

ANIMAL FEED PROCESS & HANDLING SYSTEMS

FEECO has been serving the agriculture industry since 1951.

The traditional approach to phosphorus-based animal feed production has been around for a long time and has served the market sufficiently. FEECO, however, has significantly improved on the production of granular Mono-Calcium Phosphate (MCP), granular Di-Calcium Phosphate (DCP), and granular De-Fluorinated Phosphate (DFP) animal feeds.

Through the implementation of our proprietary approach, you can achieve greater uniformity and overall crush strength. This process incorporates the addition of our high-speed mixer and is explained in detail on the back of this page.

FEECO can supply the granulation equipment only, or all of the processing equipment required to produce the granular animal feed products, including:

- Rotary Dryers & Coolers
- Conveyor Systems, Bucket Elevators, and Complete Material Handling Lines
- High-Speed Mixers
- Screens
- Pug Mills

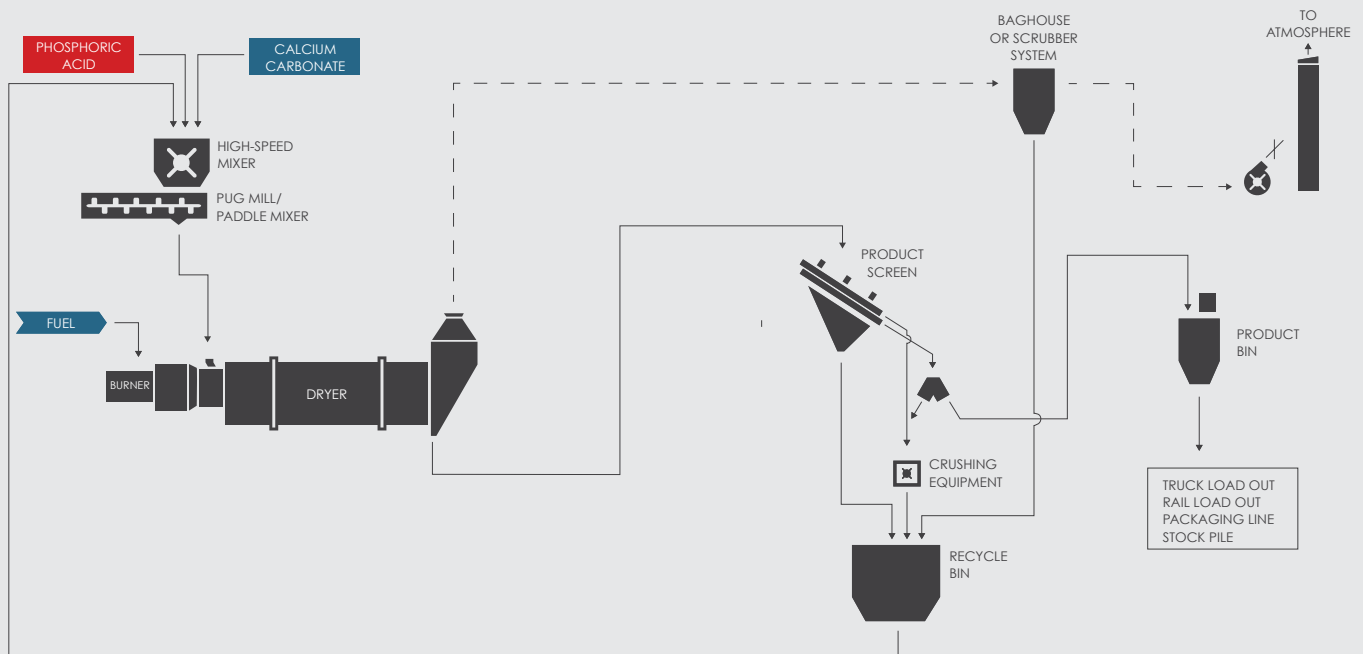
Some of the world's top MCP, DCP, and DFP animal feed providers rely on FEECO to help them produce a quality product, including:



GRANULATION WITH A **HIGH-SPEED MIXER**

Phosphoric acid and finely ground limestone (calcium carbonate) are fed into the vertical high-speed mixer. The mixer shaft is fitted with paddles and spins at 300-400 RPM in an enclosed vertical tube, which is mounted on top of the pug mill. Once thoroughly mixed and the reaction started, the mixture is fed via gravity into the pug mill where the reaction comes to completion and granulation occurs.

The use of our high-speed mixer as a pre-mixing step prior to the pug mill allows for a more intimate mixture of materials, and a more thorough reaction, ultimately yielding improved uniformity and crush strength. The FEECO approach to MCP, DCP, and DFP animal feed granulation is illustrated below.



COMPLETE SYSTEM SUPPLY

One of the many advantages to working with FEECO is that we can provide the complete system shown above and all of the necessary equipment.

Systems can be provided for capacities up to 50 MTPH and can be automated with a PLC-based control system, motor control center, and instrumentation.

