



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. The PT 300 is available in configurations for the division of either 30 l or 60 l sample material.



[Click to view video](#)

PRODUCT ADVANTAGES

- | Exact division, also of large quantities
- | Modular design
- | Variable speed 18 - 53 rpm
- | 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



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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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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*	≤ 30 mm
Rotary speed	18 - 53 min ⁻¹
Hopper volume	depending on configuration: up to 30 l / 60 l
Number of divisions	30 l configuration: batch processing: 4 / 6 / 8 / 10 (depending on dividing module) processing with reject: 1 60 l configuration: batch processing: 4 / 6 / 8 / 10 (depending on dividing module) processing with reject: 1
Time setting	digital
Volume of reject collector	70 l
Volume of segments for batch wise operation	30 l configuration: 3,000 ml / 3,750 ml / 5,000 / 7,500 ml (depending on dividing module) 60 l configuration: 6,000 ml / 7,500 ml / 10,000 / 15,000 ml (depending on dividing module)
Adjustment vibratory feeder	digital
Electrical supply data	100-120 V, 50/60 Hz; 200-240 V, 50/60Hz
Power connection	1-phase
Power consumption	500 VA
W x H x D	30 l configuration: 1180 x1510 x 750 mm 60 l configuration: 1180 x1620 x 750 mm
Net weight	30 l configuration: ~ 209 kg (incl. vibratory feeder) 60 l configuration: ~ 230 kg (incl. vibratory feeder)
Standards	CE

*depending on feed material and instrument configuration/settings

www.retsch.com/pt300

ORDER DATA

ROTATING SAMPLE DIVIDER PT 300

Rotating Sample Divider PT 300

(please order hopper and dividing module separately)

41.005.0003		PT 300	200–240 V, 50/ 60 Hz	drive unit incl. vibratory feeder
41.005.0004		PT 300	100–120 V, 50/ 60 Hz	drive unit incl. vibratory feeder

other electrical versions available for the same price

HOPPER PT 300, STAINLESS STEEL

23.785.0023	Hopper PT 300, stainless steel, 30 l capacity
23.785.0024	Hopper PT 300, stainless steel, 60 l capacity

DIVIDING MODULES AND ACCESSORIES OF STAINLESS STEEL (FOR FEEDING UP TO 30 L)

23.011.0004	Dividing module for 6 part samples for batch processing
03.011.0054	Spare bucket for dividing module for 6 part samples
23.011.0003	Dividing module for 8 part samples for batch processing
03.011.0053	Spare bucket for dividing module for 8 part samples
23.011.0002	Dividing module for 10 part samples for batch processing
03.011.0052	Spare bucket for dividing module for 10 part samples
23.011.0001	Dividing module for 1 part sample and reject receptacle for continuous processing
03.011.0048	Spare bucket for continuous dividing module

additional dividing modules upon request

DIVIDING MODULES AND ACCESSORIES OF ALUMINUM (FOR FEEDING UP TO 30 L)

23.011.0021	Dividing module for 4 part samples for batch processing
03.011.0099	Spare bucket for dividing module for 4 part samples

23.011.0022 Dividing module for 8 part samples for batch processing

03.011.0101 Spare bucket for dividing module for 8 part samples

additional dividing modules upon request

ACCESSORIES PT 300

Push-fit chutes

02.729.0077 Push-fit chute standard



02.729.0068 Push-fit chute for fine samples < 15 mm



DIVIDING MODULES AND ACCESSORIES OF STAINLESS STEEL (FOR FEEDING UP TO 60 L)

03.011.0115 Dividing module for 4 part samples for batch processing

03.011.0114 Spare bucket for dividing module for 4 part samples

03.011.0041 Dividing module for 6 part samples for batch processing

03.011.0077 Spare bucket for dividing module for 6 part samples

03.011.0042 Dividing module for 8 part samples for batch processing

03.011.0076 Spare bucket for dividing module for 8 part samples

03.011.0043 Dividing module for 10 part samples for batch processing

03.011.0075 Spare bucket for dividing module for 10 part samples

23.011.0001 Dividing module for 1 part sample and reject receptacle for continuous processing

03.011.0048 Spare bucket for continuous dividing module

additional dividing modules upon request

DIVIDING MODULES AND ACCESSORIES OF ALUMINUM (FOR FEEDING UP TO 60 L)

23.011.0020 Dividing module for 4 part samples for batch processing

03.011.0098 Spare bucket for dividing module for 4 part samples

23.011.0023 Dividing module for 8 part samples for batch processing

03.011.0100 Spare bucket for dividing module for 8 part samples

additional dividing modules upon request