



# **Complete End-to-End Solution Providers** **(Post peeling for the Cashew Industry)**

**Jeevan Saldanha, Chief Executive**  
**Spectrum Industries**  
**7 July 2023**



**SPECTRUM INDUSTRIES**



**SPECTRUM INDUSTRIES**

# PIONEERS IN AUTOMATION

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FOR THE CASHEW KERNEL &  
ALLIED INDUSTRIES

# About Us

Spectrum Industries is an Internationally recognized manufacturer of Cleaning, Grading & Colour Sorting Machinery for the Food Processing Industry with complete commitment towards providing the best of service, value and quality to our customers.



## Founded in 1993

With humble beginnings began a journey of great achievements



## Manufacturing Color Sorters

Targeting the Food Processing Industries

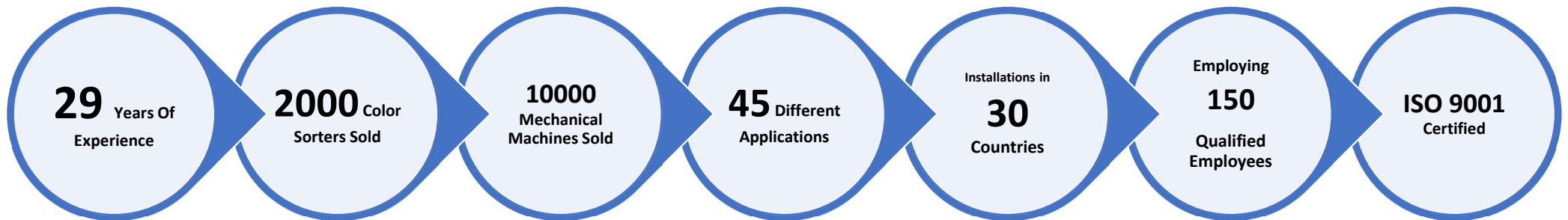


## Headquartered in Mangalore

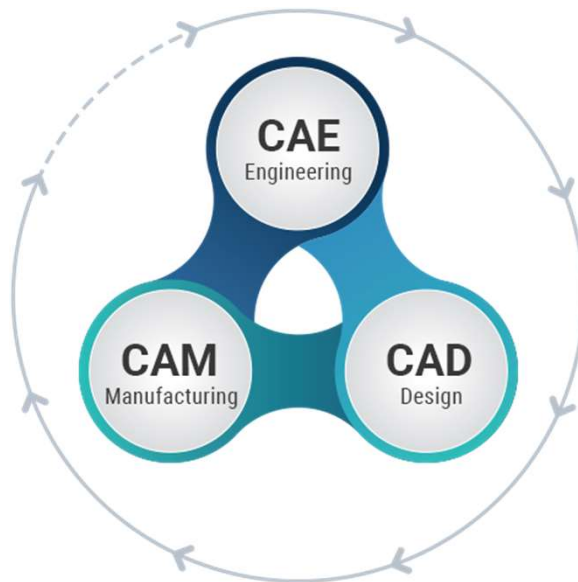
Strategically Important City with a Sea Port and International Airport & Home to the Cashew Industry in India



# Highlights



# Recognition as a Design House



01

## Recognition as a Design House

We are now recognized as a machine design house across industries

02

## Setup R&D Unit

Enabling IP creation and Patenting

03

## Recruits B. Tech, M. Tech Grads

Improving the quality of talent

04

## Staff Training Centre Setup

To enable a continuous upgradation of knowledge for our staff

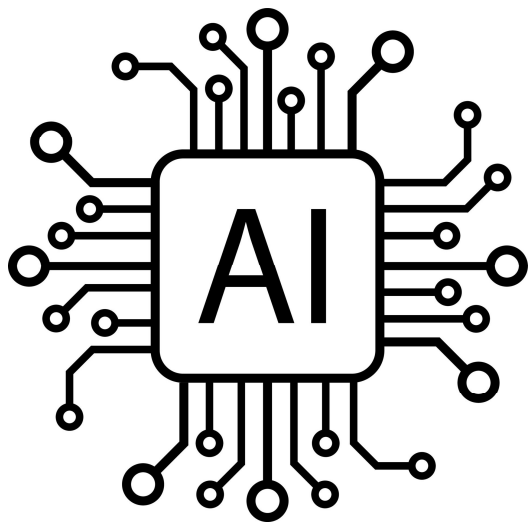


# Machines

## For Cashew Industry

**Delivering Competitive Advantage**

Through Artificial intelligence & Machine Learning Technologies



2<sup>nd</sup> **CASHEW INDIA**  
Buyer Seller Meet  
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Convention Hotel Delhi

# Camera Sorter For Cashews

We are the pioneers in the manufacture of color sorters in India for the food processing industries.

