

BREAKING DOWN THE BARRIERS!

AJAX LUMP BREAKERS



AJAX BULK HANDLING AND PROCESSING PRODUCTS PROVIDE EFFICIENT SOLID HANDLING IN APPLICATIONS FAR BEYOND THE CAPABILITY OF STANDARD EQUIPMENT.



LUMP BREAKERS

Size reduction is a common feature of the chemical, pharmaceutical, food, energy, mineral and other industries; from waste char handling to preparing raw sugar for processing through to meeting stringent quality needs for active pharmaceutical ingredients. Ajax lump breakers are ideal for reducing lumps, caked and bag set materials to a suitable consistent size for ease of processing and handling.

AJAX features include:

- Dynamic impact, crushing and combing action through a grille
- LynFlow™ rotor design for effective size reduction
- Controlled lump breaking without causing excessive dust and fines
- Range of sizes and grille spacing to suit operational needs
- Single and twin shaft units in stainless and hard wearing steels
- ATEX, Food and pharma quality versions
- Easy to operate and maintain
- Hopper, chute and sack tip versions

AJAX TEST FACILITY CAN CARRY OUT TRIALS FOR YOU.

HIRE UNITS ALSO AVAILABLE FOR ON-SITE TESTING.



MOBILE LUMP BREAKER FOR RESPIRATORY CARE SPECIALIST

Ajax recently supplied leading respiratory medical device manufacturer, Intersurgical, with a mobile lump breaker and feed hopper for the processing of set lime and phosphorous. The stainless steel lump breaker includes an integrated control panel and a high standard of safety features with sliding safety gates and hinged cover fitted with safety switches restricting access during operation. The mobility of the equipment allows the operator to locate the equipment near to the source material.

Filter cake and other set materials can be sensitive to the energy input, so care was taken with regards to clearances, dead zones, and profile of the lump breaker's rotor blades. To achieve the desired performance Ajax carried out testing before production and extensive factory acceptance tests during which over a tonne of material was efficiently processed.

"With increasingly higher volumes of product being manufactured weekly and the inevitable waste that is generated, a fast and effective method of dealing with it was essential. Ajax's lump breaker has proven to be consistent and reliable with a design that ensures the safety of our staff."

Daniel Rakauskas, Intersurgical



LUMPBREAKER FOR CHEMICAL BLENDING FACILITY

Solids handling expert, Ajax Equipment has supplied Brenntag (UK), the UK market leader in bulk and packaged chemical distribution, with a lumpbreaker and loading table at its Newcastle-upon-Tyne blending facility.

As part of an investment program at the facility, Brenntag was looking for a way to reduce the size of crystalline sodium nitrate and sodium nitrite prior to its blending in a reactor. Positioned above the reactor, the Ajax lumpbreaker reduces the crystalline material to a consistent powder size, as it is tipped into the reactor, enabling improved blending.

The lumpbreaker incorporates a loading table on which the operator loads the partly solidified, bags of sodium nitrate and sodium nitrite, removes all packaging and then closes the loading table tray lid to energise the tipping tray and lumpbreaker for safe operation.

"Prior to using the lumpbreaker the crystalline material was broken up using mallets – as a temporary measure. The Ajax lumpbreaker and loading table is safer and more efficient, and has made a significant improvement to our handling and blending of sodium nitrate and sodium nitrite,"

Gareth Dobinson, Brenntag

ROTARY POWDER SIFTER

Ajax's product range includes a newly developed rotary powder sifter for a pharmaceutical application. Powder agglomerates enter the highly polished sifter from a feeding screw, where the rotating paddles force the powder through the sifter grille and into a collecting screw. The sealed unit provides an effective sifting action and controlled feed for powders.



AJAX

QUALITY BY PERFORMANCE
PERFORMANCE BY DESIGN

CELEBRATING 45 YEARS OF EXCELLENCE

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Top Tips on solids handling

www.ajax.co.uk/mailgroup.htm

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