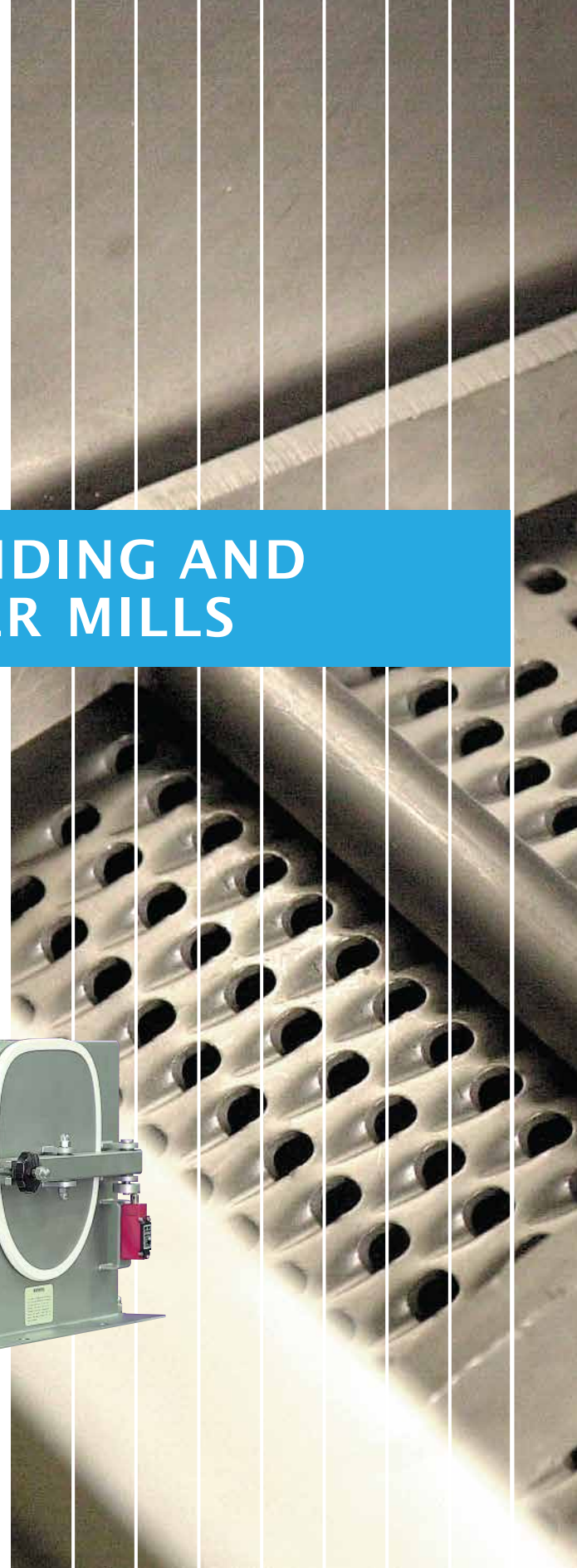


COARSE GRINDING AND PRE-BREAKER MILLS

A RANGE OF SPECIALIST
COARSE GRINDING AND PRE-
BREAKER MILLS FOR THE
FOOD, PHARMACEUTICAL
AND CHEMICAL INDUSTRIES



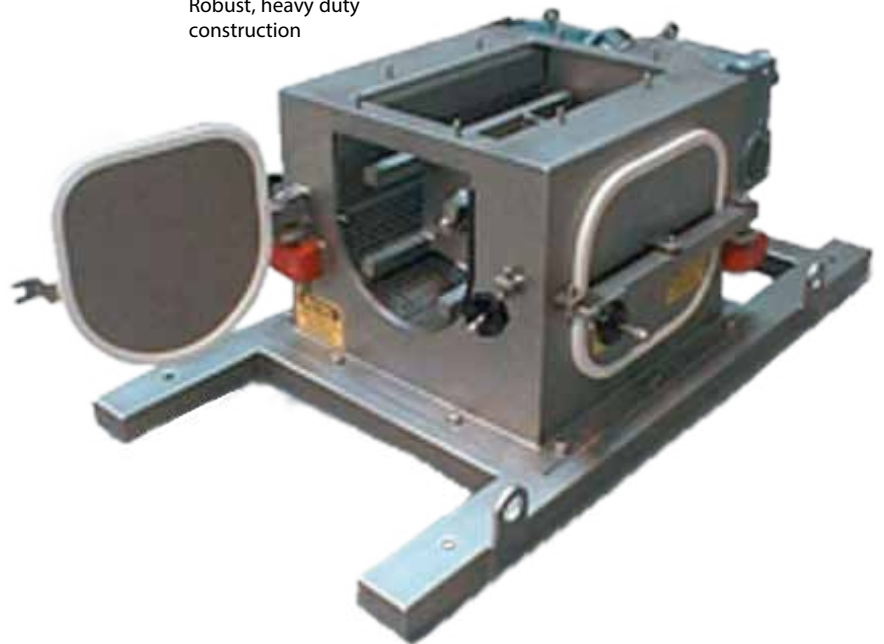
COARSE GRINDING & PRE-BREAKER MILLS

KEK Kibbler pre-breaker mills are designed to work in conjunction with other KEK mills or as stand alone mills in their own right. Strong and robust, the Kibbler is designed to demolish large lumps up to 150mm and reduce them down to 2 or 3mm in preparation for further processing. Size reduction takes place through a combination of impact, crushing, cutting and abrasion as the slow speed, heavy duty beater sweeps product against the contoured grinding screen.

Cantilever Design

