



Mixing & Cleaning

**GEBR. RUBERG**

**MASCHINENFABRIK**

ORIGINAL – SINCE 1848

**RUBERG**

Gutter dust extraction

■ RGE series

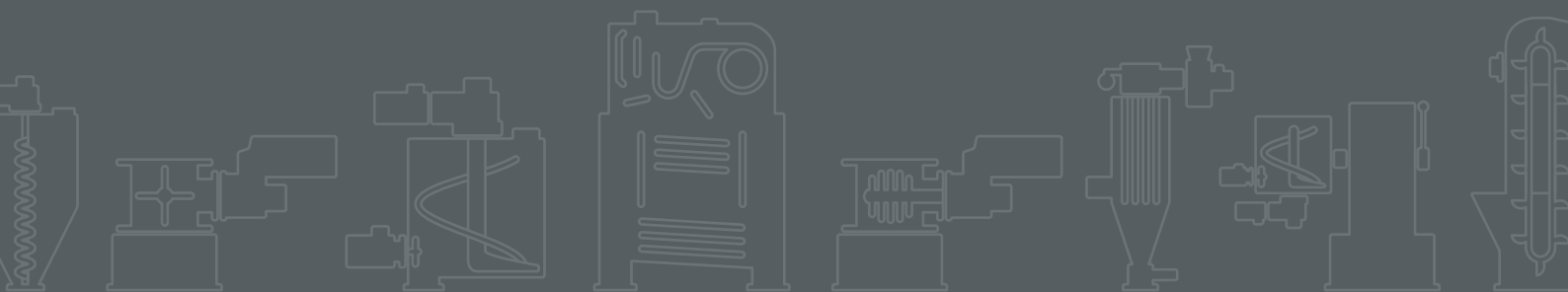
Technical data sheet and product overview

Areas of application:

