

SPECIAL AND CENTRALIZED SYSTEMS

English







ALL AROUND  
YOUR SHAPE



*“With over 30 years of experience, we design, manufacture, and market advanced solutions for PET processing. Our systems ensure reliable storage, conveying, dehumidification, and dosing of granules and flakes, delivering maximum efficiency and quality in PET transformation.”*

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*For each product, features  
and options will be available.*



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# CHAPTER 1 – DOSING



## DGB SERIES | GRAVIMETRIC DOSING UNITS

In many plastic processing operations, **gravimetric dosing units play a fundamental role**, as they weigh and precisely regulate the exact percentage of each component at the point of entry into the manufacturing process.

**Nine basic models are available**, configurable from two to eight components, to adapt to various production needs. The operating cycle is fully automatic, and the control system, based on a Siemens S7 PLC with touchscreen interface, allows the operator to easily and intuitively set the dosing percentages.

## TECHNICAL FEATURES:

- Nine models suitable for production up to 3000 kg/h with different configurations;
- PLC or Microprocessor control;
- Colour touchscreen;
- Batch hopper with load cells;
- Mixer with load cells or level sensor;
- Set-up and report operation can be downloaded on an external drive;
- Stainless steel hoppers with manual slide gate for material fast discharge;
- Pneumatic slide gate for an accurate dosing;
- Polished stainless steel weighing hopper and mixer;
- RS485 Modbus/OPC-UA interface;
- Profinet interface for PLC version;
- Screw dosing unit for low percentages.

## ACCESSORIES:

- Connecting base;
- Storage hopper on wheels;
- Capacitive level sensor for buffer hopper;
- Pneumatic slide gate valve to be installed under the mixer;
- Pneumatic bridge breaker for no free flowing materials;
- Customized hoppers for flakes and regrind materials.

## ADDED VALUE:

- Constant monitoring of weighing;
- Automatic compensation for variations in component density;
- Automatic recalibration;
- Direct setting of component percentages;
- Precise and reliable control;
- Patented load cells under mixer.

## DGB SERIES | GRAVIMETRIC BATCH DOSING SYSTEMS

|                                 | DGB<br>50      | DGB<br>100     | DGB<br>200     | DGB<br>500     | DGB<br>800     | DGB<br>1200    | DGB<br>1500    | DGB<br>2000    | DGB<br>3000    |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Maximum throughput<br>(kg/h) *  | 50             | 150            | 200            | 500            | 800            | 1200           | 1500           | 2000           | 3000           |
| Components (n°)                 | 2-4            | 2-6            | 2-6            | 2-6            | 2-6            | 2-8            | 2-8            | 2-8            | 2-8            |
| Dosing range (%)                | 0,5-100        | 0,5-100        | 0,5-100        | 0,3-100        | 0,3-100        | 0,3-100        | 0,3-100        | 0,3-100        | 0,3-100        |
| Batch (kg)                      | 0,5            | 2              | 2              | 5              | 8              | 12             | 15             | 20             | 30             |
| Installed power (kW)            | 0,5            | 0,55           | 0,55           | 1,2            | 1,2            | 1,2            | 1,2            | 2,1            | 2,1            |
| Voltage (V) /<br>Frequency (Hz) | 400 /<br>50-60 | 400 /<br>50-60 | 400 /<br>50-60 | 400 /<br>50-60 | 400 /<br>50-60 | 400 /<br>50-60 | 400 /<br>50-60 | 400 /<br>50-60 | 400 /<br>50-60 |

\* Value obtained with a recipe of 2 components (pellets with bulk density 0,7 kg/dm³).



## CHAPTER 2 - FEEDING



## VLM/VLMX/VLV SERIES | SINGLE-PHASE HOPPER LOADERS

The VLM/VLMX/VLV series of single-phase hopper loaders has been designed to satisfy the **production requirements** of plastic materials manufacturers. This series is a **simple solution** for the automatic conveying of plastic granules to processing machines, drying hoppers, and dosing units.

The **VLMX** series features a transparent pyrex body.

The **VLV** series, powered by compressed air, ensures a conveying capacity of up to 30 kg/h of material over a maximum distance of 4 meters.

