

COMPANY PROFILE

English





WHERE AUTOMATION
MEETS SUSTAINABILITY



“Green Solutions empowers footwear manufacturers with advanced technologies that combine automation, recycling and traceability, creating smarter production processes and more responsible shoe soles”

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



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CHAPTER 1 – FEEDING



VLM/VLMX/VLB SERIES | SINGLE-PHASE HOPPER LOADERS

The VLM/VLMX/VLB 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 **VLB** series is equipped with a **brushless** motor, ensuring longer service life and improved conveying performance.

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

VLB SERIES | SINGLE-PHASE HOPPER LOADERS

	VLB5	VLB10	VLB25
Throughput (kg/h)	300	400	750
Maximum distance (m)	20	20	30
Receiver volume (l)	5	10	25
Motor power (kW)	1.1	1.1	1.8

The Throughput depends on the horizontal/vertical distance, number of bends, and type of material.





LDM/LDX SERIES | THREE-PHASE HOPPER LOADERS

The LDM/LDX series hopper loaders, combined with a PD series vacuum unit, are designed for the vacuum pneumatic conveying of plastic materials (granules, flakes, regrind) in **medium and high-capacity** production applications. This combination is the ideal solution for material loading over various distances.

TECHNICAL FEATURES:

- Material receivers from 2 to 500 liters;
- Stainless steel body;
- Microprocessor control;
- Automatic filter cleaning;
- Material shortage alarm;
- Fabric/metal mesh filter;
- ModBus RTU interface;
- Flap/pneumatic discharge;
- Large discharge;
- LDX version with glass body.

COMPATIBLE ACCESSORIES:

- PVN series proportional valve;
- Suction probe and hose;
- DUO series valve to connect two LDM/LDX receivers;
- VPC series pipeline cleaning valve;
- Acoustic alarm;
- Automatic filter cleaning with compressed air accumulator;
- MWS series weighing ring.

ADDED VALUE:

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

LDM SERIES | THREE-PHASE HOPPER LOADERS

		LDM2	LDM4	LDM5	LDM8	LDM10	LDM25	LDM50	LDM100	LDM150	LDM200
Receiver volume (l)		2	4	5	8	10	25	50	100	150	200
Diameter (mm)	Material	40/50	40/50	40/50	40/50	40/50	50/60	60/70	70/90	70/90	90
	Vacuum	40/50	40/50	40/50	40/50	40/50	50/60	60/70	70/90	70/90	90

LDX SERIES | THREE-PHASE PYREX HOPPER LOADERS

		LDX4	LDX8	LDX25
Receiver volume (l)		4	8	25
Diameter (mm)	Material	40/50	40/50	60
	Vacuum	40/50	40/50	60



LDP SERIES | THREE-PHASE POWDER HOPPER LOADERS

The **LDP** series of receivers offers an advanced solution for the vacuum pneumatic conveying of **powders**.

They are also suitable for conveying food, pharmaceutical, and chemical products.

These receivers are paired with **PD/PDC series** blowers.



LDP20

TECHNICAL FEATURES:

- Microprocessor control;
- Discharge valve operated by pneumatic actuator;
- Stainless steel container;
- Self-cleaning filter;
- Compact and modular design;
- Level sensor for loading management;
- ModBus RTU interface;
- Special version for Atex applications.

COMPATIBLE ACCESSORIES:

- Level sensor on receiver;
- Suction probe and hose;
- Pipeline cleaning valve;
- Acoustic alarm;
- Self-cleaning filter with inspection door;
- Powder fluidization systems.

LDP SERIES | THREE-PHASE POWDER HOPPER LOADERS

		LDP10	LDP20
Receiver volume (l)		10	20
Diameter (mm)	Material	50/60	50/60
	Vacuum	50/60	50/60



VLP

VLP SERIES - CUSTOM THREE-PHASE POWDER HOPPER LOADERS

To meet specific needs, Green Solutions has developed a range of **custom-made** products designed to satisfy a wide **variety of material handling** requirements and hourly throughput capacities. These receivers can be designed with **customized filtering surfaces** and various types of discharge, offering highly versatile and high-performance solutions.

PD/PDC SERIES | VACUUM PUMPS

The PD/PDC series vacuum pumps, when combined with receivers from the same series, are designed for vacuum pneumatic conveying of bulk materials (granules, flakes, regrind, powders, etc.) in **medium and high-capacity production applications**. These units are equipped with FZ/FC series filtration systems, which ensure effective dust separation.

PD SERIES | SIDE CHANNEL VACUUM PUMPS

	PD1		PD2		PD3		PD5	PD7		PD11		PD15
Suction capacity (kg/h)	200		300		500		1000	1500		2000		3000
Filter (optional) Filtering surface area (m ²)	FZ1 1.8	FC1 2.9	FZ1 1.8	FC1 2.9	FC1 2.9	FC3 7.5	FC3 7.5	FC3 7.5	FC8 13	FC3 7.5	FC8 13	FC8 13

*The suction capacity depends on the horizontal/vertical distance, number of bends, and type of material.
Other sizes of vacuum pumps are available upon request.*

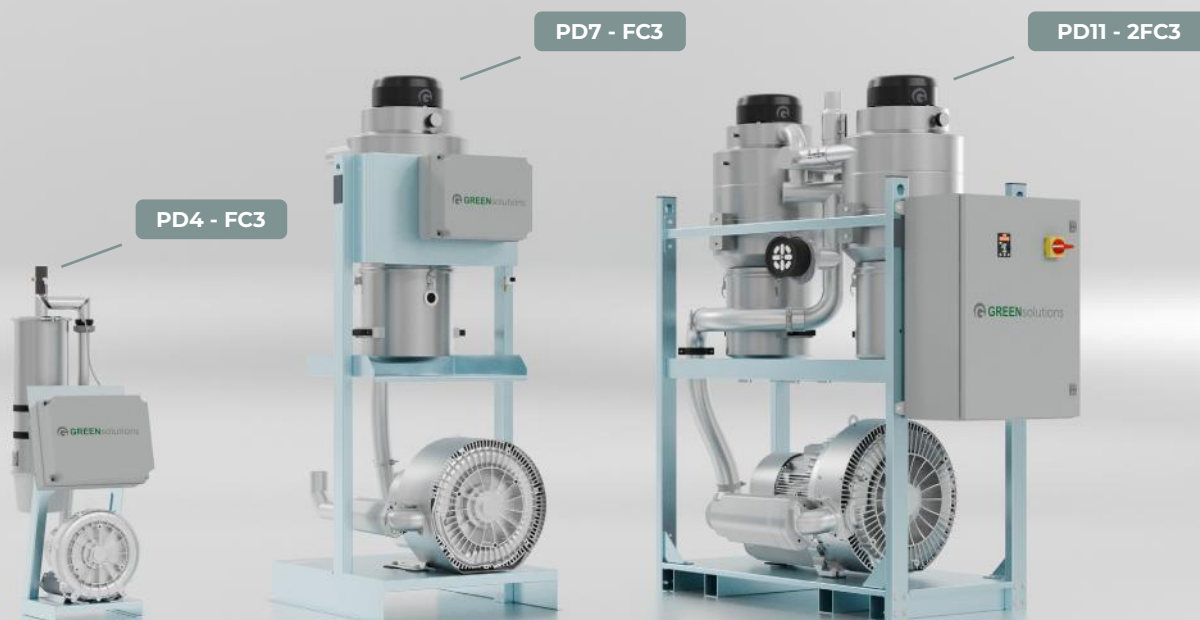
PDC SERIES | CLAW VACUUM PUMPS

	PDC4	PDC5	PDC7	PDC11
Suction capacity (kg/h)	500	1000	1800	2200
Filter (optional) Filtering surface (m ²)	FC3 7.5	FC3 7.5	FC3 7.5	2FC3 15

*The suction capacity depends on the horizontal/vertical distance, number of bends, and type of material.
Other sizes of vacuum pumps are available upon request.*

FC SERIES | FILTERS

	FZ1	FC1	FC3	2FC3
Filtering surface (m ²)	1.8	2.9	7.5	15
Cleaning type	Manual	Self-cleaning	Self-cleaning	Self-cleaning





TMM/TMX SERIES | THREE-PHASE HOPPER LOADERS

The TMM/TMX series hopper loaders, combined with a PM series vacuum pump and Matrix 4.0 server, are designed for the vacuum pneumatic conveying of plastic materials (granules, flakes, regrind) in **medium- and high-capacity production applications**. This combination is the ideal solution for loading different materials over various distances.

