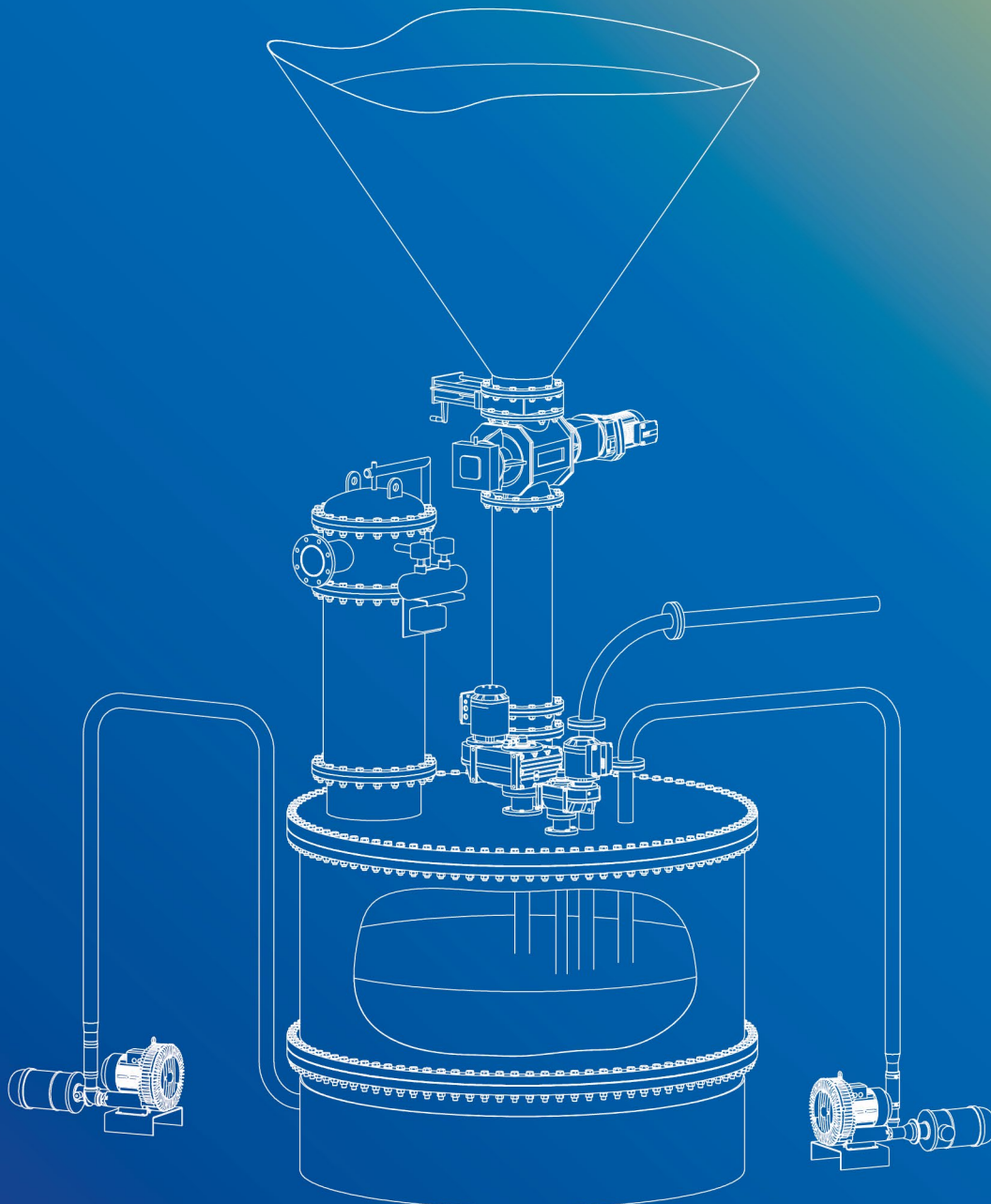


DOSAGE AND CONVEYOR SYSTEM

Infinitely variable, continuous and highly accurate dosing
to convey dusty materials



Areas of application

- Fuel dosage for rotary furnaces (e.g. in the cement industry)
- Defined fuel entry in lime kilns and furnaces such as hot gas generators or boilers
- Material dosage and transportation during processes

