



Disk pelletizer

Processing of materials with
difficult pelletizing properties



The Pioneer in Material Processing®

pelletizing technology

In cooperation with

agglo:tec

CEMTEC

Cement & Mining Technology

Production of uniform pellets made of powders, fine-grained materials, or molten materials.

Disk pelletizers are used for the production of uniform pellets made of powders, fine-grained materials, or molten materials. They can be used to achieve specific product characteristics, such as a narrow grain size range, high or low bulk density, or many others. The wide range of available settings and equipment variants makes it possible to process materials with difficult pelletizing properties.

Function

- The rotating disk is mounted on a tiltable frame. The material is fed in continuously from the top through a feed opening.
- Liquid is sprayed in through adjustable nozzles mounted on the cover of the disk pelletizer.
- Granules are produced through a combination of the rolling movement of the material on the disk and the sprayed-in liquid.
- The grain size is determined by the tilt of the disk and the amount of liquid added, as well as by other parameters.
- The rolling movement ensures that larger grains rise to the surface, where they are continuously discharged from the edge of the disk into an emptying trough.

Features

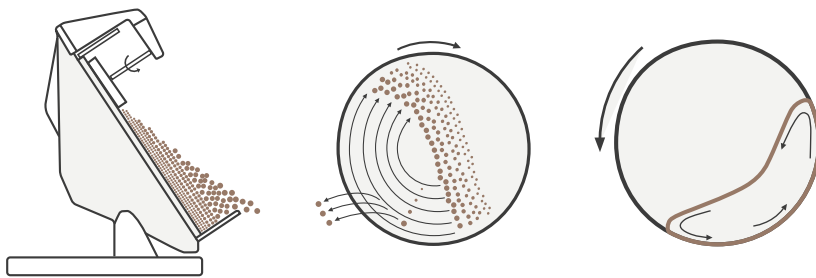
- The tilt of the disk can be adjusted within a certain range in order to achieve optimum results.
- The emptying position of the disk is designed to enable complete emptying.
- The bottom of the disk pelletizer is continuously cleaned with the aid of rotating scrapers.
- Manual or motorized tilt adjustment for the disk pelletizer.
- Disk pelletizer with cover and extraction connections.

Advantages

- Wall and bottom scrapers with wear protection for a long service life
- Central lubricating system
- Easy maintenance

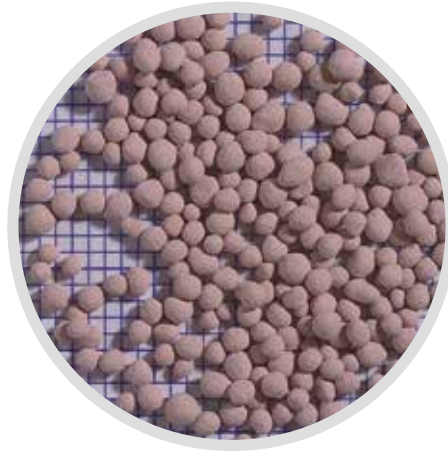
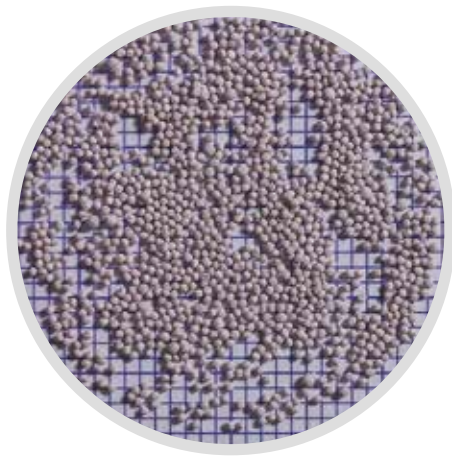
Options

- Disk pelletizers are available with different wall heights
- Freely adjustable disk pelletizer speed

