

# ROVEMA Frozen Food Packaging

*Packed efficiently and optimized for transport.*



inno-tech is now part of the ROVEMA family



## Seven good reasons for packaging IQF (Individual Quick Freezing) with ROVEMA

- ▶ **Fit for frozen:** Hygienic frame concept with heated IP 65 electrical cabinet
- ▶ **Machine-related efficiency:** up to 99%
- ▶ **High speed:** Up to 150 pillow bags/min and 105 Doypack-like Stand-up pouches with Zip (RoPack)
- ▶ **Quality:** Robust stainless steel machine design, made in Germany
- ▶ **Future proof:** Suitable for a wide variety of bag shapes
- ▶ **Versatile:** Prepared for production with polyethylene films, laminated films, as well as paper packaging materials
- ▶ **Minimal operator intervention:** Autonomous machine operation thanks to automatic packing material change-over and Sense&Seal product detection

 **ROVEMA**



# Vertical packaging of frozen foods

Precise fitting solutions from dosing to final packaging

## Target products

Meat and fish products containing protein, single-variety vegetables, fruit or even mixtures such as ready-to-eat products – ROVEMA offers packaging solutions precisely tailored to your needs. We take into account the requirements of fragile products as well as your wishes regarding bag shape and packaging material. Our experts advise you comprehensively drawn from decades of application knowledge from dosing to transport through to optimized final packaging solutions.



\* Output rates mentioned are indicative.  
Actual performance depends on technical specification and individual application.

## Presentation at the POS

Whether classically lying in the freezer or standing on the shelf – in the retail trade frozen products are presented in different ways. ROVEMA machines offer you a variety of packaging styles produced from one machine:

From low-air pillow bags through to representative re-closable stand-up pouches, everything is available.

## Choose your bag style\*

Lying presentation  
in the freezer



Pillow bag

Standing presentation  
on the freezer shelf



SUP = Stand Up Pouch



Stabilo Seal



RoPack bag



Pillow bag



Block bottom bag

\* exemplary presentation

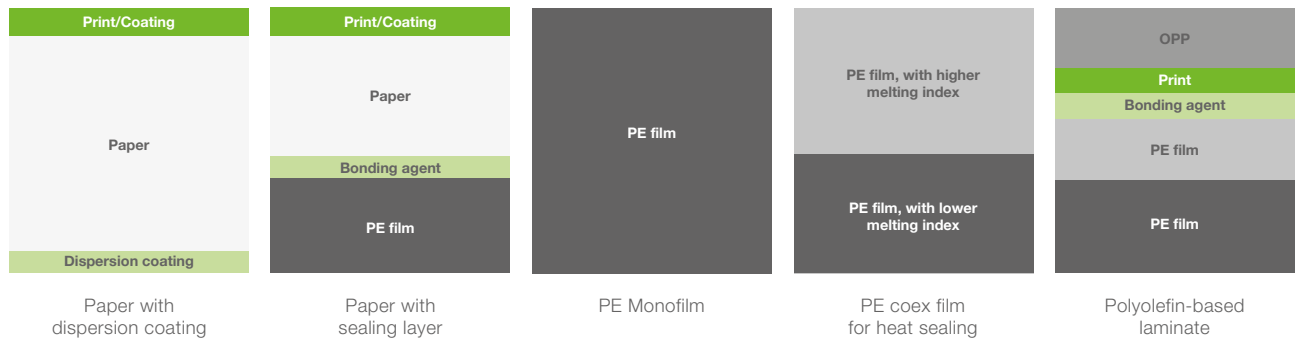


### Flexible choice of packaging material

High packaging speeds challenge the machine and the packaging material. With increasingly sensitive consumer behavior in terms of sustainability, future-proof technologies that can be easily adapted are needed.

Whether recyclable mono materials, stable coextruded special films or paper- all weldable and heat-sealable packaging materials\* can be used efficiently on ROVEMA machines thanks to the flexibly adaptable equipment.

\* packaging materials from the flat film web from 30 µm material thickness or 75 g/m<sup>2</sup> area weight



### Dosing systems

Dosing systems from all well-known manufacturers can be integrated into your new packaging machine. If requested, we can take over the engineering for you and supply everything from a single source.



### ROVEMA ELD Drop Packer

The ROVEMA drop packer used for the production of highly compact, low-air packaging units for horizontal packaging of pillow bags. Standard in stainless steel.

\* Optionally in washdown execution

### ROVEMA BVC

The all-rounder for pillow bags and representative stand-up pouches in the highest bag quality. Standard in stainless steel and equipped with product detection Sense&Seal.

\* Optionally in washdown execution



### inno-tech REVO

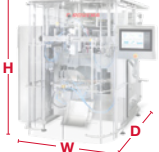
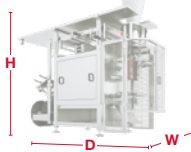
Modular packaging machine available from a simple variant for a small budget, up to special machine variants with an inclined filling tube for particularly gentle filling of fragile products.