Applicability

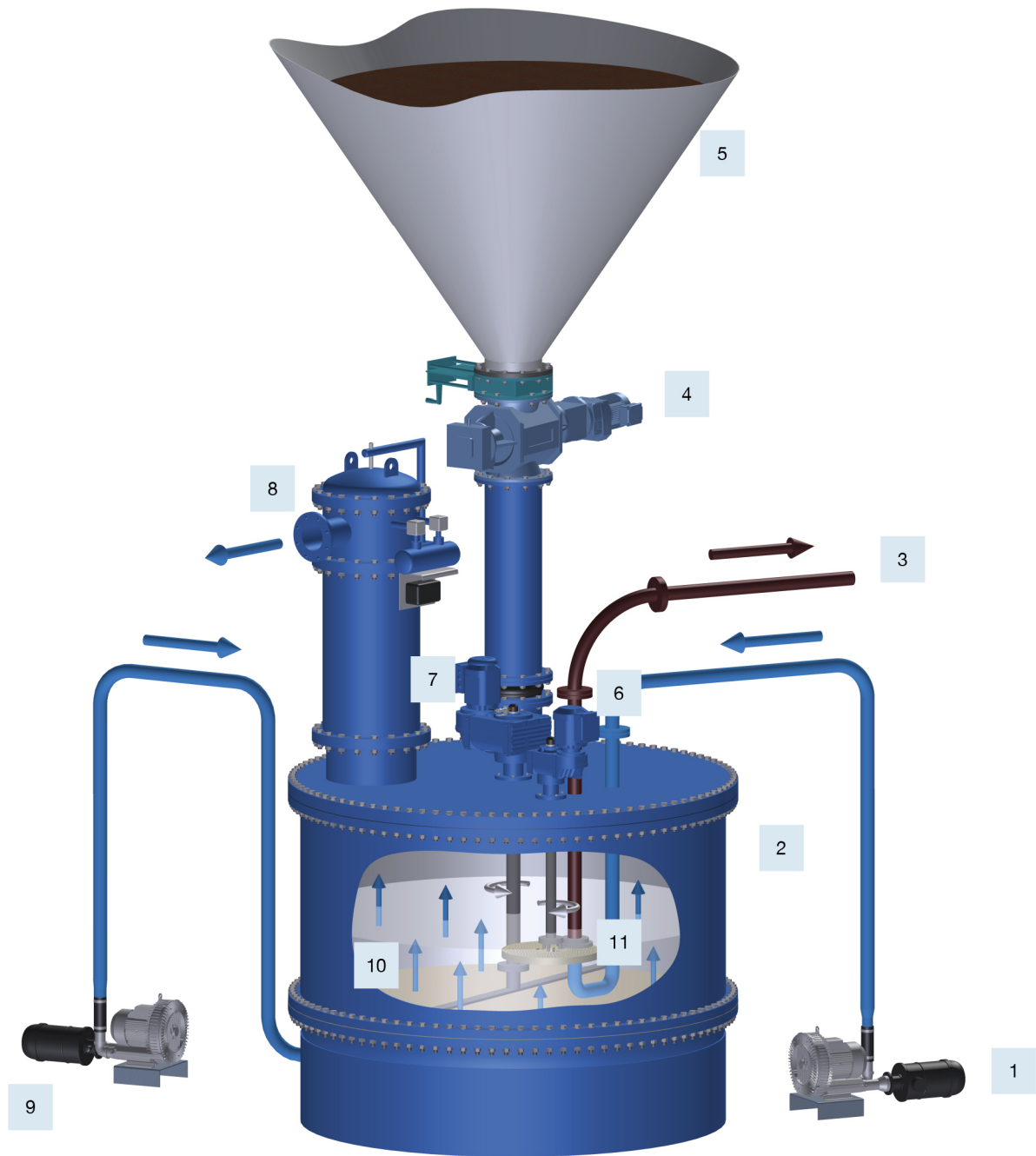
Dosage and conveying of dusty materials such as:

- coal dust
- petroleum coke
- lime
- fine lime
- hydrated lime
- kaolin
- wood dust
- Plastic dust
- biomass dust

Advantages at a glance

- highly accurate dosage and wide range of dosage
- uniform and pulsation-free transportation
- reliable and low-maintenance operation
- Flexible quantity and capacity of the built-in dosage unit in a dosage machine
- Self-contained PLC control with a data interface for BUS connection in an existing process control system.

Overview



- 1 Conveying air blower
- 2 Dosage container
- 3 Product discharge
- 4 Rotary valve with manual slide
- 5 Storage silo
- 6 Dosage disk drive

- 7 Stirrer drive
- 8 Top filter
- 9 Fluidiser air blower
- 10 Fluidised bulk material
- 11 Dosage disk

Functional description

The material to be dosed is entered by means of rotary valve from an upstream silo. In the dosage machine the material is transformed into a fluidized, i.e. liquid-like state by an air blower.

For dosing, a horizontally arranged perforated disc is located in the material as a dosing unit. This is driven by a speed-regulated motor. The fluidised material flows evenly into the cavities of the perforated disc and is discharged via a

conveying line out of the perforated disc via a carrier air stream. The dosage is always directly proportional to the engine speed.

Technical details

The machines are designed and dimensioned according to the customer's requirements, so the following basic data is only intended as a guide.

Dosage and conveying medium:	Powdered fluidisable fuels and bulk materials
Equipment:	In accordance with ATEX directives
Construction type:	Pressure shock resistant
Quantity of dosage points:	1 to 26
Flow rate:	up to 20,000 kg/h



CARBOTECHNIK

The company

Burner and dosage systems for powdery fuels/goods of CARBOTECHNIK are characteristic of mature and proven applications.

CARBOTECHNIK uses the high-grade development of a patented technology comprised of fuel preparation, fuel transport and combustion in co-ordinated proportions.

Our team develops the specially tailored approach for our customers. Manufactures, delivers and erects the plant.

Competent engineering services under strict compliance with our quality assurance system; optimal work preparation and modern manufacturing methods guarantee highest quality technical products.



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