ROTATING TUBE DIVIDER PT 200

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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.

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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 continous operation possible
- speed-controlled rotating tube
- direct digital connection for Vibratory Feeder DR 100
- dividing process according to DIN 51701

APPLICATION EXAMPLES

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

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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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TECHNICAL DATA

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	26 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

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ORDER DATA

ROTATING TUBE DIVIDER PT 200

PT 200 drive unit
incl. 10 sample bottles 500 ml and collecting receptacle 26 litres
(please order vibratory feeder, feeding kit and bottom cone separately)

40.412.0004		PT 200 drive unit	100–240 V, 50/60 Hz

BOTTOM CONES AND ACCESSORIES PT 200

42.787.0010		Bottom cone with 1 quick-release sample outlet, GL 55 thread, slot width 159 mm, adjustable dividing ratio max. 1 : 5
42.787.0011		Bottom cone with 2 quick-release sample outlets, GL 55 thread, slot width 110 mm, adjustable dividing ratio max. 2 x 1 : 7.2
42.787.0012		Bottom cone with 3 quick-release sample outlets, GL 55 thread, slot width 53 mm, adjustable dividing ratio max. 3 x 1 : 15
22.003.0013		Collecting receptacle, 26 litres, plastic
22.523.0001		Sample bottles, GL 55 thread, 250 ml, 10 pieces
22.523.0002		Sample bottles, GL 55 thread, 500 ml, 10 pieces

ACCESSORIES PT 200

99.200.0022		IQ/OQ Documentation for PT 200

VIBRATORY FEEDER DR 100 PT 200

DR 100 drive unit (please order feeding kit separately)

70.938.0001		DR 100 drive unit	220–240 V, 50 Hz

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70.938.0002		DR 100 drive unit	110–120 V, 60 Hz
72.020.0022		Feeding kit DR 100/3.5 litres for PT 200, incl. push-fit feed chute 75 mm, holder for push-fit feed chute, hopper 3.5 litres, fixture for hopper and data cable	
72.020.0023		Feeding kit DR 100/22 litres for PT 200, incl. push-fit feed chute 75 mm, holder for push-fit feed chute, hopper 22 litres, fixture for hopper and data cable	

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