



# **Complete Solutions of Raw Makhana and Snacks Processing Machines**



**Leading Food Processing  
Machine Manufacturer & Exporter in India**



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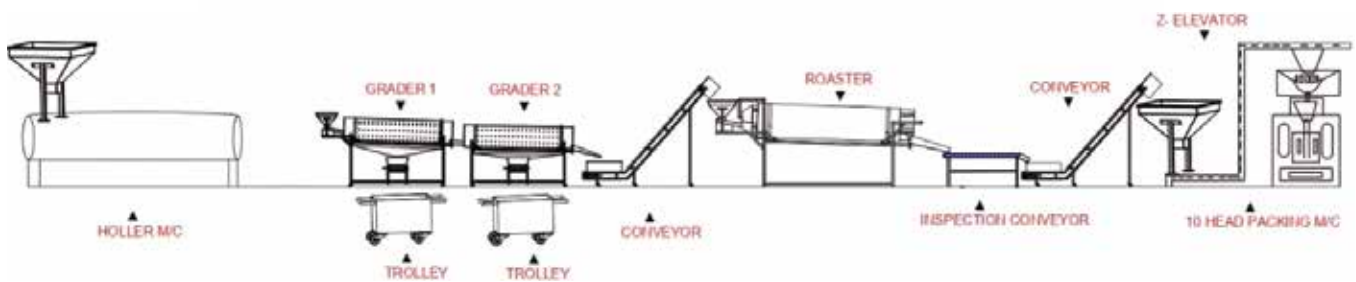
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# Raw Makhana Grading and Packaging Line

A Raw Makhana Grading and Packaging Line is a semi- or fully-automated system designed to clean, grade (sort by size), and package raw makhana seeds. This setup is essential for businesses involved in bulk supply, trading, or further processing of raw makhana before roasting or popping.

- ◆ Remove dust, husk, and broken pieces
- ◆ Sort makhana into uniform size grades (S, M, L, XL)
- ◆ Weigh and package the graded makhana into sacks or pouches
- ◆ Improve commercial value by offering sorted, clean raw product

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# Fully Automatic Makhana Snacks Processing Line

The Fully Automatic Makhana Snacks Processing Line is an end-to-end industrial solution for producing ready-to-eat flavored makhana snacks at a commercial scale. Designed for high-output manufacturing, this line automates the entire process—from raw seed input to retail-ready, nitrogen-flushed packaging—ensuring efficiency, hygiene, and consistent quality.

This processing line eliminates manual handling through a sequence of automated machines integrated with PLC-based controls, providing high precision in roasting, flavoring, cooling, weighing, and packaging. It is ideal for factories supplying to national or export markets.

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# Roasted Flavoured Makhana Snacks Processing Machines

This category includes the key machines used to roast, flavor, and process makhana snacks, forming the backbone of any makhana snack manufacturing setup—from small-scale to industrial lines.

## Makhana Roaster Machine

### Purpose

Uniform roasting of raw makhana kernels to achieve the perfect crispness and texture.

