

[www.tiatechnology.in](http://www.tiatechnology.in)

***tiA***  
TECHNOLOGY

think innovate & Apply

***systems***  
▼  
***for***

WEIGHING

FILLING

PACKAGING

POWDER HANDLING

AUTOMATION



think innovate & Apply



*“TIA considers products as its pride and committed personnel as its asset.”*

## company profile

TIA Technology is an established player providing customized solutions in Weighing and Industrial Automation. Set up in 2002 by a young and dynamic team with a firm commitment to its vision, the company has worked on multifarious projects with reputed companies in the process Industries.

With a clear focus on providing solutions in Weighing, Filling, Packaging, Batching & Process Automation, we have grown and have developed a reputation for quality, cost effectiveness and on time deliveries. TIA Technology complies with various National and International Standards apart from possessing capability to develop customised solutions to meet specific requirements of our clients.

We are a conscientious company and adhere to legal and statutory requirements in terms of safety and environment.

Our dedicated team of well-qualified, competent and trained professionals go the extra mile in every department including Marketing, Design, Production, Installation and after sales service making it a delightful experience for our clients.

With our exposure and experience in dealing with International clients, we have been able to rapidly expand our operations both In India and overseas.

We offer our clients,

- Customized Systems & Solutions
- Assured Accuracy
- HSE compliance
- Updation to Latest Technologies
- Excellent Post Sales Service
- Training

## vision

To grow TIA Technology as a dominant player globally in the field of weighing & industrial automation.

## mission

TIA Technology while playing a major role in the field of Weighing and Industrial Automation, be a part of the “Make in India” movement, involve in skill development, provide employment and generate revenue for the Nation through our committed workforce.

# our esteemed partners



## Food

- Unilever
- Griffith Foods Pvt. Ltd.
- Tata Coffee
- Schreiber Dynamix Dairies
- Gujarat Ambuja Exports Ltd.
- Everton Tea
- Nitta Gelatin
- Roquette Riddhi Siddhi

## Chemicals

- Gujarat Alkalies and Chemicals Ltd.
- Fosroc Chemicals
- Novozymes South Asia Pvt. Ltd.
- Tata Refractories
- Saint Gobain
- Exide Industries Ltd.

## Minerals

- Sibelco India Minerals Pvt Ltd
- Calderys India Refractories Ltd.
- Laviosa
- Ashapura Group of Industries
- Trimex Sands

## Fertilisers

- Coramandel International Ltd.
- Nagarjuna Fertilizers and Chemicals Ltd.
- Godavari Fertilizers and Chemicals Ltd.



- USA
- United Kingdom
- Australia
- South Africa
- Thailand
- Saudi Arabia
- Bangladesh
- Indonesia
- Turkey
- Egypt
- Oman
- Qatar
- UAE
- Nigeria
- Ivory Coast
- Samoa Island



- UHDE India Ltd.
- L&T Ltd.
- NETZSCH Technologies India Private Ltd.
- Andritz Technologies Pvt. Ltd.

# product overview

- filling**
  - Gravimetric Feeder
  - Twin Screw Feeder
  - Big Bag Filling Machines
  - Valve Bag Fillers

## automatic bagging machines

## batching systems

## feeders

## dischargers

## control systems



# gravimetric feeder

HIGH SPEED & ACCURATE

For Free Flowing Granular Products including Rice, Sugar, Pulses, Wheat, Fertilizer, Plastic Granules and Chemicals



Weighing Range	5-50Kgs
Speed	300-1800 Bags/Hour
Accuracy	+/-0.05-0.1% of the pack size

### Features

- Precise dosing controls by Pneumatic Actuators/Servo Motor
- Balanced Configuration with 3 Load Cells
- Automatic Weighing Sequence with Auto In-Flight
- Ease of Change over to different pack sizes
- Pneumatic bag clamping
- Ease of operation and maintenance
- Product contact parts in Carbon Steel, SS-304/ 316/ 316L

### Control System

- State of the art controller with LCD/ Touch Screen display & self diagnostic features
- Records – Bag Count, Totalizer, Hours of Operation
- Easy to configure & trouble shoot
- Communication – RS232/485, Ethernet, SMS messaging of reports
- International Standards Certification



**SMS messaging of reports- Bag Count, Totalizer, Hours of Operation**



Feeder



Weigh Hopper



Bag Clamp



# twin screw feeder

Twin Screw Feeding for Powdered Products including Flour, Minerals Chemicals, Milk Powder, Starch and Spices



