



FILM COMPACTORS

Recycling-oriented compaction
of film waste and edge trimmings

Pavel Gerätebau GmbH

TRADITION AND INNOVATION

Equipment that is built to last

Our successful story began in 1962. This is when Wilfried Pavel laid the foundations of our company by developing the first automated packaging machines for clothing.

Since then, tradition and innovation have been our tenets for achieving successful, modern engineering in the course of over 50 years. We are your reliable partner when it comes to finding the right solution to fit your requirements.

The production of film compactors under the "Pavel" brand has been setting standards in the compression of film waste and edge trimmings for over 20 years. With this brand, we offer you a high-quality product that ensures the future-oriented development of your business.

For us, long-term durability is not just a cliché – our equipment is indeed built to last!

EDGE TRIMMINGS

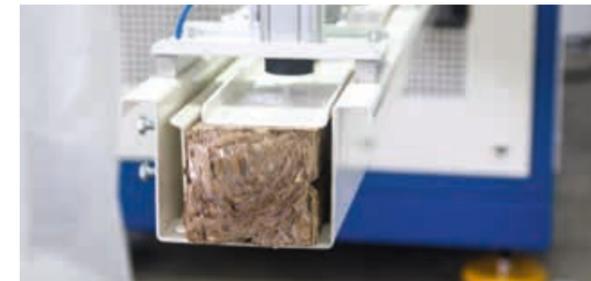
A never-ending story

All equipment used for the manufacturing or processing of films inevitably ends up generating punch wastage and edge trimmings, regardless of whether this happens during the extrusion of flat or deep-drawn films or during the production of packaging, at the laminating line or at the cutting machine, during printing or during carrier-bag production!

The resulting waste - whether pure material or composite material - usually has no positive impact on the bottom line and instead only incurs more costs.

In practice, valuable raw materials are filtered out of the operational processes at a significant cost. In the long run, film winders, shredders, troughs and presses can put a considerable strain on your company's performance.

We committed ourselves to solving this "never-ending" problem and developed a type of machine that can take up edge trimmings and punch wastage directly from the source and then compress them without using any auxiliary devices. The end result consists of bars of compacted trimmings and wastage.



FUNCTIONALITY

Film compactors KP 101/200/2000

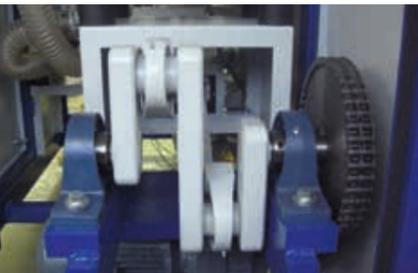
And here is how it works:

The "Pavel" compactors are directly connected to your waste-producing machines via a tube system. Of course, it is also possible to connect the compactors via any pre-existing extraction solutions.

The waste material is pulled in automatically into the suction and compression channel. A piston is then used to transport the highly compacted film into the heating channel. The piston makes use of the improved melting characteristics of the film when heated and compresses the material to form a solid block. The continuous strand produced by this process is then cut into individual pieces of adjustable length by means of a cutting device.

The compact modular design of our machines makes it possible to operate the compactors as standalone systems or as an extension to existing systems. Your individual customer requirements are always taken into consideration.

A separation of the cutting and extrusion lines through the use of several compactors enables the clean separation of different materials. This means that you can re-introduce materials into the recycling loop - and generate profit from this process!



A 1-on-1 connection of our compactors to your cutting and extrusion lines also minimises the risk of simultaneous failure of multiple components, which contributes towards the safe operation and availability of your production.

In addition to reliability, the safety of our compactors is of crucial importance to us. Our machines are equipped with a tower light and a fire detector. Furthermore, the housing can only be opened with a special key. This system is used to protect against unauthorised access. All potentially hazardous machine parts are installed inside the housing. Your employees are never exposed to any risk of injury.