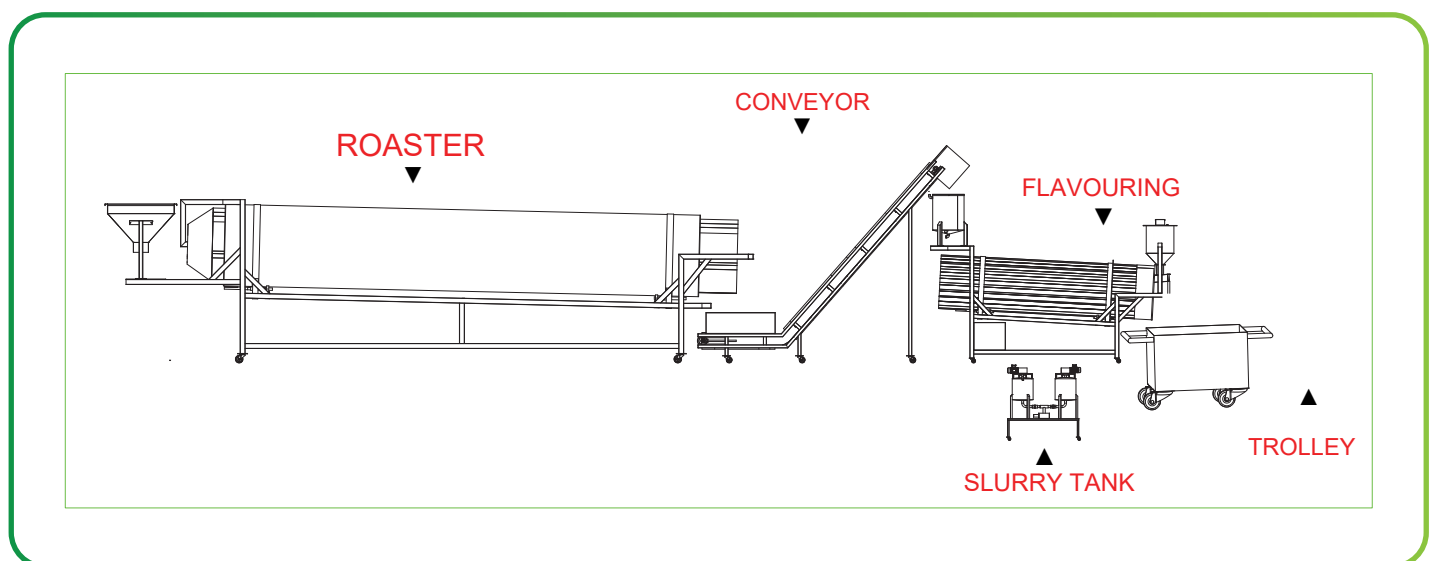
### Types

- ◆ Rotary Roaster: Rotates makhana inside a drum with controlled heat (electric, LPG, or diesel).
- ◆ Belt Roaster: Continuous roasting on a heated conveyor belt with hot air circulation.

## Flavoring & Coating Machines

### Flavoring & Coating Machines

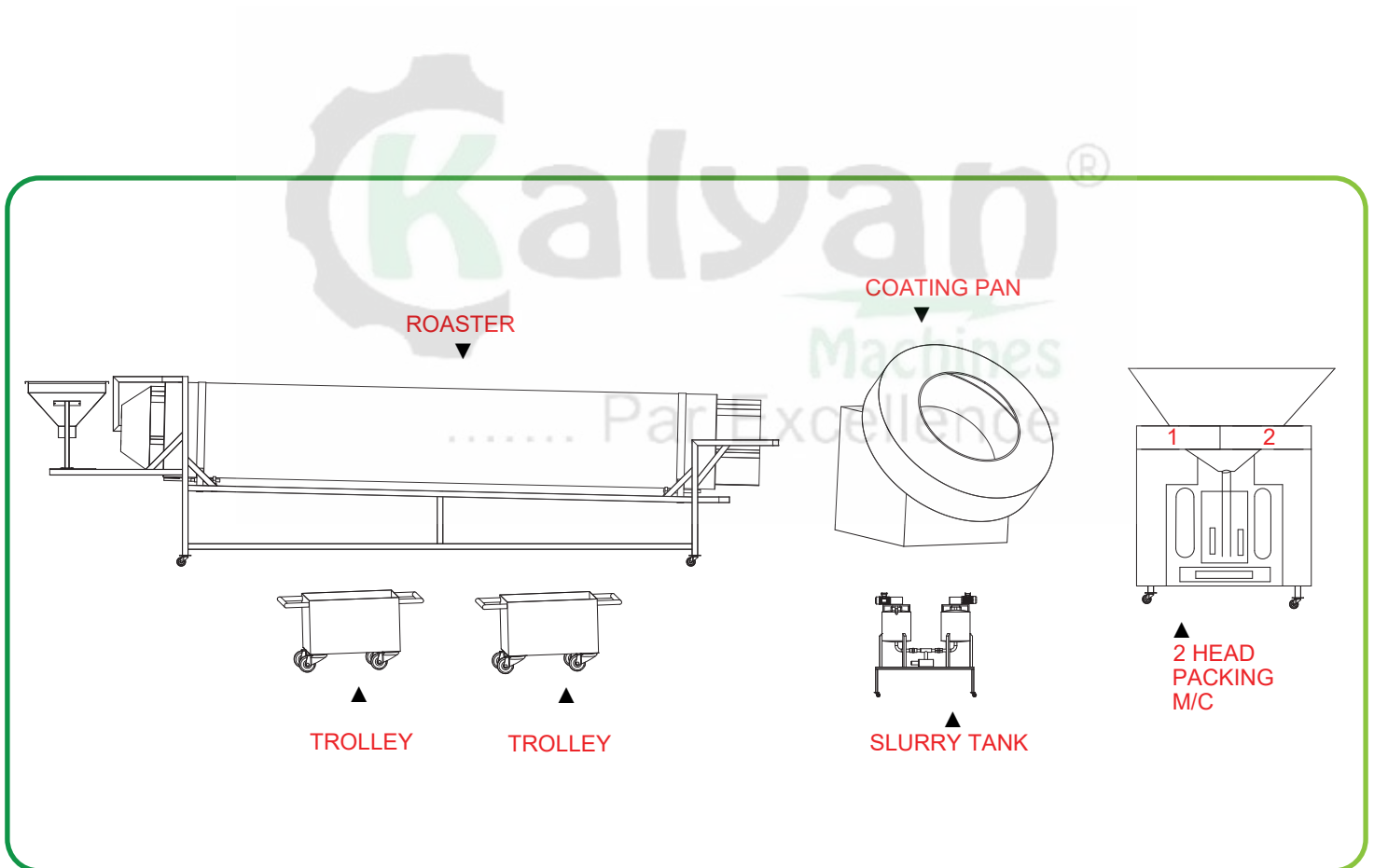
- ◆ Rotating drum or pan where roasted makhana is tumbled.
- ◆ Heated slurry (masala + oil) is sprayed or poured over for uniform flavor coating.
- ◆ Adjustable speed and spray system for controlled flavor distribution.



