



MAVITEC
— Green Energy —

Paddle Depacker



Mavitec Green Energy

Mavitec Green Energy depackaging systems are designed to separate the organic fraction from the packaging. Our machines are able to depack a wide variety of organic food waste and produce a very clean organic output which is extremely suitable for biogas/biodiesel installations, with results showing organic soups which are >99,7% pure as well as the cleanest packaging fraction in the market.

The Paddle Depacker comes in various capacities, ranging from 2m³ up to 30m³ per hour for each machine.

FEATURES PADDLE DEPACKER

- Heavy duty execution
- Hydraulic opening doors
- One machine suitable for a wide variety of input materials
- Variable screen sizes
- Click & run system for paddles and screens
- Low noise & minimal downtime
- Easy maintenance & cleaning
- Carbon or stainless steel
- Low water consumption

Food waste depackaging solutions

The **Paddle Depacker Model S** separates packaging from organic material to produce clean organic output up to 99,7% clean. Its user friendly, low-maintenance design sets it apart from other systems. The Paddle Depacker Model S has a production rate up to 3 tons per hour.

The **Paddle Depacker** offers similar features but with greater robustness and higher throughput. Like the Model S the Paddle Depacker can process both wet and dry materials, reaching the same organic cleanness of up to 99,7%. For large capacity plants, several units can be placed in parallel.

The **Paddle Washer** is designed to wash packaging and decrease the weight of packaging output. The machine discharges an extremely clean plastic and raises organic yield. The cleaner plastics can be disposed of at a lower cost.



**PADDLE
DEPACKER
MODEL S**



**PADDLE
DEPACKER**



**PADDLE
WASHER**

SPECS	Capacity:	up to 5m³ per hour
	Power:	15 kW
	Weight:	1200 kg
	Dimensions:	L:2200 x W:850 x H:1320mm
SPECS	Capacity:	up to 30m³ per hour
	Power:	45 kW - 55 kW
	Weight:	4500 kg
	Dimensions:	L:3672 x W:1252 x H:2057mm
SPECS	Capacity:	up to 12m³ per hour
	Power:	37 kW
	Weight:	3500 kg
	Dimensions:	L:3899 x W:1460 x H:4191mm

A selection of valued customers



David Lourme
Regional Director Suez

We chose Mavitec Green Energy for their commitment to delivering high-quality organic output as well as the cleanest packaging output.

entosystem

prezero

VEOLIA

suez

ROTO TRANS EKO d.o.o.

AAT
BIOGAS TECHNOLOGY

SARVAL

DARLING
INGREDIENTS

Swancote
Energy

VALODIRECT

ORMONDE
Organics

renewi

BENC
PAUL SCHWENKER

STRABAG

NEUFETT TWIST

Randers Kommune

VOMM

BiogasTec
Biogastechnologie en advies

E-G-PIK
PARTNER

DAM

Przedsiębiorstwo Jasta Sp. z o.o.