### TECHNICAL FEATURES:

- Stainless steel body;
- Blower with soft-start;
- Fabric filter;
- Automatic filter cleaning with compressed air accumulator;
- Material shortage alarm;
- Flexible hose with probe;
- Microprocessor control;
- ModBus RTU interface.

### COMPATIBLE ACCESSORIES:

- HM-HMC series maintenance hoppers;
- Mini pyrex hoppers for direct machine installation;
- PVN series proportional valve;
- Visual alarm;
- MWS series weighing ring.

### ADDED VALUE:

- Easy installation;
- User-friendly operation;
- Quick cleaning;
- Low operating costs.

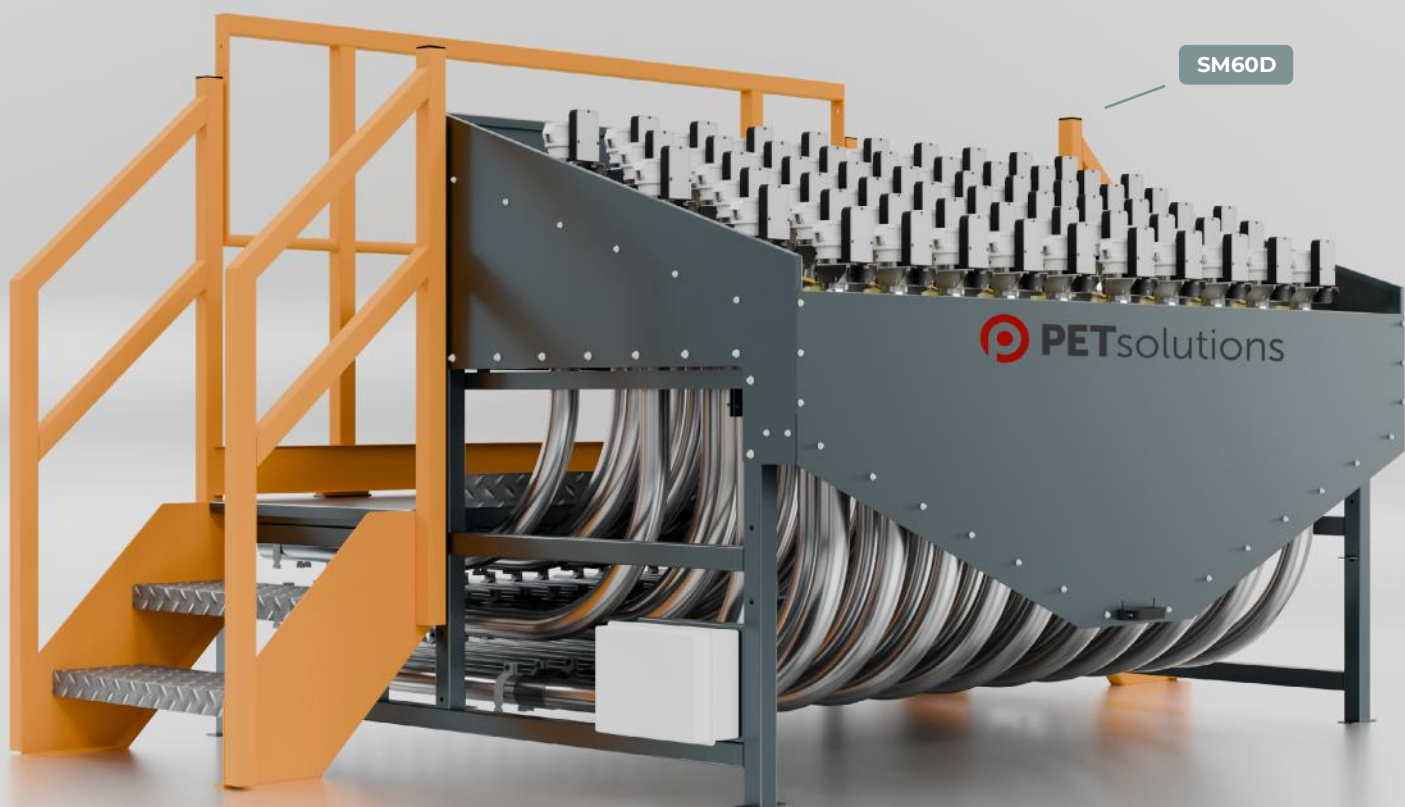
### VLM SERIES | SINGLE-PHASE HOPPER LOADERS

|                      | VLM2 | VLM4 | VLM5 | VLM8 | VLM10 |
|----------------------|------|------|------|------|-------|
| Throughput (kg/h)    | 40   | 60   | 80   | 90   | 120   |
| Maximum distance (m) | 5    | 5    | 10   | 10   | 10    |
| Receiver volume (l)  | 2    | 4    | 5    | 8    | 10    |
| Motor power (kW)     | 0.85 | 0.85 | 0.90 | 0.85 | 0.90  |