- ▶ Food
- ▶ Animal feed

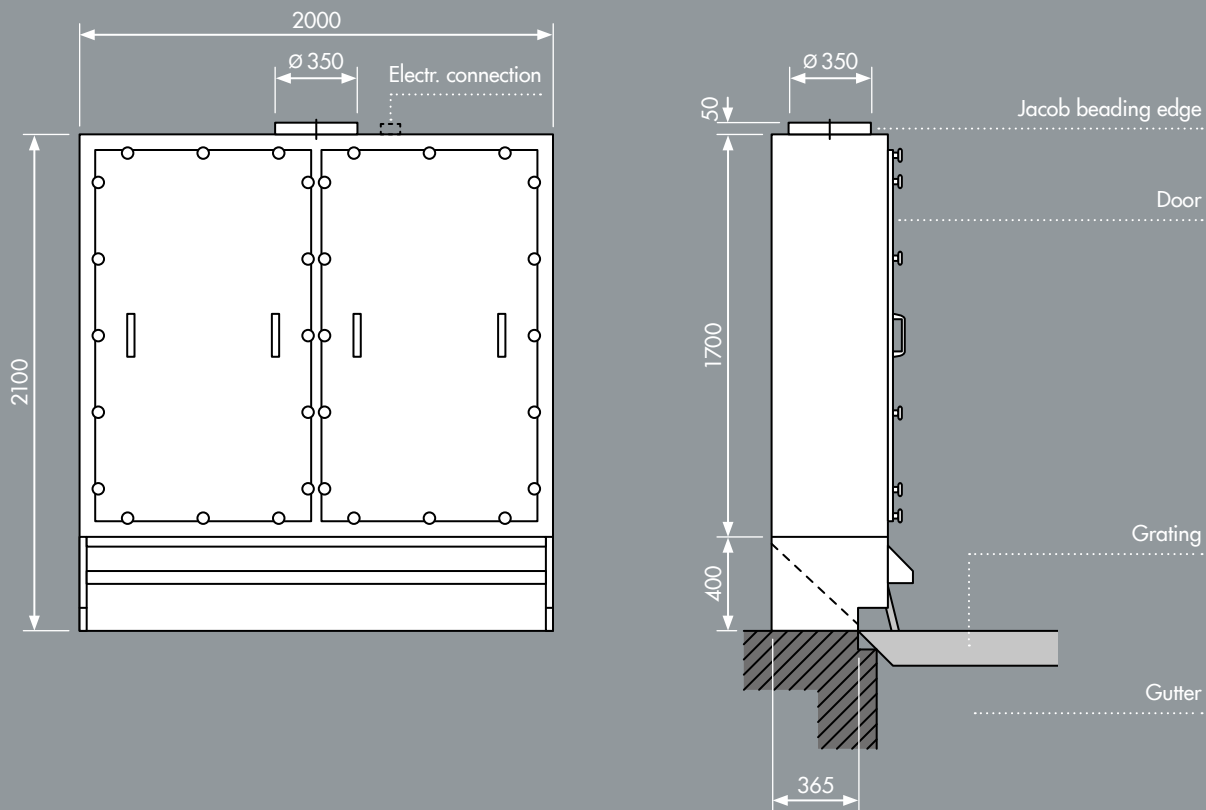


Suction power for dust-free environment



RESEARCH | DEVELOPMENT | DESIGN | ENGINEERING | SERVICE

# Gutter dust extraction plants | RGE series



## Design variants & mode of operation

RUBERG gutter dust extraction plants are available as vibrating hose extraction wall, jet hose extraction wall or as extraction wall with decentralised filter system.

RUBERG lamella dumping gutter: Receiving gutters with high frequency can be equipped or retrofitted with an additional lamella system. This sealing system closes off the grate system at the top in such a way that no dust-air mixture can escape.

When using the RUBERG lamella dumping gutters, fewer modules are required for the suction power of the gutter dust extraction plant, resulting in lower investment and energy costs.

For all design types, the MAC values are far below the required standard.

The exhaust air can be led outside, e.g. via a silencer and a deflector hood. An air curtain as a circulating air lock in the access area is another way to use the exhaust air.

