

World's
widest range of
Post Harvest Solutions in
**Cleaning, Grading, Sorting
Treatment, Handling & Storage**





Provides world class solutions in Cleaning, Grading, Sorting & Handling of all kinds of Fruits & Vegetables Seeds, Grains, Pulses, Spices, Oil Seeds,

'84

Established in 1984; manufacturer, supplier & exporter



Specializes in Designing, Manufacturing, Installing & Commissioning of complete range of Machines/Plants on Turnkey basis



Provides excellent After Sales Service and readily available Spare Parts



Provides Automation options for individual machines/complete plants



Exports to over 92 countries



“Transforming Knowledge and Technology
into useful Products and Services
for the Post-Harvest Industry.”

SANJEEV SAGAR
MANAGING DIRECTOR

International Collaborations



DENMARK

Grain and Seed Cleaning and
Grading Machines



SWEDEN

Seed Treatment and
Coating Machines



DENMARK

Suction Blowers and Aspirators
for Seeds and Grains



USA

Spiral Separator



LIFT ROLLER SIZER

- » Used for accurate Diametric Sorting of a number of products like potato, onion, garlic, carrot, beetroot, capsicum, brinjal, lemon, amla, unripe mango and other similar products
- » Grading size can be easily adjusted with the help of ergonomically designed handles fitted on the machine at each outlet
- » Contact parts are made of food grade material & structure of mild steel
- » Grading according to minimum diameter of the products

Capacities Offered: 5 TPH, 10 TPH, 15 TPH
Number of Grades: upto 5



ELEVATOR WITH HOPPER

- » Product is dumped manually onto the hopper
- » The belt elevates the product to the required height
- » Belt is made of food grade/PVC material with cleats
- » Height adjustment available

Capacities Offered: 1 TPH to 10 TPH



MANUAL INSPECTION TABLE

- » Used for sorting of various vegetable/fruits
- » PVC/Aluminium /SSS (304 Grade) Rollers are used for inspection
- » Rollers rotate on own axis so the product can be inspected
- » Rejection chute provided to eliminate spoilt product
- » Platform & Stains available on both sides for careful operation

Capacities Offered Upto 10 TPH



SCREEN SIZER

- » Used for grading of potato, onion & garlic
- » Sizer is fitted with vibrating rubber screens having perforations on its surface
- » Perforations on the rubber screens may differ according to the product
- » Shakers assembly is fitted to the vibrating screen
- » Greater grading efficiency
- » Required number of modules can be attached together to form a complete line
- » Machine is fabricated in modular type; each module grades the product as oversize or undersize
- » Contact parts are fabricated from food grade material & structure made up of mild steel

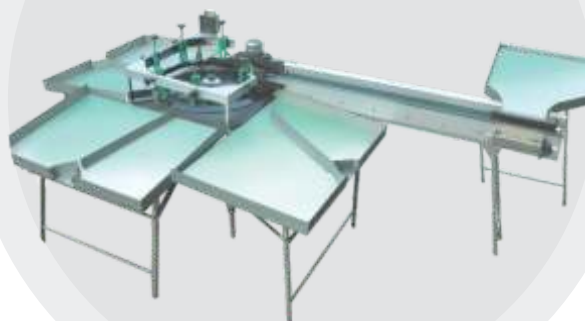
Capacities Offered: 5 TPH to 20 TPH
Number of Grades: As Per Requirement



MOBILE GRADING PLANT

- » Used for sorting-grading of various vegetables (potato, onion, garlic)
- » Consists of
 1. Elevator with hopper
 2. Roller Inspection table
 3. Screen sizer
- » Power Genset can also be mounted on the trolley
- » Easy travelling from one location to another

Capacities Offered Upto 10 TPH



RF-16 (ROUND FRUIT GRADER)

- » The grading machine consists of a rotating rubber coated disk and a series of measuring bars
- » The fruit is graded according to its diameter while rotating on the rubber disk and passing through the measuring bars
- » Rubber padded collection tables are provided on the periphery of the rotating disk for collection of the graded fruits
- » Six different sizes and one over size can be achieved from the machine

Capacities Offered: 1 TPH

Number of Grades: (5+1) Grade



DRY BRUSHER

- » Used for removing the soil or dust particles from the surface of the product
- » It is fitted with soft nylon bristle rollers
- » A hopper is fitted under the bed of bristle rollers to collect the loose soil or dirt

Capacities Offered Upto 10 TPH



LENGTH GRADER

- » Used for grading products on the basis of their length
- » Used to grade products like carrot, raddish, cucumber, ladies finger & similar products
- » A corrugated bed (S.S. 304) is fitted in the machine
- » Bed is vibrated with the help of two vibro-motors fitted on top of the machine
- » Bed is divided into three parts and there are gaps between the parts
- » The gap grades products according to their length & grading size can be varied easily