### VLMX SERIES | SINGLE-PHASE PYREX HOPPER LOADERS

|                      | VLMX4 | VLMX8 |
|----------------------|-------|-------|
| Throughput (kg/h)    | 60    | 90    |
| Maximum distance (m) | 5     | 10    |
| Receiver volume (l)  | 4     | 8     |
| Motor power (kW)     | 0.85  | 0.85  |





## SM SERIES | MANUAL MANIFOLDS

The SM series of manual manifolds allows **precise separation of different plastic materials** during transfer between various plant areas.

These manifolds feature quick-release fittings to speed up changeover operations and stainless steel piping. They can also be **equipped with a decoding control system**, enabling the operator to pre-select the combinations of plastic material withdrawal and destination.

The system verifies the correctness of the connections made during the operation, thus preventing contamination issues. Depending on application requirements, **various solutions are available** for the decoding system.

The manifolds are characterized by a **modular structure**, easily expandable to meet customer preferences and needs.

### TECHNICAL FEATURES:

- Quick cam lock fittings without gaskets;
- Modular design;
- Material decoding system;
- Up to 60 IN / 60 OUT.

### COMPATIBLE ACCESSORIES:

- Quick-release connectors to simplify mechanical and electrical connections;
- RFID reader for wireless, contactless decoding;
- Material collection frame designed to prevent spillage during loading;
- Busbar connections to serve up to 10 machines simultaneously.

### ADDED VALUE:

- Facilitated material flow;
- Ease of use, cleaning, and maintenance;
- Reliability: mechanical parts precision and PLC control with sensors ensure maximum reliability and functionality;
- Modularity: unique design, modularity, and the possibility of future expansion make this product an innovation in the sector;
- Safety: no risk for the operator.



# CHAPTER 3 - STORAGE



## S SERIES | STORAGE SILOS

**Plastic Systems** provides its expertise in know-how and engineering for the design and customization of storage silos for granules, regrind, and powders.

**We manufacture monolithic or modular storage silos in aluminum, steel, or stainless steel, with either long or short skirts.** Silos can be customized with centralized filtration systems, explosion protection systems, static mixing systems, thermal insulation, and mechanical extraction components.

### TECHNICAL FEATURES:

- Capacity ranging from 50 m<sup>3</sup> to 1,000 m<sup>3</sup>;
- Full construction in stainless steel, aluminum, or carbon steel;
- Monolithic or panel construction;
- Short skirt or long skirt configuration;
- Discharge cone designed according to the stored material;
- Ladders, railings, and connecting walkways;
- Loading pipes.

### COMPATIBLE ACCESSORIES:

- Weighing systems;
- Mechanical extraction systems;
- Suction valve;
- Level sensors;
- Protection systems;
- Fluidization systems;
- Local control;
- Insulation;
- Static mixing systems.

## TBB SERIES | BAG CUTTING SYSTEMS

PET Solutions has developed the TBB system to provide an efficient and **contamination-free solution** for emptying large bulk bags containing PET. This robust and reliable machine is designed to streamline the discharging process while ensuring the integrity of the material being handled.

The bulk bag is hooked onto a mechanical arm and precisely positioned over a stainless steel collection tank equipped with cutting blades. The bag is then lowered slowly onto the blades, allowing gravity to create a clean, controlled incision. The system **is engineered to cut three sides of the bag** in such a way that the removed section remains attached, preventing any fragments from falling into the product flow.

This process eliminates contamination risks and ensures that no fabric residues are introduced into the material stream. The result is a **precise, safe, and highly effective method for handling PET in bulk**, making the TBB system an ideal choice for plants requiring high standards of material purity and process reliability.

