



Dry Cleaning

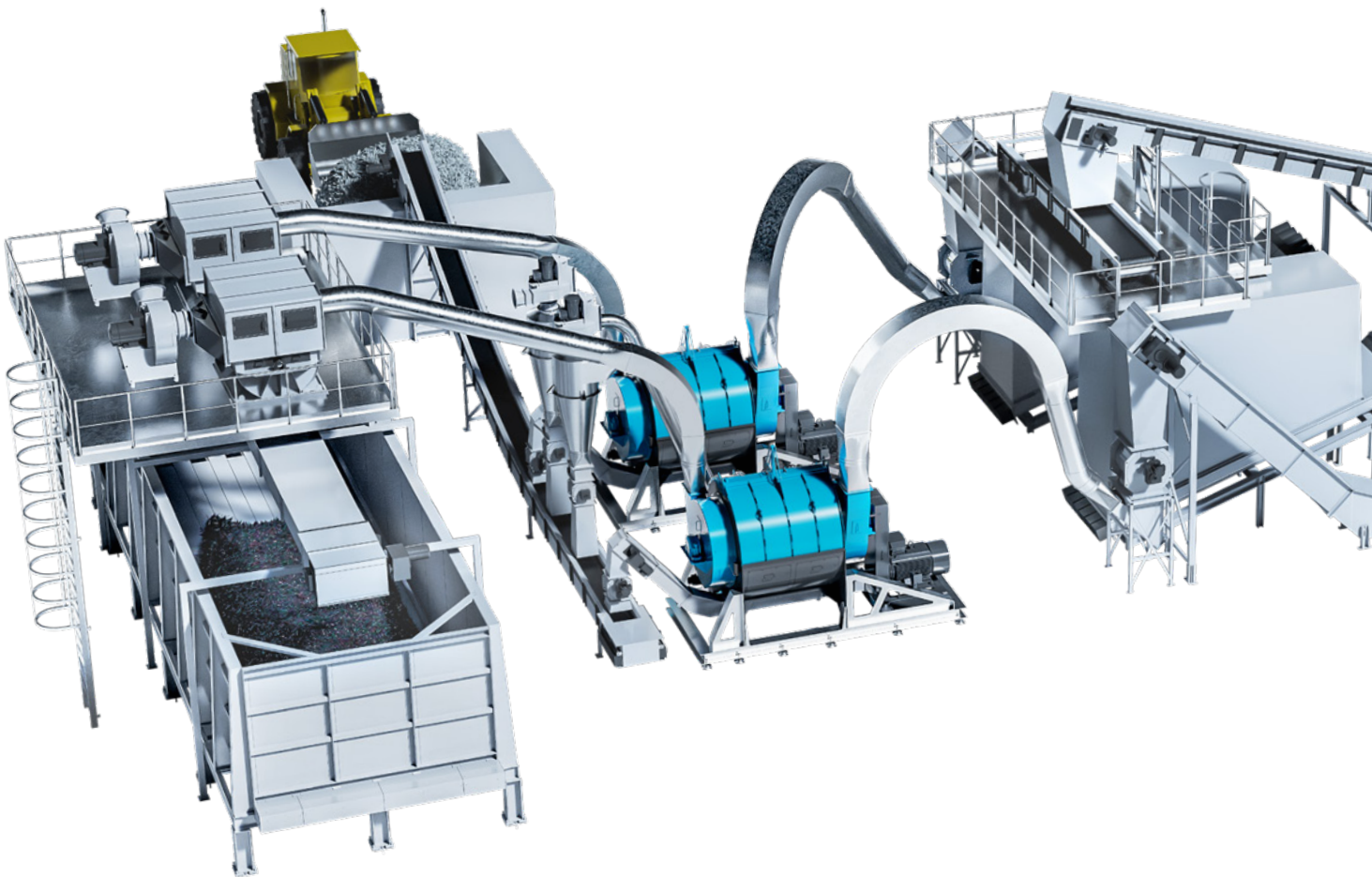
Highly efficient dry cleaning systems

Sustainable and efficient: Dry cleaning is considered particularly environmentally friendly as it does not require the use of fresh water. Vecoplan's subsidiary Pla.to manufactures state-of-the-art dry cleaners for all applications in the plastics sector.

Making the circular economy a reality

Giving plastics a new life

Genuine plastics recyclings is experiencing ever-increasing momentum. Due to the rising demands on the quality of plastic recyclates, Vecoplan offers a cleaning concept that differs from established technologies and leverages potential for saving water and energy.



