



**BAUERMEISTER**

**DOUBLE  
ACTING  
PIN MILL**



**HAMBURG  
DRESDNER**  
MASCHINENFABRIKEN

PROBAT GROUP

## DOUBLE ACTING PIN MILL

### Bauermeister Counter-Rotating Pin Mill

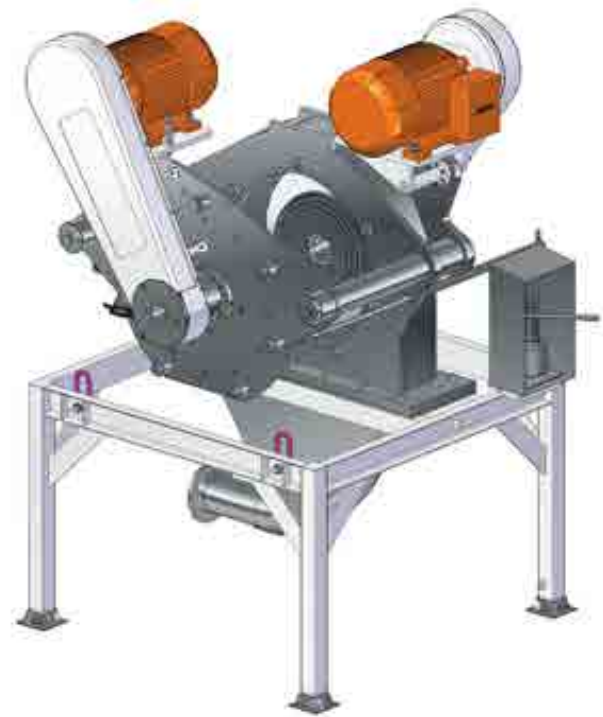
The Bauermeister counter-rotating pin mill UMP 4.4N Ex has been developed for cocoa pulverising. Between two pinned discs rotating in opposite directions, the cocoa press cake is disagglomerated and crushed.

### The Bauermeister counter-rotating pin mill offers the following features:

- central feed of the cocoa press cake via hollow shafts (on door and housing sides) into the mill interior
- wear-resistant design of the pinned discs
- safe and trouble-free process control in continuous operation due to, among other things, smooth surfaces  $R_a < 0.8$
- pressure surge protected design up to 10 bar overpressure and compliance with the ATEX directive 94/9/EU

### Advantages:

- opening of the door by linear pulling-out via guide pins
- no disassembly of the motors / v-belts when opening the door, because one motor is mounted on the housing and one motor on the door
- fast cleaning of the mill interior space thanks to smooth surfaces  $R_a < 0.8$
- designed as wide chamber housing to minimize accumulations and prevent blocking of the mill in case of high fat contents of 22-24 %
- optimum adjustment of pin rows and speed for gentle grinding of the cocoa press cake at optimum particle fineness
- additional cooling of process air possible via by-pass



Double Acting Pin Mill

### Operating principle:

- The cocoa press cake is centrally fed between two rotating pinned discs via hollow shafts.
- The cocoa press cake is fed in on the door side and on the housing side.
- By impact and shearing loads the press cake is disagglomerated and crushed between the pins.
- Process air and centrifugal forces convey the product through the rotating pinned discs step by step outwards between the pins.
- The particle size can be influenced by the speed of the rotating pinned discs.

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