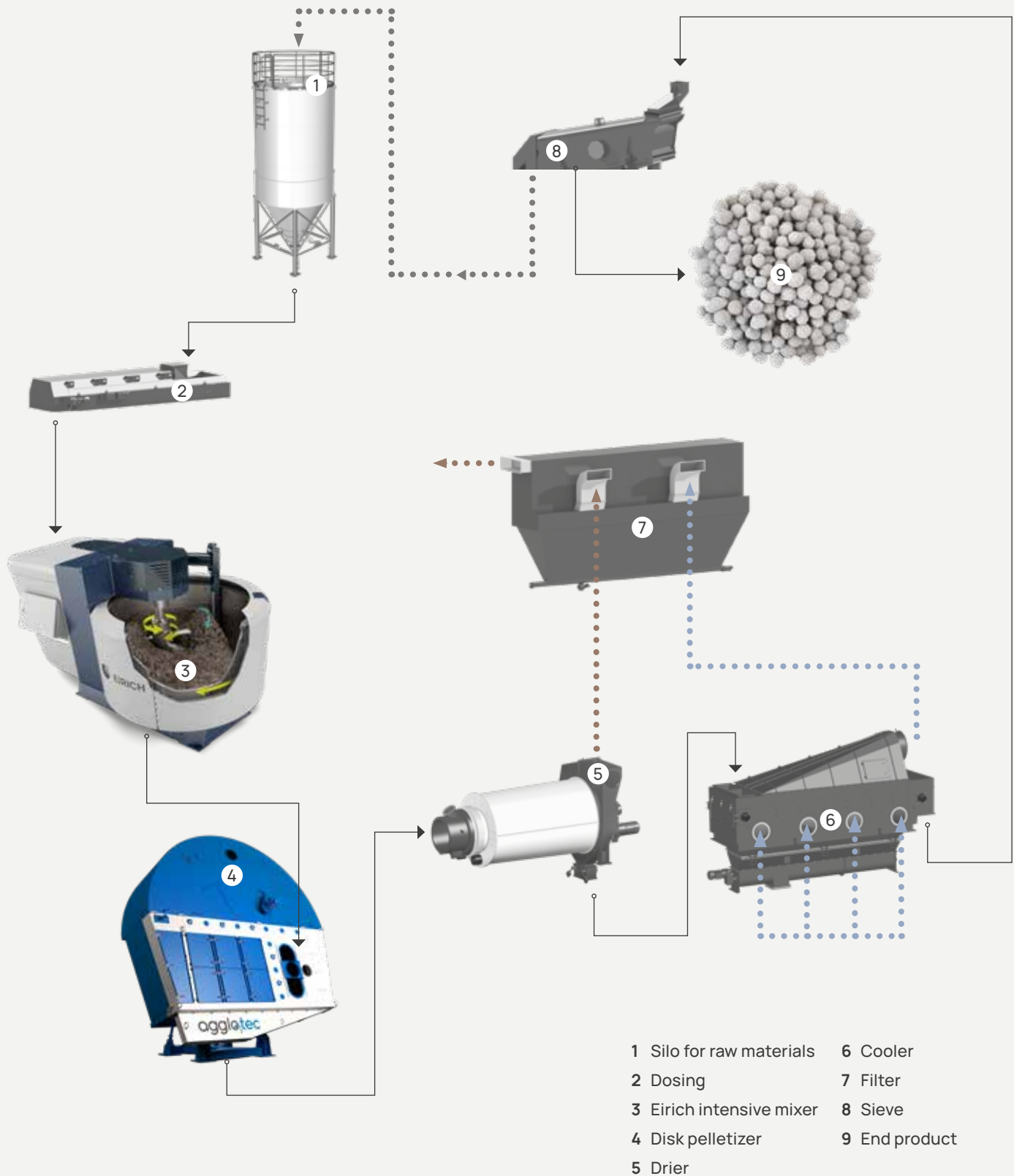


Movement of the material in the disk pelletizer

Examples of pellets



Typical granulating process



Disk pelletizer available in customer-specific design

Eirich can supply tailor-made solutions designed to meet any customer requirements.

Features

- Open disk systems – or fully-covered for dust-free operation
- Various scraper designs
- Adjustable tilt
- Robust mounting via slewing gear
- Central drive unit
- Central lubrication system
- Robust and durable design
- Easy to service
- Special features for special requirements



