



50⁺ Years
Of experience

TOWER DRYER



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

Tower Dryer

A Tower Dryer is a large-scale industrial drying machine designed in a vertical, multi-stage configuration that allows bulk materials — primarily grains, seeds, and granular products — to flow downward through a series of drying and cooling sections while heated air passes through the material to remove moisture. Its towering structure maximizes drying efficiency in a compact footprint, making it ideal for high-capacity continuous drying operations in agricultural and processing industries.

The machine operates on a continuous flow principle where wet material is fed from the top and gradually descends through temperature-controlled zones — typically a drying zone and a cooling zone — before being discharged at the bottom at the desired moisture content. Tower dryers are engineered for durability, energy efficiency, and minimal product degradation, ensuring uniform moisture reduction without compromising the quality or structural integrity of the processed material. With advanced automation systems and robust heavy-duty construction, tower dryers deliver consistent, reliable performance across a wide range of industrial environments, making them an indispensable asset in modern large-scale drying operations. Equipped with intelligent heat recovery technology and precision airflow management systems, tower dryers are capable of significantly reducing energy consumption while maintaining optimal drying conditions throughout every stage of the process. Their modular and scalable design allows industries to seamlessly expand drying capacity in line with growing production demands, without requiring major infrastructure changes or additional floor space.

Key Features

- **Vertical Multi-Stage Design**
Compact tower structure with multiple drying and cooling decks stacked vertically for space efficiency.
- **Continuous Flow Operation**
Uninterrupted material flow from inlet to outlet ensures consistent and high-throughput drying performance.
- **Uniform Heat Distribution**
Perforated plenum chambers and airflow management systems ensure even heat exposure across the entire material column.
- **Energy Recovery System**
Heat exchanger technology recycles exhaust heat back into the process, significantly reducing fuel consumption.
- **Heavy-Duty Construction**
Built with galvanized or stainless steel frames and panels to withstand harsh industrial environments and corrosive materials.

Advantages

- **High Throughput**
Capable of processing large volumes continuously without downtime
- **Energy Efficient**
Heat recovery systems reduce operational fuel costs significantly
- **Consistent Output Quality**
Uniform drying prevents over-drying or under-drying of product
- **Low Labor Requirement**
Fully automated operation minimizes manual intervention
- **Gentle on Product**
Gravity-based flow reduces mechanical damage to fragile materials

Applications

Industry	Description
Grain & Agriculture	Drying corn, wheat, rice, barley, and other harvested grains to safe storage moisture levels
Oilseed Processing	Removing excess moisture from soybeans, sunflower seeds, and canola before crushing or storage
Animal Feed	Reducing moisture in pelletized and mash animal feed to prevent mold and extend shelf life
Biomass & Energy	Drying wood chips, pellets, and agricultural residues for use as biofuel
Pharmaceutical	Controlled drying of granular pharmaceutical materials requiring strict temperature regulation
Food Processing	Drying lentils, beans, spices, and other food-grade granular products while maintaining quality



Technical Specifications

Parameter	Specification Range	Description
Drying Capacity	5 – 1,000+ tons/hour	Volume of wet material processed per hour depending on model size
Moisture Reduction	Up to 10–15% reduction	Typical wet-to-dry moisture point removal in a single pass
Inlet Moisture Content	Up to 35–40% (wb)	Maximum recommended moisture level of incoming material
Outlet Moisture Content	12–14% (wb)	Standard target moisture for grain storage or processing
Drying Temperature	60°C – 200°C (140–392°F)	Adjustable heat zone temperature based on material sensitivity
Airflow Rate	500 – 50,000 m ³ /hour	Volume of air circulated through the drying column per hour
Tower Height	10 – 40+ meters	Physical height of the dryer structure depending on stage count
Noise Level	≤ 85 dB(A)	Operational noise level at 1 meter distance from the machine
Ambient Operating Temp.	-10°C to +45°C	Recommended environmental temperature range for operation



THANK YOU

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