



Company News

Ajax Lump Breaker breaks down Frozen Enzymes for Water Treatment

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Bolton, United Kingdom –

Solids handling specialist, Ajax Equipment, has supplied leading speciality chemical producer with a lump breaker and block tip chute. The stainless steel lump breaker will reduce large frozen blocks of an enzyme to the size required for a chemical process.



Ajax's lump breaker efficiently breaks down blocks of frozen enzyme
(Picture: © Ajax Equipment)

Commenting, Eddie McGee, managing director, Ajax Equipment said, “Lump Breakers offer an efficient, adaptable and easy to operate way to reduce the particle size of a wide range of materials across many industries. Size reduction can be achieved through four mechanisms: dynamic impact, shearing/cutting and crushing. To develop the lump breaker’s design, Ajax conducted a range of material tests which would determine which of the mechanisms would best suit the needs of the enzyme blocks and water treatment process. Crucially the tests were carried out with frozen blocks of the material the site handled.”

Efficient Size Reduction

To achieve effective size reduction of the frozen enzyme blocks, Ajax Equipment’s lump breaker uses a combination of ‘dynamic impact’ and wedging mechanisms. The rotor’s profile was specially designed to apply the force needed to initiate a failure crack through the material. The material is then crushed against the lump breaker’s walls and through the grille.