Size ø 120 x 30 cm



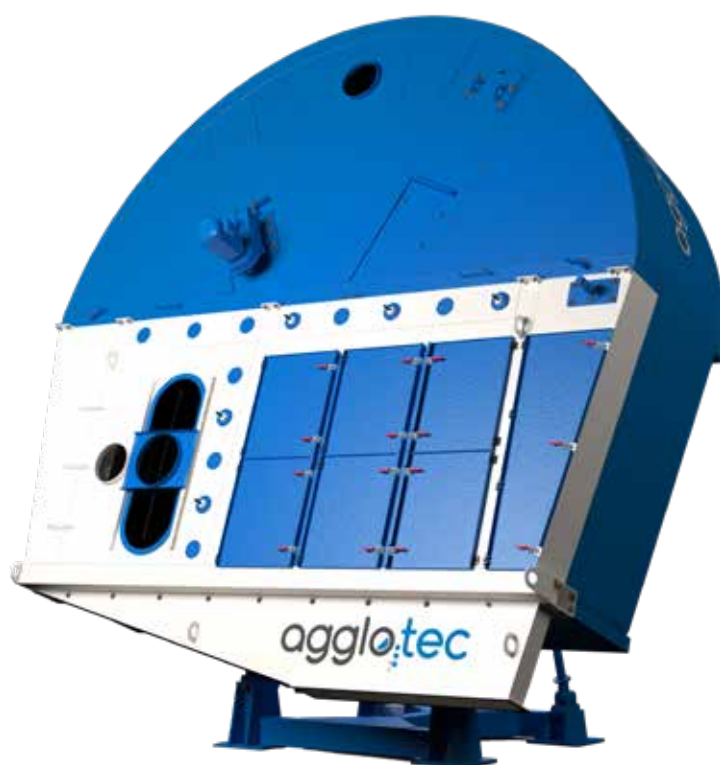
Size ø 200 x 40 cm

Standard disk pelletizer sizes

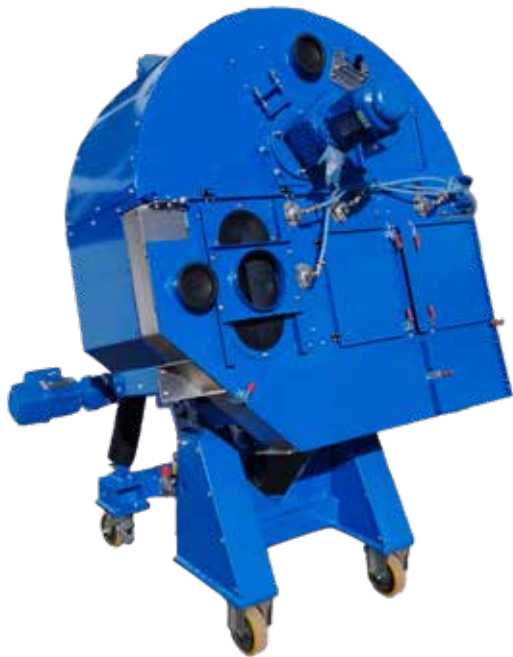
Type	Ø [mm]	Standard disk height [mm]
PPD-60x20	600	200
PPD-120x30	1.200	300
PPD-200x40	2.000	400
PPD-250x45	2.500	450
PPD-300x50	3.000	500
PPD-350x55	3.500	550
PPD-400x60	4.000	600
PPD-450x60	4.500	600
PPD-500x60	5.000	600
PPD-550x60	5.500	600
PPD-600x65	6.000	650
PPD-750x70	7.500	700



other sizes available on request



Size Ø 500 x 70 cm



Size \varnothing 120 x 25 cm



Size \varnothing 60 x 20 cm

From laboratory systems to large-scale series production

Solutions for a range of different applications

'Plug and play' solution for pilot lines or laboratory systems.
Perfect for tests and for upscaling to industrial scale.