### Features

- Twin screw feeder for main & dribble feed to achieve speed & accuracy in filling
- Consolidation mechanism for fluffy products
- Designed for ease of cleaning
- Dust tight clamping mechanism
- Balanced configuration with 3 Load Cells
- Stainless Steel load cells with IP68 protection
- Product contact parts in Carbon Steel, Stainless Steel-304, 316, 316L
- Belt & Vibratory feeders offered based on product characteristics

### Control System

- State of the art controller with LCD/ Touch Screen display & self diagnostic features
- Records – Bag Count, Totalizer, Hours of Operation
- Easy to configure & trouble shoot
- Communication – RS232/485, Ethernet, SMS messaging of reports
- International Standards Certification
- CE Certified controllers



**SMS messaging of reports- Bag Count, Totalizer, Hours of Operation**

Weighing Range	5-50Kgs
Speed	120-500 Bags/Hour
Accuracy	+/-0.05-0.1% of the pack size



Bag Clamping Mechanism





# automatic bagging machines



### Small to Medium Size Bags

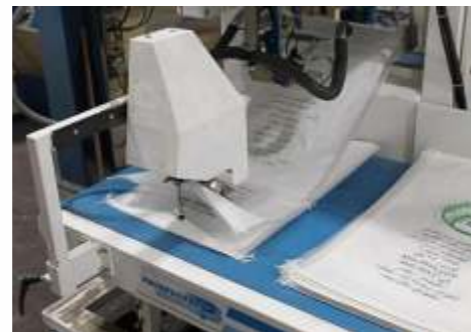
Automatically places small to medium open mouth bags onto a sack clamp fitted to an existing or new weighing / volumetric filler.

#### Specifications

Bag Type	Open Mouth
Bag Weight	10 to 50 Kg
Empty Bag Magazine	50 to 200 Bags
Throughput	Up to 12bpm
Bag material	Paper, Plastic, Laminated Woven, Polypropylene

#### Options

- Single Pile Bag Tray (C20)
- Multi-Pile Bag Magazine (C21)
- Bag Tail Separator (C22)
- Full Stainless Steel
- Left or Right Handed
- Mobile Base Frame



Manufactured by TIA under the license from Pacepacker Services Ltd, UK



# valve bag fillers

Twin Screw Feeding for Powdered Products including Flour, Minerals Chemicals, Milk Powder, Starch and Spices



Auger - For Powdered Products    Twin spout for powdered products

Weighing Range	20-50Kgs
Speed	120-300 Bags/Hour
Accuracy	+/-0.2% of the pack size

# direct bag filler powder

For Powdered Products such as Flour, Minerals, Chemicals, Milk Powder, Starch and Spices.



#### Features

- Twin Screw feed to achieve speed & accuracy in filling
- Agitator to ease the flow of the product
- Balanced configuration with 3 load cells
- Pneumatic Bag Clamping
- Ease of change over to different pack size
- Product contact parts in Carbon Steel and in Stainless Steel 316, 316L

#### Specifications

Weighing Range	10-50Kgs
Speed	120-240 Bags/Hour (Powders)
Accuracy	+/- 0.05 - 0.1% of the pack size

Accessories: Conveyor and Bag Closer / Stitching Machine available.

# air packer

Fast Bagger for powders & granules



#### Features

- For the fastest dry solid packer, the PVPE Air Packer gives you reliable & fast bagging.
- The PVPE Air Packer works by using air fluidisation and different pressures between the product chamber and the bag where the product is to be filled.
- Differences in the air pressure results in the product flowing quickly into valve bags.
- Designed To Bag Free Flowing, Non Clumping Powders and Granules.

# granule

For free flowing granular products including rice, sugar, pulses, wheat, fertiliser, plastic granules and chemicals





