

## Products

MW Curing Ovens



MW Sintering Furnaces



Hybrid MW Driers



MW Synthesis Ovens



MW Plasma Systems



Waste Processing Plants



Microwaves are a part of the Electro-Magnetic (EM) radiation spectrum, with a frequency range of 300 MHz to 300 GHz. Microwaves are generated by various means but Magnetron is the simplest and most economic device used for the purpose. For most industrial heating applications the microwave frequencies are restricted to 896 - 915 MHz, 2425 - 2475 MHz and 5775 - 5825 MHz.

When materials are exposed to microwave radiation, it gets reflected, absorbed or transmitted depending on the dielectric properties of the material which are a function of composition, size and temperature. Practically all the three phenomena are present partially when a material is exposed to microwaves. The absorbed portion (A) of the incident microwave, heats the material by polarization of the atomic / molecular / grain structure.

Mostly, to discern the best industrial heating unit for you, you need to assess the amount of free space that you have available. With our expertise you will be able to find the optimum industrial heating solution for your company. We have extensive experience surrounding heating systems, and therefore our services range from offering **advice, consultancy, manufacturing & supplying to installing and maintaining Turnkey heating projects.**



### Enerzi Microwave Systems Pvt. Ltd.

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### Other Group Companies

Creintors Holdings Pvt. Ltd. AND

Creintors Teknosol Pvt. Ltd.

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CHEMICAL & PHARMA  
FOOD & FEEDS  
MATERIALS  
WOOD & PAPER  
WASTE PROCESSING

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## Enerzi Microwave Systems Pvt. Ltd.

Takes pride in being the First Indian Company to indigenously develop and offer:

- ▶ State-of-the-art PC, PLC and Micro-controller based microwave power supplies for heating systems
- ▶ High Temperature Microwave Furnaces with Vacuum, Hydrogen, Nitrogen, Argon and Oxygen atmosphere control
- ▶ Hybrid continuous microwave ovens for Paddy Processing
- ▶ Hybrid continuous microwave ovens for Dis-infestation of food grains
- ▶ Hybrid continuous microwave ovens for Processing of fruits and vegetables
- ▶ Hybrid continuous microwave ovens with a proprietary design for Rubber vulcanization
- ▶ State-of-the-art Microwave Plasma Systems for Nano-powder Synthesis

*More than 500 Microwave power supplies, more than 50 Microwave sintering furnaces, more than 40 Microwave drying systems, more than 100 custom built Microwave heating systems & solutions... And Counting!*

## Clientele:

- ▶ Metzeler Automotive Profiles (I) Pvt. Ltd.
- ▶ Goldseal Engineering Pvt. Ltd.
- ▶ Anand Nishikawa Co. Ltd.
- ▶ Educational Institutes, IISc Bangalore and IITs
- ▶ Research Institutes in India and Overseas
- ▶ Defense Research & Development Organization (DRDO)
- ▶ National Aerospace Laboratory (NAL)
- ▶ Centre for Materials for Electronics Technology ( C-MET)
- ▶ Defense Food Research Laboratory (DFRL)
- ▶ Central Food Technology Research Institute (CFTRI)
- ▶ Wendt India Ltd.
- ▶ Double Dee Technologies Pvt. Ltd.
- ▶ Central Glass & Ceramic Research Institute (CGCRI)

## Microwave Heating is useful because Microwave "SERVES"



## Vision

To conserve nature's precious resources by spearheading a global revolution in sustainable, efficient, innovative and green heating technologies.

## Mission

To be a global leader in providing state-of-the-art Microwave & RF heating solutions, handcrafted to blend the energy efficient, economical & eco-friendly technologies with ergonomics and elegance.

## Values that "ENERZI" stands for

- ▶ Excellence in value creation with simplicity
- ▶ Novelty that transcends customer delight
- ▶ Effective leadership with ingenuity
- ▶ Radical thinking for breakthrough research
- ▶ Zenith of integrity and adaptability
- ▶ Intrapreneurship with synergistic teamwork