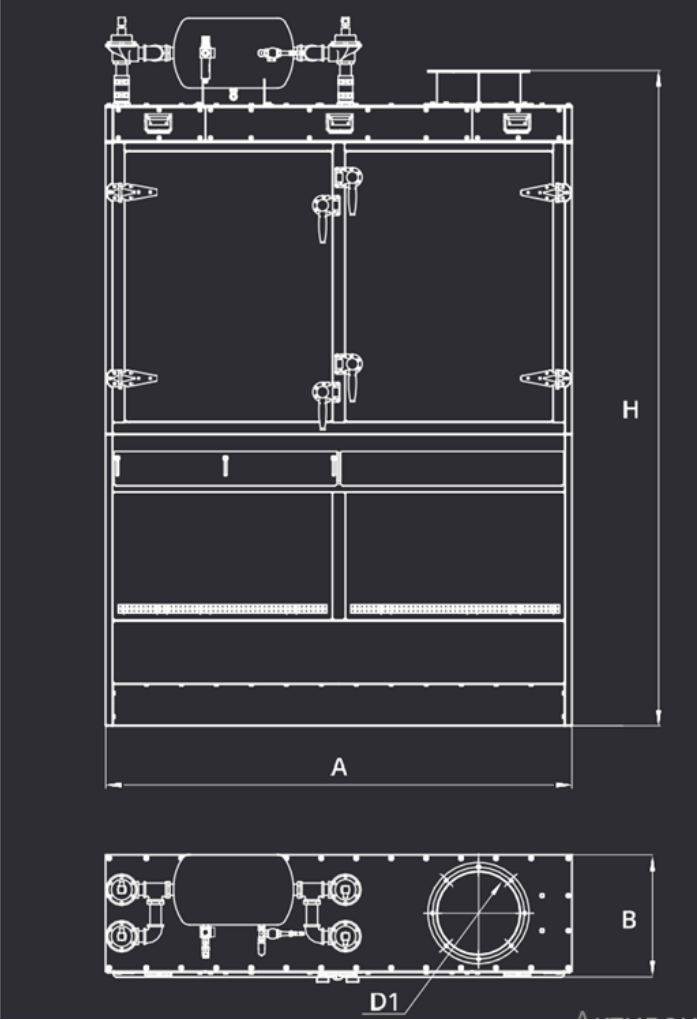


Filter cabinet aspiration of receiving devices



Characteristics					
Model	Productivity, m3/h	Area, m2	Weight, kg	Compressed air flow, l/min	Resistance, Pa
JW-20	5000	20	540	320	1200
JW-40	10000	40	1050	320	1200

