

ROTATING TUBE DIVIDER PT 200



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**. Rotary tube dividers ensure the **representativeness** of a sample and thus the **reproducibility of the analysis**.

The rotating tube divider PT 200 is the prerequisite for dust-free division and volume reduction of **larger bulk samples**. It is suitable for powdered or granular bulk materials. The slot width adjusts the ratio of the fractions and therefore the amount of sample.

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
- | adjustable dividing ratio
- | extraction of 1 - 3 samples
- | quick-release sample outlets and easy fastening of bottom cone
- | batch and continuous operation possible
- | speed-controlled rotating tube
- | direct digital connection for Vibratory Feeder DR 100
- | dividing process according to DIN 51701

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*	<= 10 mm
Rotary speed	50 min ⁻¹
Number of divisions	1 / 2 / 3 (depending on bottom cone)
Time setting	digital, 1, 3, 5, 10 - 60 min / continuous operation
Slot width, continuously adjustable	0 - 159 mm (1 sample outlet) 0 - 110 mm (2 sample outlets) 0 - 53 mm (3 sample outlets)
Max. dividing ratio	1 x 1:5 (1 sample outlet) 2 x 1:7,2 (2 sample outlets) 3 x 1:15 (3 sample outlets)
Min. dividing ratio*	1 x 1:26 (1 sample outlet) 2 x 1:26 (2 sample outlets) 3 x 1:26 (3 sample outlets)
Volume of reject collector	30 l
Container volume	250 ml / 500 ml
Electrical supply data	100-240 V, 50/60Hz
Power connection	1-phase
W x H x D	520 x 1050 x 551 mm / 572mm x 1307 x 551 incl. DR 100
Net weight	~ 46 kg (incl. DR 100)
Standards	CE

*depending on feed material and instrument configuration/settings

FUNCTIONAL PRINCIPLE

The material to be divided passes through the feed hopper via the chute of the vibratory feeder into the rotating tube divider. The total material stream is distributed evenly at a constant speed (50 min^{-1}) over the pitch circumference of the lower cone by the tube rotating within the upper cone. The interchangeable lower cones have one, two or three continuously adjustable sample slots. In the course of each rotation a separated quantity corresponding to the width of the slot is deposited in the sample collecting vessel. The rest passes into the reject container.



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