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🔥 Applications of Innovative Roaster Machine

1. Food Industry

- **Peanut Roasting** – For preparing peanuts for further processing (snack production, peanut butter, etc.).
- **Cashew & Almond Roasting** – For enhancing flavor and shelf-life.
- **Chickpea/Bengal Gram Roasting** – Used in snacks and ready-to-eat products.
- **Coffee Bean Roasting** – Controlled roasting for flavor development.
- **Cocoa Bean Roasting** – Used in chocolate production.
- **Spice Roasting** – Pre-roasting of spices like cumin, coriander, fennel, etc., to enhance aroma.

2. Snack Industry

- Roasting of **puffed grains**, **corn**, and **puffed rice** for snacks.
- Used in making **roasted chana**, **murmura mix**, and **masala peanuts**.

3. Ayurvedic & Herbal Industry

- Roasting of **herbs and roots** before grinding for medicinal formulations.

4. Bakery & Confectionery

- Roasting of **nuts** and **dry fruits** used in cakes, cookies, chocolates, etc.

5. Oil Extraction Pre-Processing

- Roasting of **oil seeds** (sesame, sunflower, mustard) before oil extraction to enhance yield and flavour.

6. Animal Feed Industry

- Roasting **soybeans** or other grains to deactivate anti-nutritional factors before using them in feed.

7. Export-Oriented Food Processing

- Hygienic, uniform roasting for export-quality food products.

The **capacity of an Innovative Roaster Machine** can vary depending on the model and intended application. However, here's a general range of available capacities typically offered by manufacturers like **Innovative Engineering Works**:

🔧 **Capacity Range of Innovative Roaster Machines**

Model Type	Capacity (Per Hour)	Application
Small / Lab Scale	10–25 kg/hr	R&D, small batches, startups
Standard Model	50–100 kg/hr	Small-scale commercial production
Medium Model	100–200 kg/hr	Mid-sized production units
Large / Industrial	300–500 kg/hr	Large-scale, export units, continuous roasting
Customized Machines	Up to 1000 kg/hr+	As per customer requirement

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✅ Capacity Depends On:

- **Type of Product**: (e.g. peanuts, chana, cashew, coffee)
- **Heating Source**: Diesel, gas, electric, or wood-fired
- **Drum Size and Roasting Time**
- **Moisture Content of Raw Material**

🔧 Types of Innovative Roaster Machines

1. **By Operation Mode**
    - **Batch Type Roaster Machine**
    - **Continuous Type Roaster Machine**
2. **By Heating Source**
    - **Electric Roaster Machine**
    - **Gas-Based Roaster Machine**

✅ Key Features

- **Capacity Range**: 5 kg/hr to 1000 kg/hr
- **Multi-purpose Use**:
    - Nuts: Peanut, Almond, Cashew, Hazelnut, etc.
    - Seeds: Pumpkin, Sunflower, Flax, etc.
    - Spices, Grains, Flours, and Herbs
    - Puff Foods and other snack items

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Electric Roaster vs Gas/Wood/Diesel Roasters (Comparison)

Feature / Advantage	Electric Roaster (Innovative Double-Layer Insulated)	Gas / Wood / Diesel Roaster
Operating Cost	✅ Lower due to energy-efficient insulation	❌ Higher due to fuel consumption
Accuracy	✅ More accurate temperature control	❌ Less precise control
Roasting Quality	✅ Even and uniform roasting possible	❌ Uneven roasting risk
Safety	✅ No risk of fuel leaks or explosions	❌ Gas leakage, fuel handling issues
Air Pollution	✅ Clean operation, no emissions	❌ Requires ventilation due to fumes
Maintenance	✅ Minimal maintenance needed	❌ Frequent cleaning, fuel system checks
Fuel Supply & Management	✅ No need for continuous fuel handling	❌ Continuous supply and storage management required
Installation	✅ One-time plug & play installation	❌ Setup for gas line, fuel storage, and ventilation
Environmental Impact	✅ Eco-friendly if powered by clean electricity	❌ Pollutes air with smoke or fumes

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✅ **Conclusion:**

The **Innovative Electric Roaster**, especially with **double-layer insulation**, is a **superior choice** for:

- Clean, safe, and energy-efficient operations
- Consistent product quality
- Long-term cost-effectiveness

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⭐ Why Choose the Innovative Roaster Machine?

✅ Proven Performance

- **300+ Satisfied Customers** across industries
- **Only 3% Service Requirement in 1st Year**
- Built as a **Long-Life Machine** with minimal breakdowns

🔧 Premium Build Quality

- Assembled using **Standard Industrial Components**
    - **Motor**: Trusted brands like **Crompton** or **Havells**
    - **Gearbox**: **Hardened gear system** for durability
    - **Material**: Fabricated using **High-Grade Steel**
    - **Electric Components**: Only **Standard Grade Fittings**

🛠️ Reliable Service & Support

- **Instant Video Call Support**
- **On-site Visit Available if Necessary**
- **2-Year Warranty** (*Extended service at extra cost*)

This machine is **engineered for reliability**, **low maintenance**, and **consistent roasting quality**, making it a smart investment for any food processing business.