



**KERONE**  
Kerone Engineering Solutions Limited



# PULP PACKAGING DRYER

**50<sup>+</sup> Years**  
*Of experience*



ISO 9001:2015 | ISO 14001:2015 | ISO 45001:2018

# ABOUT US

Kerone Engineering Solutions Ltd is a global leader in advanced industrial heating, drying, cooling & end to end process engineering solutions. With over five decades of proven expertise, we specialize in designing, manufacturing, and delivering highly customized, cutting-edge systems tailored to the evolving needs of industries worldwide.

Our commitment to engineering excellence, sustainability, digitalization, and technological innovation has positioned us as a trusted partner for businesses across multiple sectors. By integrating Artificial Intelligence (AI), Machine Learning (ML), and Internet of Things (IoT) technologies into our systems, Kerone ensures smarter automation, real-time monitoring, predictive maintenance, and data-driven process optimization—empowering our clients to achieve greater productivity, efficiency, and reliability.



**50+**

Years of Experience



**10,000+**

Satisfied Clients



**500+**

Employee



**100+**

Experts



**50+**

Global Presence



**50+ Years Manufacturing Excellence**



**Great Sale Support**



**Highly Customized Product**



**Adherence to Standards**



**Sound Infrastructure**



**Team of experts Delivering Quality**



**Timely Delivery**



**Cost Effective Solutions**



# INDUSTRIES WE SERVE

- ✓ Food Processing & Agro-Processing
- ✓ Chemicals & Petrochemicals
- ✓ Pharmaceuticals
- ✓ Textiles, Automotive & Aerospace
- ✓ Paper & Packaging
- ✓ Ceramics & Glass
- ✓ Rubber & Plastics
- ✓ Environmental & Waste Management
- ✓ Oil, Gas & Steel Industries



- ✓ Industry Expertise – Over 50 years of global engineering leadership.
- ✓ Custom Solutions – Tailored engineering that meets unique industrial requirements.
- ✓ Global Reach – Trusted by industries across continents with proven reliability.
- ✓ Digital & Smart Systems – AI/ML-powered automation, IoT-based monitoring, and predictive insights.
- ✓ Cutting-Edge Technology – Continuous innovation in heating, drying, and advanced processing.
- ✓ Energy Efficiency – AI-optimized designs for lower energy consumption and sustainability.

## QUALITY & COMPLIANCE

At Kerone, quality and compliance are non-negotiable. All our solutions are engineered in adherence to international standards and industry best practices, ensuring maximum safety, durability, reliability, and efficiency. With integrated digital technologies, we enable smarter quality control and compliance tracking across all operations.





Powered by AI/ML & IoT

## Pulp Packaging Dryer

A Pulp Packaging Dryer is a specialized industrial machine designed to remove moisture from molded pulp products such as egg trays, fruit trays, cup carriers, shoe inserts, and various eco-friendly packaging items. It operates as a critical step in the pulp molding production line, where wet molded pulp products – typically containing 70–80% moisture after forming – are passed through a high-temperature drying tunnel or chamber to achieve the desired dryness level for structural integrity and commercial use.

The machine works by circulating hot air (generated via gas burners, electric heating elements, or steam heat exchangers) through a conveyor-based or tunnel-style drying system. Products travel along a mesh conveyor belt through multiple heating zones, each precisely controlled for temperature and airflow. Advanced models feature multi-zone PLC-controlled temperature management, energy recovery systems, and variable speed conveyors to optimize drying efficiency while minimizing energy consumption – making them a backbone of modern sustainable packaging manufacturing.

### Key Features

- **Multi-Zone Temperature Control**  
Independent heating zones allow precise temperature gradients from entry to exit, ensuring uniform drying without cracking or warping.
- **High-Efficiency Heat Circulation**  
Forced hot-air circulation fans distribute heat evenly across all product surfaces, reducing drying time significantly.

- **PLC & HMI Automation**  
Fully automated control via programmable logic controllers with touchscreen interfaces for easy parameter adjustment and monitoring.
- **Variable Speed Conveyor**  
Adjustable belt speed allows operators to fine-tune drying duration based on product thickness and moisture content.
- **Energy Recovery System**  
Exhaust heat is recaptured and recycled back into the drying chamber, reducing fuel/energy consumption by up to 30–40%.
- **Modular Tunnel Design**  
Expandable dryer length and modular sections allow capacity upgrades without replacing the entire system.

### Advantages

- **High Throughput**  
Continuous conveyor operation enables large-scale production with minimal downtime
- **Consistent Quality**  
Uniform drying eliminates moisture variation, ensuring product dimensional stability
- **Energy Efficient**  
Heat recovery and insulated tunnel walls dramatically lower operating costs
- **Flexible Production**  
Handles diverse pulp products without major changeover adjustments
- **Easy Maintenance**  
Accessible panels and modular components simplify inspection and part replacement
- **Eco-Friendly**  
Compatible with renewable fuel sources; supports green manufacturing goals

## Applications

Industry	Description
Food Packaging	Drying egg trays, fruit trays, vegetable clamshells, and cup carriers used in food transport and retail
Electronics Packaging	Drying molded pulp inserts and cushions that protect fragile electronic components during shipping
Medical & Pharmaceutical	Producing sterile, dry pulp trays and inserts for medical device packaging
Agriculture	Manufacturing seedling trays and horticultural planting pots for nursery and greenhouse use
Cosmetics & Retail	Drying custom-molded pulp display trays and inner packaging for beauty and luxury products
Beverage Industry	Drying cup carriers and bottle separators used in beverage logistics and packaging



## Technical Specifications

Parameter	Specification Range	Description
Drying Temperature	150°C – 280°C	Operating temperature range across drying zones; adjustable per product type
Dryer Length	20 m – 120 m	Tunnel length varies based on required capacity and moisture removal
Belt Width	1.0 m – 2.5 m	Conveyor belt width determines product layout and throughput volume
Belt Speed	0.5 – 5.0 m/min	Variable speed controls drying duration and product residence time
Initial Moisture Content	70% – 80%	Typical moisture level of wet molded pulp entering the dryer
Final Moisture Content	8% – 14%	Target moisture level after drying for structural and commercial standards
Thermal Efficiency	70% – 92%	Efficiency rating with heat recovery system enabled
Noise Level	≤ 75 dB	Designed to comply with standard industrial workplace noise regulations



# THANK YOU

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