# Product overview of Form Fill and Seal machines

ROVEMA packaging solutions for the frozen food industry



	ROVEMA BVC Series	inno-tech REVO Series
Continuous motion Form Fill and Seal machine	✓	✓
Mechanical output	up to 150 bags/min	up to 150 bags/min
Sealing force	up to 8.000 N	up to 6.000 N
Machine control	Allen Bradley or P@ck-Control	Siemens or B&R
Bag width	80 – 400 mm	80 – 380 mm
Film reel width	up to 800 mm	up to 800 mm
<b>Bag styles:</b>		
Pillow bag	✓	✓
Block bottom bag	✓	✓
Stabilo Seal	✓	✓
RoPack	✓	
SUP (Stand-Up Pouch)	✓	✓
Dimensions (W x H x D)	1700 x 2340 x 2170 mm	1450 x 2300 x 2780 mm
		

## 7 good reasons

### Fit for frozen food

- ▶ Hygienic frame with heated IP 65 electrical cabinet
- ▶ Inclined drip tray on the machine frame:
  - ▶ for easy cleaning
  - ▶ for protection of the packaging material web

### Performance

- ▶ Machine-related efficiency: up to 99%
- ▶ Proven machine concept
- ▶ Toolless format change over
- ▶ Film change in less than 3 min, optional with splicer unit avoiding machine stop

### High outputs

- ▶ up to 150 pillow bags/min and 105 Doypack-like Stand-up pouches with Zip (RoPack)
- ▶ Servo-driven sealing stations ensure maximum performance

### Quality

- ▶ Robust machine design
- ▶ Available with aluminum parts, AISI 304 or in washdown execution
- ▶ Made in Germany
- ▶ Solid frame with no hollow spaces

### Future proof

- ▶ Suitable for a wide variety of bag shapes
- ▶ Industrial PC control
- ▶ Servo-driven sealing stations for the best possible adaptation of the sealing process to the requirements of modern mono- and paper materials

### Versatile

- ▶ Prepared for production with polyethylene films, laminated films as well as paper packaging materials
- ▶ Different closure systems are available: Continuously heated sealing tools for coextruded packaging materials and paper, impulse tools for mono-material, as well as hot air systems, longitudinal sealing bands and drag seal bar

### Minimal operating effort

- ▶ Autonomous packaging by monitoring the sealing process: Sense&Seal product detection rejects faulty bags and enables automatic restarting
- ▶ Optionally with automatic packaging material splicer for the precise splicing of two packaging material webs during machine operation



*Designed for gentle filling of fragile products: The inno-tech REVO with inclined filling tube.*

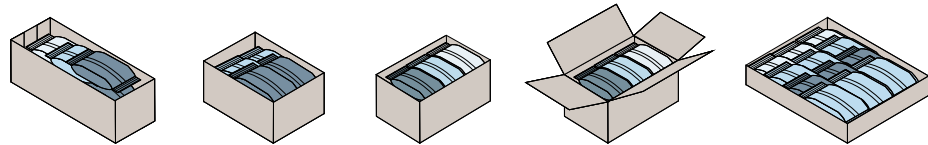


# Final packaging

ROVEMA end-of-line packaging solutions for transport-optimized, horizontal packaging of flexible bags


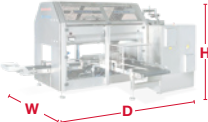


The ELD drop packer can place packs in single rows, in multiple rows, or in layer patterns as required.



Possible layer schemes single-row or multi-row scaled or 90° rotated. Vibration and compression functionalities enable highly compact, low-air transport units.

## ROVEMA ELD Drop Packer

Receptacle	All standard transport and sales receptacles with or without top flaps.
Infeed Speed	Up to 150 products/min
Output rate	Up to 25 transport packagings/min
Available sizes (D x W x H, max. case dimensions)	ELD 643: 600 x 400 x 300 mm 
Control	With separate control or integrated with an upstream ROVEMA VFFS
Dimensions (W x H x D)	1725 x 1800 x 3890 mm 

## 5 good reasons

### Gentle bag handling

- ▶ Double gate design minimizes drop distance for gentle product loading

### Higher output

- ▶ Through optimized buffer and case changing times

### High machine efficiency

- ▶ Reduced maintenance and cleaning times
- ▶ Maintenance-free components

### Flexible design

- ▶ Free accessibility at the filling area from 3 sides
- ▶ Individual placing of control cabinet

### Compact and precise

- ▶ Bag egalisation through upstream systems enables highly compact bundles
- ▶ Discharge height adjustable to carton height
- ▶ Precise grouping due to positioning of bags via retractable conveyor
- ▶ Reproducible, uniform layer patterns through active box positioning for each row of bags
- ▶ Levelling and compression of the finished bundle allows air to be removed before box closure

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Products & Life Cycle Services



**ROVEMA**



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