### TECHNICAL FEATURES:

- Painted modular structure, with components in contact with the material made of stainless steel;
- Tank with discharge cone;
- Pneumatic dampers for material flow control;
- Integrated vibration or shaking systems to facilitate emptying.

### ADDED VALUE:

- Easy use and enhanced accessibility;
- Maximum safety and operational reliability;
- Adaptable to big bags of various sizes;
- Quick installation and modular structure;
- High operational efficiency;
- Seamless integration with the existing plant.

### COMPATIBLE ACCESSORIES:

- Electric hoist for handling big bags;
- Bridge breaker system to prevent blockages;
- Screw conveyor for material extraction;
- Suction probes;
- Maximum fill level sensor;
- Customizable options with access ladders and walkable platforms.



## RBB AND SBB SERIES | FILLING AND DISCHARGING SYSTEMS

A complete range of systems is available for the **loading and unloading of big bags** containing plastic material. These bulk bags are commonly used for the storage and transport of loose materials such as pellets, regrind, flakes, and powders.

The RBB and SBB systems are designed to ensure **maximum flexibility and adaptability**, meeting the specific needs of each customer in terms of both plant layout and production capacity. The structures are modular and can be configured with a different options depending on customer's needs.

### TECHNICAL FEATURES:

- Painted modular structure, with components in contact with the material made of stainless steel;
- Tank with discharge cone;
- Pneumatic dampers for material flow control;
- Integrated vibration or shaking systems to facilitate emptying.

### ADDED VALUE:

- Easy use and enhanced accessibility;
- Maximum safety and operational reliability;
- Adaptable to big bags of various sizes;
- Quick installation and modular structure;
- High operational efficiency;
- Seamless integration with the existing plant.

### COMPATIBLE ACCESSORIES:

- Electric hoist for handling big bags;
- Bridge breaker system to prevent blockages;
- Screw conveyor for material extraction;
- Electromechanical agitator with vibration;
- Fluidizers for materials difficult to discharge;
- High-precision weighing system with integrated labeler;
- Suction probes;
- Maximum fill level sensor;
- Customizable options with access ladders and walkable platforms.

All Around Your Shape



## GCS SERIES | THRUST LOADING UNITS

The GCS Series represent the ideal solution for the **pneumatic conveying** of plastic materials from a loading station to both indoor and outdoor storage silos, ensuring high efficiency, reliability, and operational flexibility.

Designed to meet the demands of modern industrial production processes, the system guarantees a **conveying capacity of up to 20,000 kg/h**, with the ability to transport materials over distances of up to 100 meters horizontally and 20 meters vertically while maintaining consistent performance.

### TECHNICAL FEATURES:

- Rotary valve with inverter for system regulation;
- Overpressure valves to prevent pipeline clogging;
- Resin traceability system via PLC;
- Stainless steel hopper;
- Management through integrated software.

### ADDED VALUE:

- Big bag unloading hopper;
- Big bag unloading frame;
- Octabin tipper;
- Jib crane or overhead crane.

### COMPATIBLE ACCESSORIES:

- Traceability: enables continuous monitoring of resin and plastic material;
- Interfacing capability: the unit integrates with silos for optimal load management;
- Performance: the GCS Series ensures maximum efficiency in material transport;
- Compactness: the system is easy to position and move thanks to its small size and compact structure.