ASGARD
RENEWABLES

ReFood
pure Biokraft

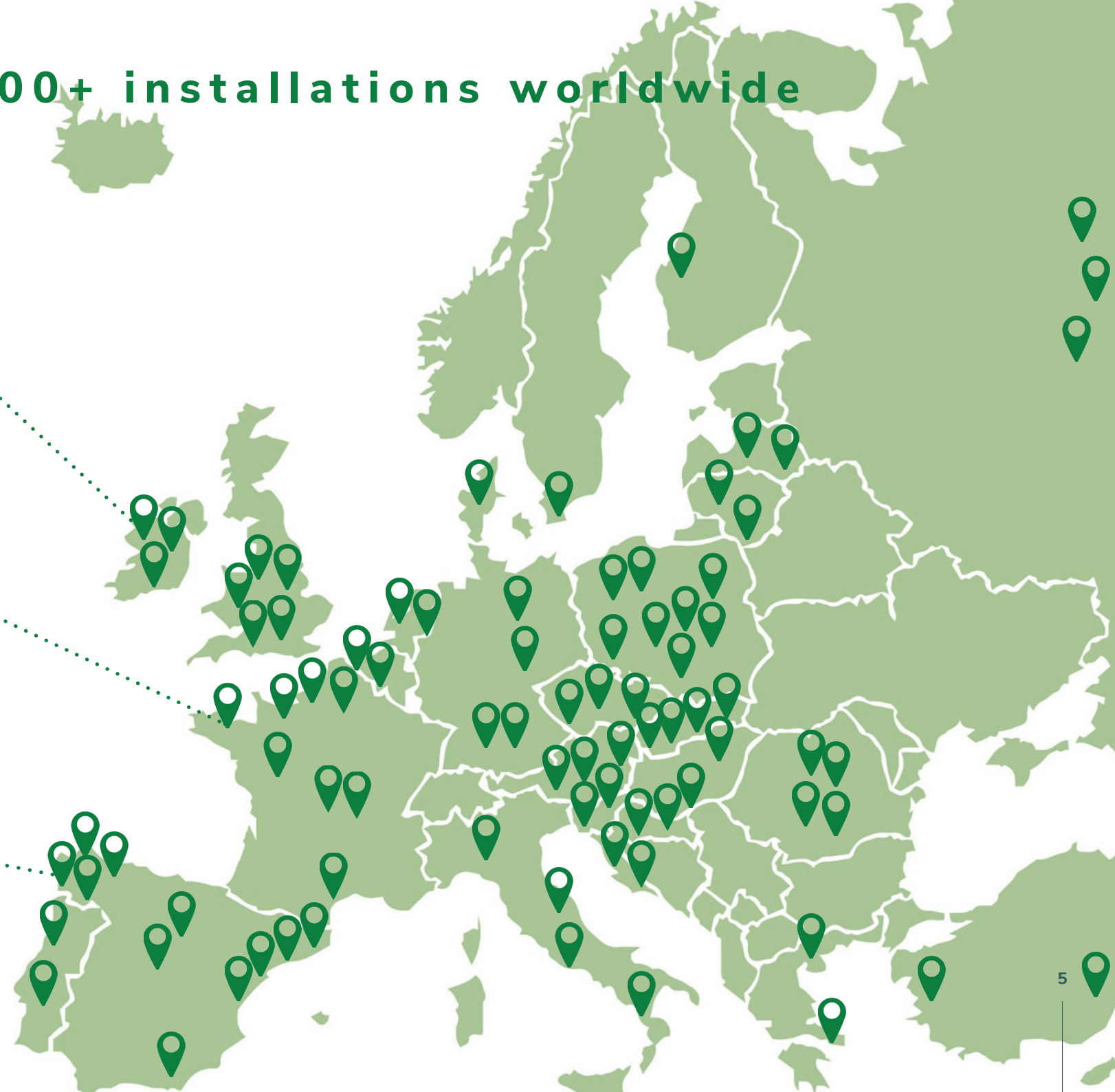
Scea du Mont aux Roux

IRKE BioGroup

VRČEK

RENES
AGF RECYCLING SERVICES

200+ installations worldwide

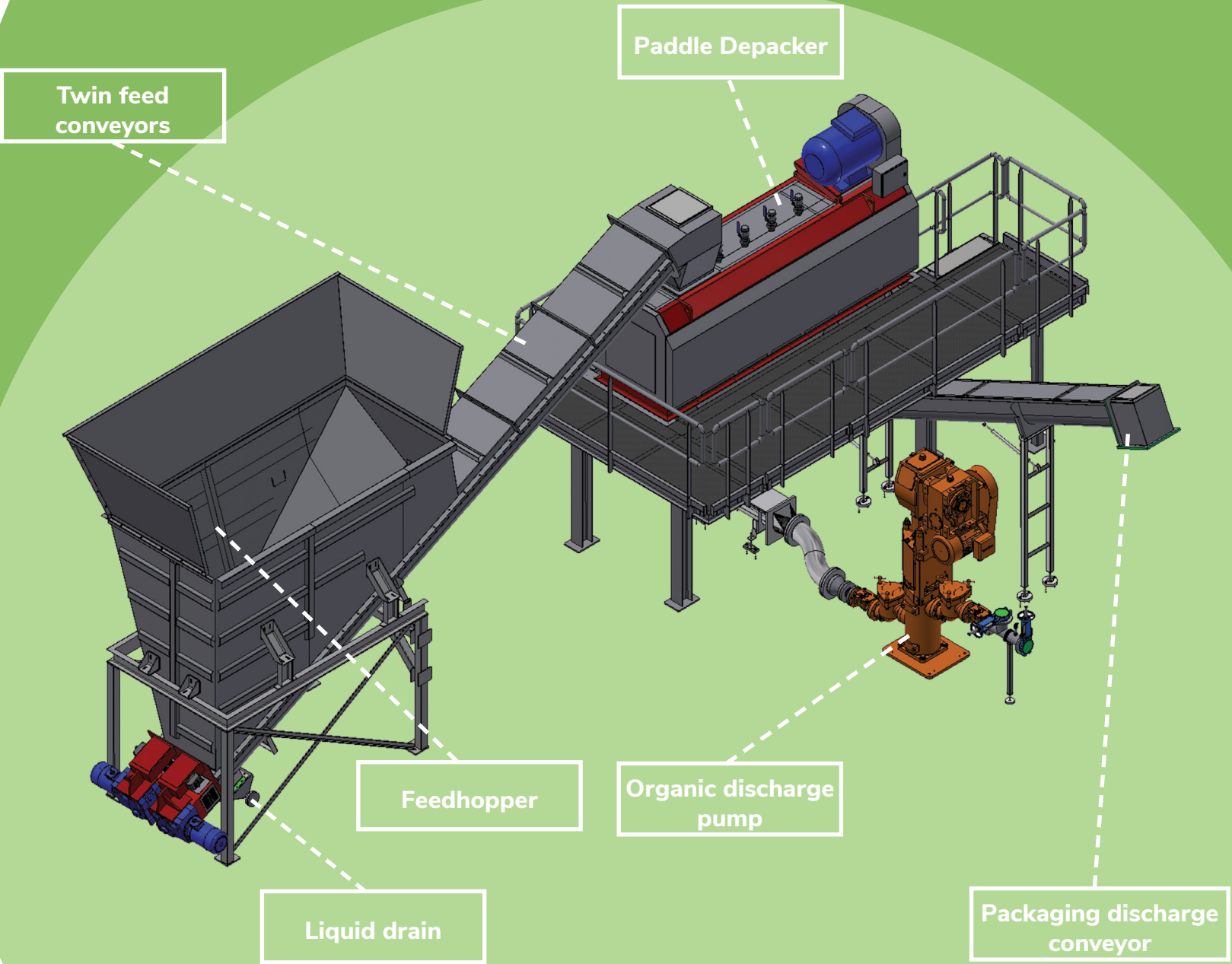


Input materials

Suitable for various types of input material: supermarket waste, kerbside, restaurant waste, factory rejects and much more



Video
Paddle Depacker



Output: organic fraction

Clean organic soup with characteristics that comply with all local legislation. Dry matter content can vary from as low as 1% to as high as 100%.



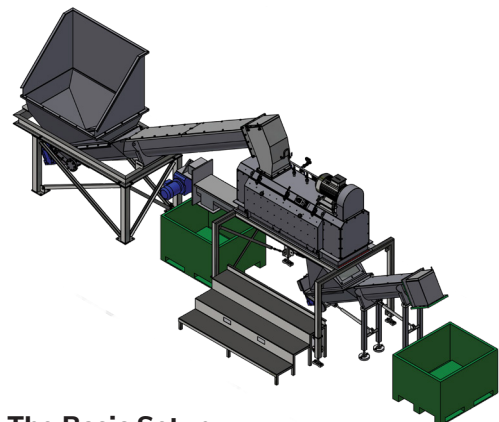
Output: packaging

The cleanest packaging output in the industry, suitable for recycling.



