

SOIL AMENDMENTS: LIMESTONE & GYPSUM

Benefits to a granular product | How they are produced

GYPSUM

- Provides calcium and sulfur
- Helps to loosen compacted soils
- Improves water management



LIMESTONE

- Corrects acidic soils
- Helps make nutrients available to plants

BENEFITS OF GRANULAR

Whether gypsum or limestone (or other soil amendment), granular form offers a premium product with many advantages over the traditionally used powder form:



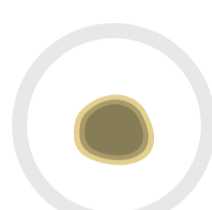
Improved handling, transportation, and application



Mitigation of dust and windblown material



More predictable results



Opportunity for additives and customization



A premium product with enhanced appearance

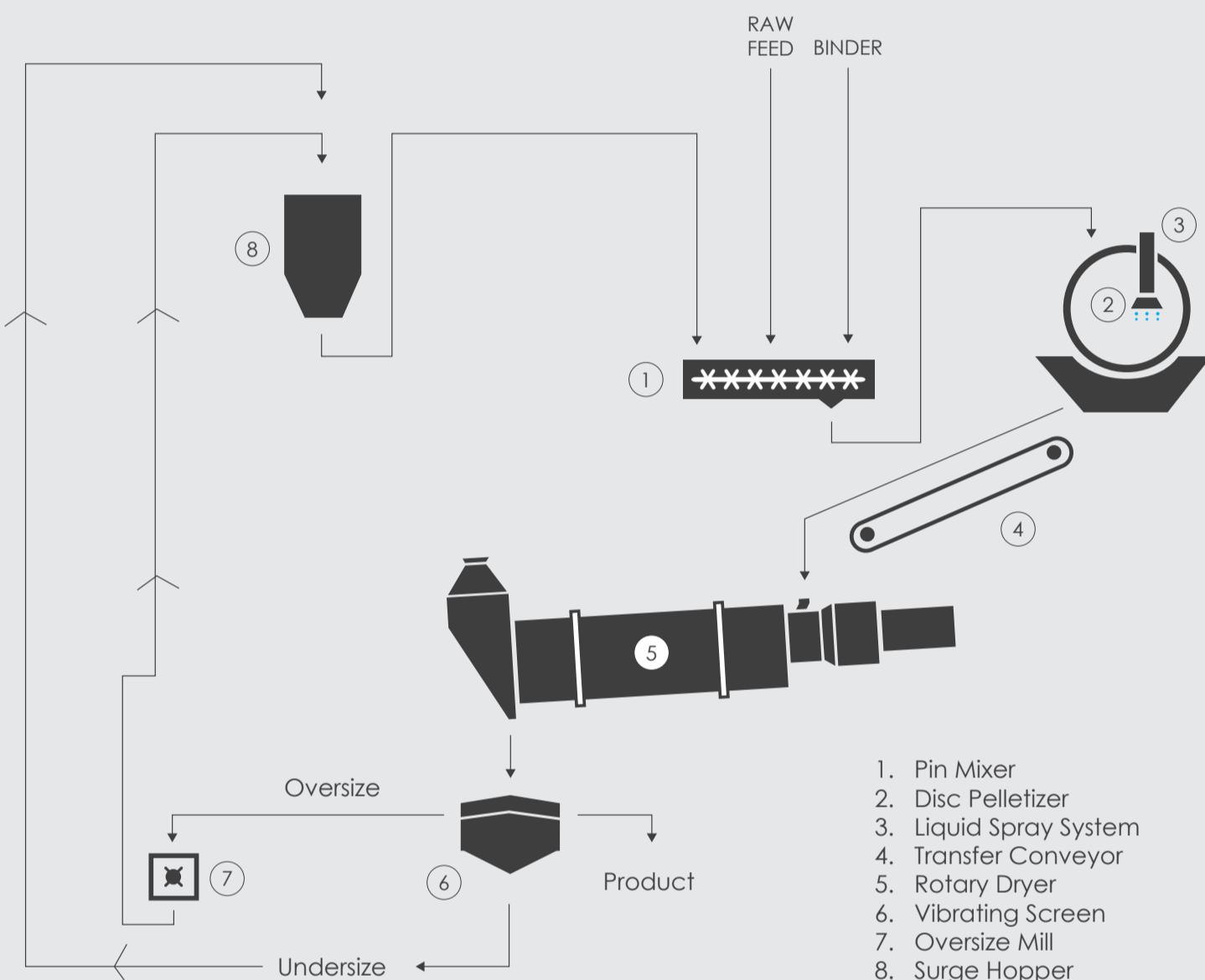


Segregation prevention



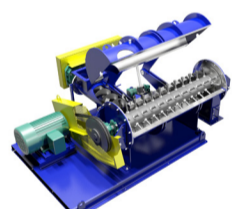
Reduced product lost as dust

PELLETIZING



1. Pin Mixer
2. Disc Pelletizer
3. Liquid Spray System
4. Transfer Conveyor
5. Rotary Dryer
6. Vibrating Screen
7. Oversize Mill
8. Surge Hopper

