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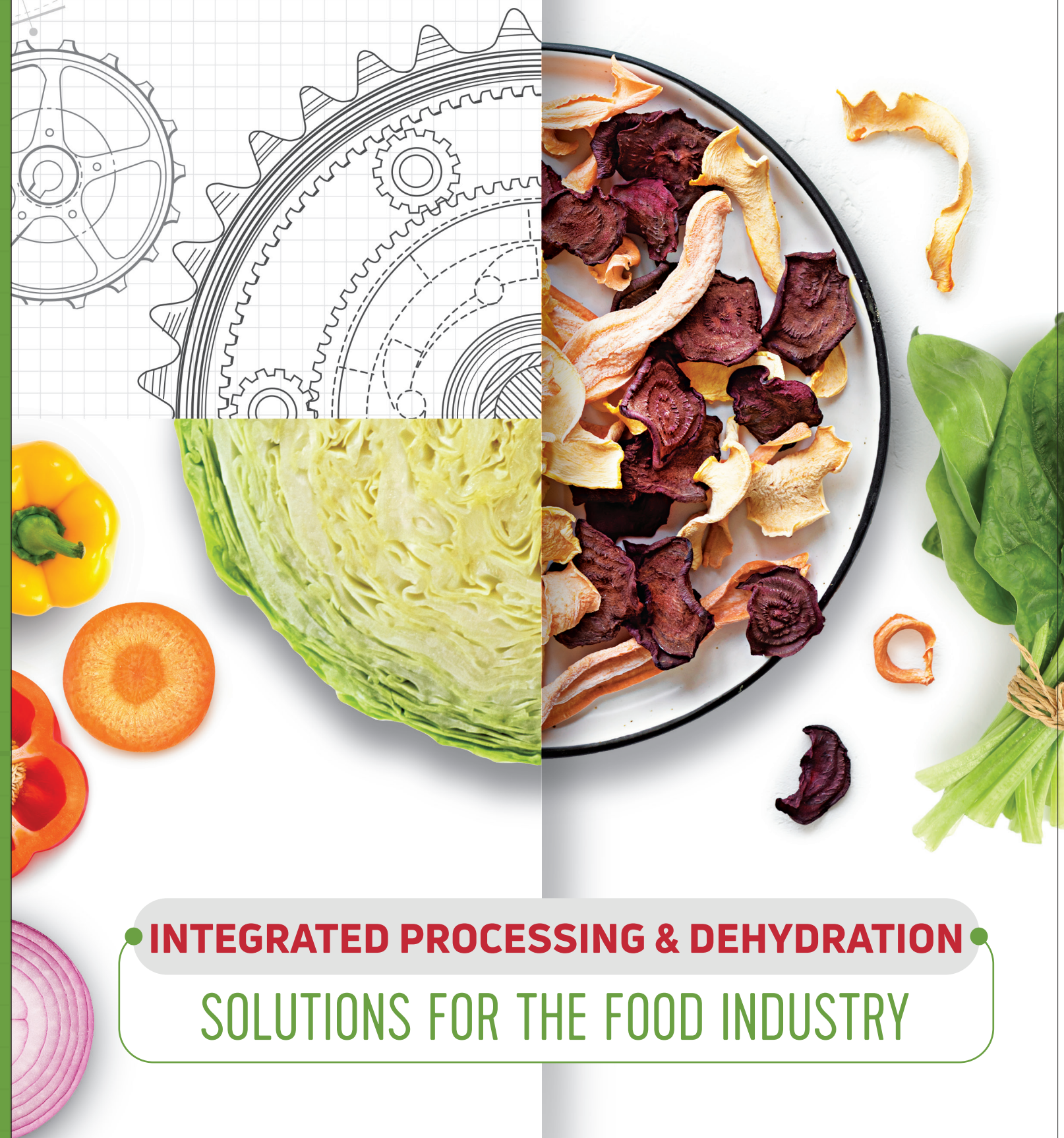
Factory and R&D
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www.globaldryers.in



INTEGRATED PROCESSING & DEHYDRATION
SOLUTIONS FOR THE FOOD INDUSTRY



About us

What started as an entrepreneurial venture five decades ago, is today one of the most successful food and beverage end-to-end processing and drying solutions providers worldwide. T&I Global Limited (TIGL) is a one-stop-shop for all low-cost, energy-efficient and innovative processing and drying equipment provider for agriculture & horticulture produce. TIGL takes a holistic view of its client's manufacturing requirements to provide tailor-made and client-specific solutions for an integrated post-harvest processing and drying solutions.

