



# PLASTICS & CHEMICAL **SOLUTIONS**



# HORIZON

S Y S T E M S

Smarter Process Solutions



# Plastics & Chemical Material Processing Solutions that Work Smarter, Not Harder

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When it comes to producing plastic goods and handling different chemical compounds, your reputation is based on the quality and consistency of your end product. No matter what source materials you include within your process, Horizon Systems' engineering-first approach and personalized service ensure that your entire process system is engineered to precisely execute your batching routine and deliver the quality your customers demand.

Horizon Systems has more than 40 years of broad end-to-end experience developing custom-engineered material handling solutions that conform to OSHA and NFPA guidelines to ensure the safety of your team, reduce the risk of explosion and minimize dust during your plastics and chemical handling process.

## Plastics sectors we serve:

Compounding & Blending	Pipe & Fittings
PVC Processing	Window Profiles
Engineered Resins & Pellets	Siding & Fencing
Composites	

## Chemical sectors we serve:

Fertilizers	Carbon Black
Synthetic Rubber	Detergents
Pigments	Dry solids



At Horizon Systems, we are true partners to our clients. That means committing to delivering the best possible solution to their needs, and finishing what we start. We stand behind the products and solutions we deliver, and ensure those systems continue operating at peak performance for as long as possible.

## **Engineering Starts Every Conversation**

We custom engineer and manufacture every material handling system to fit your exact needs. Our unique approach allows us to seamlessly integrate equipment in ways guaranteed to perform to your precise specifications.

When you start a project with us, we'll assign a dedicated project manager to oversee the design, install and startup of your system – coordinating with our mechanical, electrical, structural and automation experts throughout the process. Whether you're in need of a custom component, building a new process system from scratch, or modifying and upgrading an established production facility, you can trust our engineers to deliver the reliable results you and your customers demand.

# Industry-specific Solutions that Deliver Real Results

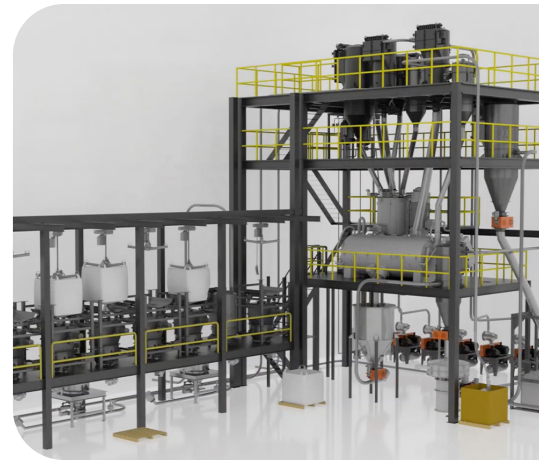
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Precision has always been essential in plastic and chemical manufacturing, but as the industry looks to diversify product offerings and companies undergo significant formulation growth, difficulties often arise when introducing new ingredients into the process. Horizon Systems has extensive expertise in new material inclusion and supporting formulation growth. We've engineered our flexible solutions to enable your systems to work smarter, more efficiently and more profitably.



## Custom Gravity Systems

Our gravity blend stacks integrate ingredient inventory and tracking solutions as well as our Intelligent Ingredient recipe matrix to provide both the accuracy and flexibility you need. We have extensive experience engineering and manufacturing highly accurate gravity downflow systems (or top-down systems) as well as space-saving hybrid gravity flow systems (or bottom-up systems). Customized recipe management controls regulate the introduction of ingredients into the process and modify the feeder sequencing based on each recipe or campaign.



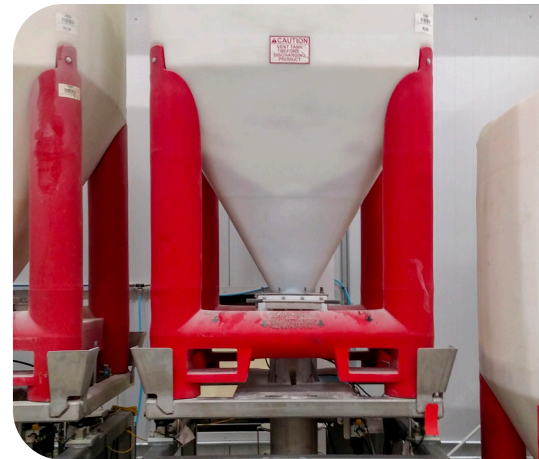
## Transfer Technology

Properly transferring ingredients can make all the difference in the quality and cost of the products you bring to market as well as the safety of your employees. From large particulates to fine powders, having the right transfer solution can reduce waste, improve consistency and minimize particle degradation. When pneumatically transferring plastics and chemical materials from delivery through blending and on to the extruder, we use either dilute phase, dense phase or our proprietary ConTran continuous dense phase material handling technologies.



## Storage Solutions

When your process requires multiple materials, the storage and access to those materials can make or break your final product. Our experts can engineer a system to efficiently unload ingredient railcar or truck into silo storage for all major ingredients, as well as provide streamlined integration of bag dumps, bulk bag dischargers and rigid intermediate bulk container (RIBC) loading stations for minor ingredients.



## Automation

Managing ingredients for multiple products is a balancing act. Taking a matrix-based approach into your process helps us design flexibility into your production, minimize the amount of equipment you need to produce your product and allow easy product changeovers.

Our intuitive batching software makes it easy to create recipes and sequences that utilize a wide range of source materials while ensuring accurate, repeatable recreation time and time again. Automated inventory control and lot tracking programs can integrate radio frequency identification (RFID) tags, barcodes or QR codes into new or existing inventory systems to help with accuracy.



# Comprehensive End-to-End Expertise That Works For You

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Whether you are looking to build an entirely new plastics or chemical process system, make your existing system more efficient or ensure your machines keep running at peak performance, you can trust the Horizon Systems team to provide the expertise and service you need.

## Horizon Systems Technology Center

Our Technology Center is a state-of-the-art facility where we conduct research and develop equipment to continually deliver new innovations and support our engineering initiatives. Our experts can run testing for both small- and large-scale material handling systems and components, analyzing densities, velocities, repose angles and more.

### Services Offered:

- ◇ Innovation and Testing
- ◇ Engineering
- ◇ Automation
- ◇ Custom Manufacturing and Machining
- ◇ System Installation
- ◇ Commissioning and Start Up
- ◇ Field and Aftermarket Support

## Field and Aftermarket Services

Our Field and Aftermarket Services are here to provide you with easy ordering of replacement parts and components, as well as component and system rebuilds and other service requests. You can trust our service solutions team to make sure you have what you need to keep your system running for as long as possible. We can even help you develop a list of recommended spare parts to keep in inventory.





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