

## IKA® Pilotina

Milling at its best



designed  
to work perfectly

The universal 2in1 mill for dry products

## IKA® Pilotina MC

The cutting mill system

## IKA® Pilotina MU

The ideal combination of MC and MI

## IKA® Pilotina MI

The impact milling system



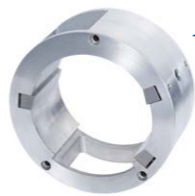
- Universal funnel**
- Double door system (protection against reaching in/splashing)
  - Vertical/diagonal slider for feeding of the product to be milled
  - High-quality surface



- Funnel for long particles, alternative**
- Suitable for long particles
  - Vertical slider for feeding of the product to be milled



- Counter bearing**
- Guarantees precise cutting quality, even under high load



- Cutting mill stator**
- Adjustable milling gap
  - High-quality surface
  - Excellent cutting quality



- Rotor with indexable inserts**
- Suitable for difficult products
  - Enormous cutting force due to the geometry of the knives
  - Long service life due to extremely wear resistant cutting plates



- Parallel cut rotor**
- Suitable for sliceable products
  - Long lifetime due to reversible cutting knives



- Sieve**
- Different hole sizes for different final finenesses
  - Hole sizes from 0,12 mm – 20 mm



- Filter**
- Optional textile filter between outlet and collecting container
  - Increases the capacity and cools the milling product



- Impact milling stator**
- Excellent wear resistance
  - Optimum tooth geometry



- Impact mill funnel**
- Easy feeding of bulk material
  - Integrated protection against reaching in and splashing
  - Easily cleaned



- Impact mill rotor**
- Wear resistant, hardened impact plates
  - Easily cleaned surfaces

The dry mill IKA® Pilotina MC is the ideal choice for disintegration of smooth, sticky, elastic or fibrous materials such as parts of plants, plastics, food pellets and many more. The design guarantees an excellent milling quality, a precisely defined final fineness, as well as an easy and quick cleaning. The powerful 1.5 kW drive makes the Pilotina MC the ideal pilot plant machine. The counter bearing that is conically borne in the milling chamber door supports the rotor and thus enables a precise cutting quality, even under high load.

If you have a wide variety of milling tasks and therefore need cutting as well as an impact mill, the IKA® Pilotina MU will be the best choice. The modular design allows an easy modification from impact to cutting mill and vice versa within shortest time. Your advantage: one machine, two milling principles, all this without making any compromise regarding disintegration quality. Due to the powerful, frequency controlled 3 kW drive with digital indication the circumferential speed of the tool can be adjusted to the required milling process in an optimum way.

The dry mill IKA® Pilotina MI is the ideal choice for disintegration of hard and brittle materials e.g. coal, glass, ore or seeds. The product is disintegrated quickly due to the geometry of the milling space and the fast rotating impact rotor. The final fineness can be precisely adjusted via the sieve that is inserted in the milling chamber. High-quality surfaces make cleaning easier after milling.

## IKA® Pilotina MI



## IKA® Pilotina MC



### Fields of application

The IKA® Pilotina MI is equipped with an impact mill module, the IKA® Pilotina MC with a cutting mill module, so that you will always get the optimum mill for the respective milling task. The IKA® Pilotina MU is delivered with both milling modules, thus covering both processes: milling by cutting and milling by impact. The milling area is easily accessible for cleaning due to the large milling chamber door. The door can only be opened when the rotor is standing still, thus avoiding an unintended opening of the milling chamber door whilst the machine is running. The funnels as well as the outlet of the milling chamber are also designed in a way that makes it impossible to reach into the milling chamber.

The IKA® Pilotina can be used for a great variety of milling functions in a diverse range of industrial tasks. Hereafter you will find some examples of applications:

Product to be milled	Industrial branch	Pilotina MC	Pilotina MI	Pilotina MU
Seeds, roots, cereals	agriculture	■	–	■
Hops, malt, spices, animal food, salt	food industry	■	–	■
Stone, gypsum, construction material	construction materials	–	■	■
Ceramics, clay	ceramics industry	–	■	■
Bees wax, collagen	cosmetics	■	–	■
Detergents	chemical industry	■	■	■
Coal, coke	production of energy	■	■	■
Tablets, coated tablets	pharmacy	–	■	■
Ore, drill cores	metal production	–	■	■
Colour pigments, granules	varnish, paints and inks	■	■	■
Paper, filters, cellulose	paper industry	■	–	■
Plastics, rubber, resins, foils	polymer industry	■	–	■

Technical data	Pilotina MC	Pilotina MI	Pilotina MU
Motor power	1,5 kW	1,5 kW	3 kW
Speed range	1.500 min <sup>-1</sup>	3.000 min <sup>-1</sup>	1.500 - 4.500 min <sup>-1</sup>
Speed indication	no	no	digital
Capacity (depending on the final fineness)	ca. 60 kg/h	ca. 80 kg/h	ca. 60 - 80 kg/h
Overload protection	yes	yes	yes
Circumferential speed	9 m/s	22 m/s	9 - 34 m/s
Max. charging hardness	3 Mohs	6 Mohs	3 or 6 Mohs
Max. charging size	65 x 60 mm	25 mm	65 x 60 or 25 mm
Dimensions, approx. (L x W x H)	485 x 575 x 700 mm	485 x 575 x 630 mm	485 x 575 x 700 mm
Weight, approx.	70 kg	70 kg	80 kg
Admissible surrounding temperature	5 - 35 °C	5 - 35 °C	5 - 35 °C
Admissible air humidity	80 %	80 %	80 %
Protection type	IP 55	IP 55	IP 55



designed  
to work perfectly

IKA®-Werke GmbH & Co. KG · Janke & Kunkel-Str. 10 · 79219 Staufen · Germany  
Phone: +49 7633 831-0 · Fax: +49 7633 831-907 · process@ika.de · www.ikaprocess.com