TECHNICAL FEATURES:

- Material receivers from 2 to 500 liters;
- Stainless steel body;
- Microprocessor control;
- Automatic filter cleaning;
- Material shortage alarm;
- Metal mesh filter;
- ModBus RTU interface;
- Flap/pneumatic discharge;
- Enlarged discharge;
- TMX version with glass body.

COMPATIBLE ACCESSORIES:

- PVN series proportional valve;
- 3WAY series three-way valve;
- VPC series pipeline cleaning valve;
- Acoustic alarm;
- Automatic filter cleaning with compressed air accumulator;
- MWS series weighing ring.

ADDED VALUE:

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

TMM SERIES | THREE-PHASE HOPPER LOADERS

		TMM2	TMM4	TMM5	TMM8	TMM10	TMM25	TMM50	TMM100	TMM150	TMM200
Receiver volume (l)		2	4	5	8	10	25	50	100	150	200
Diameter (mm)	Material	40/50	40/50	40/50	40/50	40/50	50/60	60/70	70/90	70/90	90
	Vacuum	40/50	40/50	40/50	40/50	40/50	50/60	60/70	70/90	70/90	90

TMX SERIES | THREE-PHASE PYREX HOPPER LOADERS

		TMX4	TMX8	TMX25
Receiver volume (l)		4	8	25
Diameter (mm)	Material	40/50	40/50	60
	Vacuum	40/50	40/50	60





AMMP SERIES | AUTOMATIC MANIFOLDS

The AMMP series of automatic manifolds represent the **ideal solution** for distributing plastic materials from storage/dehumidification areas to processing machines.

TECHNICAL FEATURES:

- Siemens PLC control;
- Gearmotor with integrated self-braking system;
- 7" color touchscreen;
- Inflatable seals;
- Anti-wear kit;
- Optional PIG cleaning system;
- Quick maintenance door with RFID safety micro-switch.

ADDED VALUE:

- Reliability;
- Easy maintenance and inspection.

	Connections – AMMP STD version	Connections – AMMP XL version
40	36	-
50	32	50
60	28	44
70	24	38
88,9	20	30
101,6	18	28
114,3	16	26



MMP SERIES | MANUAL MANIFOLDS

Designed for essential applications, the MMP series of manual manifolds offer a **simple and effective** solution for conveying plastic materials.

TECHNICAL FEATURES:

- Multiple connections up to 6 machines with the same material;
- Multi outlets connections;
- Modular construction;
- Optional decoding system for material identification;
- Quick couplings supplied as standard.

MATRIX CONTROL

The **Matrix 4.0** control system allows the management of **up to 10 blowers and 70 receivers**, the material decoding system, the “MWS” weighing systems, and integrates the “MMS” system for controlling the conveying speed of the material. EasyMatrix is a **compact solution** for managing up to 10 receivers and one blower, ideal for small departments or multi-station dehumidification or dosing systems.

For highly customized applications, Green Solutions develops **tailor-made PLC control solutions**, adapting them to the specific process and management requirements of each customer. This advanced system allows the integration of a wide range of machines and devices, such as diverter valves, rotary valves, robots, level sensors, dosing systems, and much more—providing **greater flexibility and optimization of the production process**.

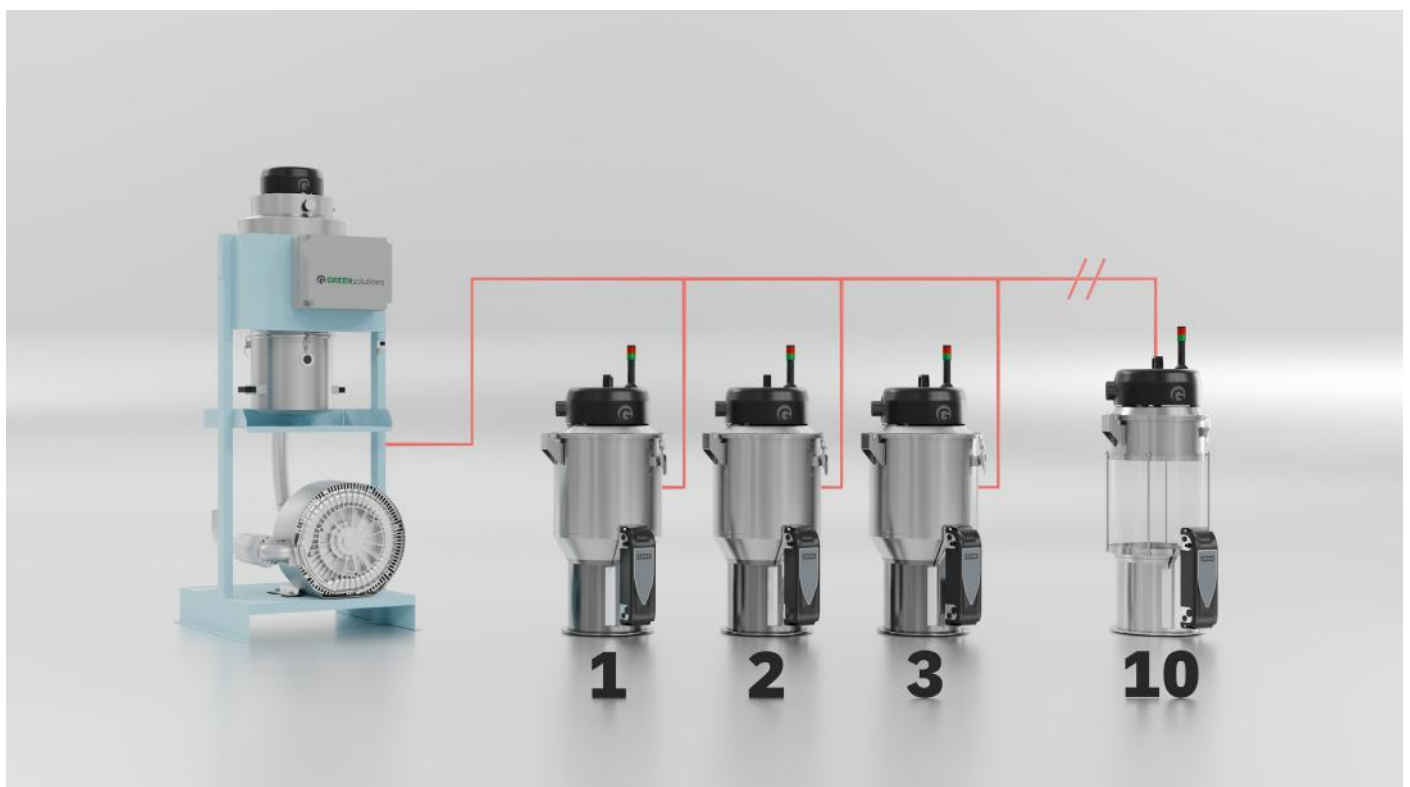
TECHNICAL FEATURES:

- Server with microprocessor or PLC control;
- Control of up to 70 receivers and 10 blowers;
- Automatic blower change-over management;
- Touch panel login with RFID technology;
- Material decoding with RFID technology;
- MWS weighing ring management for total material consumption tracking;
- Color touchscreen;
- Up to 5 automatic manifolds;
- Wi-Fi interface capability;
- Barcode management for material selection;
- Customization and integration with storage/dehumidification systems;
- Integrable with Easyway supervision system.