# Semi-Automatic Makhana Snacks Machine

A Semi-Automatic Makhana Snacks Machine is a compact processing line designed to roast, flavor, and mix makhana with spices, herbs, or coatings to create tasty, market-ready snacks. This setup is ideal for small to medium-scale manufacturers who want a balance between automation and manual control, ensuring efficiency without the high cost of fully automatic systems.

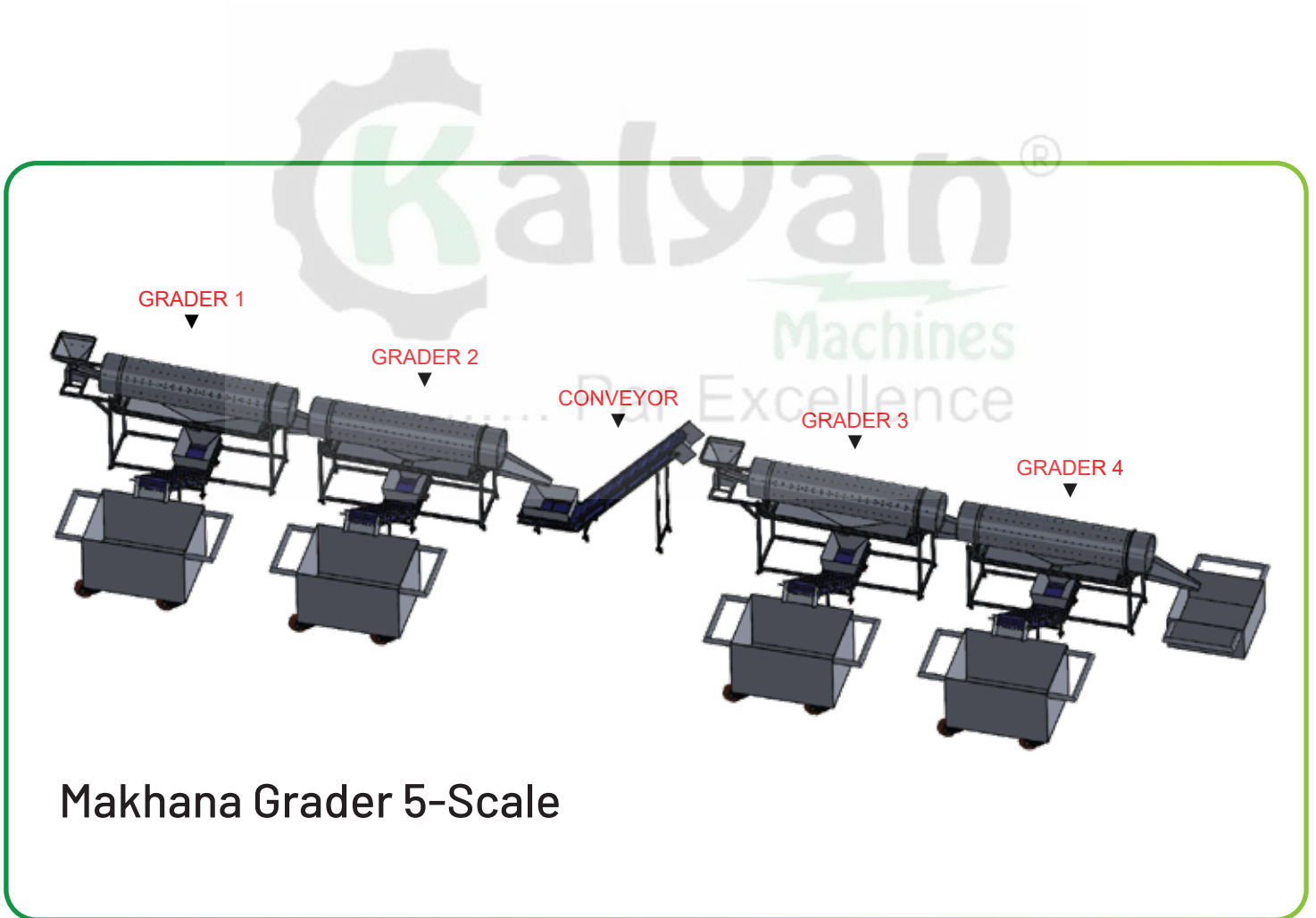
The machine (or set of machines) enables semi-continuous processing of makhana – from feeding and roasting to flavoring and mixing. While core operations like heating and mixing are automated, loading, unloading, and packaging may involve manual assistance.



# Makhana Grader

A Makhana Grader is a specialized machine used in the makhana (fox nut) processing line to separate makhana into different sizes or grades. This is an essential step in commercial makhana processing because different sizes fetch different prices and are used for various purposes (snack, flavored makhana, powder, etc.).

A Makhana Grader uses a set of rotating cylinders with perforated holes of various diameters to classify makhana based on size. The output is typically 3-5 grades.