# PEGASO INDUSTRIES GLOBAL BRANCHES



**PEGASO**  
INDUSTRIES



**PEGASO**  
INDUSTRIES  
ASIA PACIFIC





**PEGASO**

INDUSTRIES



**PEGASO**

INDUSTRIES  
INDONESIA



**PEGASO**

INDUSTRIES  
INDIA



**PEGASO**

INDUSTRIES  
RUSSIA



**PEGASO**

INDUSTRIES  
LATIN AMERICA

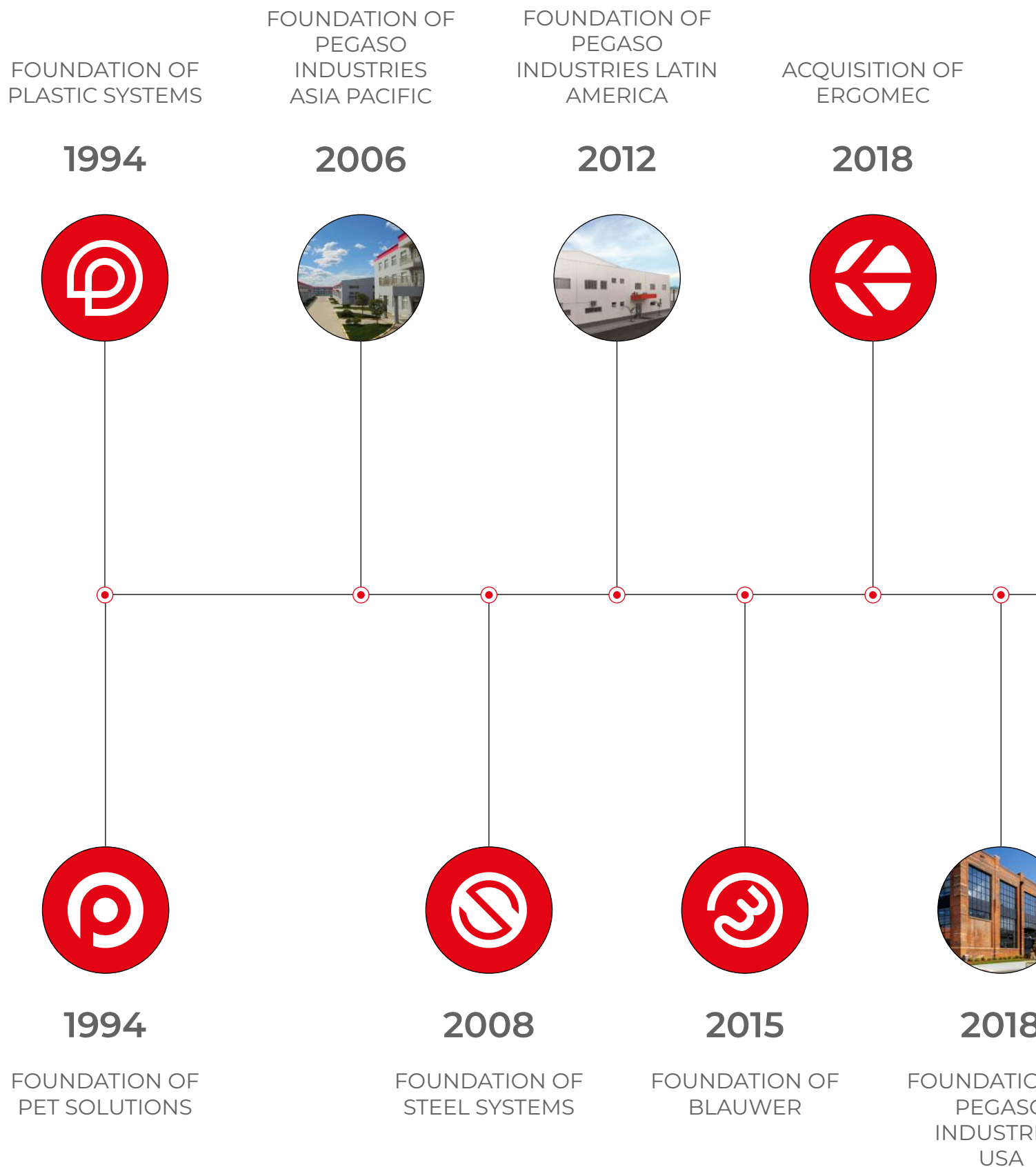


**PEGASO**

INDUSTRIES  
USA



# OUR HISTORY OVER THE YEARS





**PEGASO**  
INDUSTRIES

FOUNDATION OF  
PEGASO  
INDUSTRIES  
RUSSIA

**2018**

FOUNDATION OF  
PEGASO  
INDUSTRIES  
INDIA

**2021**

HQ EXPANSION  
AND NEW  
WAREHOUSE  
CREATION

**2024**

NEW INTERNAL  
LOGISTICS  
REORGANIZATION

**2026**



**2019**

FOUNDATION OF  
PEGASO  
INDUSTRIES  
AND NEW HQ



**2023**

ESTABLISHMENT  
OF THE JOINT  
VENTURE GREEN  
SOLUTIONS



**2025**

NEW  
WAREHOUSE  
ACQUISITION

A brand of



**PEGASO**  
INDUSTRIES

 **PET**solutions

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