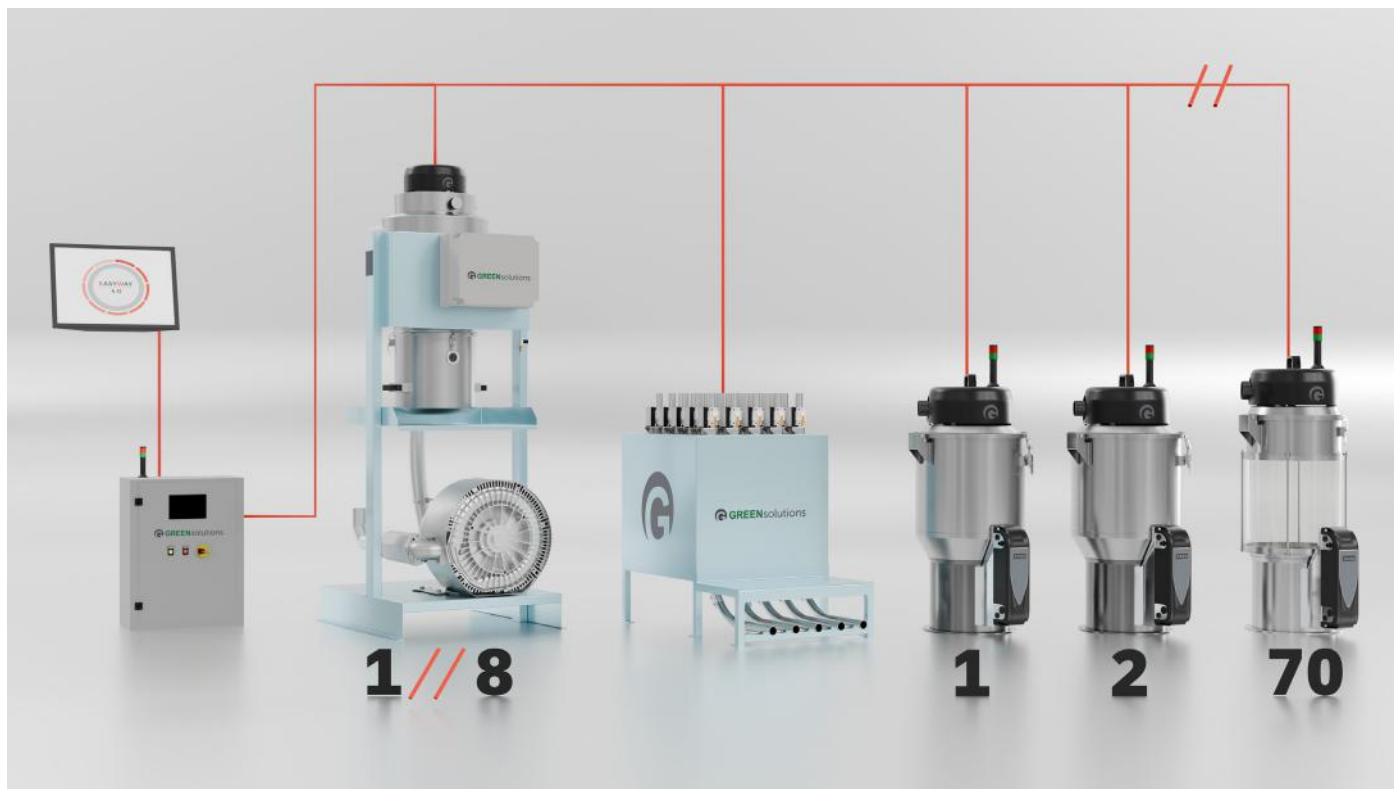
COMPATIBLE ACCESSORIES:

- Operation history traceability;
- MMS conveying speed management;
- DDP LED TV display panel;
- Operator login with RFID.

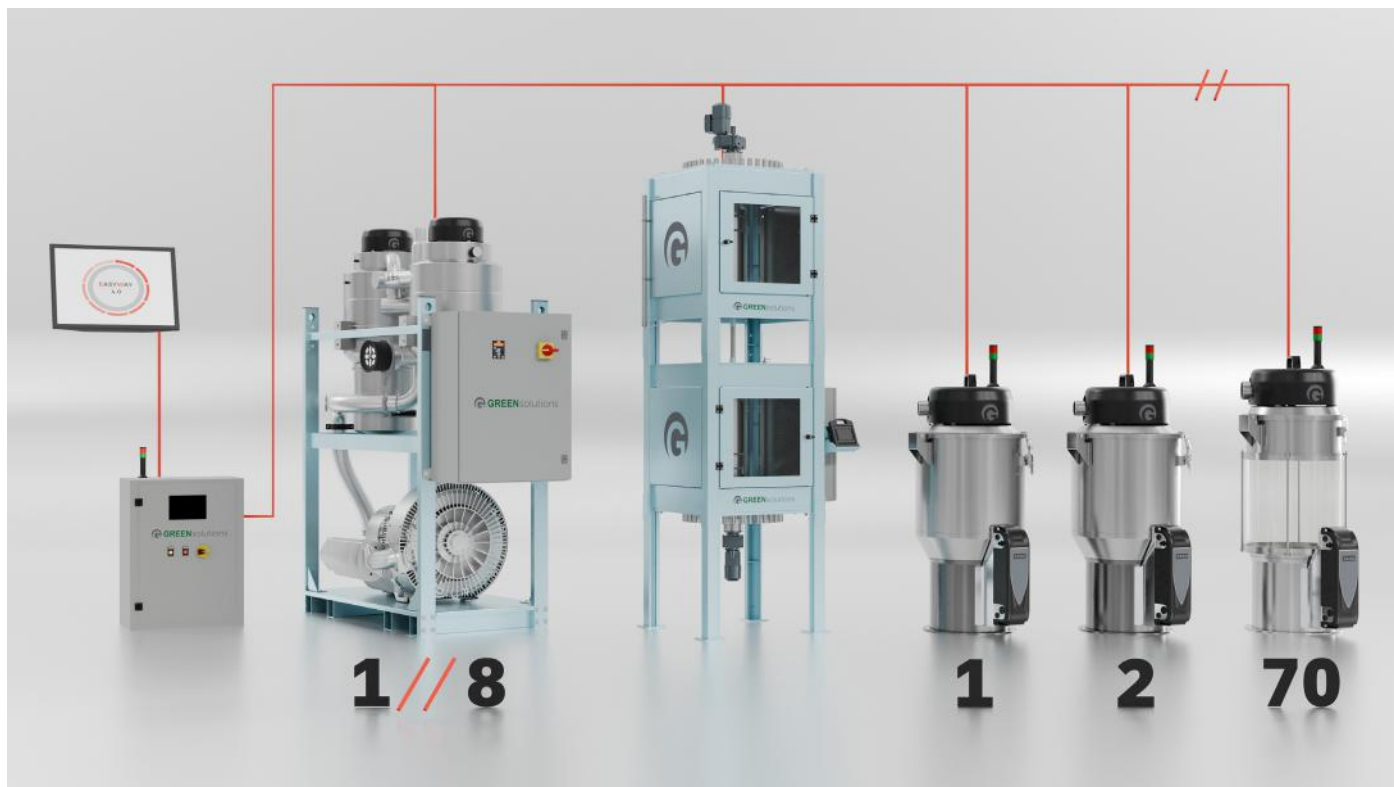
EASY MATRIX SERIES



MATRIX PCB SERIES



MATRIX PLC SERIES



EASYWAY

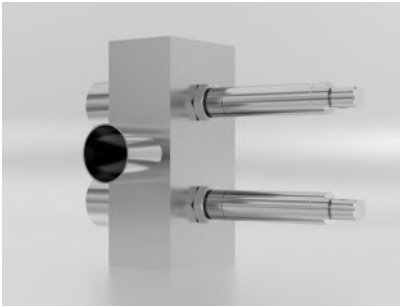
It is an innovative supervision system that enables full or partial management of **industrial plants** in compliance with Industry 4.0 directives. The system interacts intelligently with plant machinery, automating and optimizing production management for increased efficiency and operational simplicity.

TECHNICAL FEATURES:

- Possibility to connect Green Solutions machines with HMI interface;
- Display of key machine information;
- Option to create customized layouts;
- Interfaceable with management systems via OPC-UA and SQL Server database;
- Scheduled preventive maintenance planning;
- Trends of key machine data;
- Machine recipe management;
- Production order management and download of machine operating parameters;
- Remote assistance;
- Remote client access;
- Possibility to integrate third-party machines;
- Control of dehumidification and dosing systems;
- Traceability.

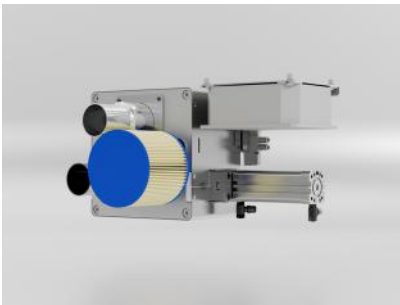


ACCESSORIES



DUO SERIES | VALVE

Valve suitable for vacuum connection between a three-phase feeder from the PD-PDC series and two receivers from the LDM-LDP series.



