

Press Release

Faster, simpler, safer – the Planetary Mill PULVERISETTE 5 *premium line* features the seal Best of 2017



For the twelfth time, the Huber publishing house for Neue Medien GmbH (New Media) selects outstanding companies from the industry for the INDUSTRIEPREIS (industry award) during the HANNOVER MESSE. The FRITSCH Planetary Mill **PULVERISETTE 5 *premium line*** is one of the best solutions for 2017 in the category "Research and Development" and therefore belongs to the winners of the award for the most innovative products and solutions.

The Planetary Mill PULVERISETTE 5 *premium line* convinces

From altogether 14 award categories, the independent renowned jury selected the innovations. And the **Planetary Mill** PULVERISETTE 5 *premium line* convinced the jury with its FRITSCH *premium*-symbiosis of performance, ease-of-use and safety.

High-performance grinding down into the nano range

The PULVERISETTE 5 *premium line* is suitable for powerful wet and dry comminution of hard, medium-hard, soft, brittle and moist samples due to the high-energy impact of grinding balls in rotating grinding bowls. Your advantage: extremely short grinding times and reliably reproducible results down into the nano range. Also for highly efficient mixing and homogenising or for mechanical activation and alloying in materials research.



Planetary Mill
PULVERISETTE 5 *premium line*

Overview of the *premium* features:

- ⊕ Extra strong 2.2 kW drive power and extremely high centrifugal acceleration up to 64 g and up to 800 rpm* (rotational speed of the bowl 1600 rpm)
- ⊕ Sample quantities up to 450 ml, max. feed size up to 10 mm
- ⊕ Motor-driven ServoLOCK clamping of the grinding bowls
- ⊕ Safe and user-independent reproducible clamping
- ⊕ 2 grinding stations for grinding bowls 125 - 500 ml volume
- ⊕ Intuitive touchscreen operation with colour display



Safe grinding bowl holder

FRITSCH *premium* advantage: Maximum operational safety

In the newly developed bearing of the grinding bowl holder, the grinding bowls of the PULVERISETTE 5 *premium line* are housed in a completely enclosed frame. It is automatically locked by the machine via ServoLOCK instead of manually. Your advantage: extremely safe and easy operation with reproducible, user-independent clamping at any time.

FRITSCH *premium* advantage: Intuitive user navigation

Fast and easy operation due to a high-resolution touchscreen, logical menu structure in multiple languages and practical plain-text user navigation.

FRITSCH *premium* advantage: Safely guided insertion

The grinding bowl is simply inserted in the PULVERISETTE 5 *premium line* from the front into the holder. Correct positioning is automatically ensured by a practical guide.

FRITSCH *premium* advantage: Motor-driven grinding bowl clamping

The revolutionary ServoLOCK is activated with a single hand motion by pressing down the clamp. The actual clamping is motor-driven by the mill. Your advantage: each grinding with always same conditions without screwing or other manual fastening.

FRITSCH *premium* advantage: Safe opening in the event of overpressure

Any overpressure is released by the specially designed ServoLOCK in the PULVERISETTE 5 *premium line*. In this way, the grinding bowl can always be easily and safely opened.

FRITSCH *premium* advantage: Reliable bowl detection via RFID chip

The PULVERISETTE 5 *premium line* does not start until both bowls are correctly inserted and prevents the setting of too high speeds depending on the bowl material used. Your advantage: guaranteed constant, reliable results – incorrect operation impossible.

The special features of the **FRITSCH Planetary Mill PULVERISETTE 5 *premium line*** and how it works – please have a look: www.youtube.com/embed/ujYjQLi0TxM?rel=0



About the INDUSTRIEPREIS

Since 2006 the Huber publishing house for Neue Medien GmbH annually awards the INDUSTRIEPREIS to the best and most progressive companies from Germany, Austria and Switzerland. Any sized companies can apply for the popular award, which due to its large and high-calibre jury enjoys an excellent reputation. The jury evaluates the submissions in regards to their technological, economical, ecological or usefulness for society.

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