At par with international standards, the technology-driven product innovation, customisation and service has helped the organization earn a reputation from many quarters of the industries that it caters to.

With a highly efficient team and modern infrastructure, TIGL is associated with several prestigious projects across various parts of India and the world.

The domestic offices for sales and service are located in Kolkata (West Bengal) and Coimbatore (Tamil Nadu) while overseas operations have their bases at Colombo (Sri Lanka), Medan (Indonesia), and Nairobi (Kenya).

Turnkey Solutions >>



Project Development



Feasibility Study



Plant Design & Engineering



Project Management



Procurement



Manufacturing & Testing



Installation & Commissioning



Training, Operation & Maintenance



Plant Review



Consultancy

Complete Preparatory and Dehydration Lines for Vegetables, Leafy Vegetables & Fruits

TIGL has developed cost-effective, energy-efficient, sturdy and quality equipment and process lines for preparation and dehydration of a variety of vegetables and fruits. These solutions are available in a wide range of capacities suitable to plants of small, medium and large sizes.

Vegetable Dehydration

Carrots, Cabbage, Green Beans, Capsicum, Peppers, Potato, Onion, Garlic, Ginger, Turmeric, Moringa, Mushroom, etc



Leafy Vegetable Dehydration

Spinach, Coriander, Kale, Cabbage, Lettuce, Arugula, etc



Fruits Dehydration

Pineapple, Jamun, Kiwi, Mango, Apple, Apricot, etc



Preparatory equipment for fruits & vegetables

Available in pilot, small, medium, large and, customized capacities



Reception Conveyor

- Preliminary washing of vegetables and leafy vegetables
- Fresh water spraying arrangement
- Polypropylene stackable belt (modular)
- SS304 self-supporting structure
- Inbuilt side tables with waste disposal chutes

Wash & Drain Conveyor

- Wash and Dewater in a single conveyor
- Fresh water spraying arrangement
- Food grade mesh belt
- Upturning arrangement to remove surface moisture
- SS304 self supporting structure



Inspection Conveyor

- Visual inspection and sorting of vegetables and leafy vegetables
- SS304 self supporting build and structure
- Food-grade conveyor belt
- Inbuilt side tables with waste disposal chutes
- Overhanging Inspection lights (Optional)

Peeler

- Suitable for skin peeling
- SS304 self supporting build and structure
- Abrasive Rollers / Nylon brushes for effective peeling
- Water spray header



Rod Washer

- For washing of root vegetables such as ginger, turmeric, carrots, potatoes etc.
- Rotary type with slow speed rotating drum
- Tumbling arrangement
- Washing with pressurized water
- Screw/Paddle arrangement for forward material movement
- Waste water draining arrangement



Preparatory equipment for fruits & vegetables

Available in pilot, small, medium, large and, customized capacities



Flood / Flume Type Washer

- Thorough washing of vegetables & leafy vegetables
- Consists of 4 sections:
 - Soaking
 - Agitated washing
 - Fresh water spraying
 - Water draining
- SS304 self supporting build and structure
- Imported Polypropylene Modular Belt (Cleared)
- High speed air blower to create agitation
- Complete with bottom drain connection, water level adjusting arrangement with overflow connection, fresh water spraying and water recirculation arrangement

Blancher / Pretreatment

- Option of Steam, Water and Steam cum Water Blanching
- Precondition the vegetables for drying
- Reduce microbial load by exposing to product to approximately 90-95C
- SS304 self supporting build and structure
- SS304 conveyor trays with VFD arrangement to vary retention (blanching) time
- Automatic temperature sensors with control
- Closed Stainless Steel coil for heating media
- Hot water recirculation arrangement