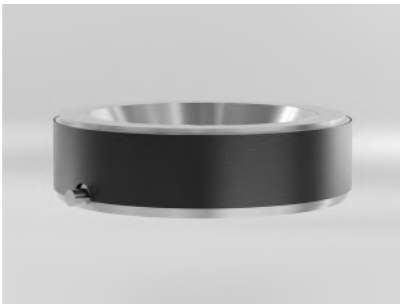
3WAY SERIES | THREE-WAY VALVE

Diverter valve that allows the splitting of a material line. Suitable for vacuum pneumatic conveying of plastic granules.



PVN SERIES | PROPORTIONAL VALVE

Valve installed at the material inlet of a VLM-LDM-TMM series receiver, used to convey two different materials (such as virgin and regrind) and mix them together proportionally.



MWS SERIES | WEIGHING RING

Device equipped with load cells, installed directly beneath a VLM-LDM-TMM series material receiver, designed to calculate the discharged material flow rate and totalize the quantity.



VPC SERIES | PIPELINE CLEANING VALVE

Valve suitable for cleaning the active material line at the end of each feeding cycle, controlled by three-phase blowers from the PD-PDC-PM-PMC series.



RP SERIES | COOLERS FOR VACUUM UNITS

Air/water heat exchanger installed at the intake of a three-phase blower from the PD-PDC-PM-PMC series, suitable for cooling the hot intake air and preventing damage caused by overheating.



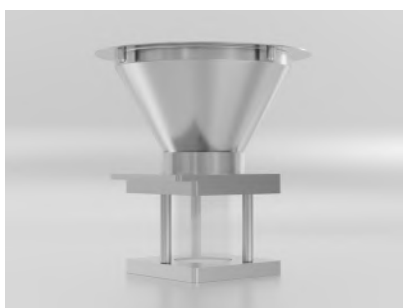
HM SERIES | MAINTENANCE HOPPER

Maintenance hopper designed to accumulate and discharge material directly above the machine feed throat. Non-insulated model.



HMC SERIES | INSULATED MAINTENANCE HOPPER

Maintenance hopper designed to accumulate and discharge material directly above the machine feed throat. The insulation prevents the material from cooling.



HMX SERIES | PYREX MAINTENANCE HOPPER

Maintenance hopper designed to accumulate and discharge material directly above the machine feed throat. The Pyrex glass discharge cylinder allows visual inspection of the material.



B SERIES | SIDE DISCHARGE BASE

Mounting base equipped with side discharge for quick material emptying during cleaning operations.

CHAPTER 2 – MATERIAL STORAGE



C SERIES | STORAGE CONTAINERS

Green Solutions' C series storage containers are designed **to ensure effective preservation and management of plastic materials**, offering versatile and safe solutions for industrial needs. Standard sizes range from 100 to 1700 liters. All models come equipped with brake wheels, discharge shutter, suction probe insertion pipe, and closing lid. Upon request, the following options are available: flange for automatic feeder connection, material level sensors, multi-way suction drawers, and bag breaker grid.

The CS version is suitable for poorly flowing materials, such as regrind and flakes. It is equipped with a level sensor, dual suction probe, and a fluidization system.

TECHNICAL FEATURES:

- Full stainless steel construction;
- Hermetically sealed lid;
- Swivel wheels with brake;
- Suction probe.

ADDED VALUE:

- Easy installation;
- User-friendly operation;
- Quick cleaning.

COMPATIBLE ACCESSORIES:

- Bag breaker grid;
- Level sensor;
- Magnetic grid;
- Product fluidization systems;
- Pipeline cleaning valve;
- Flange for feeder connection;
- Additional suction probe.

C SERIES | STORAGE CONTAINERS

	C100	C200	C350	CS350	C800
Hopper capacity (dm ³)	100	200	350	350	800
Dimensions WxDxH (mm)	580x580x1000	700x650x1200	820x800x1250	1230x1090x1310	980x960x1750
Weight (kg)	24	30	40	80	60

OCTI SERIES | OCTABIN INCLINATORS

Plastic Systems' tipper is an advanced solution **for the efficient and safe emptying** of industrial containers such as octabins and gaylords. **Designed to optimize material handling operations**, this system ensures consistent product withdrawal, minimizing manual intervention and increasing productivity.

TECHNICAL FEATURES:

- Compatibility with containers up to 200 cm in height: suitable for a wide range of octabins and gaylords;
- Controlled tilting system: facilitates container emptying;
- Fully automated operation: eliminates the need for manual intervention, increasing safety and efficiency;
- Available in versions with load cells or palletizable design.

ADDED VALUE:

- Operational efficiency: reduces emptying time and minimizes material loss;
- Enhanced safety: eliminates manual intervention, reducing the risk of injury;
- Flexibility: suitable for various container sizes and types.





SBB/SBBC SERIES | BIG-BAG UNLOADERS

The SBB series big-bag unloader is a solution designed for emptying big-bags containing granules, powders, or flakes. Its modular and telescopic structure adapts to **bags of various sizes**. To handle poorly flowing materials, such as regrind or powders, it can be equipped with bag shakers, bridge-break devices, and fluidization systems, ensuring consistent and continuous material flow. A convenient **electric hoist**, included in the SBBC version, facilitates loading operations—making this machine a versatile and reliable solution for big-bag handling.

TECHNICAL FEATURES:

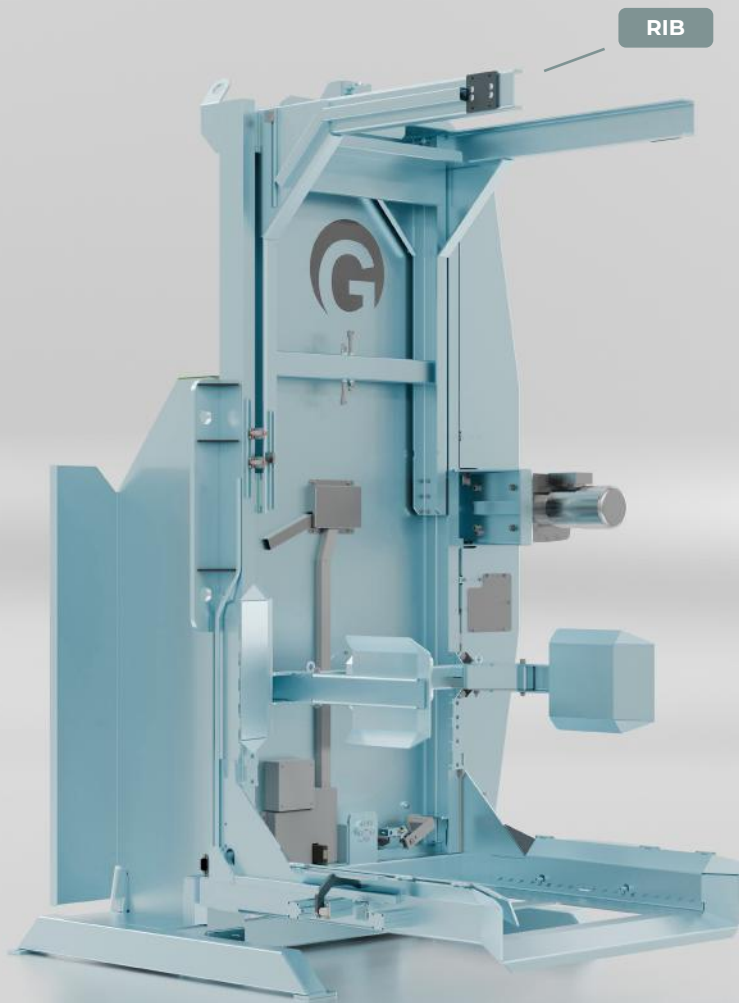
- Capacity up to 1,500 kg;
- Modular and telescopic structure, adaptable to bag size;
- Bridge-break device application;
- Safety support for bag opening.

COMPATIBLE ACCESSORIES:

- Bag shakers;
- Fluidization systems;
- Mechanical extractors;
- Bridge-break devices;
- Weighing systems.

ADDED VALUE:

- Adaptability to different big-bag sizes;
- Versions available for handling regrind or powders;
- Customization available based on customer requirements;
- Electric hoist for loading operations, improving ergonomics and safety.