- ✓ High Resolution 16200 Pixel CCD Cameras
- ✓ LED Solid-state High intensity Long-life Stable Lighting
- ✓ Online Viewing of Product Sorting
- ✓ Ultrafast Pneumatic Ejectors
- ✓ Automatic Cleaning of Viewing Area By Wiper System
- ✓ Automatic Online Calibration
- ✓ Fully Computer Controlled

**350**

Kgs/ Hr or  
Multiples

**ULTRA  
FAST**

German  
Ejectors



**24**

Hrs Operation

**RGB**

16200 Pixels  
Full color CCD  
Camera

# Channel Sorting Outcomes

Inputs



Accepts



Rejects



# Belt Type Color Sorter

Ideal for sorting brittle products such as cashew nuts, almonds, raw & blanched peanuts etc... As well as non-free flowing material such as raisins, fresh & dehydrated vegetables such as onions, garlic, carrot cubes etc...

- ✓ Suitable for Brittle Materials
- ✓ 24 Hrs Operation Capacity
- ✓ 95% Accuracy
- ✓ 5000 Kgs Throughput
- ✓ Fully Computer Controlled
- ✓ Ultrafast pneumatic ejectors
- ✓ Plug-N-Play System
- ✓ Available in capacities from 0.5 to 5 tons per hour



24

Hrs Operation



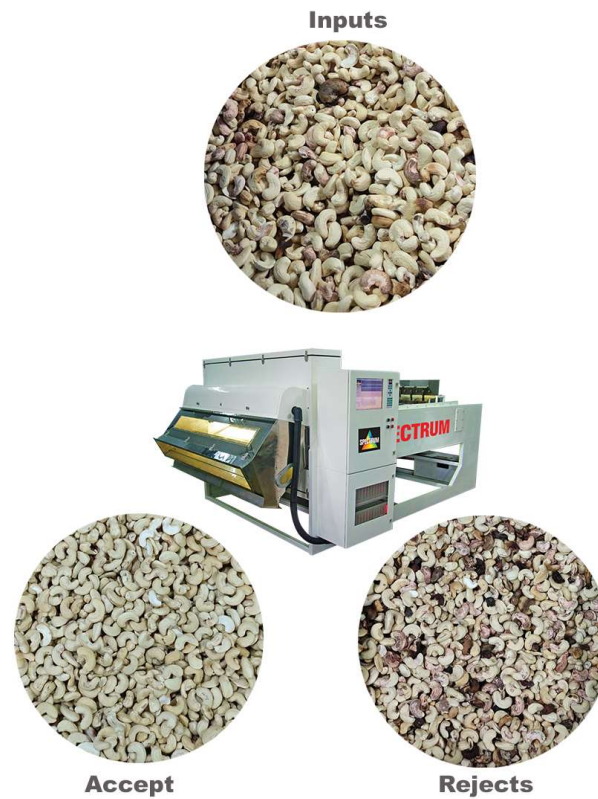
ULTRA  
FAST

German  
Pneumatic  
Ejectors

Upto  
5000

Kgs/Hr  
Throughput

# Belt Sorting Outcomes



# HAWK EYE-200

The leading Cashew Grader Machine That Grades  
**9 Grades in 1 Pass**

- ✓ Gades 9-Grades-In-One Pass
- ✓ 24 Hrs Operation Capacity
- ✓ >95% Accuracy
- ✓ 200 Kgs/Hr Throughput
- ✓ Fully Computer Controlled
- ✓ Controllable Grades 180/210, 240, 280, 320,400
- ✓ Plug-N-Play System



Greater Than

**95%**

Accuracy

**9**

Grades in 1 Pass

**24**

Hrs Operation



**ULTRA  
FAST**

German  
Pneumatic  
Ejectors

**Upto  
200**

Kgs/Hr  
Throughput





HAWK EYE 200



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INDIA**  
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HAWK EYE 200