De-watering Table

- Perforated vibratory table for removing surface moisture from vegetables and leafy vegetables
- Perforated tray with water drainage system
- Heavy duty spring support system and vibratory motors

Air-knife type dewatering

- Conveyorised air knife system
- Air from blower flows through the air knife on to the product on conveyor
- Uses high performance blowers
- Effectively removes surface moisture from product



Dryers

Conveyor Dryer

- Multi-pass and multi-stage drying system for low temperature, gradual moisture removal
- Retains color flavor and neutrician values if required
- No case hardening
- High Precision Stainless Steel Mesh or Imported food grade mesh belt
- Available in full Stainless Steel Construction
- Option to recycle air for energy savings
- Available in a customized capacity starting at 10 kg/hr upto 2,000 kg/hr. Output
- Suitable for operating with electric heating/steam/thermic fluid etc



Dryers

Apron Type Band Dryer

- Salient Features
 - **Uniformity:** Multiple airflow direction changes enable the optimized drying required to achieve complete product uniformity and quality
 - **Control:** A highly efficient air circulation system is designed to recirculate air through the product on the dryer controlled amount of moist air is extracted to remove evaporative water at the optimum rate
 - **Cost-effective:** Our design incorporates an efficient working system which uses less power, complete with variable speed drives and controlled from PLC
 - **Minimal Heat Loss:** Thorough insulation is built in throughout the drying chamber to minimize heat loss and maximize thermal efficiency
 - **Multiple Drying Zones:** Independent multi-zone temperature controls to enable an optimized drying profile for each product. This prevents overheating and case hardening of the product and therefore helps to maintain quality.
 - **Material Transfer:** Transfer zones are customized to the product(s) being dried, designed to minimize sticking, lumping and breakage.
- Dryer Construction available in:
 - Mild Steel with Stainless Steel 304 / 316 Contact Parts
 - Complete Stainless Steel 304
 - Complete Stainless Steel 316
- Available in capacities ranging between 500 and 2000 kg/hr. iutput



Vibratory Fluidized Bed Dryer

- Low Energy Consumption
- Quick Drying
- Multi stage temperature control
- Uniform drying
- Control over amplitude and frequency
- Available in a customized capacity starting at 10 kg/hr upto 2,000 kg/hr. Output
- Applications: Grains, Seeds, Flour, Pepper, Salt, Crystals, Pharma Products, Chemicals, Minerals and more



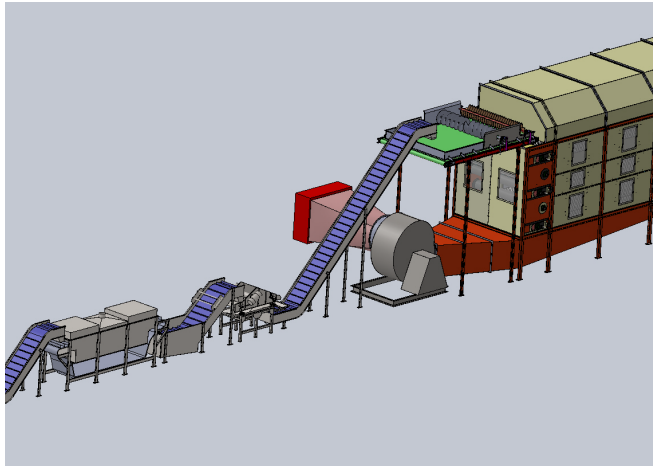
Process Lines



There are different dehydration and processing lines you can choose from us at TIGL. Each of these lines can be customized to meet your requirements and to suit your production facility. With us, you are ensured of high-end equipment that meets your requirements in terms of processing speed, capacity, and more.