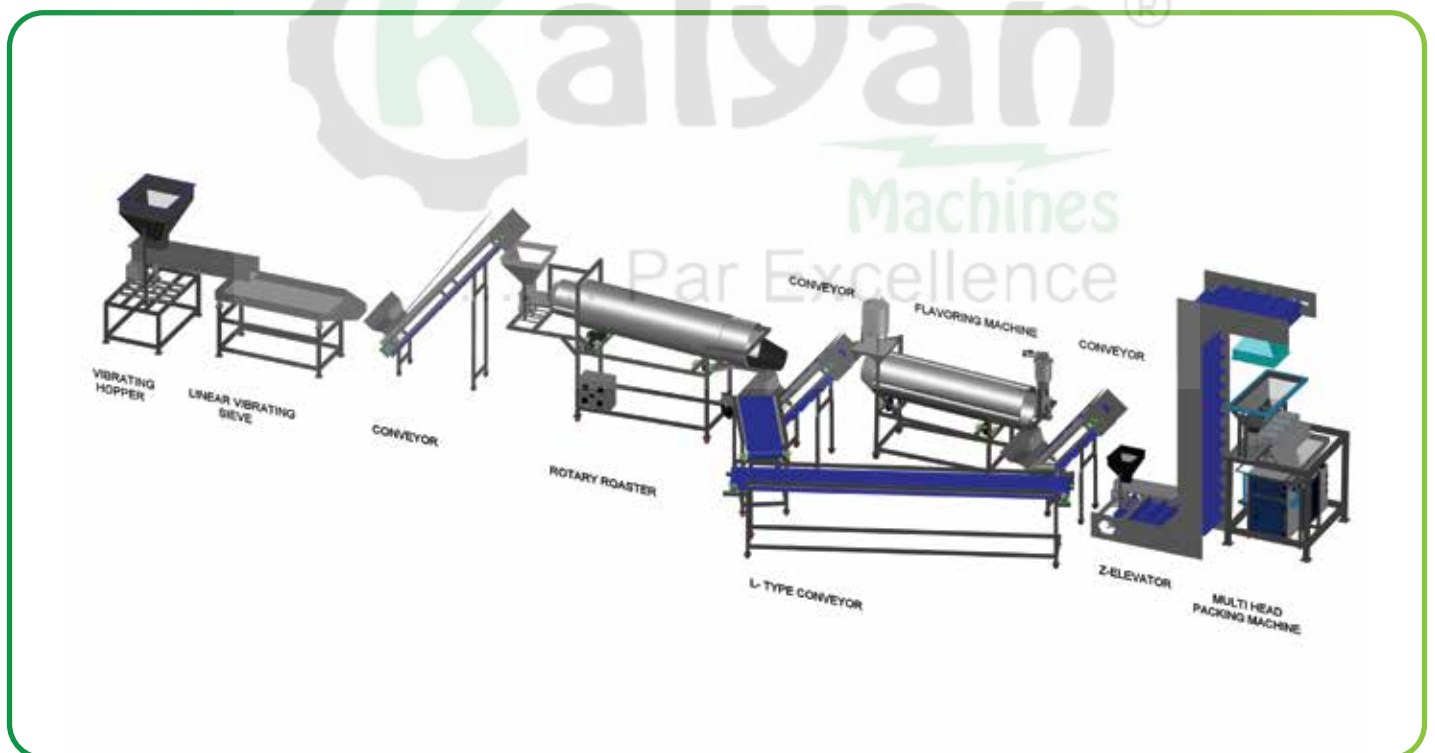
Makhana Grader 5-Scale



# Automatic Makhana Snacks Processing Line

An Automatic Makhana Snacks Processing Line is a fully integrated and streamlined system that handles the complete transformation of raw makhana into finished, flavored snack packs – with minimal human intervention. It is ideal for large-scale production units, contract manufacturers, or established snack brands aiming for high output, consistency, and hygiene.

This processing line automates roasting, flavoring, mixing, cooling, and packaging of makhana, ensuring uniform taste, texture, and shelf life. The system is programmable via a central PLC control panel and can run continuously for extended shifts.



# Makhana Vibrator Hopper

A vibrator hopper is a vibrating container or tray that holds bulk makhana and feeds it in a controlled manner to the next machine in the production line (like a roasting machine, grader, or packaging machine). The vibration helps prevent clogging and ensures smooth, consistent flow of the product.

- ◆ **Stainless Steel Construction:** To maintain hygiene standards (usually SS 304 or 316).
- ◆ **Vibratory Motor:** Creates controlled vibration to move makhana efficiently.
- ◆ **Adjustable Flow Rate:** By modifying the vibration intensity or outlet size.
- ◆ **Hopper Capacity:** Varies based on production scale (commonly from 50 kg to 300 kg or more).
- ◆ **Discharge Chute:** Allows for precise and mess-free material transfer.



## Makhana Feeding Conveyor

A Makhana Feeding Conveyor is an essential piece of equipment in a makhana processing line. It's designed to transport makhana (fox nuts) from one stage of processing to another—such as from cleaning to roasting, or from roasting to grading or packaging – smoothly and efficiently.

- ◆ Flat or inclined design
- ◆ Food-grade PVC or PU belt
- ◆ Suitable for gentle handling
- ◆ Moc: Stainless Steel
- ◆ Easy to design and Operate



# Makhana Roaster

A makhana roaster uniformly heats makhana using gas, electric, or infrared heating. It can be operated manually or automatically, and is designed to maintain the delicate structure of makhana while roasting them evenly.