Installation in Africa



Installation in Africa



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Installation in Africa



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Installation in Africa





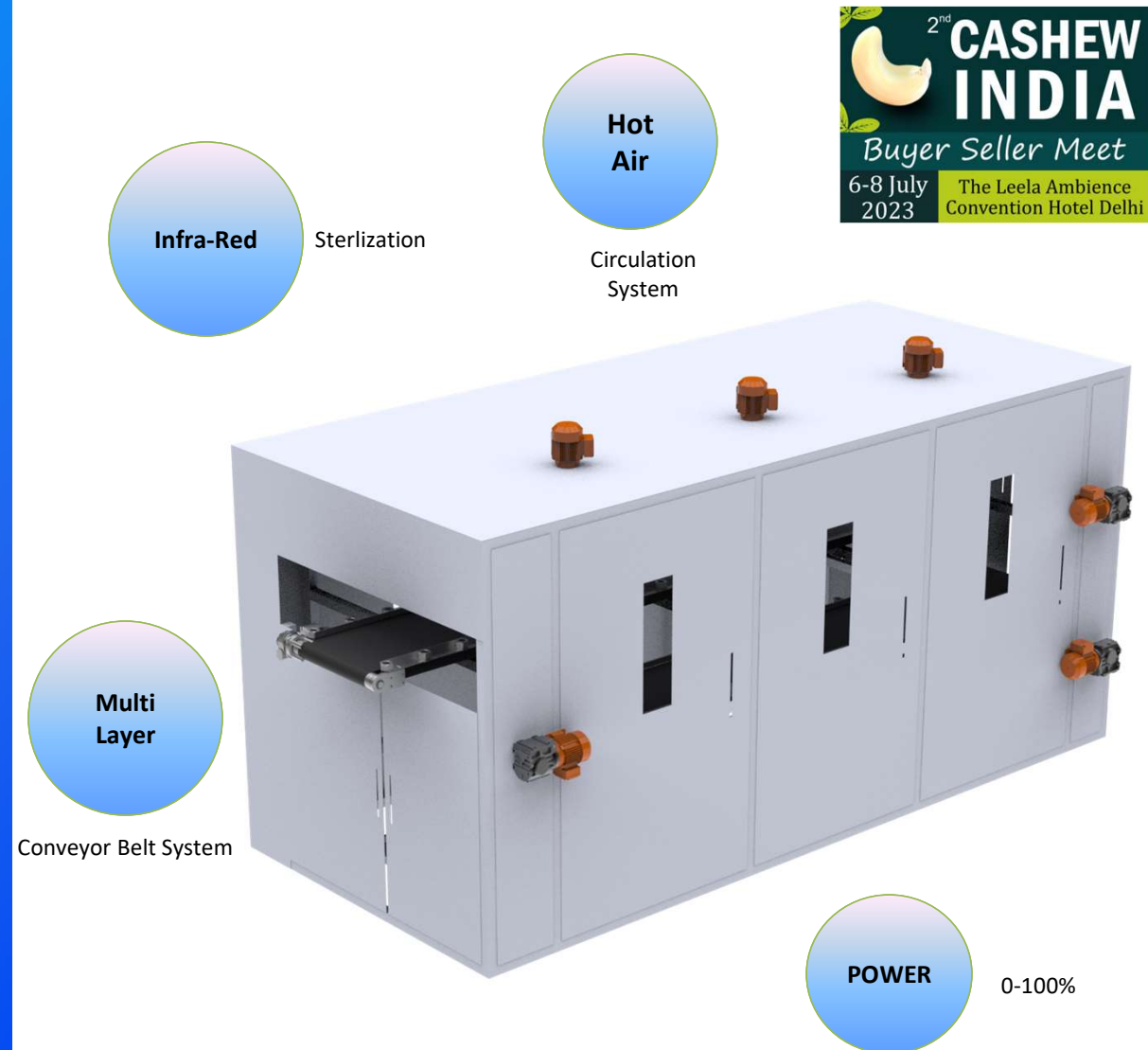
Installation in Africa



# Infra Red Dryer

These Infrared (IR) dryers use infrared radiations, which are invisible electromagnetic radiation in the short wave and medium wave range which when incident upon a product may be absorbed and converted into heat.