Some KEK Kibbler models are available with cantilevered grinding beaters. These are ideal for lighter duty food, pharmaceuticals and fine chemicals applications. This design offers improved hygiene and easier cleaning through the elimination of one set of bearings and seals. The non-drive end access door can be opened and closed more rapidly making access easier and reducing grinding screen change times.

Robust, heavy duty construction



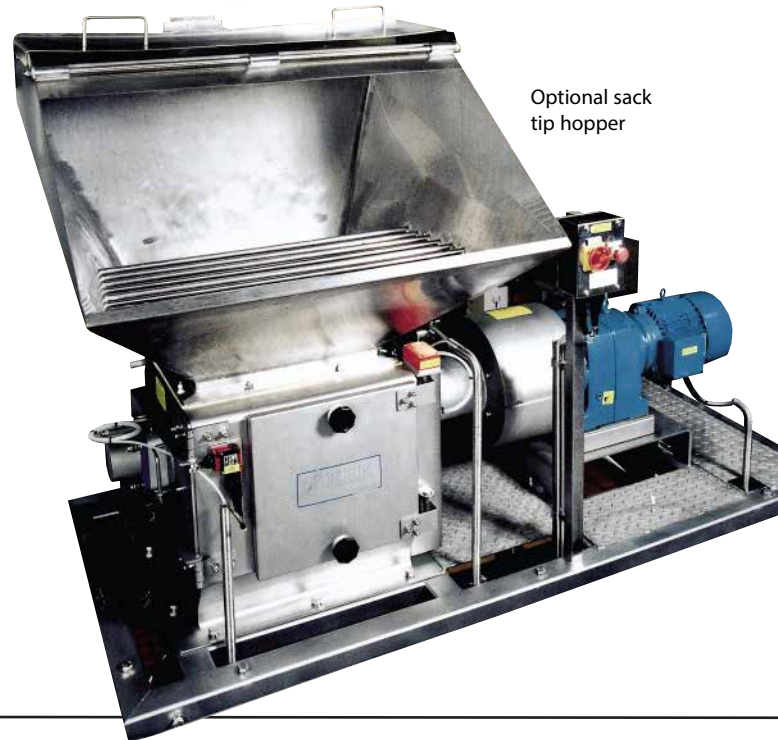
Product Range

As standard, the milling chamber and the drive assembly are mounted on a rigid bedplate for easy installation, optimum operating efficiency and maximum performance.

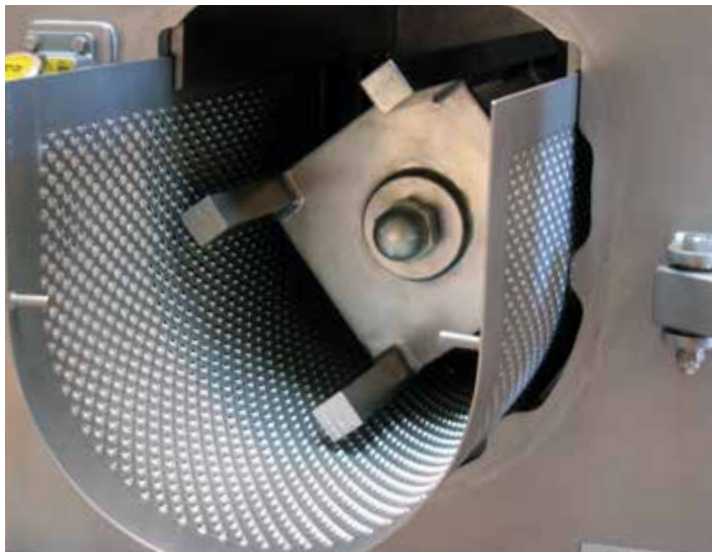
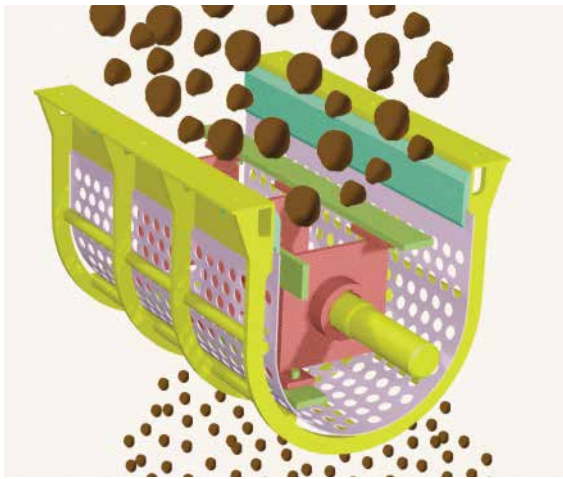
Model	Throughput Scale-up	Cantilever Design	Standard materials of construction
M203			Carbon steel/stainless steel
M303	0.5	✓	Carbon steel/stainless steel
M305	1.0	✓	Carbon steel/stainless steel
M311	2.0		Carbon steel/stainless steel