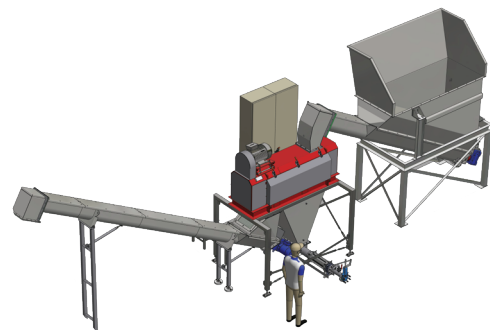
one solution many options

Model S - up to 5m³/hr



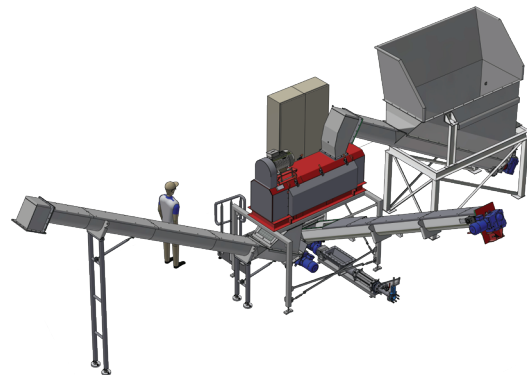
The Basic Setup

This configuration represents our entry-level solution featuring a 1m³ hopper and dual conveyors for discharging materials into boxes. It is designed to process both wet and dry materials with ease.



The Classic S

This solution comes equipped with a 2.2m³ hopper, and discharge pump designed for organic materials. It is ideal for smaller quantities while maintaining consistent high-quality output.



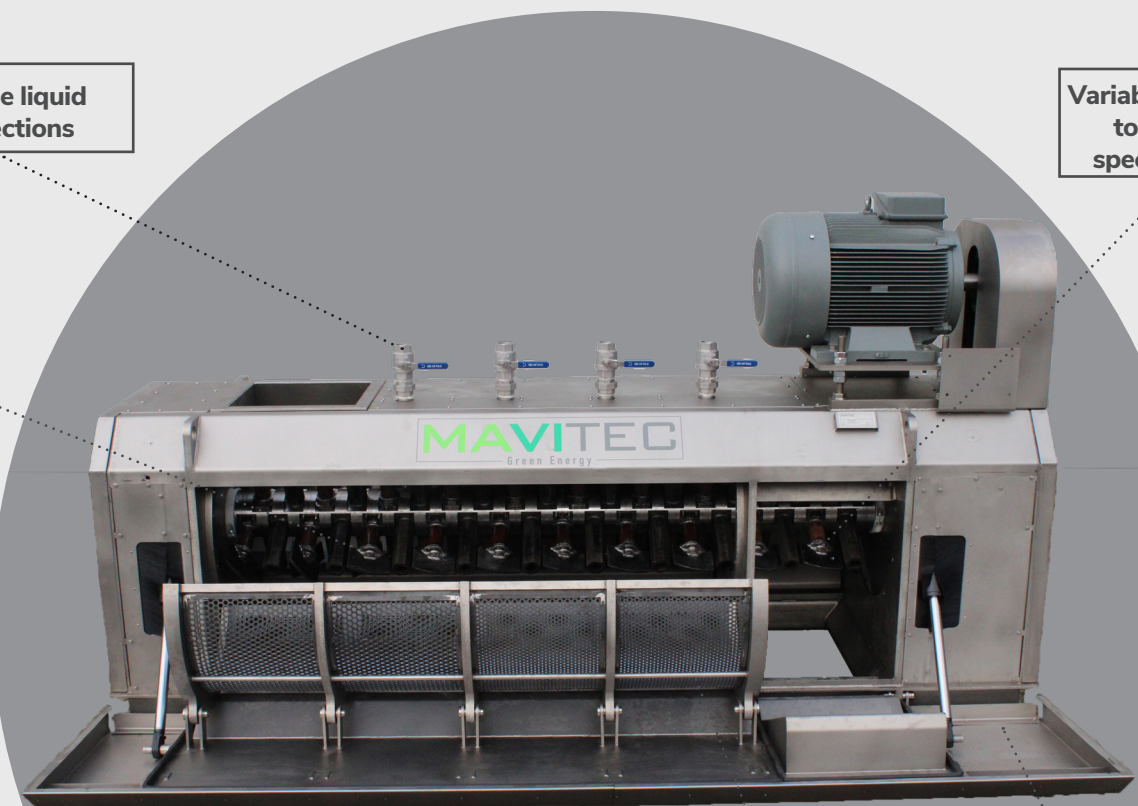
The Dry & Wet S

This configuration employs an organic discharge conveyor to effectively process both wet & dry materials. Additionally, a pump is included to facilitate a seamless transition between wet & dry materials ensuring optimal processing efficiency.



