

# DropR

Gravity Drop Case Packer



**HIGH PRODUCTIVITY • ROI 12-18 months**



END OF LINE PACKAGING EXPERTS

100 %  
MADE in ITALY

# SIAT Group Your End-of-Line Partner

*Over 55 years of innovation  
in industrial packaging*

Founded in 1970 and headquartered in Turate (CO), in the heart of Lombardy, SIAT is today a global benchmark in the design, manufacturing, and supply of innovative end-of-line industrial packaging solutions.

The SIAT Group — which includes SIAT (Italy), COMBI Packaging Systems (USA), and TAM (Italy) — operates three production facilities and serves customers worldwide across the Food & Beverage, E-commerce, Logistics, Chemical, and Consumer Goods sectors. SIAT Group's portfolio covers the entire range of secondary and tertiary packaging: from case forming to case packing, from case loading to case sealing, from strapping to pallet wrapping, up to flexographic printing. **A single partner for complete and integrated packaging lines.**

SIAT Group is the ideal partner for end-of-line automation, offering complete and **fully integrated packaging solutions** tailored to meet a wide range of industrial needs. From case forming to sealing, palletizing, and wrapping, our portfolio ensures seamless efficiency — with advanced systems like **DropR** representing just one of the innovative solutions we **bring to optimize your production line.**



# One Complete Line, One Single Partner



## The SIAT DropR

is one of the **fastest solutions** to pack the product inside american boxes, designed to offer an **unparalleled ratio** between throughput and investment.

It combines the robustness of an extra heavy-duty construction with the mechanical simplicity of gravity drop technology, ensuring extremely fast changeovers, minimized maintenance, and **an exceptionally fast ROI (12-18 months)** lower than other solution. It is the ideal way to automate the end-of-line of SMEs and large companies in the Chemical, Food, and Beverage sectors, **integrating perfectly** with the ecosystem of SIAT case erectors and sealers.



FLAT BLANK



ERECT



FILLING



SEAL



STRAP



WRAP

## The Evolution of Case Packing

The SIAT DropR is a stand-alone top-loading **case packer** designed for the fast and precise insertion of rigid and semi-rigid containers and bags into RSC cases or trays.

The operating principle is based on “Gravity Drop” technology: products are grouped in an orderly formation on a collation plate positioned above the open case. Retractable guides **open simultaneously**, allowing the entire group of products to drop gently by gravity into the case below, maintaining perfect formation. The system ensures high product **stability** on the conveyor and smooth collation through optimized lane guide lengths and proper handling methods (paddle diverters, servo diverters, or agitators depending on the product).

Unlike complex pick & place or robotic systems, the DropR does not use gripping arms or clamps, drastically reducing moving parts, wear, and maintenance costs, while ensuring speeds above the average. The case handling system reliably transfers cases onto the lift, providing proper control during lifting and packing.

### Features & Benefit



#### SPEED LEADER

High productivity ratio, positioning it at the top of performance among drop packer manufacturers.



#### EXTRA HEAVY-DUTY CONSTRUCTION

Monoblock welded tubular steel frame designed for 24/7 operations and maximum reliability over time. Double-wall lifting cylinder with 4-point support.



#### QUICK TOOL-LESS CHANGEOVER

Format change in just 5-15 minutes thanks to slide-in modular packing heads, quick-clamp product guides, and adjustments with numerical indicators. Change parts include skid blades, bay doors, and perimeter/partition fingers tailored to the product.



#### INTUITIVE OPERATOR INTERFACE

Standard Siemens PLC and touchscreen HMI with advanced diagnostics, troubleshooting time reduced to seconds, real-time production monitoring, and I/O Link devices integration.



#### ADVANCED PRODUCT COLLATION

Configurable product handling methods including paddle diverters for slower 2-lane runs, servo lane diverters for faster multi-lane runs, and agitators for round products. Supports both side transfer (for top-heavy products) and end transfer (for stable products at higher rates).



#### SMART DESIGN AND LOW MAINTENANCE

The absence of complex robotic gripping systems means fewer parts subject to wear. The case indexing system utilizes specific brakes (top solid pad, individual pads, cup brake, or side squeeze) depending on the case and rate, maximizing uptime.

