

Planetary Ball Mill PULVERISETTE 7 *premium line*, FRITSCH

As extension of the existing classic line Planetary Mills, FRITSCH offers now a new premium line generation. For the first time ever, it is possible to reach rotational speeds never known before, which achieves ultrafine grinding results down to the nano range.

FASTER, SIMPLER AND SAFER THAN EVER.

Typical applications:

Pharmaceuticals, mechanical alloying, metallurgy, ceramics, materials research, geology and mineralogy, chemistry, biology.

Performance features:

FASTER

- The grinding bowls sunk into the disk enabling revolutionary rotational speeds of up to 1100 rpm
- Sensational centrifugal accelerations of up to 95 times the force of gravity
- 150% greater energy application than conventional Planetary Mills

SIMPLER

- Sunken grinding bowls with revolutionary SelfLOCK technology
- For the first time, the bowl and lid form a single unit – no additional tensioning, no incorrect operation!
- Grinding bowl exchange in a second with just two motions
- Grinding bowls position themselves and snap securely into place
- The bowl mountings rotate automatically into a convenient position for handling

SAFER

- Revolutionary SelfLOCK technique
- Automatic check of the locks in the mill
- Blockage in the event of impermissible operating states
- Automatic parameter check performed before every grinding, guarantees exact reproducibility
- Via USB, Bluetooth and Ethernet all data can be easily exported to save time

The premium line series will be completed by the PULVERISETTE 6 and PULVERISETTE 5 premium line with bowl volumes of 150 ml, 250 ml as well as 500 ml in the future.

Technical Data:

max. feed size:	5 mm
max. feed quantity:	70 ml
final fineness:	< 0.1 µm
rotational speed main disk:	100 - 1100 U/min
dimensions (W x D x H):	40 x 58 x 36 cm
weight net:	44 kg



Article	Order No.
① Planetary micro mill PULVERISETTE 7 premium line	10 98 00750
Without grinding bowls and balls for 100 – 240 V/ 1~, 50 – 60 Hz, 1100 Watt (voltage, indicated by customer is set)	

Grinding bowls and -balls for the PULVERISETTE 7 premium line need to be selected from the list below, as the instrument can not be operated without.

Accessories for PULVERISETTE 7 *premium line*

Grinding bowls with cover and seal ring

Material	Volume ml		
	80	45	20
	Order No.	Order No.	Order No.
Stainless steel	10 98 05196	10 98 05197	10 98 05198
Agate	10 98 05296	10 98 05297	10 98 05298
Zirconium oxide	10 98 05696	10 98 05697	10 98 05698

Grinding balls for the grinding bowls

Material	Ball Ø mm	
	5	15
	Order No.	Order No.
Stainless steel	10 98 00510	53 98 07511
Agate	10 98 00505	53 98 07501
Zirconium oxide	10 98 00527	10 98 01527

Grinding bowls and balls are also available in silicon nitride, sintered corundum, tempered steel and hardmetal tungsten carbide.

Grinding balls are also offered in the diameters 0.5 - 4 mm (to achieve a fineness down to the nanometer-range), as well as in 10 mm and 20 mm (see grinding balls for grinding bowls for Planetary Mono Mill PULVERISETTE 6 and Planetary Mill PULVERISETTE 5 classic line).

Special gassing lids are also offered for grinding in inert gas and for mechanical alloying.

Recommended number of grinding balls (max. per bowl)

Ball dia. mm	Volume ml	Volume ml	Volume ml
	80	45	20
5	250	180	80
10	25	18	10
15	10	7	
20	5		

