

Uniaxial tester extends capabilities of powder rheometer

Freeman Technology, Welland, Worcestershire, UK, has added a uniaxial powder tester to its FT4 powder rheometer. This extends the system's capability to provide efficient and reproducible measurement of properties that directly correlate with a powder's in-process



behaviour. Uniaxial testing involves measuring the force needed to fracture a column of consolidated powder. This is believed to be the most simple and direct method of measuring unconfined yield strength, a parameter related to cohesivity. In the past, use of the technique has been inhibited by the difficulties inherent in repeatably producing a uniformly packed and consolidated powder column for testing.

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A powder column after it has failed in a uniaxial test