

Case Study

Using Peak Force Testing

Solution for BBQ Briquette company produces low cost strength testing

Challenge

- Prevent waste
- Improve efficiency
- Improve quality of product

Solution

- ADVANTAGE® Load cell
- HI 2151/30WC weight controller with bar graph display

Results

- Easily graded product by strength
- Improved quality
- Low cost solution
- Gain customer confidence in brand with consistent quality



THE CHALLENGE:

A manufacturer of charcoal BBQ briquettes needed to test the strength of their briquette. If it was strong, it would be their highest quality brand. If it crumbled more easily, it would be sold at a discount to another company or marketed as a lesser quality brand. The testing would be on a sample basis from each batch produced.

THE SOLUTION:

The customer built an apparatus and used a load cell and instrument to measure the “peak force” required to crush the briquette. They established thresholds of peak force to grade the product quality.

THE RESULTS:

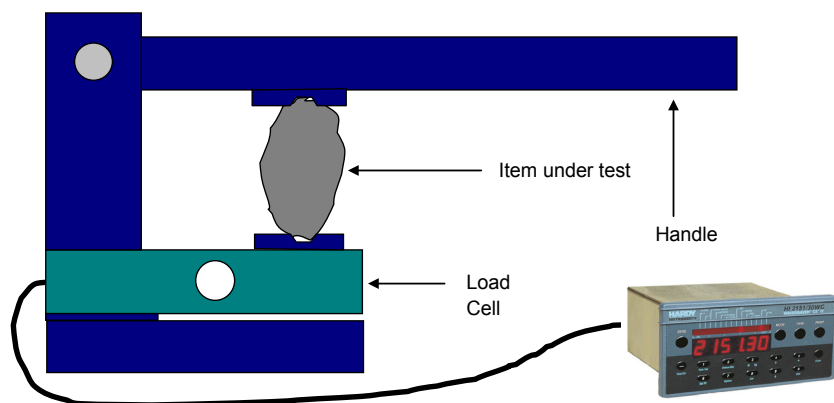
The manufacturer can easily grade the production quality and segment the product for different labeling. In doing so, they insure consistent quality levels as advertised and gain customer confidence. When they pay more for the higher quality, they are actually getting higher quality briquettes. This solution was low cost and effective.

EQUIPMENT USED:

Any ADVANTAGE® load cell can be used with proper mounting and any instrument with “Peak Force” capability. For example, an HI 2151/30WC weight controller provides a display, and the bar graph can be set up to represent the peak force allowing quick viewing by the operator.

EXAMPLE CUSTOMERS and APPLICABLE INDUSTRIES:

Any manufacturing process where the strength of the product is a variable that should be graded or controlled or where product must meet minimum requirements for strength. This could include dishwasher soap tablets, feed pellets, and light bulbs.



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