



## Food & Pharmaceutical Technology

### Introduction to Atritor Ltd

Atritor Ltd, is a UK company located in Coventry, England, and is a market leader in the global powder processing industry. By continuous development of Atritor technology, associations with companies offering complimentary process solutions and by strategic joint venture partnerships, Atritor aims to meet customer demands for ever-increasing sophistication in powder products and related process plant. Equipment is shipped from Coventry to all parts of the world.

### Diversification into Food & Pharmaceuticals

Atritor has a long established history in powder processing which started in 1920 at the other end of the spectrum from food and pharmaceuticals - the milling and drying of coal. The machine, shown opposite, was called the 'Atritor', capable of taking lump coal, simultaneously drying and pulverising it to a fine powder of less than 100 microns and firing it directly into kilns, boilers and furnaces. The 'Atritor' was marketed worldwide for over 50 years during which time the technology of simultaneous milling and drying was expanded into the chemical, mineral and waste product sectors. The modern 'Atritor' remains a core product of the company.



The transition into Food and Pharmaceuticals began in 1980, when Atritor Ltd was formed and proceeded to extend its product range and expertise.

### Cell Mill – CM

The Cell Mill, with optional integral classifier, is suitable for finer grinding and drying applications than the Atritor. The introduction of this mill/dryer increased the range of applications in minerals and chemicals and also proved to be particularly suited to food ingredients, wheat gluten, cocoa, starch, soymeal, carageen being a few examples.



CM 1250 - IC Cell Mill - Dryer - with Internal Classifier

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### Test Facilities

To ensure customer confidence in the capabilities of Atritor equipment and processes, we operate a comprehensive pilot plant in Coventry where all of our equipment can be fully evaluated. The plant is predominantly full size, so all scaling is done within the range of production equipment.

Our laboratory includes laser particle size analysis and air jet sieve to compare our pilot plant products with reference samples. The results achieved in the pilot trials provide the basis for system design and process guarantees.

Our test facilities has three distinct processing areas:

**Area 1** -Atritor Dryer-Pulveriser, Cell Mill, & AST Tubular Dryer installation.



**Area 2** - DCM Air Classifier Mill installation.



**Area 3** - Microniser Mill Room.

Pharmaceutical trials can only be conducted for non toxic materials, or when personnel protection equipment and containment of waste materials is feasible, which will be advised after receipt of MSDS documentation. For API's, equipment can be made available for trials at the clients works or at pharmaceutical contract processing facilities.