STRUCTURE

Film compactors KP 101/200/2000



- 01 Crankshaft drive with compressor piston
- 02 Suction and compression channel
- 03 Temperature-controlled heating channel
- 04 Cooling channel with cutting device

- 05 Outlet channel with pneumatic pressure regulation
- 06 Touch-based electronic control
- 07 User-friendly exhaust filter



RECYCLING-ORIENTED COMPACTION

Film waste and edge trimmings

BENEFITS FOR YOU

- NO need for a separate suction unit
- NO need for edge trim winders
- NO need for shredders
- NO need for a baling press
- NO transport problems
- NO need for the interim storage of waste
- NO need for utilising a press
- The compressed film falls off as compacted bars and can either be placed into boxes or palletised
- The waste volume is reduced by up to 80%
- Positive effect on your ROI (return on investment) through savings from equipment, electricity, manpower and better utilisation arrangements with your recycling company



- Simple, fast and cost-efficient compaction of film waste and edge trimmings
- Produces stackable, highly compacted bars
- Significantly reduced disposal costs
- Completely eliminates the need for a centralised suction unit, can be used directly on the extrusion line
- Safe operation at a regular film speed of up to 800 m/min.

- At this speed, the system can safely dispose of trimmings from both edges of a cutting line
- Suitable for nearly all films and composite materials
- Digital control and temperature regulation via a touch-enabled panel

COMPACTORS AT A GLANCE

The right size for each and every requirement

| KP 101 | |
|-------------------------|--|
| Trim extraction: | not possible <input type="checkbox"/> possible <input checked="" type="checkbox"/> |
| Bar dimensions: | 110 x 100 mm |
| Bar length: | adjustable |
| Power supply: | 400 V, 50 Hz, 32 A |
| Compressed air supply: | min. 6 bar |
| Power consumption: | max. 14 kW |
| Air consumption: | from approx. 100 to 225 l/h |
| Finish: | RAL 9010 pure white/RAL 5005 signal blue |
| Dimensions (L x W x H): | 3300 x 1000 x 800 mm 2000 mm height including filter |
| Weight: | approx. 600 kg |

KP 101

The smallest unit in the product family. The KP101 takes care of your punching wastage/packaging residues with ease. You can use its full capabilities by combining it with a funnel on the intake side.



| KP 200 | |
|-------------------------|--|
| Trim extraction: | not possible <input type="checkbox"/> possible <input checked="" type="checkbox"/> |
| Bar dimensions: | 110 x 100 mm |
| Bar length: | adjustable |
| Power supply: | 400 V, 50 Hz, 32 A |
| Compressed air supply: | min. 6 bar |
| Power consumption: | max. 18.4 kW |
| Air consumption: | from approx. 100 to 225 l/h |
| Finish: | RAL 9010 pure white/RAL 5005 signal blue |
| Dimensions (L x W x H): | 3300 x 1000 x 800 mm 2000 mm height including filter |
| Weight: | approx. 700 kg |

KP 200

KP 101's big brother, with significantly improved suction capacity. Although its appearance is nearly identical to that of KP 101, this compactor can handle larger volumes. This is the best choice for low edge trim speeds.



| KP 2000 | |
|-------------------------|--|
| Trim extraction: | not possible <input type="checkbox"/> possible <input checked="" type="checkbox"/> |
| Bar dimensions: | 150 x 100 mm |
| Bar length: | adjustable |
| Power supply: | 400 V, 50 Hz, 63 A |
| Compressed air supply: | min. 6 bar |
| Power consumption: | max. 31.6 kW |
| Air consumption: | from approx. 132 to 300 l/h |
| Finish: | RAL 9010 pure white/RAL 5005 signal blue |
| Dimensions (L x W x H): | 3300 x 1000 x 1550 mm 2650 mm height including filter |
| Weight: | approx. 800 kg |

KP 2000

The big compactor KP2000 is the top choice for the active extraction of edge trimmings. It can be used directly next to the operational machine, or on the other side of the machine hall. The KP2000 features high performance reserves that allow it to reliably manage edge trim speeds of 800 m/min.





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