Capacities Offered Upto 2 TPH
(depending on product)

Number of Grades: 2+1



POLISHER

- » Used for extensive washing of carrots, ginger beet roots, potatoes and other similar root vegetables
- » It is a "C" shaped metal trough, with a series of nylon brushes fitted on the periphery
- » Rotating brushes and the application of water spray on the brushes help in washing and polishing
- » The machine is fitted with proper water circulation system
- » Brushes are made of nylon & structure is made of GI

Capacities Offered: 1 TPH to 5 TPH



HOT WATER BATH

- » Used for hot water treatment of Mangoes
- » Mango is dipped in hot water at 52° - 60°C for 3 minutes
- » This stops microbial development and growth, hence increasing its shelf life
- » Inductive Sensor provided for uniform temperature
- » Water Level Sensor provided for maintaining uniform level of water

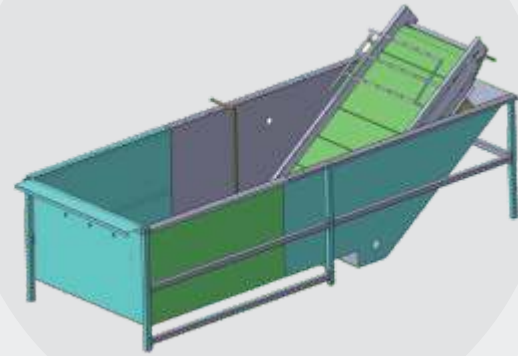
Capacities Offered: 1 TPH, 2 TPH



CUP GRADER

- » Used for grading according to weight
- » The value of weight can be set through loadcell for each outlet
- » According to different weights
- » Can achieves 3-8 different grade on the basis of weight

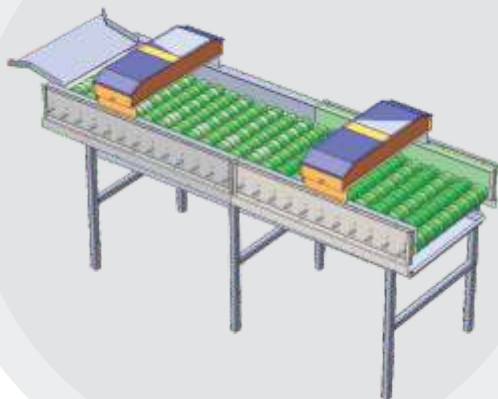
Capacities Offered: 1 TPH, 2 TPH



DUMPING TANK

- » Used for softening of soil of all kind of root vegetable like Ginger, Carrot, Sweet Potato etc
- » If any kind of fruit requires washing then dumping tank provides idle conditions
- » Series of spray jets provided
- » Re-circulation of water available
- » Over flow and discharge valve provided

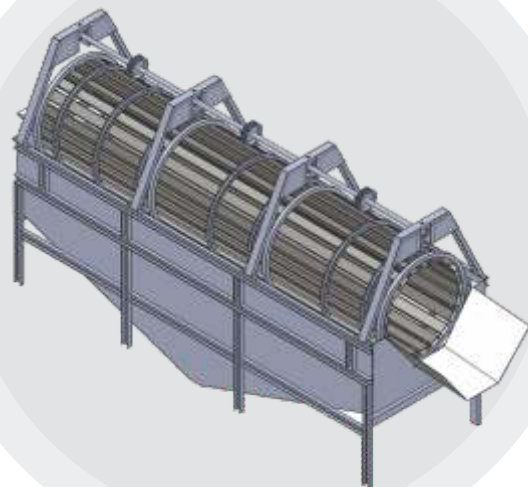
Capacities Offered: 2 TPH to 2.5 TPH



GINGER WASHER

- » Series of zig-zag bristle rollers are provided to remove mud/soil from fingers of ginger
- » Sprinkler arrangement is provided for washing
- » Discharge tank provided for waste water
- » Available with variable speeds

Capacities Offered: 2 TPH



DRUM WASHER

- » Used for handling bulk quantities of a product
- » Consist of S.S. Drum, which rotates on own axis for better cleaning
- » Re-circulation system of water available
- » S. S. Pipeline provided

Capacities Offered: 1 TPH & 2 TPH



WEIGHER AND BAGGER

- » Used for packaging of potato, onion, beet root, garlic and other similar products
- » It has a four head rotary bagger, designed for holding bags or cartons
- » Adjustable buckets are fitted to match a wide range of bags or cartons
- » Bucket clamps are air operated
- » Feed hopper height is adjustable
- » It has gentle cleated belts
- » Two stage filling for speed and accuracy
- » Rotating multi line display
- » Non-volatile bagging recipe memory - stores up to 10 recipes
- » Capacities offered upto 8 TPH

Production statistics - number of bags, average bag weight, total weight packed out