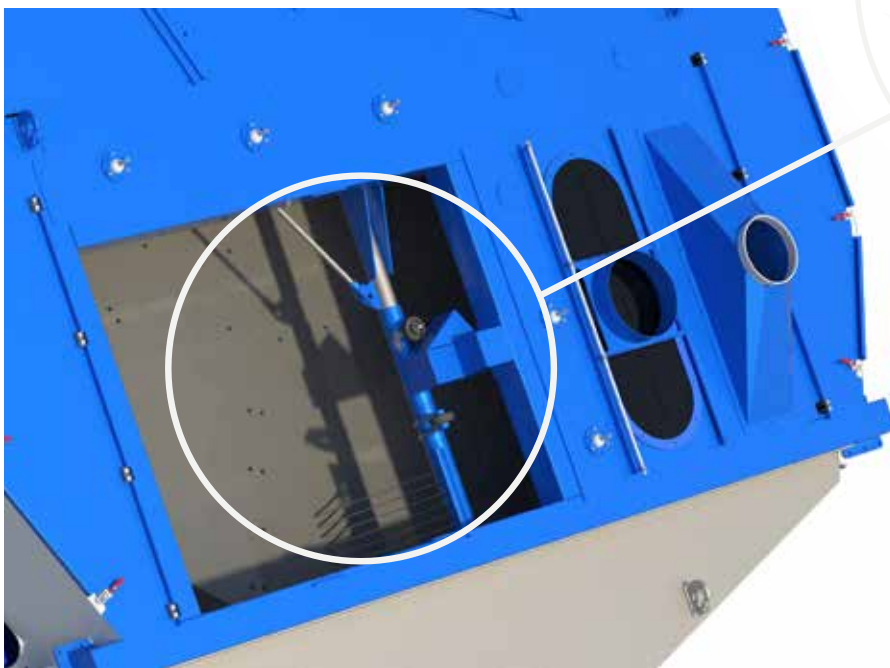


Disk pelletizer

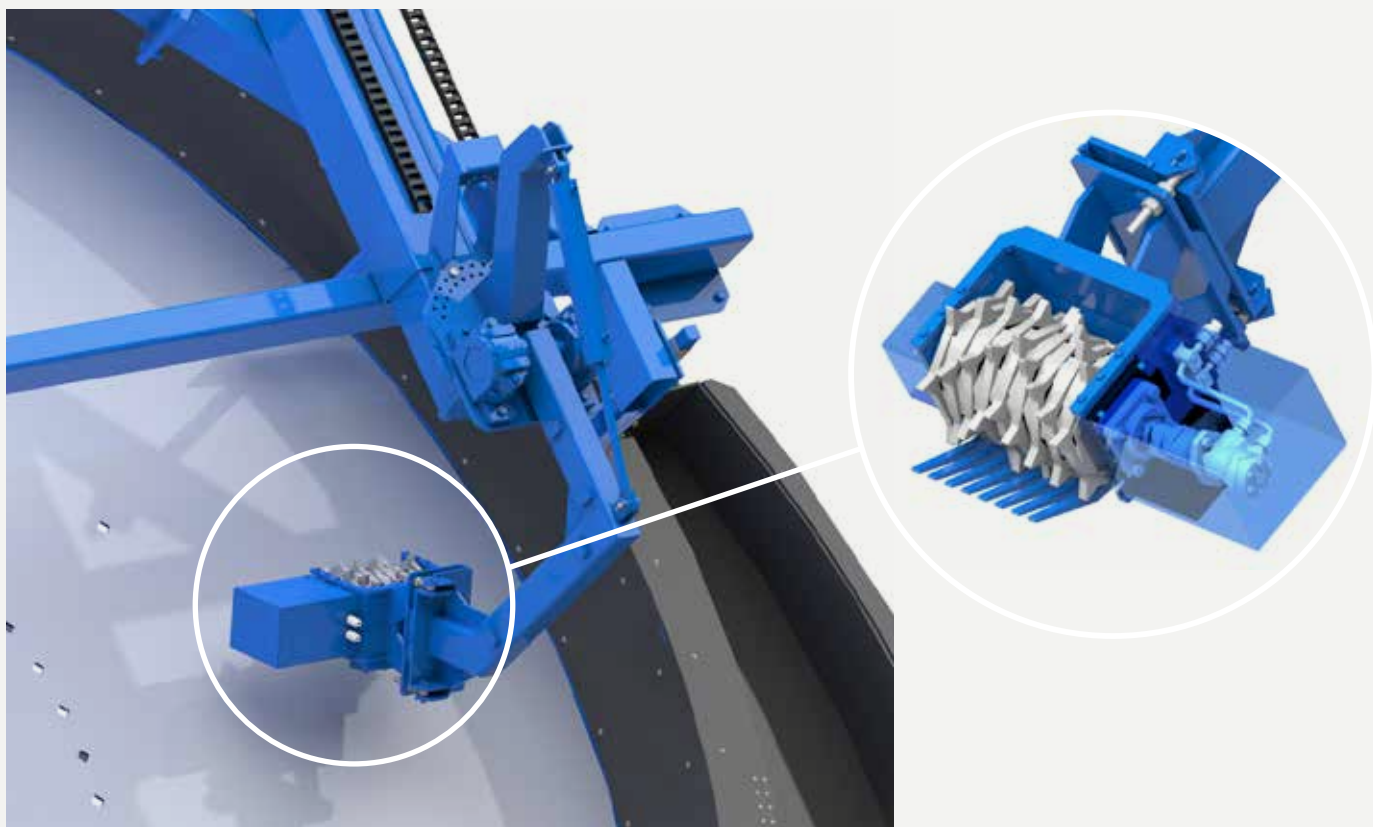
Special equipment options

Clump removal system for closed disk systems

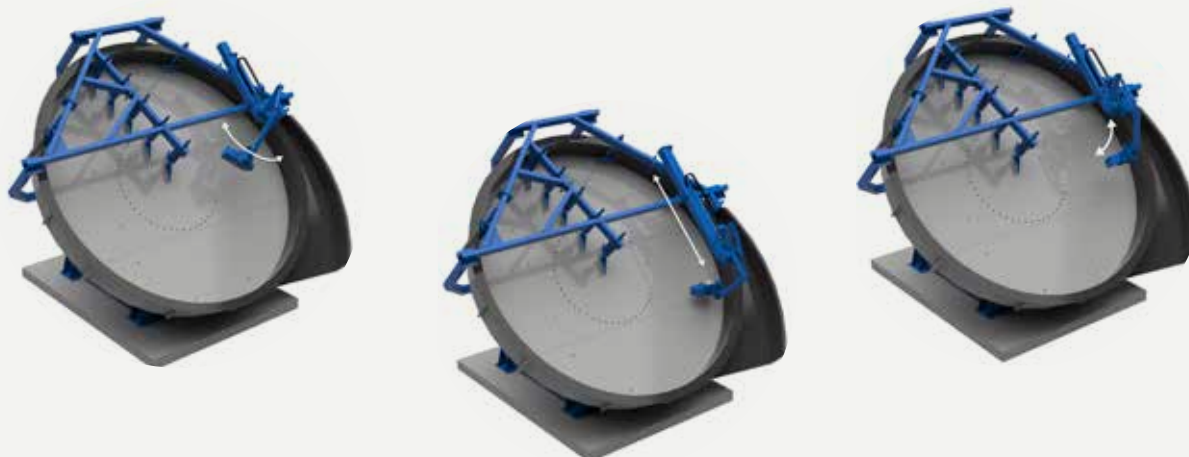
- Continuous, fully-automated clump removal device
- Pneumatic drive for industrial heavy-duty operation



Clump crusher
for open disk pelletizers



- Wide range of different positioning options for granulation applications
- Hydraulic drive
- High torque in both directions