## Rotary Drum Roaster

- ◆ Horizontal rotating drum with internal fins for even roasting
- ◆ Continuous or batch operation
- ◆ Ideal for high-capacity processing



## Makhana Inspection Conveyor

It's a slow-moving, wide conveyor belt—often made of food-grade materials—with good lighting and sometimes magnification or dust extraction to assist manual inspection. It's typically positioned at a height comfortable for operators to visually check the makhana during processing.



# Makhana Rotary Rack Oven

A Makhana Rotary Rack Oven is a high-capacity oven used for uniform roasting or baking of makhana in bulk trays. Unlike drum roasters, this oven is best suited for batch roasting with controlled temperature and humidity, especially if you're doing flavoured or ghee-roasted makhana.

A Rotary Rack Oven features a large insulated chamber where a rack with multiple trays rotates inside to ensure even roasting. The rotation



# Makhana Continuous Dryer

A Makhana Continuous Dryer is a specialized industrial machine used to continuously remove moisture from popped makhana (fox nuts) after washing or roasting. Proper drying is essential to ensure crunchiness, extended shelf life, and mold prevention, especially before flavoring or packaging.

A continuous dryer uses a conveyor belt system inside a heated chamber to dry makhana as it moves from one end to the other. This allows non-stop drying, which is ideal for large-scale makhana processing lines.



# Makhana Automatic Flavouring Machine

A Makhana Automatic Flavouring Machine is a key part of the makhana processing line used to coat roasted makhana with oil, ghee, salt, spices, or seasoning blends in a consistent and efficient manner. It automates the flavoring process, ensuring even coating and minimizing breakage or waste.

This machine combines tumbling and spraying technology to coat makhana evenly with desired flavors. It's typically used after roasting and drying, just before cooling and packaging.



# Masala Coating Pan Machine

A Masala Coating Pan Machine (also called a flavoring pan or seasoning pan) is used in the food processing industry to coat products like makhana, peanuts, dry fruits, or candies with spices, seasoning, oil, or other flavoring agents. It's a simple, batch-type coating machine that provides uniform mixing and flavoring.

It is a tilted, rotating stainless steel pan where products are tumbled while masala (spice mix) and binding agents like oil, ghee, or syrup are added. The movement ensures even coating on all particles.



# Slurry Kettle with Pump

A Slurry Kettle with Pump is an essential machine in food processing used for preparing and dispensing liquid or semi-liquid flavoring mixes—commonly referred to as slurry—which typically include oil, ghee, water, spices, seasonings, and binders. It is especially useful for makhana, popcorn, chips, namkeen, and other snack flavoring systems.

It's a jacketed vessel (kettle) used to heat and mix ingredients into a uniform slurry, with a connected pump system to automatically feed the slurry into a flavoring drum, coating pan, or inline applicator. It ensures consistent viscosity, temperature, and flavor distribution.



## Makhana Sorting Table

It's a flat, stainless steel table (often with conveyors and lighting) where workers manually inspect and separate makhana based on:

- ◆ Over- or under-puffed seeds
- ◆ Burnt or discolored pieces
- ◆ Foreign particles
- ◆ Size or shell presence



# Makhana Packaging Machine

(Makhana Weighing Filler Pouch Packaging Machine)

A Makhana Weighing Filler Pouch Packaging Machine is a highly efficient integrated system designed to weigh, fill, and seal makhana (fox nuts) into pouches accurately and quickly. It combines weighing technology with automatic pouch feeding and sealing, ideal for precise packaging in retail-sized packs.

This machine automates the entire packing process from measuring the correct weight of makhana (using multi-head weighers or volumetric fillers), to filling pre-made pouches, and then sealing them, usually with heat sealing. It ensures high accuracy and minimal product wastage.



## Z Elevator

It's a vertical and horizontal conveying system shaped like the letter "Z". It uses attached buckets on a rotating chain or belt to scoop, lift, and drop products into the next stage of processing, such as a mixer, roaster, pulverizer, or packaging machine.