RIB SERIES | TIPPERS

This machine allows the plastic pellets stored inside an octabin to be emptied into a storage hopper through **lifting and subsequent tipping**. This enables rapid emptying of the material, ensuring high hourly throughput.

The structure is designed to ensure stability and safety during all phases of the operating cycle, minimizing the need for operator intervention.

Additionally, the system is integrated with level sensors, locking devices, and PLC interfaces for fully automated process control.

This solution is particularly **suitable for facilities handling plastic materials**, where maintaining a constant and reliable flow to the next processing stages is essential.

TECHNICAL FEATURES:

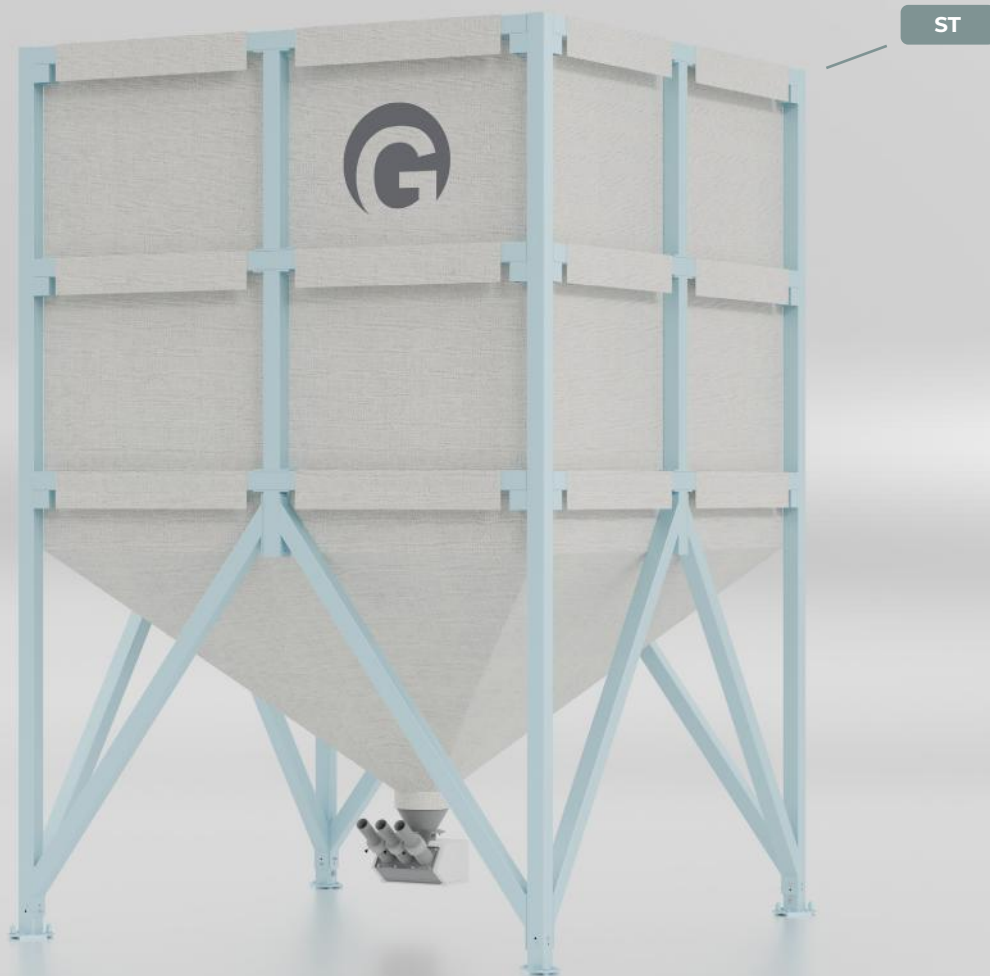
- Side protection panels made of perforated sheet metal with safety system;
- Tipping mechanism operated by chains;
- Customizable discharge height from the ground;
- Clamping grippers;
- Control panel.

ADDED VALUE:

- Maximum operator safety;
- Flexible configuration;
- Excellent visibility during operation;
- User-friendly operation.

COMPATIBLE ACCESSORIES:

- Suction or pressure conveying system;
- Load cells;
- Optical safety barriers.



ST SERIES | FABRIC SILOS

Reinforced and breathable fabric silos offer a **more versatile and cost-effective solution** for indoor storage of granules, regrind, and powder materials.

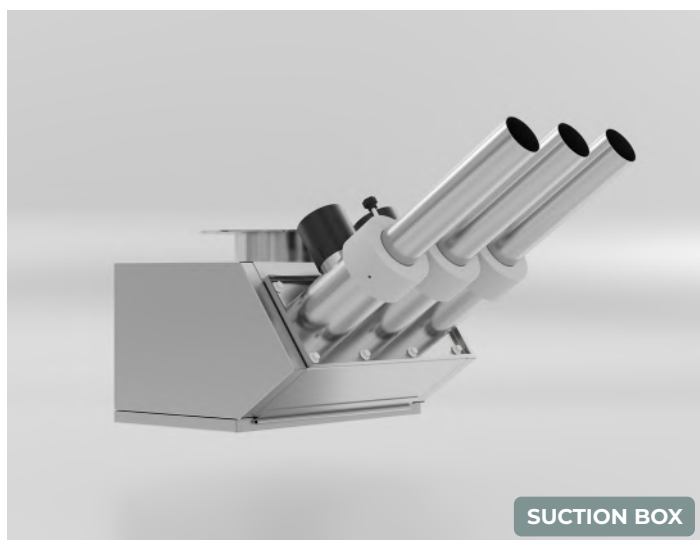
They are particularly suitable for systems where **design flexibility** is essential.

TECHNICAL FEATURES:

- Capacity from 2 to 60 m³;
- Antistatic fabric;
- Modular steel support structure;
- Inspection window.

COMPATIBLE ACCESSORIES:

- Load cells;
- Vibrating bottom;
- Suction box with pickup probe;
- Mechanical extractors;
- Level sensors.



SUCTION BOX



CQ SERIES | MODULAR CONTAINERS

Modular containers represent a **smart solution** for material storage.

Thanks to their scalable structure, capacity can be progressively expanded, **adapting to plant evolution** without invasive structural modifications.

TECHNICAL FEATURES:

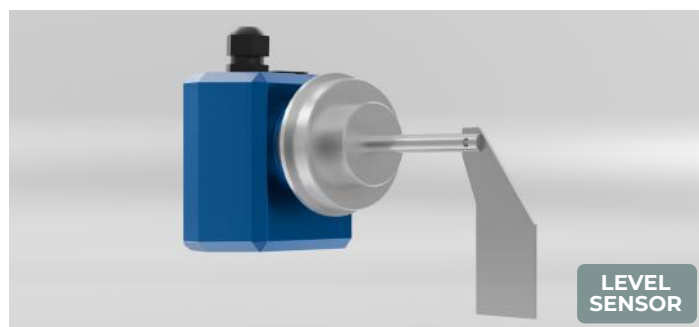
- Capacity from 1,000 to 20,000 liters;
- Modular structure;
- Compatibility with pneumatic conveying systems;
- Stainless steel structure.

COMPATIBLE ACCESSORIES:

- Flange for feeder connection;
- Material level sensors;
- Multi-way suction drawers;
- Mechanical extractors.

ADDED VALUE:

- Maximum space utilization;
- Low maintenance;
- Easy transport and assembly.





S SERIES | STORAGE SILOS

Green Solutions 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 m³ to 1,000 m³;
- 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.

MVP SERIES | VERTICAL MIXERS

The MVP series vertical mixers are designed to ensure both storage and mixing of plastic materials in granule or flake form. Available in various capacities, **they suit all production needs** — from small to large scale. They can be equipped with optional accessories such as forced material loading systems, load cells, level sensors, and integrated control panels. The mixers can be built in **carbon steel** or **stainless steel**, and the unit can be customized for handling highly abrasive materials.

TECHNICAL FEATURES:

- Loading hopper with safety grid;
- Enclosed mixing screw;
- Bottom discharge pipe equipped with butterfly valve;
- Visual level indicator;
- Inspection door on the cylinder;
- Electrical control panel.

COMPATIBLE ACCESSORIES:

- Level sensor;
- Connection for suction probe;
- Flange for feeder or cyclone connection;
- Top discharge pipe equipped with pneumatic butterfly valve;
- Forced loading hopper.



