

# THE BENEFITS OF AGGLOMERATION

The **economic, environmental, raw material, process** and **product benefits** that agglomeration can offer

## AGGLOMERATION:

*The amassing of particles into a cohesive unit (i.e., particle size enlargement)*

### RAW MATERIAL BENEFITS:

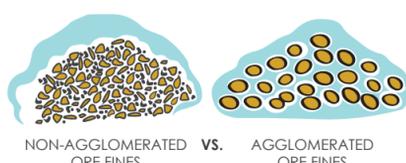
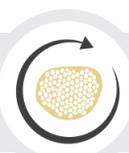
Simplified transportation



Mitigation of dust loss



Increased porosity, density, and melting abilities



**INDUSTRY EXAMPLE**  
**GOLD, COPPER, SILVER, NICKEL, COBALT, URANIUM, AND ZINC ORES**

The agglomeration of ore improves the efficiency of heap leaching operations by creating a more uniform shape and size ore, allowing leachate to more effectively percolate through the heap.

### PRODUCT BENEFITS:

Dust-free handling



Segregation prevention



Improved appearance



**INDUSTRY EXAMPLE**  
**AGRICULTURAL WASTES (MANURE, COMPOST, etc.)**



Agricultural wastes that are agglomerated are easier to transport, store, and apply. They also offer reduced odor, customizable formulations, and storage potential.

Enhanced performance



### PROCESS BENEFITS:

Elimination of dust and fines



Improved process flow



Improved process efficiency



**INDUSTRY EXAMPLE**  
**GLASS**

In raw form, glass powder incurs material loss in the furnace as it becomes entrained in the airflow. This throws off carefully balanced formulas. Agglomerated glass reduces product loss, ensures formulas remain intact, and improves overall process efficiency.

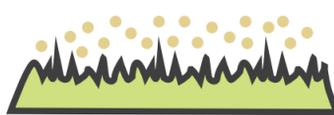


### ECONOMIC BENEFITS:

Waste is converted to a usable product



Reduced handling & transportation costs



**INDUSTRY EXAMPLE**  
**LIMESTONE**

Previously unsalable limestone fines can be agglomerated into a marketable product - limestone soil amendment pellets.

### ENVIRONMENTAL BENEFITS:

Reduced need for landfilling



Potential for waste to fuel processes

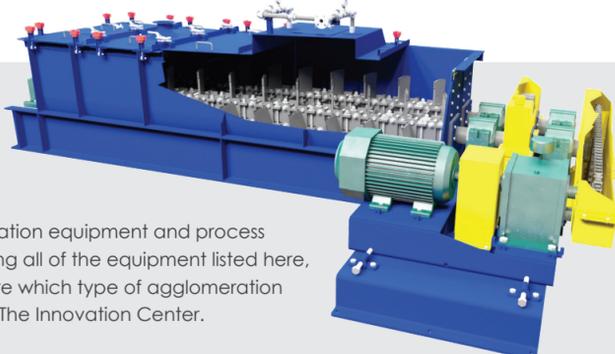
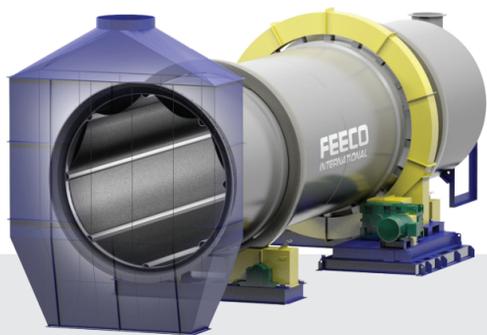


Improved waste disposal cost efficiency



**INDUSTRY EXAMPLE**  
**WASTE PAPER SLUDGE**

Waste paper sludge is often landfilled. When agglomerated, it can be transformed into a usable product, such as a mulch for use in lawn products.



### AGGLOMERATION SOLUTIONS

FEECO is the world's top provider of tumble growth agglomeration equipment and process solutions. We offer custom agglomeration equipment, including all of the equipment listed here, as well as process and product development services. Not sure which type of agglomeration is right for your material? Find out in our feasibility testing lab - The Innovation Center.

For more information, contact us today at [FEECO.com/contact](http://FEECO.com/contact)