# GUTTER DUST EXT

# RGE

## RUBERG

### Applications

Our high-absorption solution for low emissions when delivering dust-intensive bulk materials.



# TRACTION PLANTS

# Extraction plants | Vibrating hose extraction wall

## Mode of operation

The system has a modular design, i.e. a cabinet module (2000 mm width x 2100 mm height x 500 mm depth) consisting of the extraction cascade, the filter bag row, the vibrating beam with unbalance motor, inspection doors and the connection pipe. When a product is fed during the dumping process, the dust surge is directed into the inter-

rior of the filter bag row via the cascade. Dust and coarse particles remain on the walls of the hose row. The clean air is then fed to the outside through the connection pipe via fans. After the discharge is finished, the extraction system shuts down. The shaking mechanism starts and the product falls from the filter bag walls back into the feed gutter.



Feed input gutter 3 x 20 meters, with continuous RUBERG vibrating hose extraction wall.

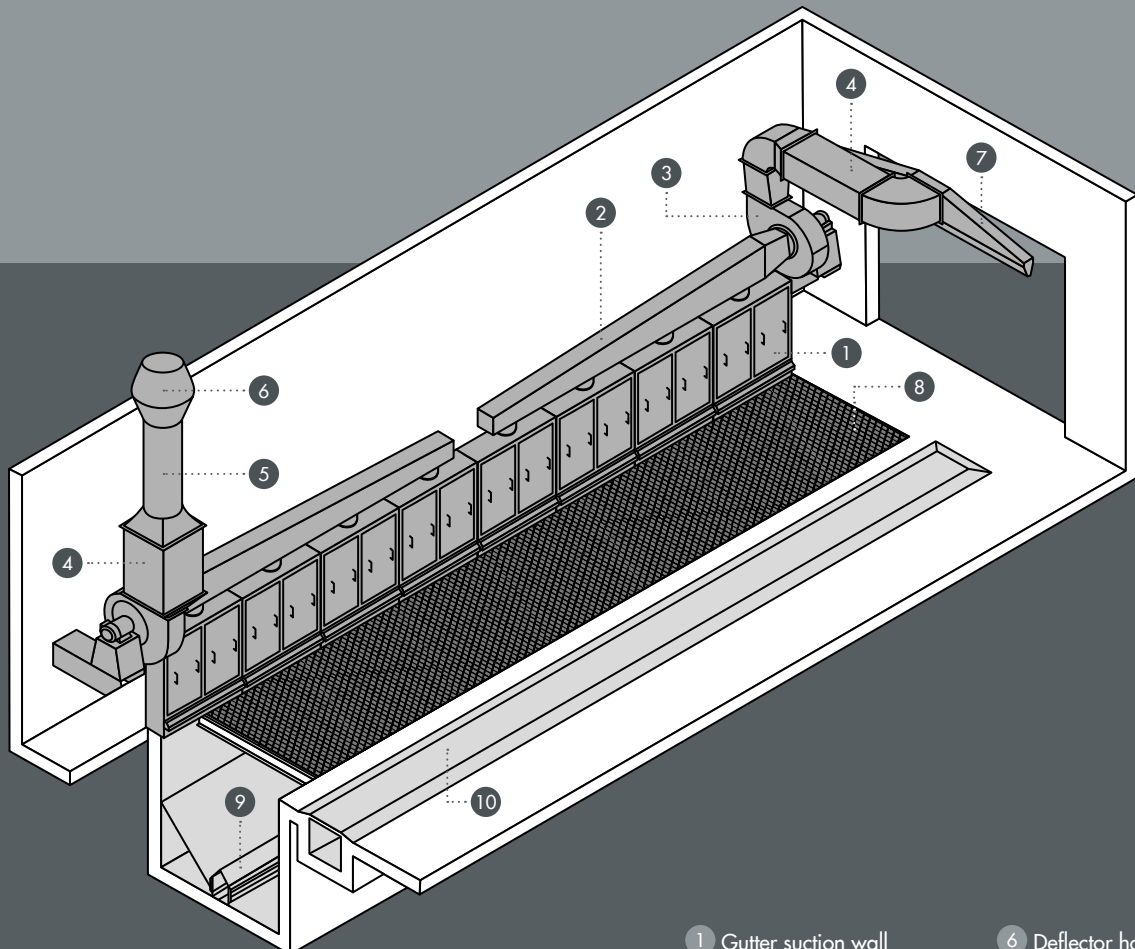
# Extraction plants | Jet hose extraction wall