VERTICAL MIXERS

	MVP 500	MVP 1000	MVP 1800	MVP 2500	MVP 3500	MVP 5000	MVP 8000	MVP 10000	MVP 14000	MVP 16000	MVP 20000
Capacity (dm ³)	500	1000	1800	2500	3500	5000	8000	10000	14000	16000	20000
Noise level (dBA)	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80
Power (kW)	2.2	4	5.5	5.5	7.5	7.5	7.5	11	11	15	18.5
Weight (kg)	220	300	460	490	610	800	1070	1200	1350	1500	2200

GCS SERIES | THRUST LOADING GROUPS

Pushing loading units are ideal for pressure pneumatic conveying from a compact ground station to both indoor and outdoor storage silos. **Hourly capacities range from 500 to 15,000 kg/h**, depending on conveying distances. They are suitable for emptying 25 kg bags, big bags, and octabins.



TECHNICAL FEATURES:

- Stainless steel discharge hopper;
- Painted steel frame;
- Safety grid;
- Rotary valve suitable for pressure pneumatic conveying;
- Control panel;
- Optional level sensor.

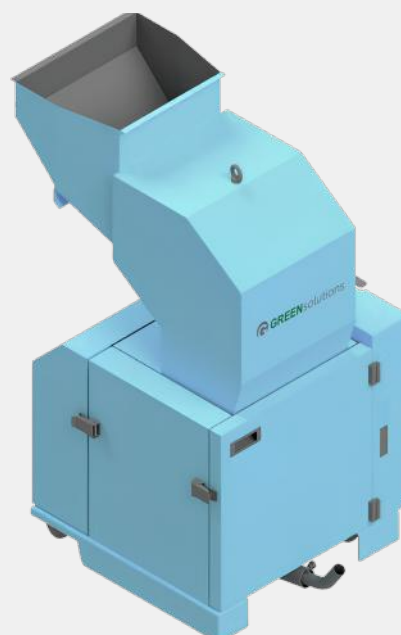
ADDED VALUE:

- Customizable hopper based on available space;
- Specific version available for regrind handling;
- Customization available according to customer requirements.

SERIES GR | GRANULATORS

The GR Series, available in the **GR 100 and GR 200 models**, is designed for efficient and reliable granulation in demanding industrial applications.

The granulators feature **motor-integrated rotating discs** to prevent side creep, overheating and dust resistant containment rings, and a wear-prevention chamber for enhanced durability. **No-blowback hoppers** ensure safe and clean feeding, while **soundproofing** helps reduce operating noise.





SVS/SVST SERIES | AUTOMATIC BAG EMPTYING UNITS

The **SVS bag emptying unit** is designed for processing companies that handle **25 kg bags**. It is a compact and automated solution aimed at optimizing the production process. The **SVST series** is equipped with a telescopic arm, allowing for a reduced overall machine height, making it easily adaptable to spaces with structural limitations or specific plant layout requirements.

TECHNICAL FEATURES:

- Processing capacity of up to 110 bags per hour;
- Depalletizing system with pneumatic vacuum gripper and laser sensors;
- Disposal of empty bags into a dedicated container;
- Intelligent control with 10" touch-screen PLC interface;
- Customizable modular design.

ADDED VALUE:

- Elimination of human intervention, increasing productivity;
- Waste reduction through complete bag emptying;
- Direct interface with company systems;
- Perimeter guards and advanced safety sensors.

CHAPTER 3 – DOSING



DUG SERIES | GRAVIMETRIC DOSING UNITS

The DUG Series has been designed to **ensure optimal and efficient automatic dosing** of masterbatches, additives and regranulated material. These units combine design and technology into a synergistic system that ensures high flexibility, adapting to various dosing requirements on injection molding machines, blow molding machines, and extruders.

The range stands out for the **wide variety of stainless steel screws** available in different diameters.

The screw profile allows precise and consistent dosing, while the inclined dosing screw shaft guarantees maximum performance in terms of accuracy and stability.

TECHNICAL FEATURES:

- Inclined shaft feeder;
- Driven by brushless motor;
- Control panel and 7" LCD display installed directly on the feeder or remotely (optional);
- Self-learning calibration and tuning with simple manual slide gate opening;
- Lower slide gate for material discharge;
- Flanged connecting base for units installation;
- Equipped with static mixer;
- RS485 Modbus/OPC-UA interface;
- Patented solution: the DUG features a dual load cell system.

ADDED VALUE:

- Recipes database;
- Fast color change and quick cleaning;
- Wide range of stainless steel dosing screws and barrels;
- Minimized material waste at the start of weighing process;
- Adaptable to various types of material;
- Customized units for high throughput application and regrind materials.

COMPATIBLE ACCESSORIES:

- Remote control panel and 7" touch LCD display ;
- Polished stainless steel hopper;
- Material shortage alarm with capacitive sensor;
- Venturi feeder for compressed air material loading;
- Mixer;
- Cooled version for high temperature application;
- 14l hopper with hopper loader support.

DUG SERIES | GRAVIMETRIC DOSING UNITS

	Voltage	DUG10	DUG10H	DUG30	DUG30H	DUG60H
Dosing range (kg/h)	-	0.07÷17.5	0.07÷17.5	0.15÷32.5	0.15÷32.5	4.5÷72
Rated power (kW)	110-230/50	0.16	0.16	0.16	0.16	0.16
Noise level (dBA)	-	<80	<80	<80	<80	<80
Weight (kg)	-	18	20	19	21	29
Water flow rate (l/min)	-	-	5	-	5	5
Air flow rate (NI/min) *	-	105	105	105	105	248

"H" = cooled version | * Venturi feeding system.



DUV SERIES | VOLUMETRIC DOSING UNITS

The DUV Series has been designed to **ensure optimal and efficient automatic dosing** of masterbatches, additives and regranulated material. These units combine design and technology into a synergistic system that ensures high flexibility, adapting to various dosing requirements on injection molding machines, blow molding machines, and extruders.

The range stands out for the **wide variety of stainless steel screws** available in different diameters.

The screw profile allows precise and consistent dosing, while the inclined dosing screw shaft guarantees maximum performance in terms of accuracy and stability.



TECHNICAL FEATURES:

- Inclined shaft feeder;
- Driven by brushless motor;
- Control panel and 7" LCD display installed directly on the feeder or remotely (optional);
- Self-learning calibration and tuning with simple manual slide gate opening;
- Lower slide gate for material discharge;
- Flanged connecting base for units installation;
- Equipped with static mixer;
- RS485 Modbus/OPC-UA interface.

ADDED VALUE:

- Recipes database;
- Fast color change and quick cleaning;
- Wide range of stainless steel dosing screws and barrels;
- Minimized material waste at the start of weighing process;
- Adaptable to various types of material;
- Customized units for high throughput application and regrind materials.

COMPATIBLE ACCESSORIES:

- Remote control panel and 7" touch LCD display ;
- Polished stainless steel hopper;
- Material shortage alarm with capacitive sensor;
- Venturi feeder for compressed air material loading;
- Mixer;
- Cooled version for high temperature application.
- 14l hopper with hopper loader support.

DUV SERIES | VOLUMETRIC DOSING UNITS

	Voltage	DUV10	DUV10H	DUV30	DUV30H	DUV60H
Dosing range (kg/h)	-	0.07÷17.5	0.07÷17.5	0.15÷32.5	0.15÷32.5	4.5÷72
Rated power (kW)	110-230/50	0.16	0.16	0.16	0.16	0.16
Noise level (dBA)	-	<80	<80	<80	<80	<80
Weight (kg)	-	18	20	19	21	27
Water flow rate (l/min)	-	-	5	-	5	-
Air flow rate (NI/min) *	-	105	105	105	105	248

"H" = cooled version | * Venturi feeding system.



DGB SERIES | GRAVIMETRIC BATCH DOSING SYSTEMS

In many plastic processing operations, **gravimetric dosing systems** play a crucial role by accurately weighing and controlling the proportion of each component before it enters the production process. There are 9 standard models available, with configurations ranging from 2 to 8 components.

The entire dosing cycle is fully automated. An integrated **smart control** with touchscreen allows the operator to easily set the desired dosing percentages for each material. Each component is weighed in its dedicated dosing hopper. Once the predetermined total batch weight is reached, the materials are discharged into the **mixer**, where they are thoroughly blended. The mixer ensures a homogeneous mixture.



DGB500

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.