Multiple liquid connections

Paddle exchange under 5 minutes

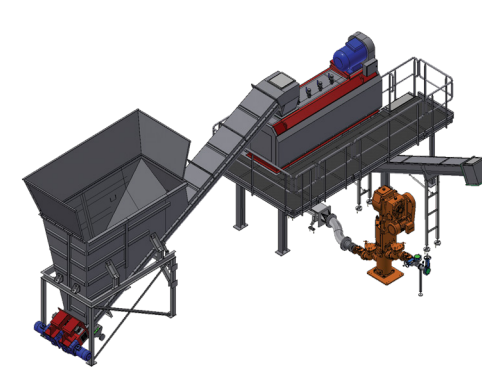


Variable speed shaft to meet each specific material

Insulated doors opens hydraulically

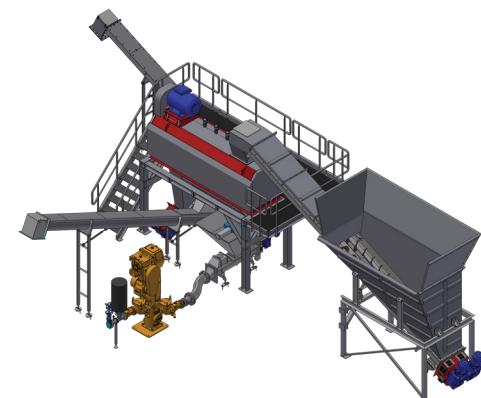
Screen exchange under 3 minutes

Paddle Depacker - up to 30m³/hr



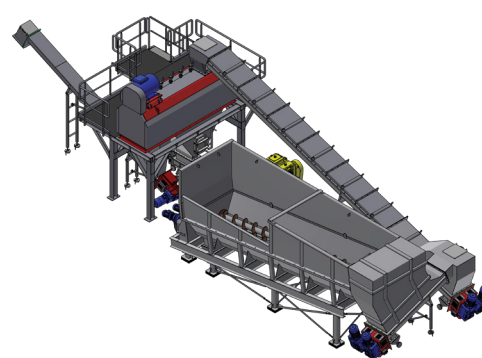
The Classic

Our most successful solution features a twin feed hopper and a robust piston pump, delivering reliable and uninterrupted processing capabilities, ensuring many efficient depacking days to come.



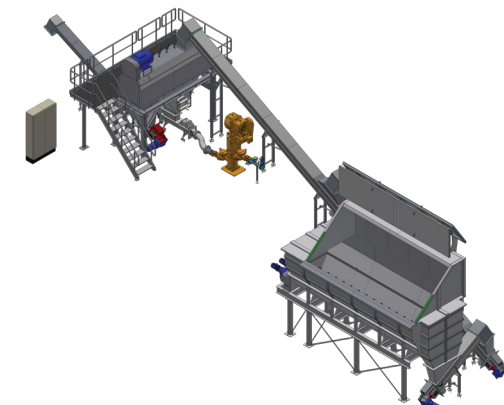
The Dry & Wet

This setup uses an organic discharge conveyor, providing the ability to process both wet & dry materials, including crisps, cookies, and many other products.



The Bin

This solution provides a 15-60m³ bin which enables increased storage capacity, with its multiple conveyors and twin feeding capabilities it prevents material from bridging and ensures constant feeding towards the depacker.



