

## Business Overview

Based on our unique foam molding technology, we manufacture and sell foam molding system and related equipment, sample prototyping through commissioned experiments, sell foamed PLA products, and have many achievements. We are also actively engaged in global business development outside Japan.



### PLASTEKO Corporation

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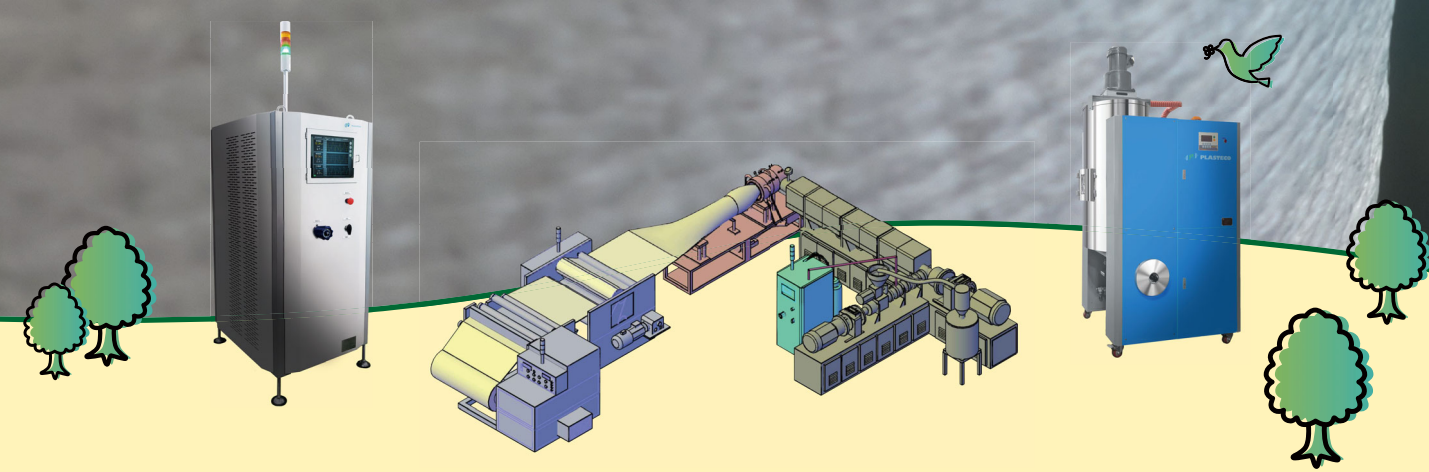


<https://plastecocorp.com>



# PLA+ TECO

All Green Technology  
Microcellular Foam Total Solution



**PLASTEKO**  
Plasteco corp.

# Inert Gas Foam Molding System

## Friendly for Environment and People. Plasteco Foam Technology for the future.

Plasteco Corporation is the only manufacturer specializing in foaming with inert gases (CO<sub>2</sub>, N<sub>2</sub>). Complete sets of Supercritical Inert Gas Extrusion Foam Molding Systems and related equipment such as Quantitative Gas Feeder and Dryer can be manufactured. We make the most of our strength as a specialist foam manufacturer with many years of experience and know-how cultivated through our many sales achievements, provide consistent and flexible support from raw materials to molding.

Safe and inexpensive foaming agent

High added value with ultra-fine foaming

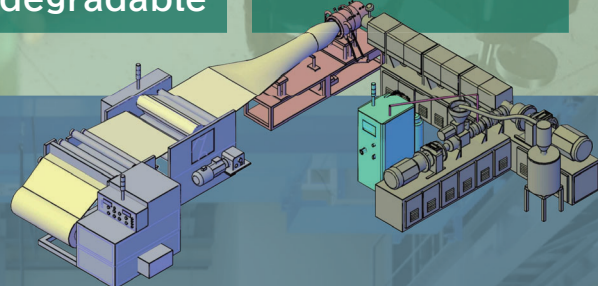
Reduce greenhouse gas emission



Reduce the use of raw materials by high-power foaming

New foaming materials such as biodegradable

Integrated support from raw materials to molding



### Inert Gas Foam Molding System

Using CO<sub>2</sub> and N<sub>2</sub> as foaming agents can reduce greenhouse gas emissions, safe and low-cost micro-foaming system with a complete set of extruders, gas feeder equipment and other necessary equipment.

#### LINEUP

##### CO<sub>2</sub> Foamed PLA Sheet Extrusion System

Extrusion system that includes all necessary equipment to form foamed sheets up to 30 times using 100% PLA.

##### CO<sub>2</sub> Foamed PLA Beads Extrusion System

This system includes complete set of necessary equipment to form beads into blocks and foam beads up to 60 times using 100% PLA.

