



KERONE
Kerone Engineering Solutions Limited



50⁺ Years
Of experience

GRAIN 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

Grain Dryer

A Grain Dryer is a heavy-duty, high-performance industrial machine specifically engineered to reduce and regulate the moisture content of freshly harvested grains – including wheat, corn, rice, soybeans, barley, sorghum, and sunflower seeds – bringing them down to safe and optimal storage levels. These machines operate through a sophisticated combination of controlled heat application, powerful airflow circulation, and mechanical grain movement to ensure that every grain is dried uniformly, consistently, and without compromising its physical or nutritional integrity. In the world of modern agriculture and food production, grain dryers play an absolutely critical role in post-harvest processing, acting as the first line of defense against spoilage, mold growth, fungal contamination, insect infestation, and overall quality degradation that is commonly caused by excess moisture retained in grains during or after harvest season. Without proper drying, even a high-quality grain yield can be rendered commercially unviable within days of harvesting due to rapid microbial activity triggered by high moisture levels.

Industrial grain dryers are precision-engineered machines built for both continuous-flow and batch-mode operation, capable of handling large-scale processing capacities that range from just a few tons per hour for small agricultural cooperatives to several hundred tons per hour for major grain terminals, export facilities, and food manufacturing plants. These robust machines are constructed with heavy-duty galvanized or stainless steel frameworks designed to withstand harsh outdoor and industrial environments over many years of operation.

Key Features

- **Precision Temperature Control**
Adjustable drying temperature with automated thermostat systems ensures grains are dried without overheating or cracking.
- **High-Efficiency Airflow System**
Powerful centrifugal fans distribute hot air evenly across all grain layers for uniform drying performance.
- **Multi-Fuel Burner Compatibility**
Compatible with natural gas, LPG, diesel, biomass, and electric heat sources for flexible fuel options.
- **Continuous & Batch Operation Modes**
Supports both continuous-flow and batch drying modes to suit different production volumes and grain types.
- **PLC/HMI Control Panel**
Fully automated programmable logic controller with touchscreen interface for easy operation, monitoring, and data logging.

Advantages

- **Reduced Post-Harvest Losses**
Quickly lowers moisture to safe levels, preventing mold, fungi, and grain spoilage.
- **Higher Grain Quality**
Maintains grain integrity, germination rate, and nutritional value during drying.
- **Fast Processing Speed**
High-capacity throughput reduces drying time compared to traditional sun drying.
- **Low Maintenance**
Simple modular design with easily replaceable parts lowers downtime and servicing costs.
- **Extended Storage Life**
Properly dried grain can be stored for months without quality degradation.

Applications

Industry	Description
Agriculture & Farming	Drying freshly harvested grains like wheat, corn, rice, and barley before storage or sale
Food Processing	Reducing moisture in grains and seeds used for flour milling, starch production, and food manufacturing
Seed Processing	Carefully drying certified seeds to maintain germination viability for replanting
Rice Milling Industry	Reducing paddy rice moisture content before hulling and polishing operations
Export & Grain Trading	Conditioning grain to international moisture standards for export shipment compliance
Animal Feed Production	Drying raw grain materials used in compound feed manufacturing to prevent spoilage



Technical Specifications

Parameter	Specification Range	Description
Drying Capacity	5 – 500 TPH	Tons of grain processed per hour depending on model size
Initial Moisture Content	Up to 35% (w.b.)	Maximum moisture level of grain input before drying
Final Moisture Content	12% – 14% (w.b.)	Target safe storage moisture level after drying
Drying Temperature	40°C – 120°C	Adjustable hot air temperature based on grain type
Thermal Efficiency	Up to 85%	Percentage of heat energy effectively used in drying
Power Consumption	5 – 150 kW	Electrical power requirement based on machine capacity
Dryer Type	Tower / Rotary / Belt / Batch	Various designs suited for different grains and volumes
Noise Level	≤ 85 dB	Operational noise level at 1 meter distance
Airflow Rate	500 – 15,000 m ³ /hr	Volume of hot air circulated through the drying chamber



THANK YOU

UNIT 1 (KESL)

4 & 5, Marudhar Industrial Estate, Gas Godown Lane, Goddev Fatak Road, Bhayander (E), Dist. Thane - 401105. (India)

Contact Us
+91-22 48255071, 48255072

UNIT 2 (MIDC)

Plot No. B-47, Addl. MIDC Anand Nagar, Ambernath (E), Dist. Thane - 421506 (India)

Contact Us
+91(0251)2620542/43/44/45/46

UNIT 3 (KRDC)

Plot No K2, Industrial Gala F4A, D- Wing, MGN Properties, Opposite Godrej Co., Addl MIDC Anand Nagar, Ambernath (E)- 421506 (India)

Contact Us
+91-2512620543/44

UNIT 4 (EUROPE)

(EMitech) Viale della Palma, 7, 70033 Corato BA, Italy (Europe)

Contact Us
+91-2512620543/44

UNIT 5 (THAILAND)

Thailand Representative: 163 Rajapark Building, 18th floor, Sukhumvit 21 Road (Asoke), Wattana, Bangkok - 10110, Thailand

Contact Us
G.Vivekanand
+6689 500 9821

Uzbekistan / Kazakhstan (Office)

TIT Company LLC: 100060, 2, A. Kahhar, Tashkent, Uzbekistan

Contact Us
Mr. Slava
+998 903540963

Israel (Office)

Ornatus Industrial Tech Ltd: Dam Hamacbim 36, 7178602 Modiin, Israel

Contact Us
Omri Fabian
+972 584844887

Australia & New Zealand (Office)

Linetech Pty Ltd: Po Box 3046, Browns Plains, Qld 4118. Australia

Contact Us
Eric Quevauvilliers
+61 (0)418 871 005

Bangladesh (Office)

House-10, Road-5 Priyanka City, Sector-12, Uttara, Dhaka-1230, Bangladesh

Contact Us
Md. Emtiaz Morshed
+8801747762200

Chile & South America (LatAM)

La Concepcion 165 Oficina 303, Providencia, Santiago, CHILE

Contact Us
+56 232 243 921



SCAN HERE

✉ Our Mails

info@kerone.com
sales@kerone.com
marketing@kerone.com

🌐 Website

www.kerone.com
www.kerone.in
www.keronedryers.com
www.keronebiochar.com