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# Makhana Powder Making Plant

A Makhana Powder Making Plant is a specialized processing line designed to convert makhana (fox nuts) into fine powder form, which can be used for culinary ingredients, supplements, snacks coating, or cosmetic products. This plant integrates several machines to clean, roast, grind, and sieve makhana into high-quality powder.

It is a complete setup that processes raw or roasted makhana into powder through a series of steps including cleaning, roasting (optional), grinding, and sieving, ensuring uniform particle size and purity.



## Makhana Pulverizer

A pulverizer for makhana is a high-speed grinding unit that crushes the delicate, puffy makhana into uniform particles. It may use hammering, pin, or disc grinding mechanisms depending on the required powder fineness and production scale.

## Makhana Vibro Sieve

A Makhana Single Deck Vibro Sieve is a vibrating screening machine used to separate makhana powder or granules into a uniform size or to remove oversize and undersize particles after grinding or grading. It plays a crucial role in both makhana powder production and whole seed sorting.



## Makhana Powder Mixer

A Makhana Powder Mixer is a machine used to uniformly blend makhana powder with other ingredients such as spices, flavoring agents, sugar, salt, or nutritional additives. It's an essential part of value-added makhana product lines, especially for making spiced powders, nutritional blends, or ready-to-cook mixes.



## Makhana Powder Packaging Machine

A Makhana Powder Packaging Machine is a specialized packing unit designed to fill and seal makhana powder into pouches, jars, or sachets with precision and hygiene. It's a key machine for businesses producing flavored powders, nutritional blends, or retail packs of makhana-based products.

This machine automates the process of measuring, filling, and sealing makhana powder into containers or flexible pouches. It typically uses an auger filler system due to the free-flowing or semi-free-flowing nature of makhana powder.



# Certificates



**Government of India**  
Ministry of Commerce and Industry  
Directorate General of Foreign Trade  
Office of the Additional Director General of Foreign Trade, CLA Delhi  
Central Licensing Area (CLAA) Wing I/F, Bhawan, I/P, Estate, New Delhi

**Importer-Exporter Code**

This is to certify that **KALYAN MACHINES** is listed as Importer-Exporter Code (IEC)-ASTPGT17SP with details as follows:-

IEC	ASTPGT17SP
आयातकर्ता/आयातकर्ता नाम	ASTPGT17SP
आयातकर्ता का नाम	KALYAN MACHINES
आयातकर्ता का प्रकार / Nature of Concern	Proprietorship
आयातकर्ता का पंजीकरण का तिथि / Date of Registration	13/12/2018
आयातकर्ता का पता / Registered Address	F-8, SECTOR - 11, NOIDA, NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201301
आयातकर्ता का हस्ताक्षर / Name of the Signatory	Vijay Gargwal
आयातकर्ता / Partner Details	Refer online at <a href="https://dgt.gov.in">https://dgt.gov.in</a> or scan the QR Code
आयातकर्ता का विवरण / Branch Details	Refer online at <a href="https://dgt.gov.in">https://dgt.gov.in</a> or scan the QR Code

Last Modified : 28/03/2022  
File Number : DLBFCFAMEND0019M18AME2

Note : This is a system generated certificate. Authenticity / Updated details of the IEC can be checked at official DGT website <https://dgt.gov.in> by entering the IEC and Firm Name under Services to View Any IEC Details. You can also authenticate the certificate by scanning the QR code.

IEC Certificate



**Certificate**  
This is to certify that  
**KALYAN MACHINES**

GROUND FLOOR, F-8, SECTOR - 11, NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH - 201301, INDIA

Has been found in compliance with requirement of  
**Quality Management System**  
**ISO 9001:2015**  
For The Following Scope:  
**"MANUFACTURER OF FOOD PROCESSING MACHINES."**

Certificate No : QMS/092020/16423  
Original Certificate Date : 27th - April -2023  
Issue Date : 27th - April -2023  
Expiry Date : 26th - April -2026

Authorized Signatory: *Ajeet Kaur*

Official: Certification Commission of India, established by Govt. of India, New Delhi  
International Standards Organization (ISO) accredited by "BIS UK" This Certificate remains the property of "ISO" to whom it must be returned on request.

