PULVERISETTE 5
classic line

THE FRITSCH PLANETARY MILL

- **Fast comminution of laboratory samples with up to 400 rpm**
- **Adjustable timer accurate to one second**
- **Suitable for grinding hard to soft materials, including in suspensions**
- **Perfect for homogenising of emulsions and pastes**
- **4 or 2 working stations**
- **Simultaneous processing of up to 8 samples**
- **Useful capacity up to 4 x 225 ml**
- **Bowl sizes 80 ml, 250 ml, 500 ml volume**



Also available: The P-5 *classic line* with 2 working stations

Fast and fine

The ideal Planetary Mill: Quick and reliable thanks to the particularly high-energy effect of the grinding balls, the PULVERISETTE 5 *classic line* delivers loss-free grinding results down to colloidal fineness of dry laboratory samples or solids in suspension and even mixes and homogenises emulsions and pastes. The fixed transmission ratio, rotational speed regulation and precision quartz timing ensure exactly reproducible grinding conditions.

TECHNICAL DATA

Electrical details
200-240 V/1~, 50-60 Hz, 1730 watt
100-120 V/1~, 50-60 Hz, 1470 watt

Weight with	**4 working stations**	**2 working stations**
Net	120 kg	100 kg
Gross	155 kg	135 kg

Dimensions w x d x h
Bench top instrument: 58 x 67 x 57 cm

Packing w x d x h
Pallet case: 100 x 72 x 83 cm

Emission sound pressure level at the workplace according to DIN EN ISO 3746
Up to approx. L_{pAd} = 83 dB
(depending on the material to be ground, grinding bowls/balls, selected rotational speed)

Order no. for	**4 working stations**	**2 working stations**
	200-240 V/1~	200-240 V/1~
	05.5020.00	05.6020.00
	100-120 V/1~	100-120 V/1~
	05.5010.00	05.6010.00





Fast and reliable: The practical Safe-Lock-System



Saves time: Simultaneous grinding of up to 8 samples

IQ/OQ documentation available to support equipment qualification.

EASY GTM compatible
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APPLICATION EXAMPLES

Geology and mineralogy	Rock, gravel, sand, minerals
Ceramics	Porcelain, sintered ceramics, clay, fireclay
Chemistry	Pesticides, fertilisers, salts, inorganic and organic materials
Biology	Plants, leaves, freeze-dried samples
Pharmaceuticals	Ophthalmological agents, gels, creams, extracts, drugs, pastes, dragées, tablets
Metallurgy	Ores, sinters
Material research/ Mechanical alloying	Pigments, precious materials, new materials, alloys, mechanical alloying and activation
Analysis preparation	Spectroscopy, X-ray fluorescence, X-ray structure analysis, chromatography

FACTS AND ADVANTAGES

- Toothed belt drive for bowls provides constant transmission ratio
- Rotational speed regulated by microprocessor and digital display of the actual rotational speed of the main disk
- Programmable grinding and pause times and grinding sequences – for short-time operation adjustable down to the second
- Smaller grinding bowls also possible with an adapter
- Reversing function
- Overload protection with automatic rotational speed adjustment and display
- Maintenance-free drive due to electronically regulated rotary current motor (1.5 kW) with frequency converter and permanently lubricated bearings
- Grinding chamber hood safety lock with stoppage monitoring
- Membrane keyboard and robust housing of impact-resistant plastic
- Grinding chamber with forced air ventilation
- Gas pressure springs for easy opening of the cover
- Energy-save-function (electricity-saving mode)
- 2-year guarantee