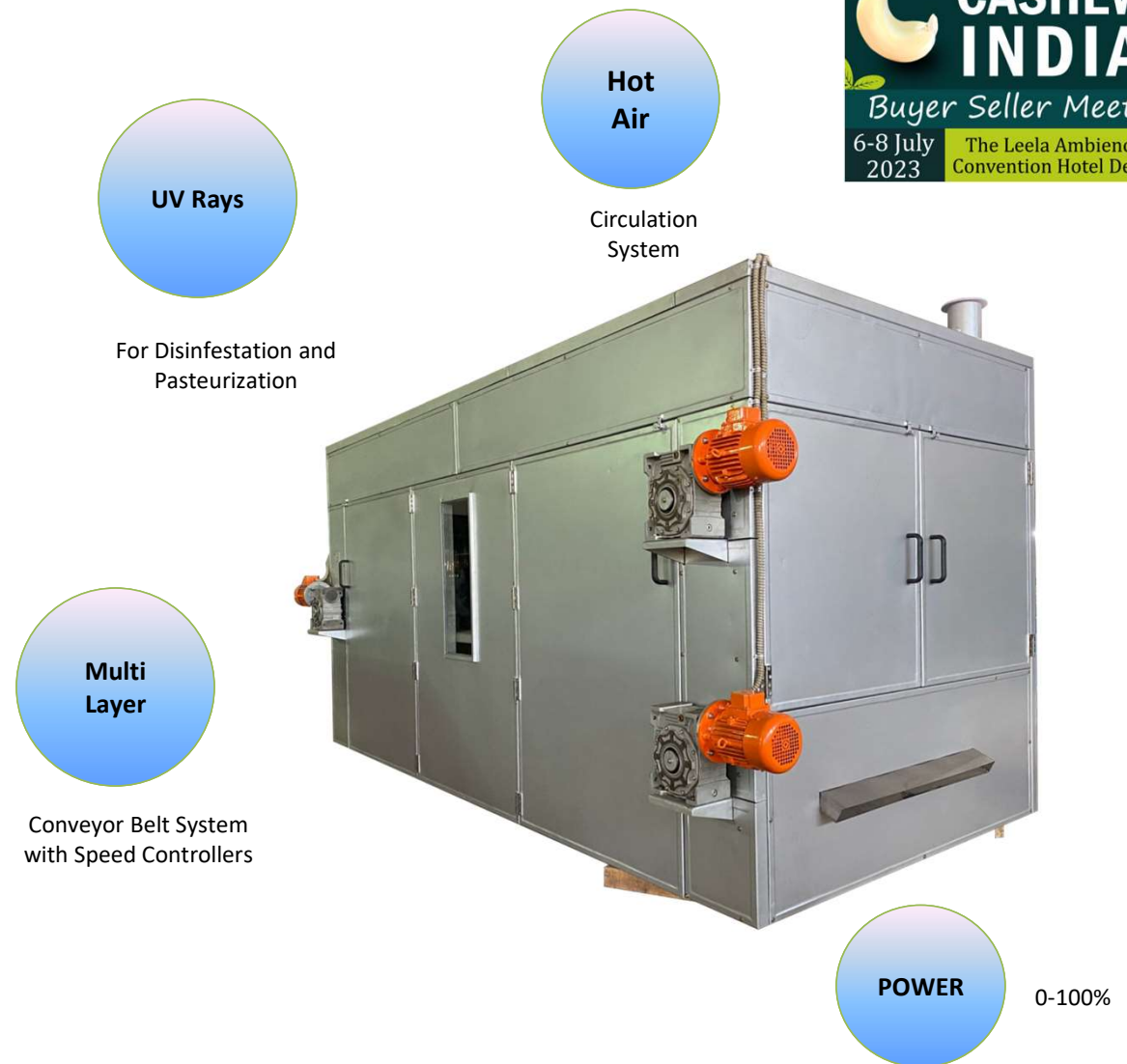
- ✓ Destroy Infestation & Bacteria Through IR
- ✓ Dehydrate Cashew Nuts & Other Products
- ✓ Heat the product without damage to color or quality
- ✓ Can be used for Sterilization in Packaging Industries
- ✓ Multi Layer Belt Conveyors
- ✓ Combine Advantages of Both IR & Hot Air Circulation
- ✓ 0-100% Heat Adjustments
- ✓ Compact Size



# UV Dryer

These Multi-layer Belt Conveyor based units use Ultraviolet light for Disinfestation and pasteurisation, in order to destroy Aerobic and Anaerobic bacteria, virus and fungus in Cashew nuts and other food products without damage to the color and quality of products.

- ✓ Destroy Aerobic and Anaerobic bacteria, virus
- ✓ Dehydrate Cashew Nuts & Other Products
- ✓ Heat the product without damage to color or quality
- ✓ Both UV Treatment and High volume Forced air
- ✓ Both UV Treatment and High volume Forced air
- ✓ Multi-layer Belt Conveyors with speed controllers
- ✓ UV resistant food grade belts for tumbling of nuts
- ✓ Modular cassette systems for UV Emitters
- ✓ Compact Size