ISO Certificate



**Government of India**  
Form GST REG-06  
(New Reg.)  
Registration Certificate

Registration Number: #ASTPGT17SP123E

1. Legal Name	VIJAY GARGWAR			
2. Trade Name, if any	Kalyan Machines			
3. Constitution of Business	Proprietorship			
4. Address of Principal Place of Business	Ground Floor F-8, Sector - 11, Noida, Gautam Buddha Nagar, Uttar Pradesh, 201301			
5. State of Locality	Uttar Pradesh			
6. Date of Validity	From	18/10/2018	To	Not Applicable
7. Type of Registration	Regular			

10. Particulars of Approving Authority

11. Date of issue of Certificate: 24/10/2018

Note: The registration certificate is required to be prominently displayed at all places of Business/Office in the State.

GST Certificate



**Udyog Aadhar Memorandum**

1. Address Number	ASTPGT17SP		
2. PAN Number	VIJAY GARGWAR		
3. Name of Entrepreneur	OBC		
4. Social Category of Entrepreneur	Male		
5. Gender	No		
6. Physically Handicapped	KALYAN MACHINES		
7. Name of Enterprise	Proprietorship		
8. Location of Plant Details	Noida		

Sl. No.	Plant/Overhead No.	Name of Premises/Building/Village	Road/Street Lane	Area/Locality	City	Pin	State	District
1	E-17C SECTOR 8	NOIDA	GAUTAM BUDDHA NAGAR	UTTAR PRADESH	NOIDA	201301	UTTAR PRADESH	GAUTAM BUDDHA NAGAR

Official Address of Enterprise: E-17C SECTOR 8 NOIDA UP 201301  
District: GAUTAM BUDDHA NAGAR State: UTTAR PRADESH Pin: 201301  
Mobile No: 9196957594 Email: kalyanmachines21@gmail.com

12. Date of Commencement: 25/08/2011

13. Previous Registration details if any:  
Bank Details: IFSC Code: INEQ0001033, Bank Account: 9000011020131

14. Major Activity: MANUFACTURING

Sl. No.	MSME 2 Digit	MSME 4 Digit	MSME 6 Digit Code	Activity Type
15	28	2823	28230	Manufacture of machinery and equipment
16	28	2823	28230	Manufacture of other special purpose machinery

17. Persons employed: 10  
18. Investment (Plant & Machinery / Equipment): 20% in Loans  
19. Export Industry Centre: GAUTAM BUDDHA NAGAR

I hereby declare that information given above is true to the best of my knowledge. Any information, that may be required to be verified, shall be provided immediately before the concerned authority.

MSMEs Mobile App (Beta Version) is available now for download: <https://play.google.com/store/apps/details?id=com.msme.msmeapp>

MSME Certificate

# Certificates



Udyam Registration Certificate



Trade India Trust Seal



Indiamart Trust Seal



# Notes



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# Notes



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# Our Globally Presence



Kalyan Machines is an Indian manufacturer and exporter specializing in food processing and packaging machinery. Established in 2011 by Mr. Vijay Gangwar and Ms. Kiran Verma, the company is headquartered in Noida, Uttar Pradesh, and has gained recognition for its innovative and reliable equipment tailored for the food industry.

Kalyan Machines provides a comprehensive range of machinery, including

- ◆ **Snacks Processing Lines:** Fully automatic lines for producing corn puffs, Kurkure, chips, namkeen, fryums and popcorn.
- ◆ **Sweets Making Machines:** Equipment for making rasgulla and peda etc.
- ◆ **Bakery Equipment:** We will provide the machines for bread, rusk and cookies etc.
- ◆ **Packaging Equipmet:** All types of pouch packing machines.



**ISO 9001:2015  
CERTIFIED COMPANY**



**Unit1** F-8, Sector-11, Gautam Buddha Nagar, Noida, Uttar Pradesh, Pincode-201301

**Unit2** Kh. 620 Chhapraula Duriyayi Industrial Estate, Dadri, Gautam Buddha Nagar, Pincode-203207



info@kalyanmachines.com, kalyanmachines2011@gmail.com



www.kalyanmachines.com, www.kalyanmachines.co.in



+91-7891078928, +91-9911229888



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