

# THE MANURE GRANULATION

HANDBOOK



FROM THE FEECO  
MATERIAL PROCESSING SERIES

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## Introduction

FEECO International was founded in 1951 as an engineering and equipment manufacturer. We quickly became known as the material experts, able to solve all sorts of material processing and handling problems, and now serve nearly every industry, from energy and agriculture, to mining and minerals, as well as waste transformation, and everything in between.

As sustainability continues to become a global focus, more than ever, advanced technologies are needed in creating beneficial reuse opportunities for increasing amounts of waste. Concurrently, the transformation of organic wastes is being looked at as the next generation in alleviating many of the issues created by the human impact on Earth.

FEECO has become the premier name in providing feasibility testing, process and product design, and custom processing equipment for organic waste materials. From idea, to complete process solutions and custom processing equipment, we offer unparalleled capabilities in transforming organic wastes into value-added, marketable products.

Many of the world's top companies have come to rely on FEECO for the best in custom process equipment and solutions. These companies include:



For further information on our custom processing equipment and systems, or our many other capabilities, [contact a FEECO expert](#) today.

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Intro to  
**MANURE**





## INTRODUCTION

Manure has been used for centuries as a way to give nutrients and organic matter back to soil, while providing an outlet for farmers to effectively manage their on-farm waste.

However, as our understanding of the world around us grows, experts are beginning to discern the long-term effects of nutrient runoff and buildup in our soils. This issue has become a key discussion in sustainability lately, as large, concentrated livestock operations replace smaller farms, and efficiently managing massive amounts of manure becomes a growing challenge.

Many are starting to recognize that the solution to these issues likely lies in the problem itself; although manure does pose challenges in its raw state, this “waste” contains an abundance of nutrients and organic matter.

As such, a rising need for technologies in transforming

manure and other organic wastes into fertilizer products can be explained as a culmination of numerous contributing factors. Among them:

- Non-renewable chemical fertilizer prices are volatile.
- Competition for land resources is increasing, resulting in less land to accommodate the increasing amounts of manure from larger herds.
- Manure is a renewable resource, unlike mined nutrient resources (i.e., Phosphorus, Potassium, etc.), which risk eventual depletion.
- Soils have become depleted of necessary nutrients and organic matter from the continued focus on macronutrients.

Much opportunity exists around nutrient recovery through the granulation of organic wastes, particularly manures, into premium fertilizer and soil amendment products. This handbook serves to examine the opportunities and benefits to this approach.

Please **fill out the form** to  
read the rest of this handbook.