Dimensions				
Model	A	B	H	D1
JW-20	2075	500	3035	355
JW-40	4000	500	3035	355

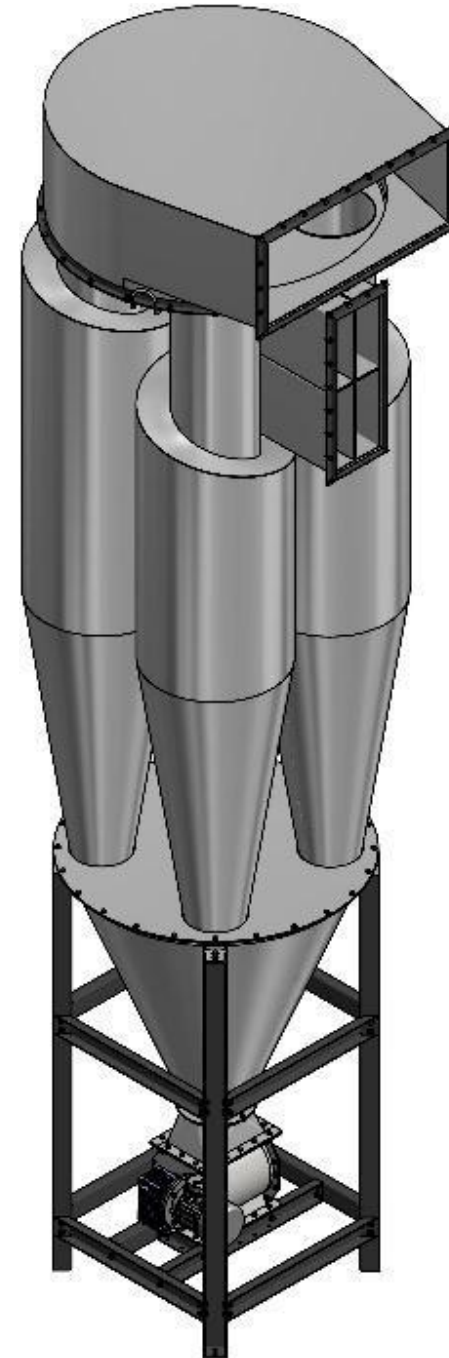


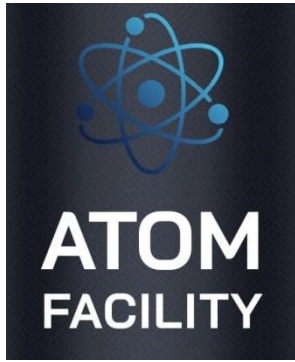
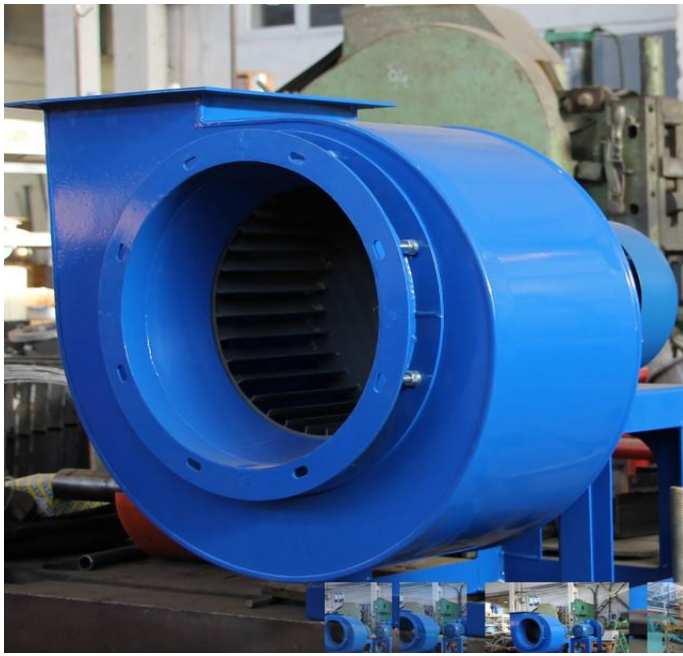
Centrifugal dust collectors

Economical and simple

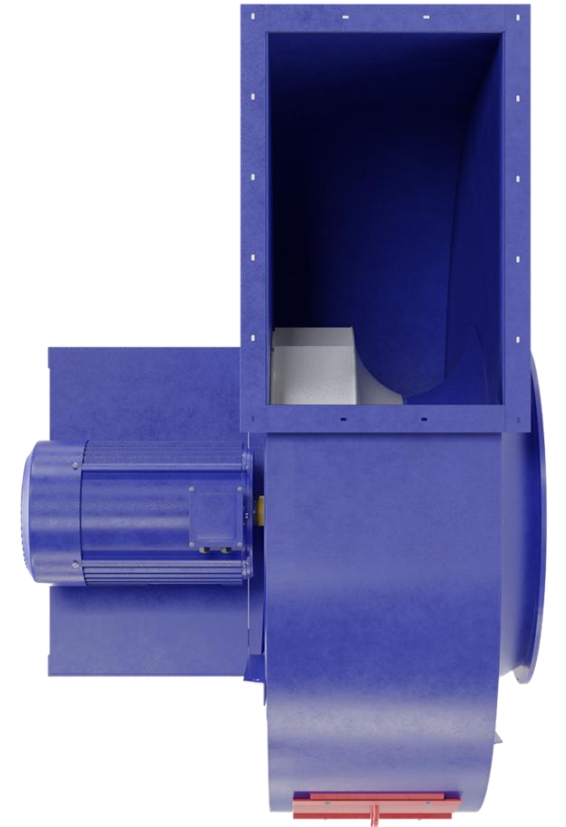
Cyclones are widely used for cleaning all types of dust due to the simplicity of their design, operational reliability and economy. The principle of operation of the cyclone is based on the notification of rotational motion to the air flow and the use of centrifugal forces to extract dust from the flow.