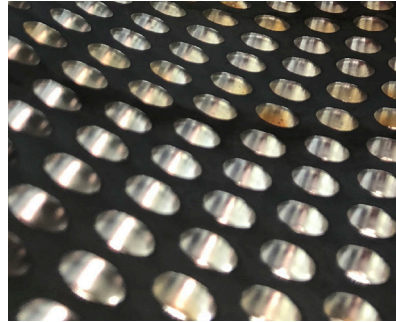
The Bin (in ground)

This solution provides a 20-40m³ bin which enables increased storage capacity. The bin is placed in a pit for direct discharging from a truck, while its multiple conveyors and capabilities prevent bridging and ensure a constant material stream towards the depacker.

Custom made solutions

In addition to our standard lines, Mavitec Green Energy is specialized in custom solutions, from a single hopper to multiple bins, Paddle Washers, and turnkey solutions. Mavitec Green Energy is your trusted partner.

Project PORTFOLIO



In-house control panel building

Mavitec designs and produces control panels with full PLC control in-house, to ensure the highest quality. We are capable of meeting all your standards!



Custom build solutions

Our team is dedicated to creating tailored solutions that seamlessly integrate with your existing infrastructure.

Skid solution

The skid version of the Paddle Depacker, shown on the right, is designed for easy mobility and convenience at any location.



An organic storage pit offers several advantages, including space-saving, odour control and reduced environmental impact.



How do we do it? The cleanest organic soup

- 1 Add liquid**
To guarantee your specific organic soup standard. Also improve the quality of the packaging output and make the soup pumpable.
- 2 Adjust angle of the paddles**
To reach the optimal retention time of the material inside the machine.
- 3 Change screen size**
Depending on the material and the requirements of the end-product, the following screens are available: 50mm-30mm-25mm-20mm-15mm-10mm-8mm
- 4 Change rotation speed of the axle**
VFD-controlled shaft speed for optimal separation results.
- 5 Change distance paddle to screen**
To guarantee clean screens and optimal separation results, our unique spacer system can be set to any specification desired.

Proven lab test results

Many countries have strict regulations and guidelines in terms of organic waste outputs for anaerobic digestion, composting, and/or animal feed applications. Mavitec has installed equipment in countries with the most strictest regulations.

The Paddle Depacker guarantees compliance with the latest standards and regulations of your country and any future legislative modifications* concerning residual impurities in the organic fraction.

How clean is it?

By finetuning the numerous settings on the machine, the Paddle Depacker is capable of producing the cleanest organic soups in the industry. Ask for references.



* regulations are subject to change, consult for the latest standards/results.