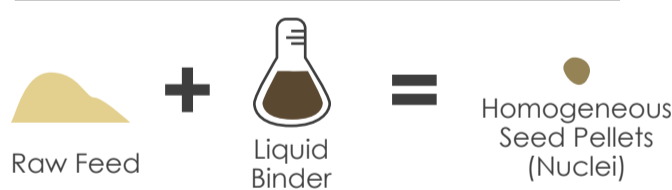
Shown above is a simplified flow diagram for a typical limestone or gypsum pelletizing operation. This process also employs a pin mixer for pre-conditioning.



FEECO Pin Mixer

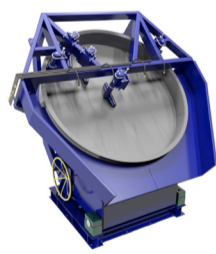
STEP ONE: PRE-CONDITIONING

Not all processes utilize a pre-conditioning step, but those that do see significant benefits. Pre-conditioning in a pin mixer serves to thoroughly mix the binder and material into a homogeneous mixture and prepare it for pellet formation.



BENEFITS TO PRE-CONDITIONING:

- Increased Production
- Easier Processing & Handling
- Improved Product Control
- Reduced Binder



FEECO Disc Pelletizer

STEP TWO: PELLET GROWTH

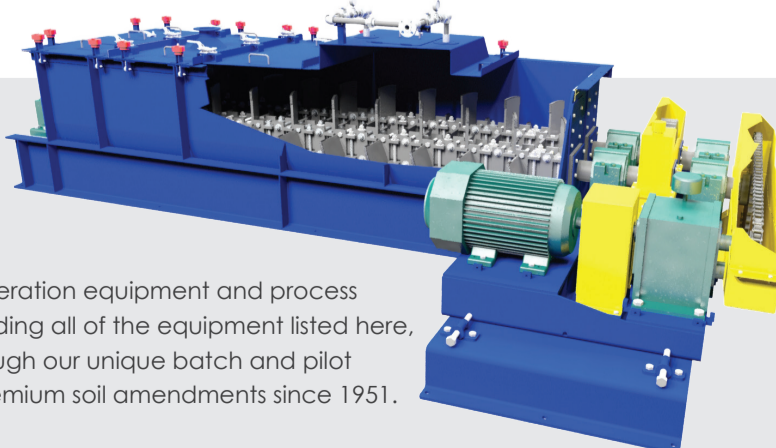
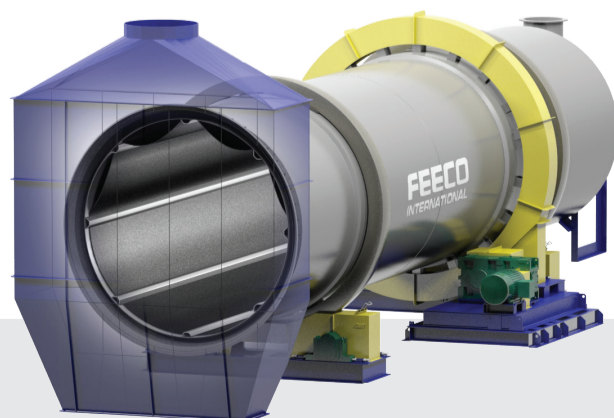
Seed pellets from the pin mixer are fed to the disc pelletizer. The rotation of the disc, combined with a continuous addition of binder and feedstock "grow" the pellets to the desired size via coalescence.



FEECO Rotary Dryer

STEP THREE: DRYING

"Green" (wet) pellets are fed to the rotary dryer to reduce the moisture content. The tumbling action of the rotating dryer further rounds and polishes the pellet product, yielding a premium product.



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. Through our unique batch and pilot testing facility, we've been helping our customers make premium soil amendments since 1951.

For more information, contact us today at FEECO.com/contact