



# Material Flow Solutions, Inc.

*With nearly 25 years consulting experience, we offer solutions to material flow problems*

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## Want to Increase Your Process Bottom Line?

**Optimize your material handling systems to minimize segregation,  
Increase or control process flow rates, and eliminate hang-ups.**



### Segregation Solutions

Is the lack of consistent product quality causing a loss of revenue? We measure the flow properties of your bulk solid mixtures and review your proposed or existing process to make cost-effective recommendations to minimize segregation. We have reduced off-spec material production from 50% down to less than 1%.



### Flow Rate Enhancement

Does your process suffer from limited flow rates or uncontrolled material surges? We will modify your handling system to increase or control process flow rates. We can increase process flow rates by a factor of 100 and bring surging under control.



### Hang-Up Elimination

Does your material produce down times caused by plugging and hang-ups? We can measure the flow properties of your material at simulated process conditions and provide you with recommendations to eliminate hang-ups. We have modified handling systems to virtually eliminate hang-ups and allow you to operate your system without manual interventions.

*We offer a full range of material property testing at simulated process conditions including:*

Bulk Density

Permeability

Degradation Tendency

Segregation Tendency

Arching Tendency

Rathole Tendency

Wall Friction Angle

Blender Selection

Adhesion Tendency

Unconfined Yield Strength

Limiting Flow Rate Analysis

Recommended Mass Flow Angles

## Let Us Provide You With a Quote