

ROTATING SAMPLE DIVIDER PT 300



A faultless and comparable analysis is closely linked to accurate sample handling. Only a sample representative of the initial material can provide meaningful analysis results. Rotating sample dividers ensure the representativeness of a sample and thus the reproducibility of the analysis.

The rotating sample divider PT 300 is specially designed for representative, dust-free division and volume reduction of large amounts of powdered or granular bulk materials. The selection of different dividing modules determines the dividing ratio and the sample amount.

APPLICATION EXAMPLES

cement clinker, chemicals, coffee, construction materials, fertilizers, fillers, flours, grains, metals powders, minerals, nuts, sand, seeds, soils, washing powder, ...

PRODUCT ADVANTAGES

- | exact dividing, also of larger quantities
- | modular design
- | variable speed 18 - 53 min⁻¹
- | extraction of 4 - 10 samples for batch processing
- | extraction of 1 sample for continuous processing with reject
- | hopper design ensures easy flow control and cleaning
- | inspection window with light facilitates monitoring of sample division process
- | vibratory feeder with push-fit feed chute for easy cleaning
- | removable base frame allows for variable operation height

FEATURES

Applications	sampling, sample division, sample reduction
Field of application	agriculture, biology, chemistry / plastics, construction materials, engineering / electronics, environment / recycling, food, geology / metallurgy, glass / ceramics, medicine / pharmaceuticals
Feed material	bulk materials
Material feed size*	<= 30 mm
Rotary speed	18 - 53 min ⁻¹
Number of divisions	batch processing: 6 / 8 / 10 (depending on dividing module) processing with reject: 1
Time setting	digital
Volume of reject collector	40 l
Volume of segments	3,000 ml / 3,750 ml / 5,000 / 7,500 ml (depending on dividing module)
Adjustment vibratory feeder	digital
Electrical supply data	240 V, 50 Hz
Power connection	1-phase
W x H x D	1180 x 1510 x 750 mm
Net weight	~ 209 kg (incl. vibratory feeder)
Standards	CE

*depending on feed material and instrument configuration/settings

FUNCTIONAL PRINCIPLE

The sample is fed as a continuous stream at a controlled rate via the chute. Either one part sample is extracted or the stream is divided into equal segments by the action of a “circle” of segmental buckets rotating beneath it. The unit operates in accordance with internationally recognized sampling protocols and divides samples in a **representative and reproducible way**.

Two modules in one machine allow for both batch-processing and continuous sampling with reject. Due to a range of various segment size combinations a variety of volumes can be divided (no additional machine needed).

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