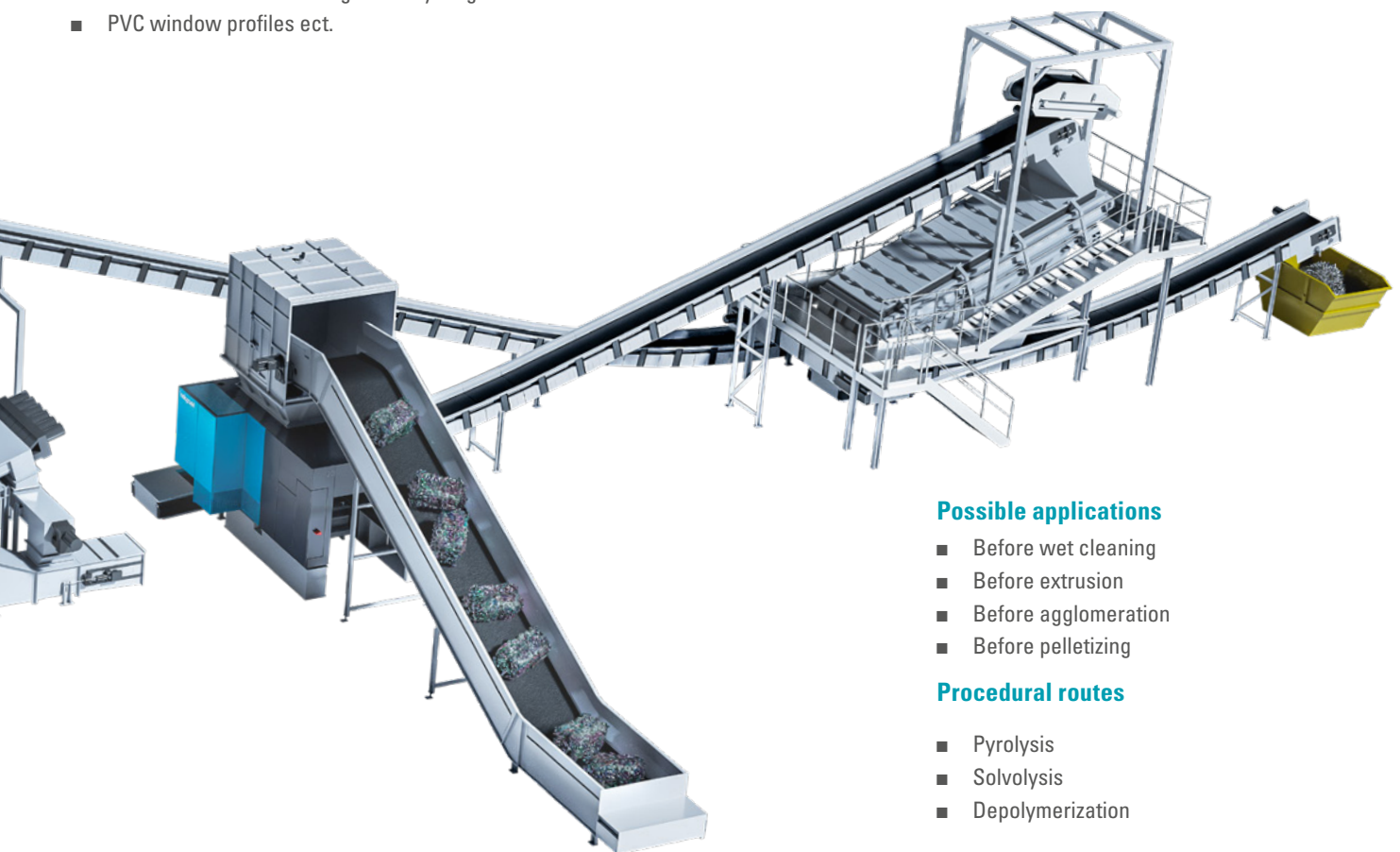
Recycling options for plastics waste

Our processing technology transforms used films and hard plastics into cleaned, high-quality flakes that can be fed directly into raw material recycling.

For material recycling, dry cleaning provides effective pre-cleaning for subsequent wet washing, giving the cleaned flakes a second life later on in the consumer goods, packaging, and cosmetics industries.

Possible applications

- Mixed plastics from packaging collection
- Waste films from households and industry
- PET and HDPE bottles
- PVB films from laminated glass recycling
- PVC window profiles ect.