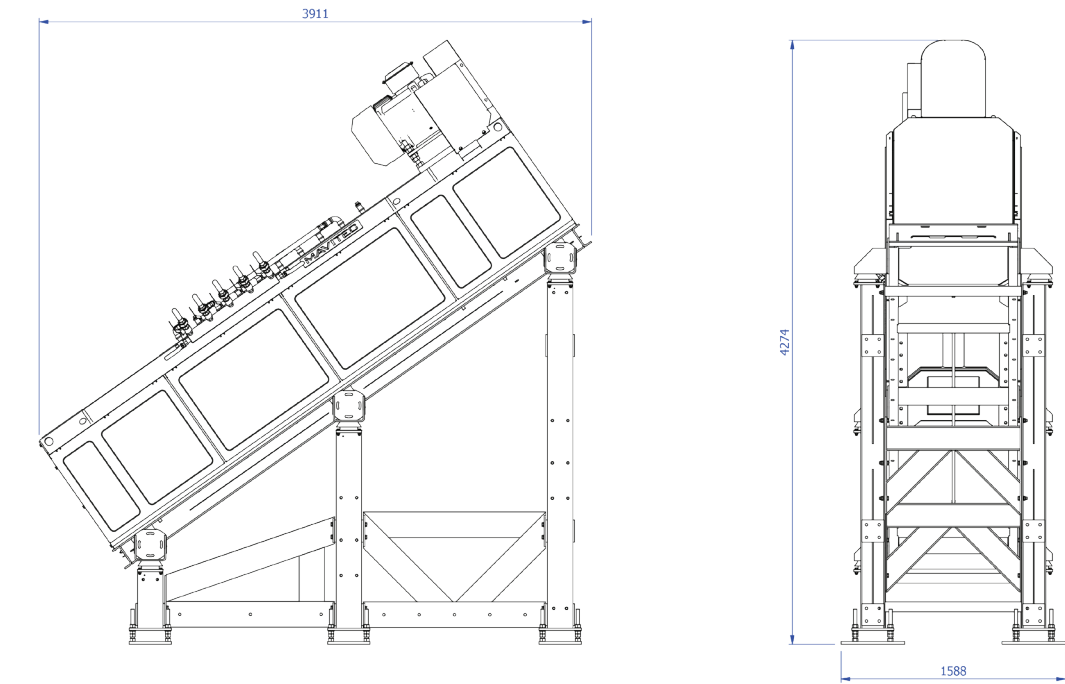
Paddle Washer



The **Paddle Washer** washes and reduces the weight of packaging output, resulting in cleaner plastics and a higher organic fraction yield. As a result disposal costs can be significantly lower. The machine is connected to a depackaging system and uses a rotating shaft with paddles to create friction between packaging and organic material, with liquid being injected at several points. The paddles tear the packaging and force the organic pulp through small holes in screens. The organic fraction is collected at the bottom. The clean, dry packaging is discharged from the front of the Paddle Washer.



Paddle Washer



Model	Power	Weight	Length	Width	Height
PW 650	kW	kg	mm	mm	mm
	37	3500	3899	1460	4191

Features

- Up to 50% reduction packaging weight*
- Save on packaging disposal costs
- Heavy duty execution
- Compact size
- Fast & easy access for easy maintenance, inspection and cleaning
- Fixed shaft execution
- Variable screen sizes available
- Low installed power & low water consumption
- Integration with Paddle Depacker and other depackaging systems possible
- Available in carbon steel and stainless steel
- Plug & play solution

Technical details

Capacity: up to 12m³ per hour

*depending on input material composition



Output Paddle Washer



Video Paddle Washer

Paddle Depacker Roadshow



Features

- Test at your site with your product
- Operational within the hour
- Power generator on truck
- Available for long & short term rental

The Paddle Depacker Roadshow is a unique opportunity to see the Paddle Depacker running and test your own material. The Paddle Depacker Roadshow is a complete food waste depackaging unit, built on a trailer. The trailer is equipped with complete Paddle Depacker system, handling up to 30m³ material per hour. The mobile system consists of a feeding hopper, Paddle Depacker and discharge options for organic material (wet and dry) and packaging. The unit is operated by a digital control panel with touch screen and is up and running in less than one hour.

Technical details

Capacity: up to 30m³ per hour

*depending on input material composition

The Paddle Depacker Roadshow truck has run tests on over 1000 different types of food waste and other materials, including plasterboard and paper waste. Our processing techniques have created significant improvements in material processing. Before requesting a test, we invite you to have a look at our YouTube channel or provide our sales department with example pictures. In the event that your material has special properties, we offer the opportunity to conduct on-site testing using your specific materials.



Video Mavitec
Roadshow

Service & maintenance

Frequent **maintenance** is crucial to ensure the continuous and optimal functioning of any installation. This is why Mavitec provides a range of service packages designed to minimize downtime and maximize operational reliability, ultimately leading to higher returns on investment, ask for the service packages options

Advantages of a service package

- Minimal downtime
- Increased operational reliability
- Maximum productivity
- Lower operating costs
- Higher quality end products
- Increased lifetime of the equipment

Subject	Phone Number	E-mail Address
Service	+ 31 (0)72 574 59 88	service@mavitec.com
Spareparts	+ 31 (0)72 574 59 88	spareparts@mavitec.com
Preventive Maintenance	+ 31 (0)72 574 59 88	service@mavitec.com



Valued customers



Justin Martens
Site Manager

At Mavitec, they understand that reliable service and maintenance are crucial for the success of the business. That's why they offer comprehensive support to keep our equipment running smoothly and efficiently.



Julien Wyckaert
Agricultural farmer

I chose Mavitec due to their extensive experience in providing innovative solutions, cutting-edge technology, and outstanding support.



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