# stretch wrapping machine

## Features

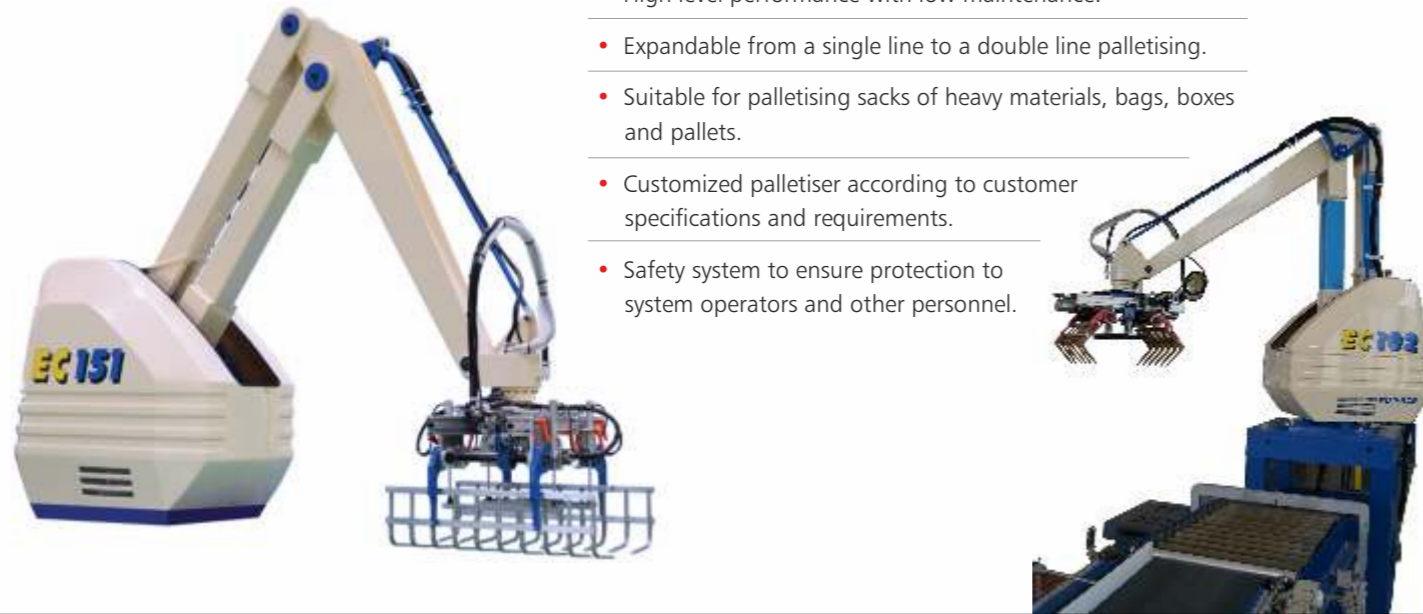
- Eliminates the need for labour and inefficient manual hand wrapping.
- Variable speeds for turntable
- Adjustable wrap count
- Variable speed carriage to apply more or less stretch film
- Easy to use control panel.
- Rugged construction for long-term reliability
- Home position alignment stops the turntable in the same position for each cycle.



# robotic palletiser

## Features

- Reliable system for production lines.
- High level performance with low maintenance.
- Expandable from a single line to a double line palletising.
- Suitable for palletising sacks of heavy materials, bags, boxes and pallets.
- Customized palletiser according to customer specifications and requirements.
- Safety system to ensure protection to system operators and other personnel.



# big bag filling machines

Big Bag Filling Machines for Powdered Products including Flour, Minerals, Clay, Sillimanite Powder, Iron Oxide Powder



## Features

- Pneumatic Bag Hanging Arm
- Integrated Dust Extraction Unit
- Inflation & Diverter Mechanism
- Weighing Frame with 3/ 4 Load Cell configuration
- Vibro Motors for Consolidation
- Consolidation & Auto Eject Mechanism
- Product contact parts in Carbon Steel, Stainless Steel-304, 316, 316L

Weighing Range	300-2000Kgs
Speed	5-30 Bags/Hour
Accuracy	+/-0.05-0.1% of the pack size



Pneumatic Bag Hanging Arm



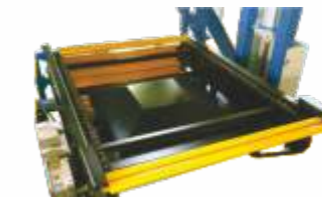
Inflation & Diverter Mechanism



Weighing Frame



Vibro Motors for Consolidation



Consolidation & Eject Mechanism



Out Feed Conveyor

# batching ▼ system



## Highlights of Batching

- Multi product ingredient handling
- Raw material handling through Aero – Mechanical, Pneumatic or Belt Conveyors.
- Mixers - Plough Shear & Blender.
- Report creation for monitoring raw material consumption and batch quantity.
- Batching of Solids / Solids & Liquids / Liquids only.
- Recipe and formulation creation through SCADA.
- All contact parts in SS 304/316/316L depending on the product.
- Dust free operation in the case of solids.
- Raw material handling systems can be combined with Jumbo - Bag Discharge Systems/Bag Rip & Tip Systems.
- Bar code based product monitoring system.