BMC
ENGINEERING Limited NEW ZEALAND

Capacities Offered Upto 8 TPH



POTATO DIGGER

- » Used for digging of potatoes
- » Consists of two variable depth coulter disks
- » Digging web has a width of 1340 mm
- » Two belts 25mm pitch web with 12mm diameter bars
- » Close pitch web with sealed edges
- » Two variable frequency shakers to separate dirt from the tubers
- » Synchronized overhead rubber lift assisting flaps
- » Pneumatic rear castoring wheels
- » For dry conditions - a powered square bar in lieu of digging shear
- » Three point linkage

BMC
ENGINEERING Limited NEW ZEALAND

Capacities Offered: 10 hectare per day



FEEDING-CUM-SORTING SECTION

- » Used for feeding and sorting of fruits & vegetables
- » Rollers made up of PVC/Aluminum
- » Contact parts made up of stainless steel & other food grade materials

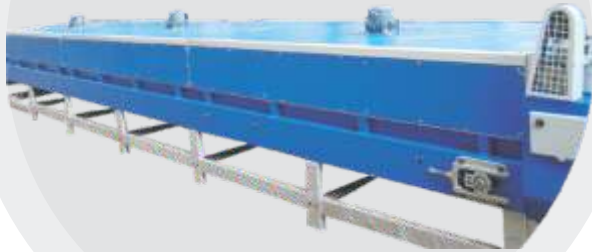
Capacities Offered: 1 TPH to 10 TPH



WASHING-SPONGING-WAXING SECTION

- » Used for washing, sponging and waxing of fruits & vegetables
- » Fitted with Nylon bristle rollers for washing
- » Water sprinkler arrangement is provided on top of moving products
- » A number of fine pressurized water jets wash the tumbling and rolling products
- » The bristle rollers gently rub the surface of the products and clean them properly
- » These products then pass through sponging rollers made of high absorbent sponge
- » After sponging, Liquid Edible Wax is sprayed on the products
- » Horse Hair Rollers in the machine polish the product after application of wax
- » All contact parts are fabricated from food grade material/stainless steel

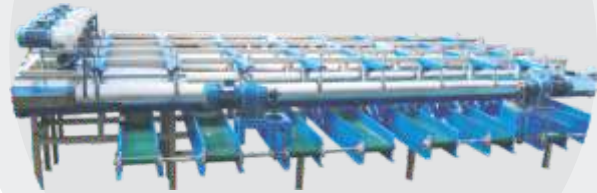
Capacities Offered: 1 TPH to 10 TPH



DRYING SECTION

- » Used for surface drying of products after application of wax
- » Temperature range 30° - 50° C
- » Electrical heaters with thermostatic control
- » Rollers are made up of PVC or aluminum
- » Contact parts made of S.S. & structure of mild steel

Capacities Offered: 1 TPH to 10 TPH



SIZE GRADER

- » Belt-roller type grader used for fruit & vegetable grading on the basis of diameter
- » Product moves continuously on the belt in a single layer
- » Series of Rubber Coated rollers hang on top of the belt & rotate on their own axis
- » Diameters of the rubber coated nylon rollers differ from each other so as to create gap between the moving belt and rotating rollers
- » The gap between the belt and roller grades the product
- » Rollers and other contact parts are fabricated from food grade material & structure is made up of mild steel
- » Supplied with packing tables

Capacities Offered: 1 TPH to 10 TPH
Number of Grades: upto 8



BULK HOPPER

This machine is used for unloading of products in bulk quantity. The products from trolley or gunny bags can be unloaded on the hopper and the machine feeds the products in the next machine with the help of with a controlled feed rate. The machine has been designed specially to handle seed potato with extra care. The flexible conveyor does not create any damage to the products. The feed rate of the machine can be varied.

Capacities offered as per customer requirements

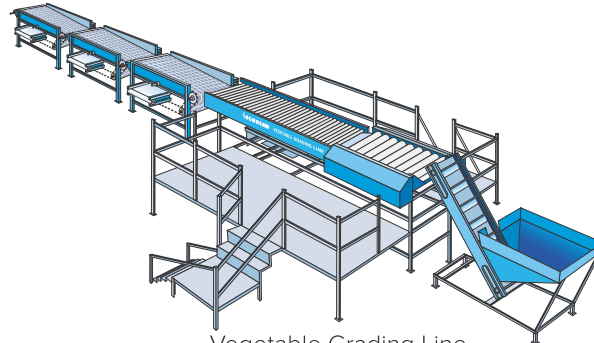


ELEVATED ROLLER INSPECTION TABLE

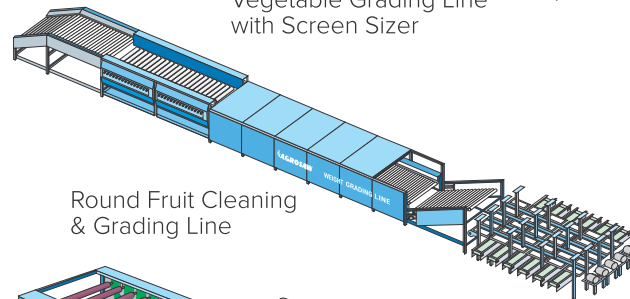
This machine is a combined machine for feeding and sorting of products. The horizontal portion is used for manual feeding of the products (with a certain feed rate) and manual inspection of the products. Then the elevated portion transfers the products on the next machine. Use of this machine can eliminate the use of additional feeding elevator.