Possible applications

- Before wet cleaning
- Before extrusion
- Before agglomeration
- Before pelletizing

Procedural routes

- Pyrolysis
- Solvolysis
- Depolymerization

Cost-effective cleaning, completely without water

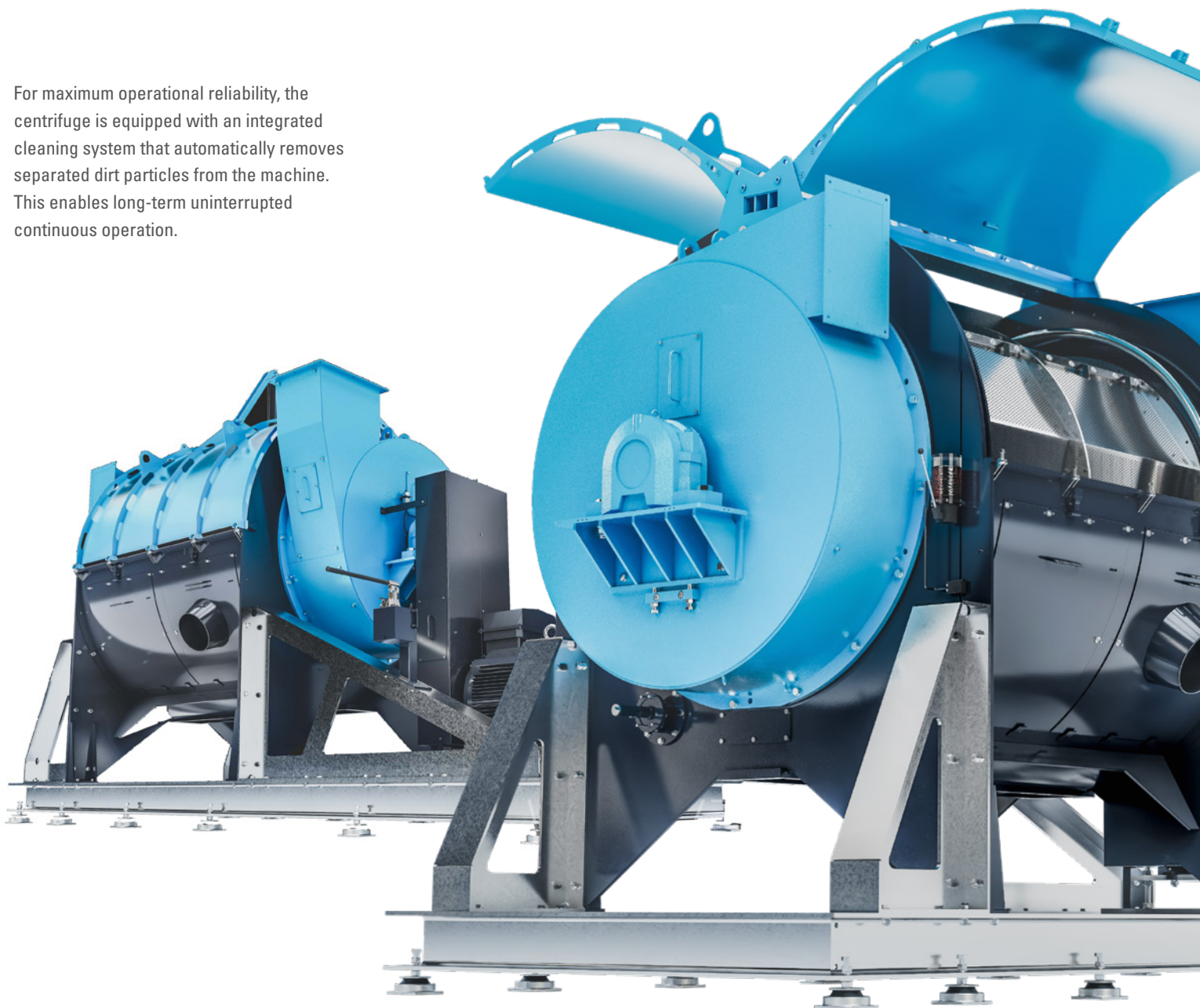
Wastewater-free cleaning technology makes recycling plastics easier and more cost-effective.

		MR90-90	MR132-130	MR200-140	MR250-180	MR250-200
Main drive	kW	90	132	200	200-250	250
Diameter of screen basket	mm	900	1.300	1.400	1.800	2.000

Quick maintenance, longer service life

Thanks to the generous maintenance flaps above and below the machine, cleaning and maintenance work can be carried out particularly easily and quickly. The hydraulically opening upper flaps provide convenient access to the interior, greatly facilitating servicing.

For maximum operational reliability, the centrifuge is equipped with an integrated cleaning system that automatically removes separated dirt particles from the machine. This enables long-term uninterrupted continuous operation.