# Vacuum Packing System.



# Machines Manufactured

## Machines for Cleaning, Grading, Sorting for Food Processing Industry

*We manufacture a range of machines for the  
entire food processing workflow*

Our machines are installed in a wide variety  
of industries like the following

- Cashew Processing
- Coffee Processing
- Seeds
- Grains
- Granules
- Pulses



# Awards And Achievements



2017

## Manufacturing Excellence Award

Sri Vishveshwaraya Manufacturing  
Excellence Award



2018

## Business Excellence Award

FKCCI Business Excellence Awards 2018



2006

## Business Award

KCCI Business Award



# Complete Turnkey Solutions

(post peeling)

- We provide end-to-end complete solutions
- Starting from the Grading to the Vacuum Packing
- Can take care of complete plant design & post sales maintenance
- The Only company to provide such a complete solution for cashew industry
- Bringing one-point accountability to the plant owner

## Advantages

Nothing kills the timeline of your project like having to communicate with multiple companies — and trying to get multiple companies to communicate with each other. ...

- One Company Sending Invoices
- Design & Delivery in Sync
- Costs Are Cut
- Greater Quality
- Increased Efficiency
- Eliminate redundancies



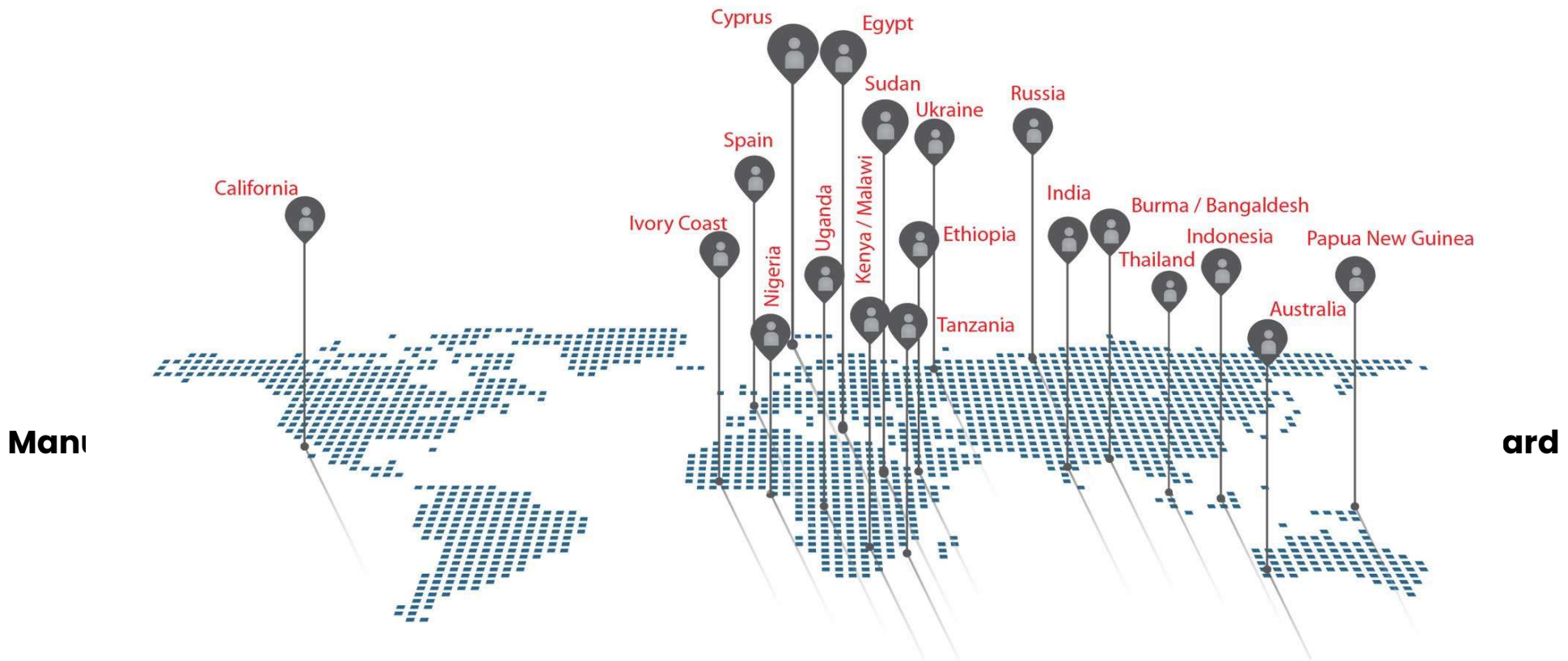
# MAJOR CUSTOMERS



Manufact

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# GLOBAL INSTALLATIONS



# CONTACT US



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**Manufacturing Excellence Award**

# Question & Answers







**SPECTRUM INDUSTRIES**  
*Success through innovation*

**2<sup>nd</sup> CASHEW INDIA**  
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# Thank You