Capacities offered as per customer requirements

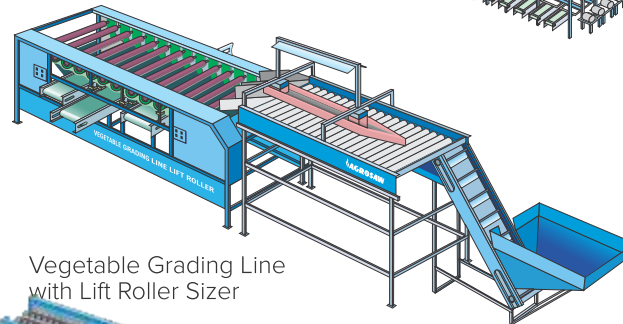
PLANT DRAWINGS - 3D



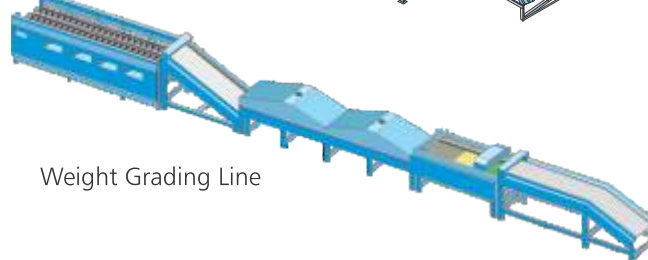
Vegetable Grading Line
with Screen Sizer



Round Fruit Cleaning
& Grading Line



Vegetable Grading Line
with Lift Roller Sizer



Weight Grading Line



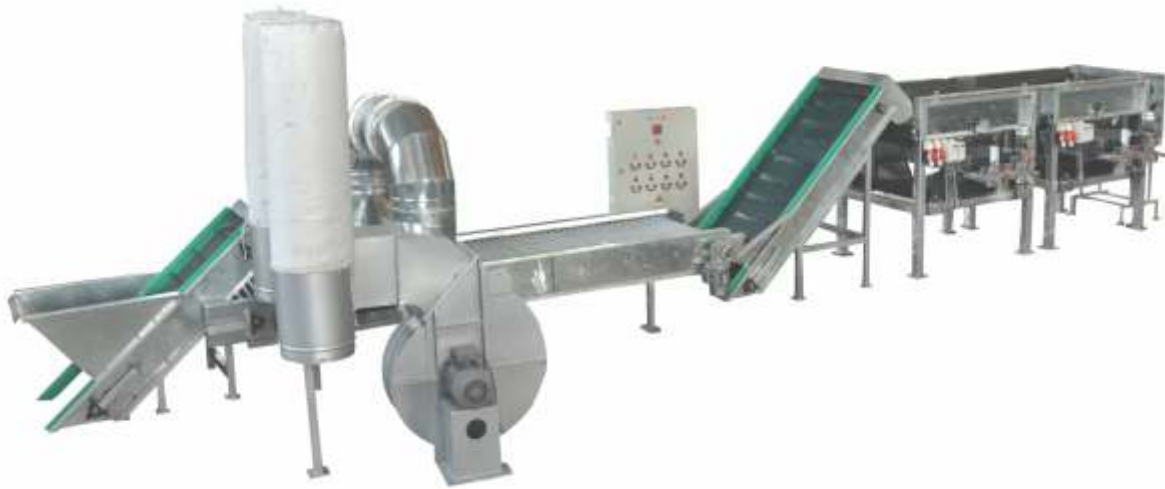


Apple Washing cum Grading Plant (2 TPH)



Apple and other Round Fruits Grader (with Dry Brusher) (1 TPH)

TURNKEY PLANT



Garlic Sorting & Grading Line (with Screen Sizer) (10 TPH)



Round Fruits Sorting, Washing, Sponging, Waxing, Drying & Grading Line (Cap 4 to 5 TPH)



TURNKEY PLANT



Round Fruit / Vegetable Sorting & Grading Line (with Lift Roller Sizer)

10 TPH



TURNKEY PLANT



Optical Grading Line for Color, Size based Sorting of Fruits and Vegetables

Manufacturer | Supplier | Exporter
The one stop for all your post harvest needs



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CE