One solution, many possibilities

A combination of impact effects, centrifugal forces, and friction removes contaminants adhering to the surface of the plastic particles. Foreign material such as paper is defibrated and effectively discharged together with the contaminants and most of the moisture contained therein.

The contaminants are permanently separated according to light and medium-weight fractions. This results in clean flakes that are ready for further processing.

Dirt out, quality in



Heavy-weight fraction



Medium-weight fraction



Light-weight fraction



Dust

With a focus on the increasing quality requirements of the recycling market and in close exchange with a network of experts, we offer our customers a practical solution that provides numerous advantages. You receive four waste fractions that are separated from the contaminated input material.

Input



Output



Dry cleaning of film (LDPE), origin: household waste

Input



Output



Dry cleaning of film (LDPE), origin: household waste



Dry cleaning of film (LDPE), origin: household waste



Dry cleaning of film (LDPE), origin: LVP sorting (specification DSD 310)

Input



Output



Dry cleaning of mixed plastics (MPO), specification DSD 323



Dry cleaning of film (LLDPE), origin: agriculture (silo bale wrapping film)



Dry cleaning of film (LDPE), origin: agriculture (silo cover film)





Vecoplan Smart Center

Digitally advanced

The integrated and intuitive VSC.control operating panel serves as a communication medium for the cutting-edge control of your machine and direct communication with Vecoplan. VSC.connect will enable you to network your machine and access additional online services, such as online commissioning, remote service, performance indicators and even a media database.



Digitalisation concepts

For maximum efficiency of your machine

VID

Adaptive intelligence for greater efficiency

Safety

Up to 60% lower risk of damage

Intelligent detection

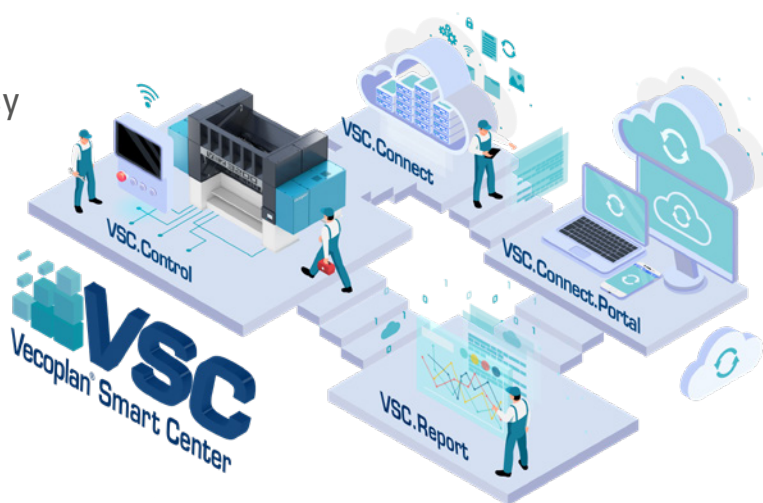
Self-learning material recognition using automatic recipes

Maintenance

Less repairs, lower tool efforts required

Integration

Seamless integration into new and existing systems



VSC.control

User-oriented machine operation
with extremely useful features:

Dashboard

gives you an overview of individual actual values and current messages

History

History of messages enables conclusions to be drawn and ensures faster troubleshooting

Data

The distinctive data recorder logs all values

Camera integration

The VSC.control makes it possible to display the camera image from inside the machine.

Cloud connection

The shredding process can be permanently optimised thanks to the continuous recording of the actual values.

VSC.connect

You can activate additional
services by using different VSC applications:

Remote services

Access the machines and equipment at any time with your mobile devices

Notifications

Get immediate notifications of any malfunctions or other messages

Live connection

You can view live images at any time via an integrated camera or by using smart glasses



Cleaning is more than just washing

With its machines and systems, Vecoplan ties in directly with the sorting of plastics waste and supplies customers with complete systems for shredding and cleaning.

Under the name Cleanikum, Vecoplan operates an innovative demonstration and pilot plant for cleaning polyolefins such as **HDPE**, **LLPDE** and **PP**.



In operation since:

October 2022

Total area:

approx. 600 m²

Production area:

approx. 470 m²

Capacity:

approx. 1,500 kg/h

Test Us!

Test us! Vecoplan Technology Center

Cleanikum combines mechanical dry cleaning, wet mechanical intensive washing, and temperature-controlled processes to efficiently clean even heavily contaminated post-consumer films or thin-walled hard plastics. Resource-saving water management and consistent Abwasseraufbereitung separation produce high-quality flakes that are directly suitable for plastics processing.



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