

## APPLICATION REPORT



### **Kemutec Developes Lump Breaker for the Pharmaceutical Industry**



The Kemutec Kek® M-series Kibbler Pre-breakers are used successfully on many applications in the Pharmaceutical Food and Chemical Industries.

Combining its slow-speed and high-torque drive with the robust design and construction, the Kek® Kibbler has proven to be an ideal lump breaker and crusher for a variety of dry and paste-like materials. With a range of interchangeable screen sizes and types, the Kek® Kibbler will reduce solid lumps from over 12" diameter down to less than ¼".

Typical applications are:

- Grinding for reclaim of Cookies, Candies and Chocolate
- De-agglomerating of lumpy powders after discharge from silos and other bulk storage
- Crushing of hard and abrasive lumps
- Pre-breaking of large lumps prior to fine grinding in a second mill

When asked by a leading world Pharmaceutical Company for a Lump Breaker to meet the exacting standards of their GMP and CIP procedures, Kemutec set about developing the design of the standard Kibbler to satisfy this requirement.

This resulted in a special design which took hygiene, cleanability and maintenance aspects to a new level, featuring:

- Cantilever shaft design with no non-drive end bearing or seal
- Hinged & interlocked non-drive end door
- Hinged & interlocked side access body doors
- Smooth internal surfaces with large radius corners
- Heavy duty 'double bearing' arrangement at the drive end
- Easy- clean double labyrinth drive end seal, with full air-purge facility
- Integral Spray Nozzles for 'Clean-in-Place' facility

The new design delivers real benefits to the user, including:

- Screen removal in 20 seconds
- Screen changes in less than 60 seconds
- No product contamination in non-existent non-drive end seals
- In place cleaning of all product contact surfaces after screen removal
- Controlled size reduction of lumpy powders
- Capable of handling 'Flood-feed' conditions

Kemutec has gone on to sell many more of the 'Cantilever Shaft Kibblers' to other Pharmaceutical customers around the world.



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