- ✓ *The efficiency of dusty air cleaning is 97.0-98.0% (for medium and large fractions of dust);*
- ✓ *Simplicity of design;*
- ✓ *Reduction of costs for preparation and supply of compressed air;*
- ✓ *Possibility of use for explosive dust;*
- ✓ *Ease and convenience during installation and maintenance;*
- ✓ *The possibility of installation both indoors and outdoors;*
- ✓ *Long service life thanks to a strong and reliable design;*
- ✓ *Application at low initial concentrations of dust to ensure regulatory emissions (not more than 50 mg/m³);*



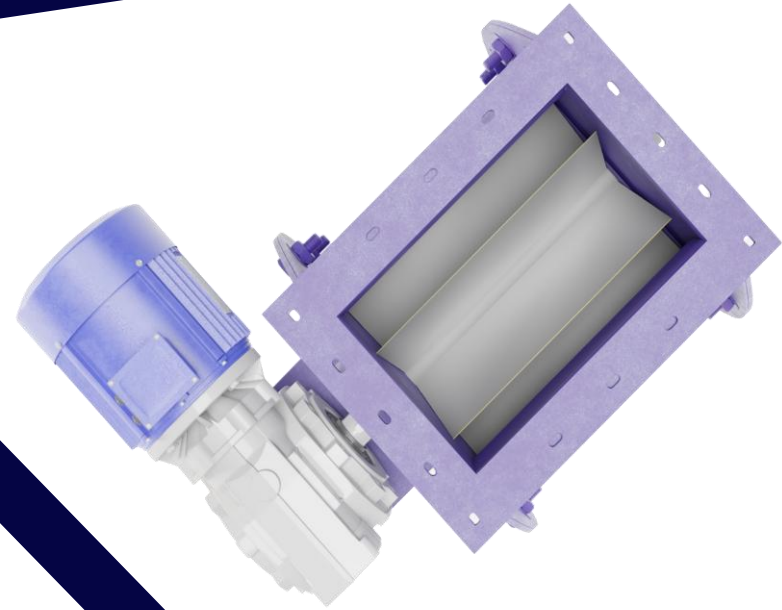
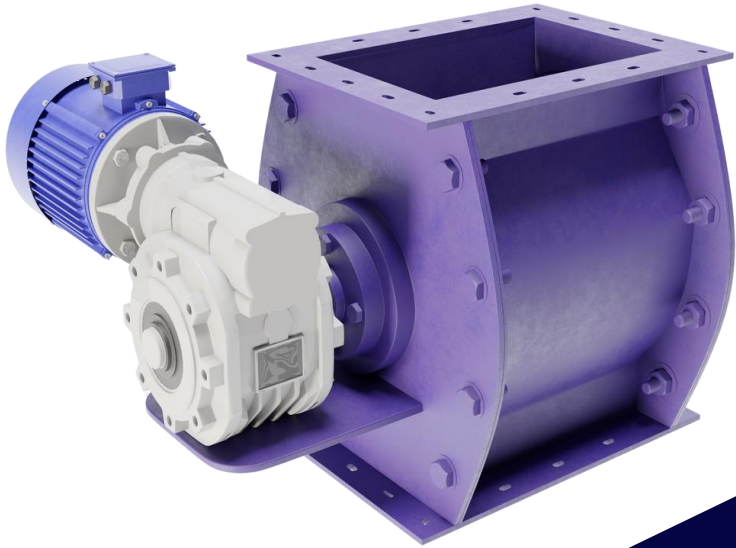


AXIAL FANS
DUST FANS
HIGH PRESSURE RADIAL FANS
LOW PRESSURE RADIAL FANS
MEDIUM PRESSURE RADIAL FANS
ROOF FANS



SLUICE FEEDER

A **sluice feeder** is a mechanical device used to regulate and control the flow of bulk materials (such as coal, ash, sand, or other granular substances) from one chamber to another, typically under pressure or within a closed system. It operates through a gate or sliding mechanism that opens and closes to allow measured amounts of material to pass through.



DO NOT DELAY!!!

**CONTACT THE SPECIALISTS IN
THE FIELD OF DUST REMOVAL
AND VENTILATION**



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