RAM-DROP Inspection System

The **RAM-DROP** is a 100% automated fast turnkey inspection system for small parts with automatic sorting of defective parts.

The system automates sorting and quality testing for small parts like powdered metal components, offering rapid and objective sorting without the need for human interpretation, typically achieving three-second cycle times per part. This system offers objective sorting without the need for human interpretation, using a straightforward Pass or Fail result provided by the NDT-RAM system and automated sorting via servo-controlled motor.

This versatile testing system boasts a fast part testing rate of 0.5 to 3 seconds and is adaptable to various part types, providing a prompt pass or fail response. It offers 20 criteria ranges and has compact dimensions of 24" x 48" x 67", with an overall weight of approximately 250 lbs (113 kg).

This system includes an industrial PC, a free-standing Drop Testing enclosure, a smart digital controller, a force sensor, and a microphone, designed to endure continuous operation in plant floor settings. It can easily detect imperfections, cracks, missing features, mixed parts, and even identify missed processes like machining or heat treating operations.