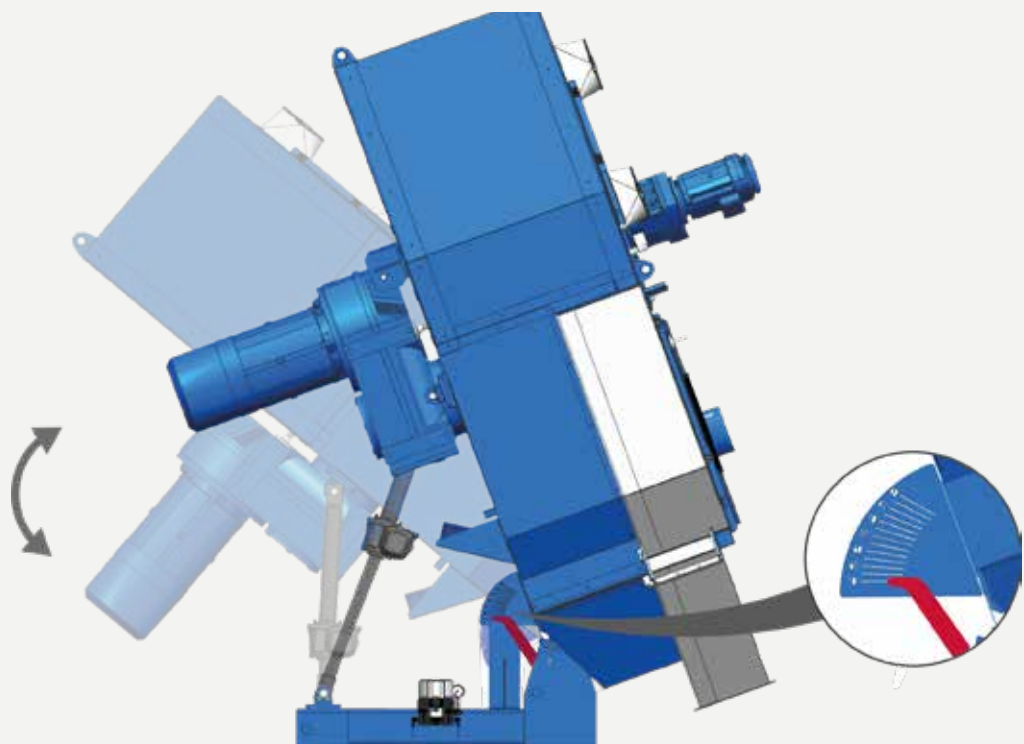
Various types of scraper

Static scrapers keep the side wall, side edge, and disk pelletizer bottom surface clean.

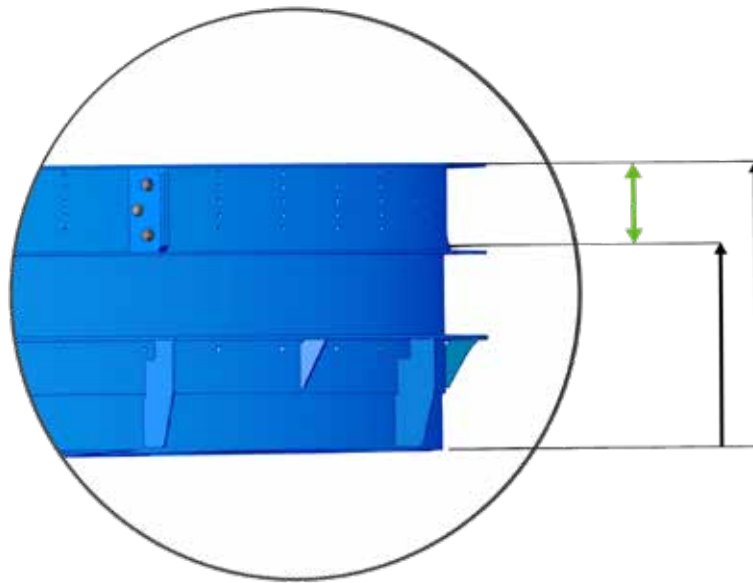


Automatic disk tilt adjustment via electric spindle drive

The design allows the disk pelletizer to be adjusted during operation.

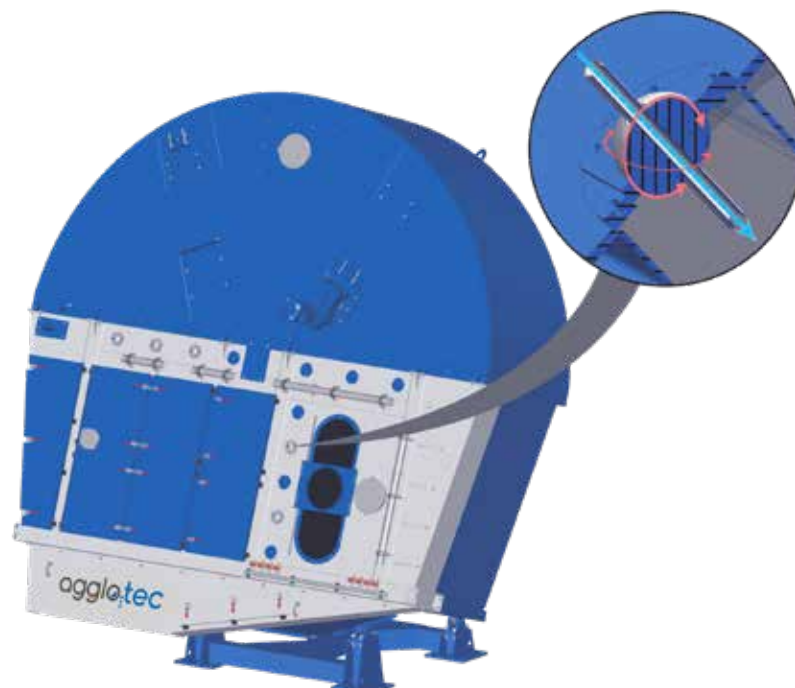


Manual adjustment of disk height



Dosing of liquids for perfect granulation

Flexible size and positioning for maximum efficiency and yield.