All models can be constructed in higher specification materials including sophisticated alloys to resist aggressive chemicals. A variety of surface finishes are available for food and pharmaceutical applications including electro-polishing.

Optional sack tip hopper



Beater impacts product against screen



Benefits

All models (* except cantilevered shaft models):

- Easy removed screens for rapid changing and easy cleaning
- Heavy duty beater and screens for long life
- Hinged end door with bearing support for easier removal of bearing*
- Bolted flanges for dust tight operation
- 'O' ring seals to end plate for rapid changing and easy cleaning
- Low speed for low noise, low heat and low dust operation
- Wide range of grinding screen sizes/types and interchangeable beaters to suit a variety of process requirements
- Adjustable beater/screen clearance to change particle size distribution
- Optional variable speed drives for even greater particle size distribution flexibility
- Operator friendly - no heavy items to support during cleaning

Cantilevered shaft models:

- No end bearings or seals for greater hygiene
- Easier cleaning
- More rapid strip-down and re-assembly

Applications

De-agglomeration

Breaking down of compacted hygroscopic products that have agglomerated due to dampness or compaction.

Sugar Milk powder Sodium Sterate Detergents Coffee powder
Salt Frozen Fruit Brown Sugar

Pre-Milling

Pre-grind of very large lumps to a particle size small enough for further fine grinding.

Gum Arabic Soap Pigments Titanium Dioxide Coal/coke Liquorice blocks

Coarse Grinding

Product is broken down for use (e.g. melting or dissolving) in another process. Ingredients can be sized for mixing. Damaged products can be reclaimed for re-work. Filter press cake can be broken to increase surface area for more efficient drying.

Biscuits Popcorn Toffee Wax China Clay Rusk Boiled Sweets

All applications subject to proving trials



Conventional end bearing



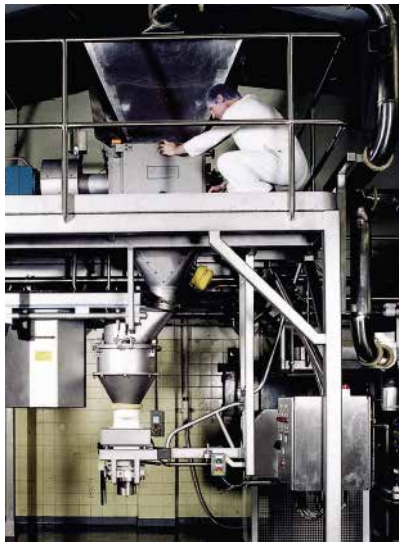
Cantilever model with no end bearing

PUT US TO THE TEST

Technology Centre

The Kemutec Technology Centre provides support to our Project Engineers to ensure that your product and processing equipment will have been fully evaluated and proven.

This facility enables us to tailor equipment to achieve individual requirements or to develop specific equipment and packages to fulfil unique requirements. e.g. under controlled temperature or pressure and vacuum conditions.



Contact Us

To find out more about KEK Kibbler Pre-breaker Mills or for general advice on your milling process, contact us today. Our skilled and experienced engineering staff are well qualified to discuss your application requirements with you and produce a cost effective solution to meet your requirements.

Kemutec has its own sales office in the USA and has a comprehensive network of representatives throughout the industrialised world, all able to provide applications engineering, sales and service.



Packaged Engineering

Kemutec's extensive experience ensures we are able to design, manufacture, install and commission complete processing packages, including the associated pneumatic (or other) conveying systems, support structures and controls.

Kemutec Also Supplies:

- Kek Centrifugal Sifters
- GKM Tumbler Screeners
- Kek Universal Mills
- Kek Conemills
- Kek Kibbler Lump Breakers
- PPS Air Classifier Mills
- Gardner Mixers and Blenders
- Mucon Valves and Discharge Aids

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