



50⁺ Years
Of experience

TUNNEL DRYER



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

Tunnel Dryer

A tunnel dryer is a continuous industrial drying machine designed for efficient and uniform removal of moisture from products as they move through an enclosed drying chamber. It operates by conveying materials on trays, belts, or trolleys through a long, insulated tunnel. Heated air is circulated evenly across the product surface to ensure consistent drying results. The system can use electric heaters, steam, gas, or hot air generators as the heat source. Airflow direction and temperature are precisely controlled for optimal performance.

Tunnel dryers are suitable for high-volume production with consistent quality output. They are commonly used in food processing, pharmaceuticals, chemicals, ceramics, and textiles. The continuous operation reduces manual handling and labor costs. Energy efficiency is improved through air recirculation systems. Drying parameters can be customized based on product type and moisture level. The enclosed design minimizes heat loss and contamination. Tunnel dryers support gentle to high-temperature drying applications. They are built with robust materials for long service life. Maintenance requirements are minimal with proper design. This machine ensures reliable, scalable, and cost-effective drying for industrial operations.

Key Features

- **Continuous Drying Operation**
Designed for nonstop, high-capacity drying to support large-scale industrial production

- **Uniform Temperature Control**
Provides consistent heat distribution across the tunnel for even and reliable drying results
- **Efficient Air Circulation System**
Advanced hot air circulation ensures optimal heat transfer and uniform moisture removal
- **Multiple Heating Options**
Compatible with electric, steam, gas-fired, or thermal fluid heating systems
- **Advanced Control Panel**
User-friendly controls for monitoring and adjusting temperature, airflow, and speed
- **Automation & Productivity**
Continuous automated operation reduces labor and improves production efficiency

Advantages

- **High Production Efficiency**
Continuous operation allows large quantities of material to be dried in a shorter time
- **Consistent Product Quality**
Uniform temperature and airflow ensure even drying with minimal variation between batches
- **Reduced Operating Cost**
Energy-efficient design with hot air recirculation lowers power and fuel consumption
- **Labor Saving Operation**
Automated and continuous process significantly reduces manual handling and manpower requirements
- **Flexible Drying Conditions**
Can handle gentle drying as well as high-temperature drying processes
- **Reduced Product Handling Damage**
Minimal manual handling helps maintain product integrity and appearance

Applications

Industry	Description
Food Processing	Drying fruits, vegetables, grains, spices, snacks, and processed food products
Pharmaceuticals	Controlled drying of tablets, granules, powders, and herbal
Chemical Industry	Drying chemicals, pigments, catalysts, and intermediate
Textile Industry	Drying fabrics, yarns, fibers, and textile coatings
Agriculture	Drying seeds, grains, animal feed, and agricultural produce
Rubber Industry	Drying rubber sheets, latex-based products, and molded
Plastic Industry	Drying plastic granules, molded parts, and polymer
Wood & Plywood	Drying timber, veneers, plywood sheets, and wood-based



Technical Specifications

Parameter	Specification Range	Description
Chamber Width	1-3 m	Internal width accommodating conveyor/trolley systems
Drying Chamber Length	6-30 m	Total length of drying tunnel; longer for continuous high-capacity operations
Chamber Height	1.5-2.5 m	Internal height for product loading and air circulation
Drying Temperature	40-150°C	Operating temperature range; depends on product type
Air Velocity	0.5-3 m/s	Speed of hot air circulation for moisture removal
Drying Capacity	50-5000 kg/hr	Product throughput per hour (wet basis)
Power Consumption	15-200 kW	Electrical power requirement for motors and heaters
Humidity Control	10-90% RH	Adjustable relative humidity in chamber
Power Consumption	15-200 kW	Electrical requirement



THANK YOU

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