# batching ▼ system components

## Mixer



Ploughshare mixer, to mix / blend different powdered, granule, fibre and paste products with possible addition of liquids, optimising the blend mix obtained, ensuring process control and consistency of the result. In addition the holding tank maintains the homogeneity / fluidity of the mix avoiding demixing;

## Floveyor



Floveyor is designed to convey a wide variety of bulk materials through aero mechanical displacement. Generally described as a tubular conveyor in which all the elements operate within the material being conveyed. Floveyor and its totally enclosed design renders it ideal for handling powders and light materials.

Small Multi Ingredient batching system with loss in weight feeder to dose ingredients in desired quantities.

## ▼ feeders

**Loss in Weight Feeders** – Capacity starting from 0.5 Kg/Hr



**Weigh Feeders** – Capacity from 0.1 – 200 TPH



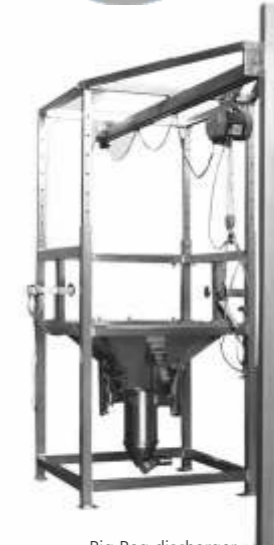
**Online / Batch Weigher** –  
Capacity from 0.1 to 200 TPH



## ▼ dischargers



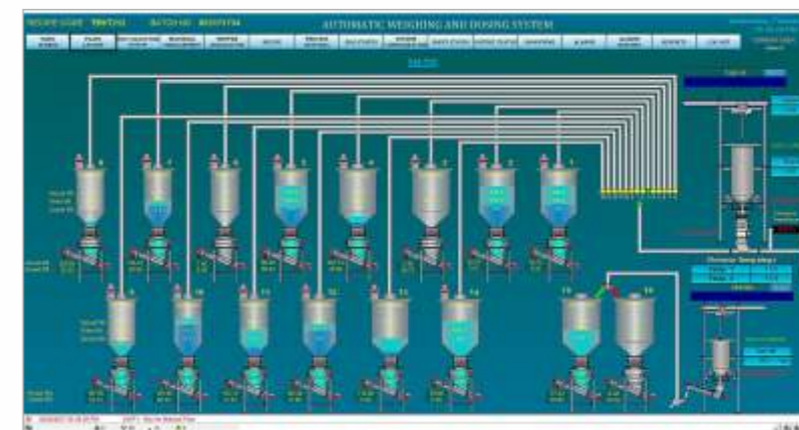
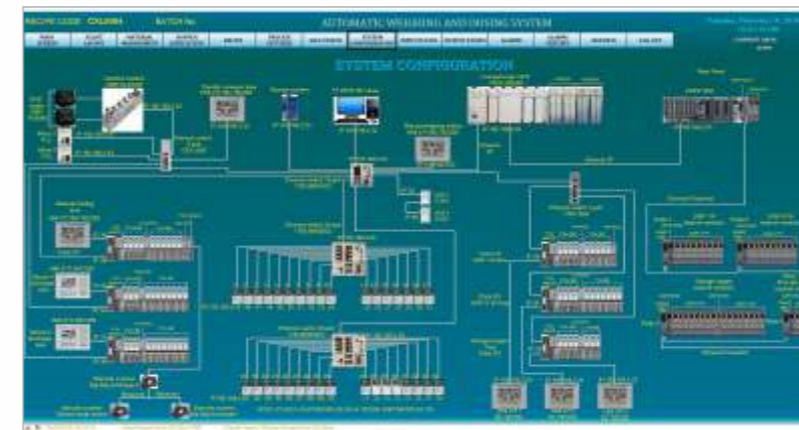
Small Bag dump station



Big Bag discharger

## ▼ control systems

**PLC Control and SCADA systems**



- PLC based control systems
- PLCs from Allen Bradley, Siemens, B&R Automation, Omron
- Panel building



## Registered Office & Manufacturing Unit

### **TIA TECHNOLOGY INDIA PVT. LTD.**

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Dobaspet P.O, Bangalore Rural-562111.