



## IIT unveils powder technologies

*14 October 2010*

### **UK developer releases competitive mill and classifier units for powder processing**

UK-based powder technology company, International Innovative Technologies, has developed two new mill and classifier units aimed at reducing energy consumption and equipment size in powder processing applications.

IIT's mill range, the m-series, uses a multi-stage grinding system to process materials such as industrial minerals at rates of up to 5 tph.

The mill comprises an upper material in-feed chamber mounted with a drive motor, grinding modules and a lower material out-feed cone. Multiple grinding modules can be added to the unit to produce finer powder.

Additionally IIT has developed a range of air classifiers, the c-series, designed for cut points typically ranging 10-160µm. The smallest unit achieves cut points down to  $d_{95}$  6.8µm in limestone classification.

Materials enter the air stream from the mill discharge rotary valve, where a pre-classification stage to drop out heavier particles – static velocity-drop – occurs. Outer static classifier vanes assist particulate dispersion while a dynamic classifier wheel determines product cut point.

IIT claims that its m-series mills achieve higher throughput than a ball mill of a similar size, combined with an energy efficient design that uses around 10 kWh/tonne.