

**First Time  
in  
Coconut Processing Industry**

**Stesalit Introduces  
Next Generation Automation Equipment  
*for*  
Desiccated Coconut Industry**

**Our Coconut Automation will  
produce Highest Quality of  
Milky White Powder**

*thus*  
**Getting Highest Price Realisation**

**Stesalit  
Automation**

[www.stesalitcoconut.com](http://www.stesalitcoconut.com)



# Stesalit Automation

*A deep technology driven company, creating and implementing automation in the process industries for decades*

*Core competency in design, development and manufacturing of sensors and micro controller based automated systems for process industries like Coconut, Tea and others*

*Provides the whole suite of products from Dehusking to packing for Coconut Processing Industry*

*Winner of several International Awards including RED HERRING 100 ASIA*

*Multi City R&D Center for product design and development*

*A SEI - CMMI Level 3 Organisation*

*ISO - 27001:13 & ISO 9001:15 Certified*

Stesalit offers '**Stesalit Coconut Automation System' (SCAS)** which is a Centralized Monitoring and Control System for Coconut Processing Unit.

Using special sensors, the operations of the Coconut Processing Unit are monitored and recorded on a computer screen in the factory. **This data can further be stored for Data Analytics in the future.** The operation details of individual equipment can also be seen individually and collectively. Automation by this system gives better efficiency and control of the process resulting in highest quality of the final product.

**Superior quality of the final product is achieved** by maintaining desired temperature control and other parameters in the Blancher and Dryer. The Desiccated Coconut Powder produced through our **SCAS** is totally contamination free and milky white product of highest quality resulting much higher price realization. Our system also provides exact yield of each batch of coconuts fed in the unit. Some of the features and advantages of our **SCAS** are given in the following pages.

### **Existing System**

- Proper control of temperature in the Blancher is not possible

### **Disadvantages of Existing System**

- Without proper temperature control, production of total contamination (Bacteria) free coconut is not possible
- This adversely affects the quality of final coconut product produced and the whiteness of the final product
- Uncontrolled steam consumption results in higher fuel consumption

### **Our Automation System for Blancher**

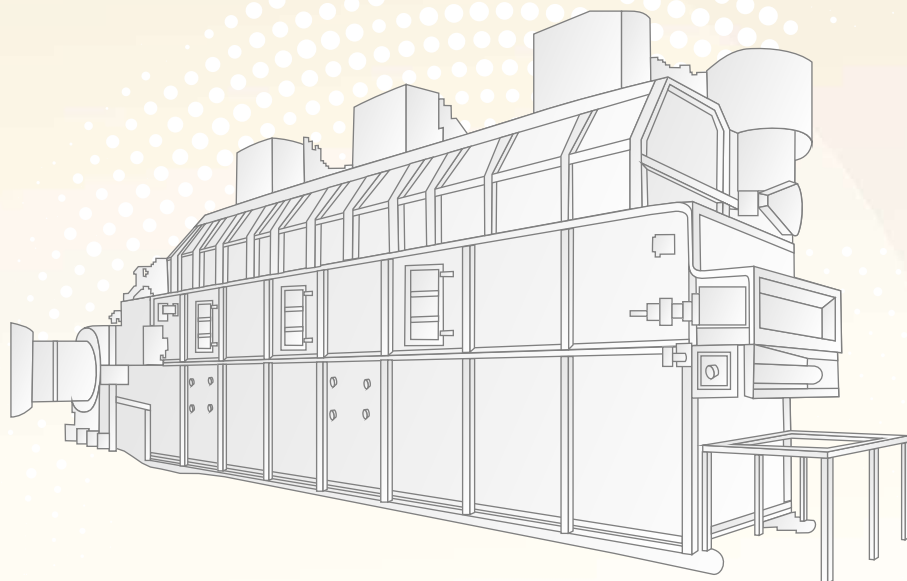
- SCA system for Blancher, uses special sensors and ensures the maintenance of desired temperature in the blancher throughout the operation
- Ensures total contamination (Bacteria) free coconut production in the blancher

### **Advantages of our Automation System**

- Through Automation ensures production of total contamination (Bacteria) free coconut in the final product
- Ensures milky white coconut in final production
- Saves fuel consumption due to controlled steam consumption



# Blancher



# Combination Dryer

## *Existing System*

- Proper control of temperature in the dryer is not possible

## *Disadvantages of Existing system*

- Due to fluctuation in temperature in the dryer, there is possibility of under / over heating of coconut in the dryer resulting in under / overcooked product
- Due to fluctuation in temperature in dryer, production of contamination (Bacteria) free desiccated coconut powder and milky white desiccated coconut powder is not possible
- There is no control over steam consumption resulting in higher fuel consumption

## **Our Automation System for Dryer**

- In our offered automated system for Dryer, the system using special sensors, monitors and ensures the maintenance of desired temperature and other parameters in the dryer throughout the operation

## **Advantages of our automation system**

- The temperature control in the dryer results in total contamination (Bacteria) free milky white Desiccated Coconut (DC) in the final product
- The final milky white Desiccated Coconut powder gets better price realization
- Our automation system will also provide savings in fuel consumption due to controlled steam consumption

# Weightment of Final Product (SCW)

## Our Automation System for Weightment (SCW)

- Our automation system for Weightment (SCW), using microcontrollers, provides very accurate, online weightment of the final product, during the production process itself