Qualimaster VC1

Main features

- Automatic adjustment of distance between measuring head and conveyor load
- Conveyor speeds of up to 1.5 m/s possible
- Particle sizes from 0.5 to 15 mm can be detected
- Up to 6 image acquisitions and analyses per minute
- All analysis functions accessible via browser window
- As a standalone device or integrated in the line control

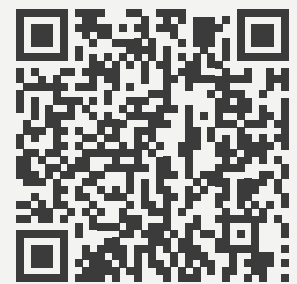


Further information about the VC1 can be found here.

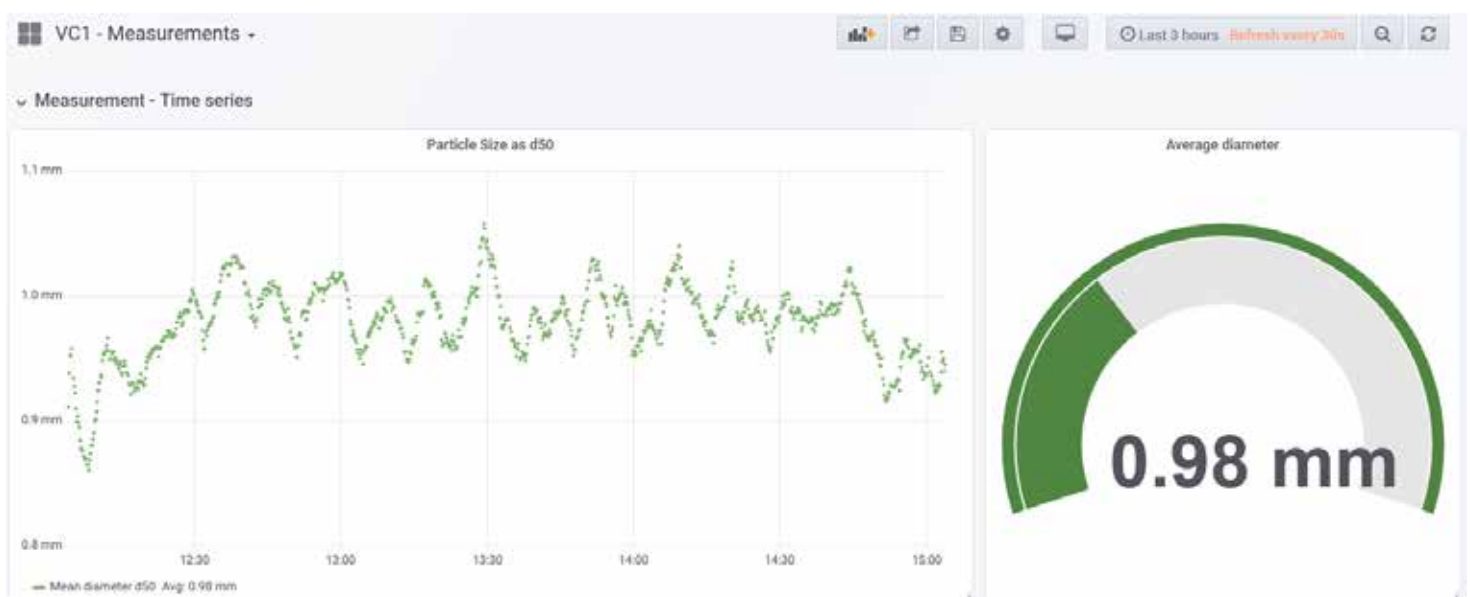
QualiMaster VC1 in detail



QualiMaster VC1 in industrial use



Digital solutions -
book an appointment now.





The Eirich Group, with Maschinenfabrik Gustav Eirich as its strategic center in Hardheim, is a supplier of machinery, systems, and services for industrial mixing, granulating/pelletizing, drying, and fine grinding. Our core expertise is in the field of processes and techniques used for the preparation of pourable materials, slurries, and sludges. We are a family-run company that operates 16 sites around the world.

For more information please visit:
www.eirich.com