

# P-7 premium

## PLANETARY MILL

 FRITSCH

## MAXIMUM ACCELERATION

### for smallest particles



Easy grinding  
under inert gas

+ **Powerful nano milling**  
of 1 to 60 ml volumes

+ **Feed sizes up to 5 mm**  
depending on material

+ **Final fineness:** < 1  $\mu\text{m}$  or  
< 0.05  $\mu\text{m}$  for colloidal  
milling (sample dependent)

+ **Recessed grinding bowls**  
with automatic SelfLOCK

+ **Highest operating safety**  
with RFID chip in bowl

+ **Consistently reproducible  
milling parameters** with  
MillControl software

# World-class grinding down to nanoscale

**The FRITSCH P-7 premium Planetary Mill is one of the most powerful mills of its kind. No other device on the market offers such fast grinding-bowl acceleration. Perform nanoscale comminution of material in no time at all or utilise its power for your mechanochemical processes.**

## Quick and easy centrifuge-like operation

To secure the lids of the P-7 premium grinding bowls, simply engage the two snap locks. The grinding chamber opens automatically, rotating the bowl holder in the optimal angle for insertion. As soon as the grinding bowls are inserted with light pressure, they engage automatically, the grinding chamber closes and the milling process starts. Depending on the final fineness you wish to achieve, milling can be done dry, in suspension, or under inert gas. You can even use our P-7 premium for mixing and homogenizing emulsions. In material research applications, it also excels at mechanical activation and alloying.



*FRITSCH SelfLOCK: Simply apply light pressure to insert and engage the grinding bowls. That is all it takes: P-7 closes the grinding chambers and starts the grinding process automatically.*



*Quick and easy separation of grinding balls and suspension liquid: the emptying device, equipped with two sieves, is placed on the grinding bowl and the suspension liquid is drawn out with a syringe.*

**Contact us now for a non-binding consultation or individual test grinding to identify your ideal device configuration and optimal grinding parameters.**



## Measuring gas pressure and temperature

Transform your P-5 premium into an analytical measuring system by using the EASY-GTM system (gas pressure and temperature measuring system) with a special lid and transmitter, as well as a receiver board and the supplied MillControl software. The advantage: simple and reliable monitoring and evaluation of thermal effects, physical and chemical reactions, or pressure increases and decreases through continuous measurement of gas pressure and temperature directly in the milling bowl. The mill is automatically controlled so that the set parameters are not exceeded. EASY-GTM bowls are available in various materials.