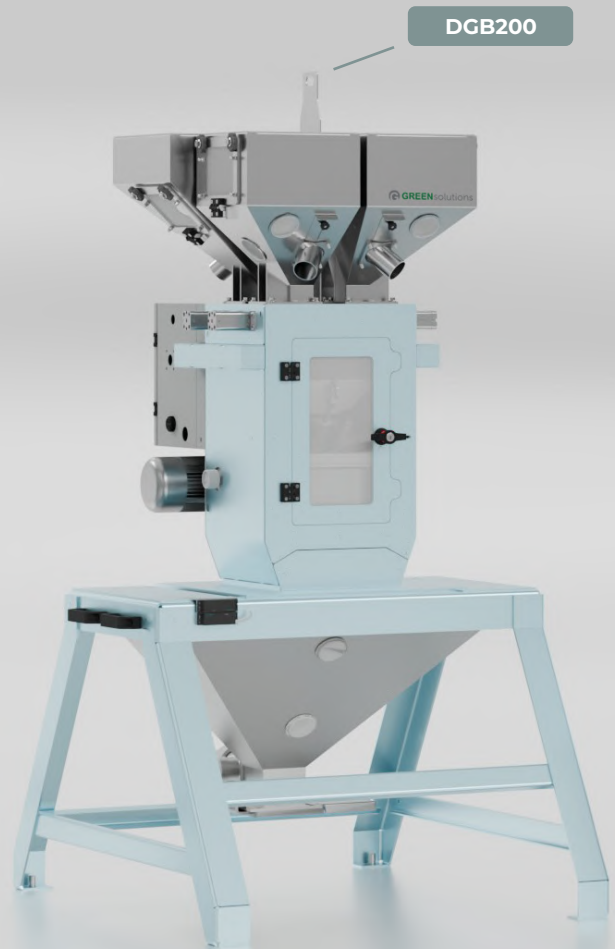
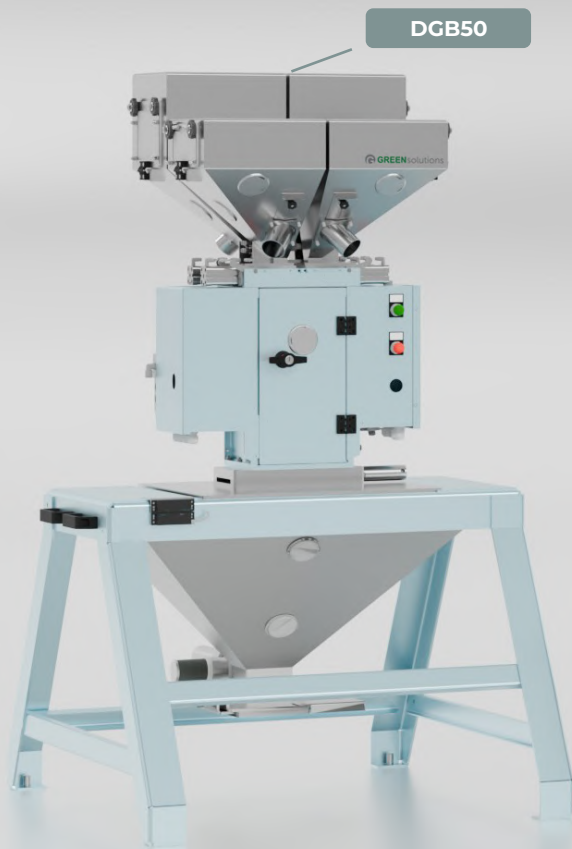
DGB SERIES | GRAVIMETRIC BATCH DOSING SYSTEMS

	DGB 50	DGB 100	DGB 200	DGB 500	DGB 800	DGB 1200	DGB 1500	DGB 2000	DGB 3000
Maximum throughput (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) / Frequency (Hz)	400 / 50-60	400 / 50-60	400 / 50-60	400 / 50-60	400 / 50-60	400 / 50-60	400 / 50-60	400 / 50-60	400 / 50-60

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



DGB SERIES - GRAVIMETRIC BATCH DOSING SYSTEMS





CHAPTER 4 – DRYING



DAC SERIES | AIR COMPRESSED DRYERS

The DAC Series dryers **enhance great performances in the treatment of hygroscopic engineering materials**, featuring two molecular sieve towers that alternate operation to ensure optimal treatment of hygroscopic polymers. The range includes 7 models with hoppers from 1 to 100 liters, supporting throughputs of up to 20 kg/h.

They use the combined effect of compressed air expansion at atmospheric pressure and molecular sieve treatment to achieve dew point values between -25°C and -50°C. Ideal for **injection molding machines in small to medium production settings and laboratory applications**.

TECHNICAL FEATURES:

- Microprocessor control with LCD display;
- Airflow regulation via modulating valve based on hourly consumption;
- Weekly programmer;
- ModBus RTU/TCP interface.
- Visual alarm;
- Manual slide gate;
- Safety filter for oil;
- External connections for dew point reading;
- Pyrex version available up to 2 liters.

COMPATIBLE ACCESSORIES:

- Integrated dew point sensor for DAC control;
- Portable dew point sensor;
- Granule loader with Venturi system;
- Pyrex base (DAC 6–50);
- Base with discharge outlet (DAC 30–100);
- Touchscreen;
- Inspection door.

ADDED VALUE:

- Facilitated programming;
- Up to 30% reduction in mold cycles;
- Automatic stress-relief system.



DAC SERIES | AIR COMPRESSED DRYERS

	DAC2 NV	DAC6 N	DAC15 N	DAC30 N	DAC50 N	Turbo-DAC75	Turbo-DAC100
Airflow (m ³ /h)	1-3	2-5	4-12	6-16	6-20	15-40	15-40
Process temperature (°C)	50-140	50-140	50-140	50-140	50-140	60-140	60-140
Total installed power (kW)	0.65	0.65	0.65	0.95	0.95	1	1
Hopper capacity (l)	1-2	6	15	30	50	75	100
Compressed air (bar)	6-8	6-8	6-8	6-8	6-8	6-8	6-8
Voltage (V) / Frequency (Hz)	230 / 50-60	230 / 50-60	230 / 50-60	230 / 50-60	230 / 50-60	230 / 50-60	230 / 50-60



DWH SERIES | ROTOR DRYERS

The DWH Series dryers, based on rotor technology, **ensure high performance** in the dehumidification process, combining maximum operational efficiency with versatile application.

The constant dew point can reach temperatures of **up to -40°C**, depending on operating conditions, with airflow rates up to 120 m³/h. The process temperature can be **set up to 140°C**, ensuring precise control even in the most demanding applications.

Compatible with a wide range of hoppers **from 15 to 200 liters**, enabling modular and flexible integration with production needs.

TECHNICAL FEATURES:

- Microprocessor control with color touchscreen;
- Modulating airflow based on production demand via brushless motor;
- Self-adjusting Dew Point control for process optimization;
- Regeneration temperature control based on required Dew Point;
- Dedicated blower for rotor cooling;
- Electronic PID control of process temperature;
- Daily/weekly scheduler;
- Material anti-stress function;
- Modular system;
- Standard/customizable material database;
- ModBus RTU/TCP interface.

COMPATIBLE ACCESSORIES:

- DWH trolley;
- Material bin.

ADDED VALUE:

- Dew Point stability;
- Energy efficiency;
- Production process consistency;
- Easy programming.
- Airflow control.

DWH SERIES | ROTOR DRYERS

	DWH25	DWH50	DWH80	DWH120
Max Airflow (m ³ /h)	25	50	80	120
Process temperature (°C)	Up to 140	Up to 140	Up to 140	Up to 140
Total installed power (kW)	2	3,5	9	9
Power Consumption 80° (W/kg)	60	60	60	60
Hopper capacity (l)	15/30/50	50/75/100	100/150/200	100/150/200
Voltage (V) / Frequency (Hz)	230 / 50	230 / 50	400 / 50	400 / 50



DW SERIES | ROTOR DRYERS

The DW Series dryers, equipped with rotor technology, deliver **high-level performance** in dehumidification and ensure maximum efficiency and operational versatility.

The DW models maintain a **constant Dew Point value** between -25°C and -40°C depending on drying conditions, with airflow rates ranging from $40\text{ m}^3/\text{h}$ to $1.000\text{ m}^3/\text{h}$. The process temperature can be set up to 150°C .

