



POWDER DEPOSITION APPARATUSES AND METHODS

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Inventors: Lianyi Chen, Luis Izet Escano

The Invention

UW-Madison researchers have developed a high throughput powder spreadability testing system that can test powder spreadability at multiple layer thicknesses, multiple substrate materials, multiple blade shapes and multiple blade materials in one single test based on the needs of the user by using a novel testing plate. In addition, powder size and size distribution, shape and shape distribution, repose angle, avalanche angle, and breaking energy will also be obtained in a single test. The novel testing plate includes a stepped substrate, a variety of textures and multiple types of re-coaters, in contrast to other literature techniques that simply use flat plates.

Additional Information

For More Information About the Inventors

- [Lianyi Chen](#)

Tech Fields

- [Engineering : Additive manufacturing](#)

For current licensing status, please contact Michael Carey at mccarey@warf.org or 608-960-9867