

SAMPLE DIVIDER PT 100



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

The sample divider PT 100 divides the sample so exactly that the **composition of each fraction of the sample corresponds exactly to that of the original bulk sample**. This applies both for fine-powdered and coarse materials. The material feed and dividing processes take place **automatically, without interruption and without loss of material**. The Sample Divider PT 100 has a **modular design** and can be put together to suit individual requirements. It offers an **extremely flexible** range of possible applications. A feeder, various dividing heads, sample receptacle vessels and further useful accessories are available in addition to the drive unit.

APPLICATION EXAMPLES

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

PRODUCT ADVANTAGES

- | high division accuracy to suit modern analytical devices
- | modular design
- | automatic material feed via synchronized feeder
- | quick-release clamping system for simple and rapid handling of sample bottles
- | digital time setting
- | speed is monitored and kept constant
- | wide range of accessories including various dividing heads, collection and feeding systems
- | compact, easy to clean

FEATURES

Applications	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
Batch size / feed quantity*	<= 5000 ml
Rotary speed	110 min ⁻¹
Number of divisions	6 / 8 / 10
Time setting	digital, 1, 3, 5, 10 - 60 min / continuous operation
Container volume	30 ml / 100 ml / 250 ml / 500 ml
Electrical supply data	100-240 V, 50/60Hz
Power connection	1-phase
W x H x D	580 x 910 x 420 mm (incl. DR 100)
Net weight	~ 33.5 kg (incl. DR 100)
Standards	CE

*depending on feed material and instrument configuration/settings

FUNCTIONAL PRINCIPLE

The material to be divided first flows through a decentrally located feed hopper. The material first flows through a feed hopper - which is located off-center - directly into the openings of the dividing head. This procedure results in very small, and therefore neglectable, deviations between the part samples in the sample bottles, even with coarse materials. The dividing process itself runs automatically and tamper-proof. The speed-controlled dividing head rotates at a constant 110 revolutions per minute, independent of the load and the mains frequency. This means that when using a dividing head with ten outlets, the feed flow is divided into 1100 individual samples each minute, thus providing optimum dividing accuracy. The dividing heads divide the material evenly among the sample bottles which are available in various sizes.



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