Compatible with a wide range of hoppers with capacities from 30 dm^3 to 3.000 dm^3 . The features of this new series make it suitable for use in both **single-hopper and multi-hopper systems**.

The DW Series dryers are available with integrated heating chamber for medium-temperature applications (**MT version**) and for high-temperature applications (**HT version**).

For multi-hopper systems the dryers are supplied without heating chamber (**CS version**).



TECHNICAL FEATURES:

- Microprocessor control;
- Modulating airflow with inverter based on production demand;
- Self-regulating Dew Point control for process optimization;
- Electronic PID control of process temperature;
- Daily/weekly scheduler;
- Regeneration temperature control based on required Dew Point;
- Material anti-stress function;
- Standard/custom material database;
- ModBus RTU/TCP interface.

COMPATIBLE ACCESSORIES:

- Dew Point sensor;
- 7" color touchscreen.

ADDED VALUE:

- Energy efficiency;
- Continuous performance monitoring;
- Multi-hopper dehumidification.



DW SERIES DRYERS | ROTOR DRYERS

	DW120	DW200	DW250	DW300	DW400	DW600	DW1000
Airflow (m ³ /h)	40-120	70-200	80-250	100-300	130-400	200-600	300-1000
Process temperature (°C)	60-150	60-150	60-150	80-250	60-150	60-150	60-150
Total installed power CS (kW)*	3,1	5,2	5,4	6,9	14,5	16,0	19,0
Total installed power MT (kW)	5,1	8,7	10,4	11,9	22,0	31,0	41,5
Voltage (V) / Frequency (Hz)	400 / 50-60	400 / 50-60	400 / 50-60	400 / 50-60	400 / 50-60	400 / 50-60	400 / 50-60

* External heating chamber to be integrated.



HAD2500



HAD SERIES DRYERS

The hot-air dryers of the **HAD Series** have been specifically engineered for the efficient drying of non-hygroscopic plastic granules. Non-hygroscopic plastics are polymers that retain only minimal amounts of surface moisture, typically in very small percentages. Nonetheless, even this small amount of **humidity** can adversely affect the processing of the material, potentially compromising both the efficiency of the process and the quality of the finished product.

The HAD series of hot-air dryers is divided into two distinct ranges to **accommodate different production requirements**.

The first range, HAD30 to HAD200, offers **airflow rates from 70 to 200 m³/h** and is designed for direct installation on injection molding machines or extruders, providing a compact and efficient drying solution. The second range, HAD300 to HAD2500, delivers higher airflow rates **from 400 to 1350 m³/h** and is installed on a dedicated support structure, making it ideal for larger-scale operations requiring enhanced drying capacity.

All HAD dryers are designed to ensure uniform drying, energy efficiency, and optimal process reliability, enabling manufacturers to **maintain high-quality standards** in their production lines while minimizing downtime and material waste.

TECHNICAL FEATURES:

- Microprocessor control;
- Electronic PID control of process temperature;
- Daily/weekly scheduler;
- Inspection hatch from model HAD100;
- Insulated hopper;
- Suction box;
- Fix frame or trolley;
- External heating chamber.

ADDED VALUE:

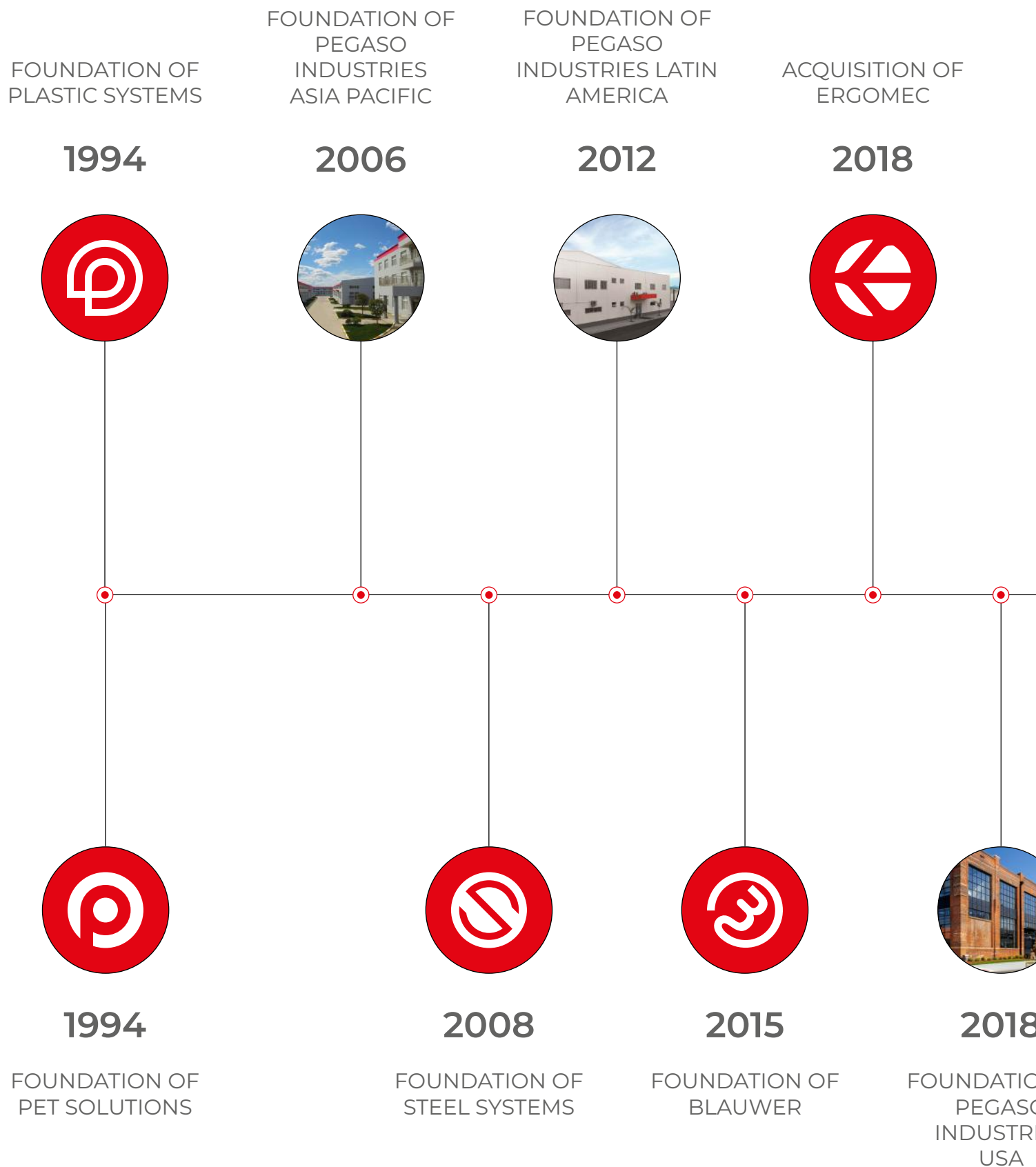
- Design for flakes;
- Load cell application;
- High-temperature application;
- Integrable with vertical mixers.

HAD SERIES | HOT AIR DRYERS

	HAD 30	HAD 50	HAD 75	HAD 100	HAD 150	HAD 200	HAD 300	HAD 400	HAD 600	HAD 800	HAD 1200	HAD 1500	HAD 2000	HAD 2500
Max process airflow (m ³ /h)	70	70	100	100	200	200	200	400	600	600	600	750	1000	1350
Process temperature (°C)	140	140	140	140	140	140	140	140	140	140	140	140	140	140
Total power (kW)	1.68	1.68	2.58	2.58	3.97	3.97	3.97	10.35	13.1	13.1	13.1	34.5	34.5	51.5
Hopper capacity (l)	30	50	75	100	150	200	300	400	600	800	1200	1500	2000	2500
Voltage/Frequency (V/Hz)	230/50-60		400/50-60											



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

PEGASO INDUSTRIES GLOBAL BRANCHES



PEGASO
INDUSTRIES



PEGASO
INDUSTRIES
ASIA PACIFIC





PEGASO

INDUSTRIES



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INDONESIA



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 **GREEN**solutions

Green Solutions S.r.l. Via Piovega, 17/G - 35010 Borgoricco (PD)
Tel: +039 049 099 8939 - info@greensolutionssrl.it - www.greensolutionssrl.it