### Technology “Soft Drop”

The electrically driven lift represents a key advantage of the system, allowing for fast and precise adjustments via recipe without the need for mechanical interventions. This not only ensures maximum flexibility but also delivers significant energy savings compared to traditional pneumatic solutions. In addition, the electric control enables fine-tuning of the product handling, ensuring a smooth and controlled “soft landing” on the outfeed conveyor, even at high speeds.

# Uncompromised

# Versatility

The **SIAT DropR** is extremely versatile and can handle a wide range of products that maintain a vertical position during the drop. It works best with rigid, non-deformable products, round products where agitator feeding is possible, and products with stable base dimensions and minimal top-heaviness



## Ideal Products



## Applications Sectors



## Why choose Drop Packer technology?

**SIAT DropR** offers the best throughput-to-investment ratio on the market, with one of the fastest ROIs in the industry (12-18 months).

FEATURE	DROP R		PICK & PLACE		SIDE LOAD		COBOT	
<b>SPEED</b>	High	↑	Medium	↓	High	↑	Low	↓
<b>COMPLEXITY</b>	Low	↓	High	↑	High	↑	Medium	↓
<b>MAINTENANCE</b>	Low	↓	High	↑	High	↑	Medium	↓
<b>FLEXIBILITY</b>	Medium	↓	High	↑	Low	↓	High	↑
<b>ROI</b>	Fast	↑	Slow	↓	Medium	↓	Medium	↓

**Best balance between performance, simplicity and ROI.**

## SIAT Integrated Solutions — A Complete Ecosystem

**DropR** reaches its full potential when integrated into a complete SIAT line. From case forming with our case erectors, to case packing with DropR, through to perfect sealing with SIAT case sealers and pallet wrapping with stretch wrappers: one single partner for end-of-line excellence.

**Contact us for a customized consultation and a tailored layout designed to meet your production needs.**

# Technical Specifications

<b>MODEL</b>	DropR Stand-Alone Case Packer
<b>PRODUCTIVITY</b>	High *
<b>MIN. BOX DIM. (L X W X H)</b>	Depending on the project
<b>MAX. BOX DIM. (L X W X H)</b>	Depending on the project
<b>FRAME CONSTRUCTION</b>	Monoblock Welded Tubular Painted Steel Frame
<b>CONTROL SYSTEM</b>	PLC with Color HMI Touchscreen
<b>PNEUMATICS</b>	Optimized low-consumption system
<b>LINE INTEGRATION</b>	A modular design, prepared for seamless integration in existing line or combined with SIAT upstream and downstream EOL modules

\* Speed depends on the product and packing pattern. Specifications are subject to change without notice..





## The SIAT Group



Headquartered in Northern Italy, SIAT is established as a quality leader in end-of-line industrial packaging solutions, specializing in taping, strapping and wrapping machines, as well as flexographic printing machines.

Based in Ohio (USA), Combi is a Northern American producer of industrial packaging systems, engineering and manufacturing case erectors, tray formers, case sealers, case packers, robotic packaging systems, and ergonomic monoblock hand-packing stations.



Located in Northern Italy, Tam has been producing small metal parts and providing precision machining services for over 30 years.

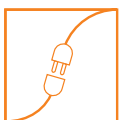
For over 50 years, we have been manufacturing high-tech equipment and are proud to be recognized by our customers as among the leading brands in packaging machinery and components. Our solutions are utilized across various industries, including food and beverage, e-commerce, logistics, packaging, and consumer products.

## Our machines are designed to:



### Increase customer productivity

Our machines boast an average life of 25 years, while our customers pay off their investment in only 4 to 5 months.



### Lower the total cost of ownership

Our machines are designed for easy maintenance and simple installation. They are developed to be user-friendly and durable, while also being easy to integrate and manage.



### Reduce environmental impact

We strongly believe in pursuing this goal through our environmental approach, envisioning the future of packaging as a collaborative effort with our customers to find the most sustainable and secure solutions. Each machine is designed to consume less energy, minimize material usage, and reduce waste.



### Be connected

Thanks to Optirun, the SIAT Group's IoT solutions brand, we can calculate tape and box consumption, monitor film usage, and track all machine parameters to prevent downtime.



### E-commerce

Buy directly at [www.shop.siat.com](http://www.shop.siat.com)



### Service

Contact our field service Team at [servicenow@siat.com](mailto:servicenow@siat.com)



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