## Mode of operation

This system also has a modular design, i.e. a cabinet module (2000 mm wide x 2100 mm high x 500 mm deep) consisting of the intake cascade, the filter hose rows, solenoid valves, compressed air accumulator, differential pressure gauge and filter control. When a product is fed during the dumping process, the dust surge is directed into the filter

bag row via the cascade. Dust and coarse particles remain on the outer walls of the hose rows. Compressed air pulses in counterflow, triggered by the differential pressure gauge and the filter control, clean the filter bags during the entire discharge process. The dust is constantly fed back down into the infeed chute.

## System illustration of a gutter dust extraction plant with direct filter system



- |                       |                         |
|-----------------------|-------------------------|
| 1 Gutter suction wall | 6 Deflector hood        |
| 2 Suction line        | 7 Recirculation nozzle  |
| 3 Centrifugal fan     | 8 Grating               |
| 4 Silencer            | 9 Trough chain conveyor |
| 5 Exhaust air duct    | 10 Lifting platform     |

# Extraction plants | Extraction wall with decentralised filter system

## Mode of operation

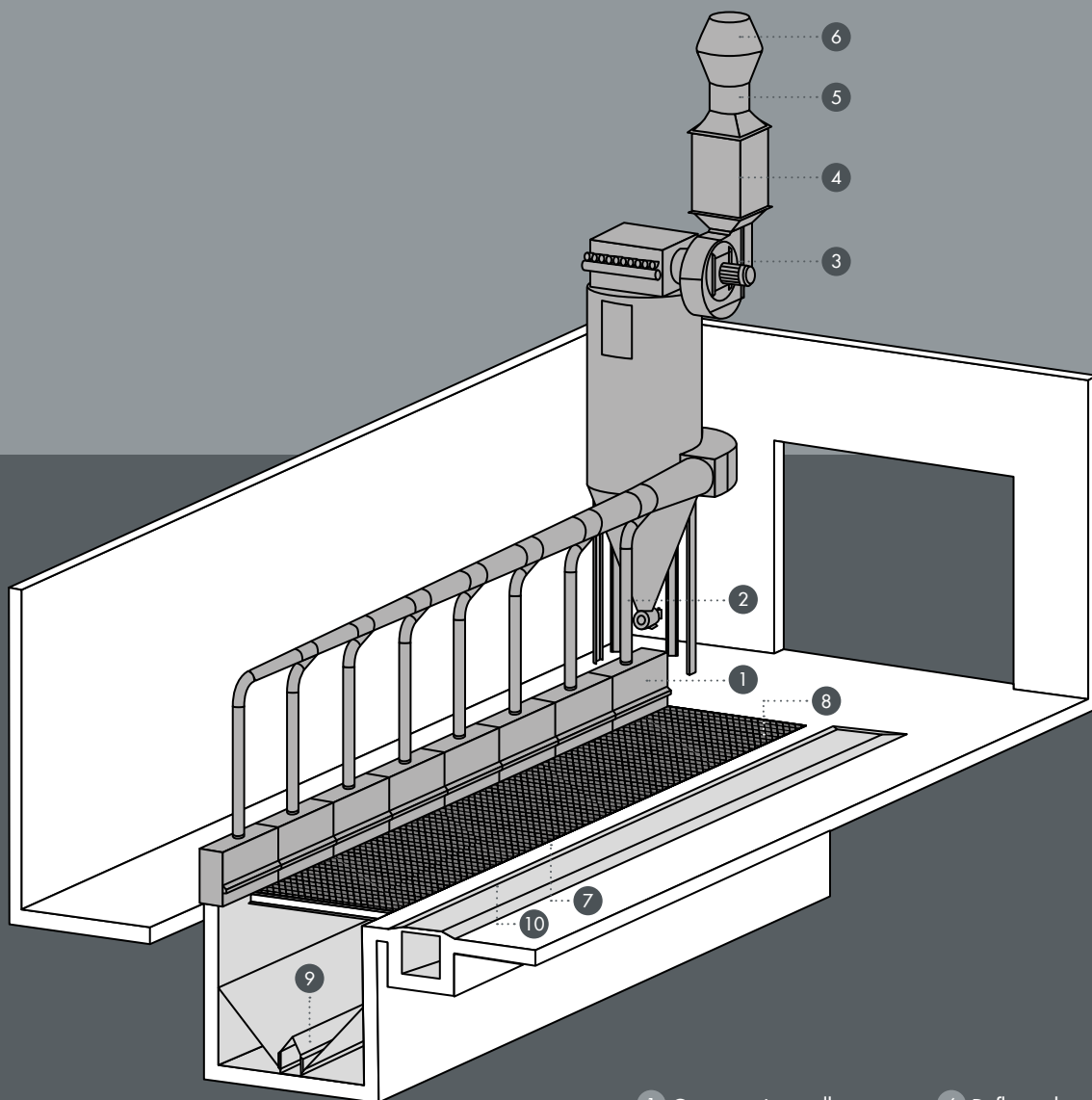
The input gutter contains only a sheet steel extraction cascade with an air collection line arranged above it, which is fed to a decentrally arranged RUBERG jet bag filter. Nozzle bag filter with radial fan directly downstream, silencer and

exhaust air pipe, with deflector hood at the end. The dust is separated in the filter and fed to further use via a RUBERG discharge sluice.



Grain input gutter 2.5 x 16 meters, with suction cascade and connecting pipe to a decentralised RUBERG jet bag filter.

## System illustration of a gutter dusting extraction plant with decentralised filter system



- |                       |                         |
|-----------------------|-------------------------|
| 1 Gutter suction wall | 6 Deflector hood        |
| 2 Suction line        | 7 Lamella sealing       |
| 3 Centrifugal fan     | 8 Grating               |
| 4 Silencer            | 9 Trough chain conveyor |
| 5 Exhaust air duct    | 10 Lifting platform     |

RUBERG Technology Centre

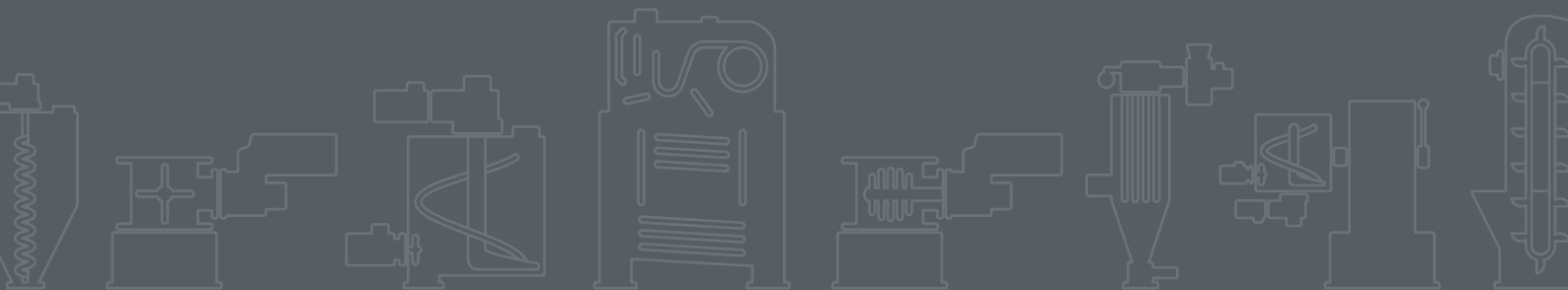


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Would you like more information about this RUBERG machine type? – Contact us, we will be happy to advise you!



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