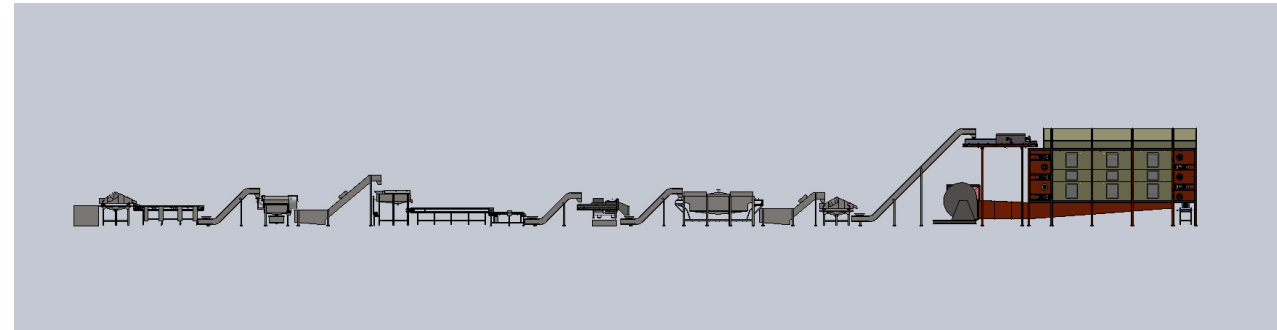
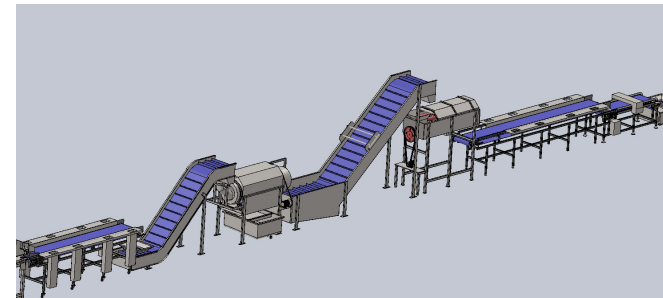
Choose from a variety of processing lines

Each of our dehydration and processing lines come in a range of capacities and sizes and are also designed for multi-commodity processing. The lines are customized as per the space available, produce which needs to be prepared and dehydrated and the intended size of the plant.

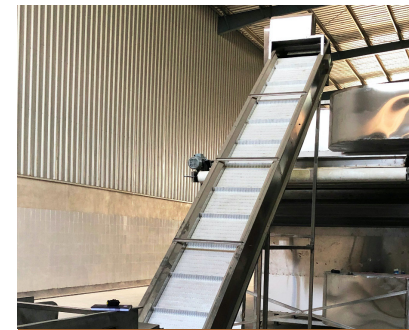


Adjust the machinery to meet your every demand

Our processing lines include hoppers, material transfer belts, washing systems, and grading machines and dryers. The line can be fully custom made to meet your every requirement. We can deliver a customized solution that is optimized for your production facility making the production line more efficient.



Conveying Systems



Elevator Conveyor



V-Belt Conveyor



Belt Conveyor



Screw Conveyor



Transfer Conveyor



Bucket Elevator

Sorting & Packing

- Color Sorters
- Bulk Packing Machines



Metal Detector



Bag Flattening Conveyor



Color Sorter



Utilities

We design our solutions completely with supply of all Utilities and Electricals on turnkey basis.

Saturated Steam Boilers

We supply, erect and commission all steam boilers supplied with accessories, flash vessels, chimney, feed water tank and related valves, fittings and piping.

Shola-V Heater

TIGL's Shola-V 5 pass tubular heater is a success worldwide for its economical and effective performance. It is a multi fuel cast-iron heater which is sized based on the client's heat requirement.

Other Utility Equipment

- Cooling Towers System
- Chill Water System
- ETP/STP/WTP
- RO System
- Soft Water System
- Zero Liquid Discharge System
- Compress Air System

Electricals & Automation

- We provide a wide range of electrical supply and services not limited to:
- Transformers
 - MCC Panels
 - PCC Panels
 - Cable Laying & Distribution System
 - Control Panels – Standard / PLC /HMI
 - Cable Trays



Boiler House Setup

The Global Footprint



A glimpse of some of the regions where we have set foot with our products and services.

Malawi
Zimbabwe
India
Philippines
Samoa Island
China

Sri Lanka
Nepal
Bangladesh
Burma
Papua New Guinea

South Africa
Tanzania
Kenya
Ethiopia
Federated States of Micronesia

Thailand
Vietnam
Singapore
Indonesia
Malaysia

Some of the esteemed clients we are associated with include