##### Quantitative Inert Gas Feeder

Precision quantitative feeding equipment for CO<sub>2</sub> and N<sub>2</sub> used in the above foaming system. Effective for extrusion, injection molding and RIM molding.

##### Stirring Dehumidifying Dryer 'DryTeco-S'

Dehumidifying dryer with a stirring function suitable for resin that tend to fuse and adhere, such as bioplastics. Compact dryer with three integrated functions of dehumidifying, dryer, and conveying.



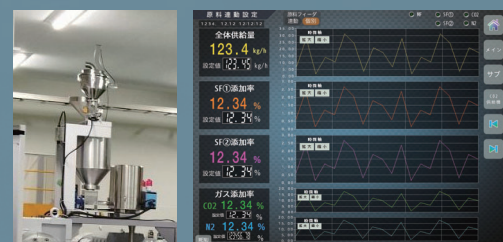
CO<sub>2</sub> Foamed PLA Sheet Extrusion System



DryTeco-S

##### Full-weight Weighing and Feeding System

This feeder is exclusive for inert gas foaming that quantitatively supplies main material (raw material) and secondary material (additives, etc.). The addition rate of each main material, secondary material, and gas can be linked and controlled.



Full-weight Weighing and Feeding System

##### CO<sub>2</sub> Feeder Equipment for PU Spraying

Compact CO<sub>2</sub> feeder equipment can be attached to PU spraying equipment at the construction site for CO<sub>2</sub> foaming. Stabilizes raw material consumption and improves insulation performance, contributes to the reduction of greenhouse gas emissions.

## PLA Micro-Foam Molded Products

Using our unique 'Inert Gas Foam Molding Technology', we have succeeded in micro-foam molding the biodegradable resin PLA (polylactic acid), which has been difficult to produce at high magnification using CO<sub>2</sub> and N<sub>2</sub> as a foaming agent that have a low impact environment. No chemical foaming agent is used, and the product is 100% biodegradable and carbon neutral. As a material that addresses to global environmental issues, it can be applied in variety of fields, including food trays, packaging materials, fishing and agricultural products, medical products, and interior decorations.



100% Plant Based

100% Biodegradable

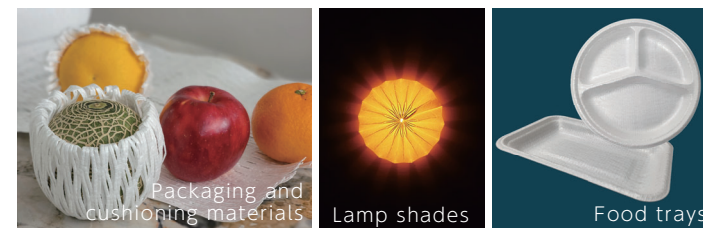
Low Environmental Impact Foaming Agent

Carbon Neutral

### CO<sub>2</sub> and N<sub>2</sub> Foamed PLA Sample Products

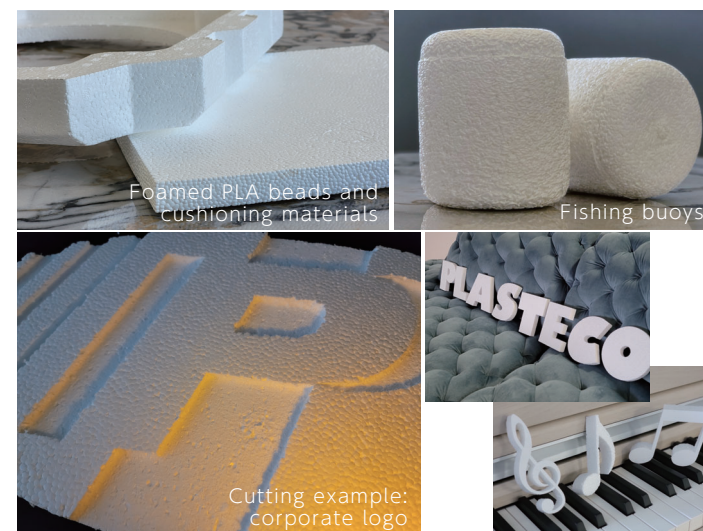
#### Foamed PLA Sheet Molding Products

Extruded foamed PLA sheets can be processed into a variety product by vacuum forming, cutting, and folding to any desired magnification.



#### Foamed PLA Bead Molding Products

Beads can be molded into any shape, such as cushioning material. They can also be molded into boards, blocks, etc., which can be processed by cutting or other way to create any desired shape. It can be used as a substitute for conventional Styrofoam products.



Example of application for the agricultural sector

#### Seed Protection Lid

This is an attempt to replace the lids used after planting shiitake mushroom seeds in the cultivation of log shiitake mushrooms with biodegradable foamed PLA instead of the conventional foamed Styrofoam.