## Advantages of our automation system

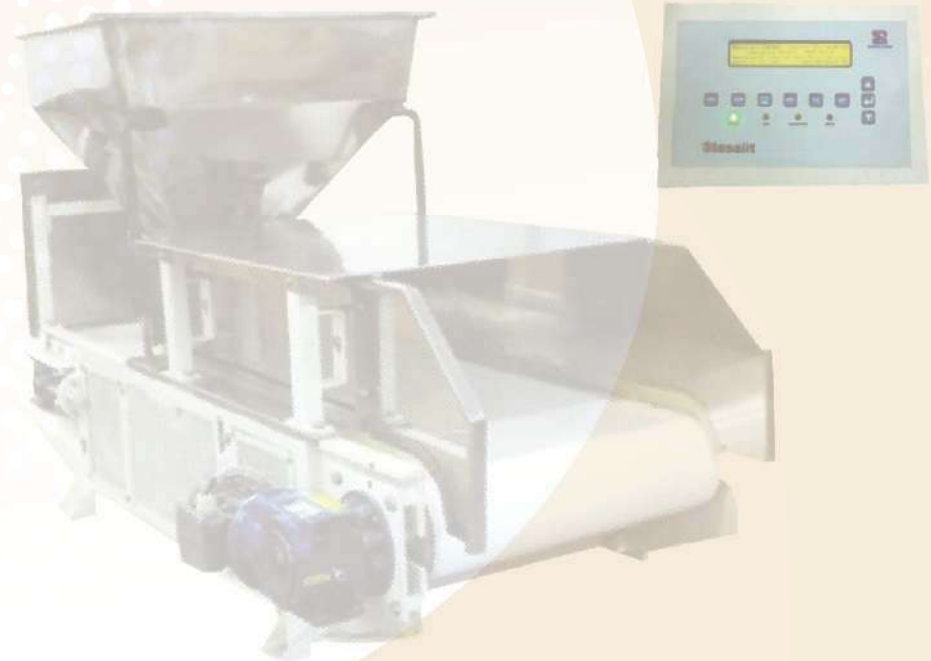
- The system gives accurate weightment of the final product on real time basis. The system records and monitors actual online real time weight on hourly/ daily/ monthly basis and also controls the losses in the process before and during final packaging

## Existing Systems

- In the existing system, the weight of Final Product is taken only after packaging of final product

## Disadvantages of existing system

- This does not give the accurate weight of the final product produced because of possibility of wastage before and during the packaging process





## Deshelled Nut Bin



### Existing Systems

- There is no possibility of counting and knowing the exact quantity of coconuts loaded in individual bins and collective De-shelled storage Nut bins

### Disadvantages of existing system

- Opening & closing of conveyor gate and related conveyor operation is done manually requiring large number of Manpower
- There is no system by which exact quantity of de-shelled nuts by individual workman and in the entire de-shelling process can be monitored and recorded in each shift and the efficiency of each workman and the entire process can be monitored

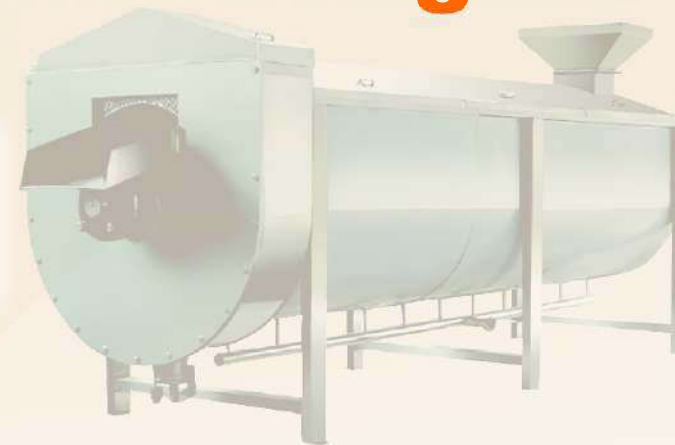
### Our Automation System for De-shelled Nut BIN

- Our system for nuts BINS, the quantity of de-shelled nuts in each BIN can be recorded and number of de-shelled nuts by each workman in each shift can be monitored. This can be displayed on screens placed above/near BINS, and work efficiency of individual and collective workman can be monitored and recorded

### Advantages of our automation system

- By using special sensors, our system gives the quantity of production of each de-shelled nuts in individual BIN and in all BINS collectively. This can be monitored and recorded for each shift / each day / each month, thereby determining the efficiency of the individual and for the entire process
- Our system also provides higher production of de-shelled nuts in each shift because of proper monitoring of whole operation with data available at every step
- The opening and closing of conveyor gate for each bin is done automatically thereby saving substantial man power and improving efficiency manifolds

## Coconut Storage Bin



### Existing Systems

- It is not possible to know the exact quantity of coconut stored in storage BINS due to which the efficiency of the entire coconut production process in the factory cannot be determined

### Disadvantages of existing system

- Opening & closing of conveyor gate and related conveyor operation is done manually requiring large number of manpower

### Our Automation System for Coconut storage BIN

- In our offered system by using special sensors, the exact number of nuts stored in BINS is counted, and demonstrated on the screen

### Advantages

- The conveyor gate and related conveyor operation is done automatically saving substantial manpower and giving better efficiency
- The efficiency of the entire system for Coconut production of the factory can be determined and improved
- The system also gives the exact production yield of each batch

# Introducing Automation in Coconut Industry

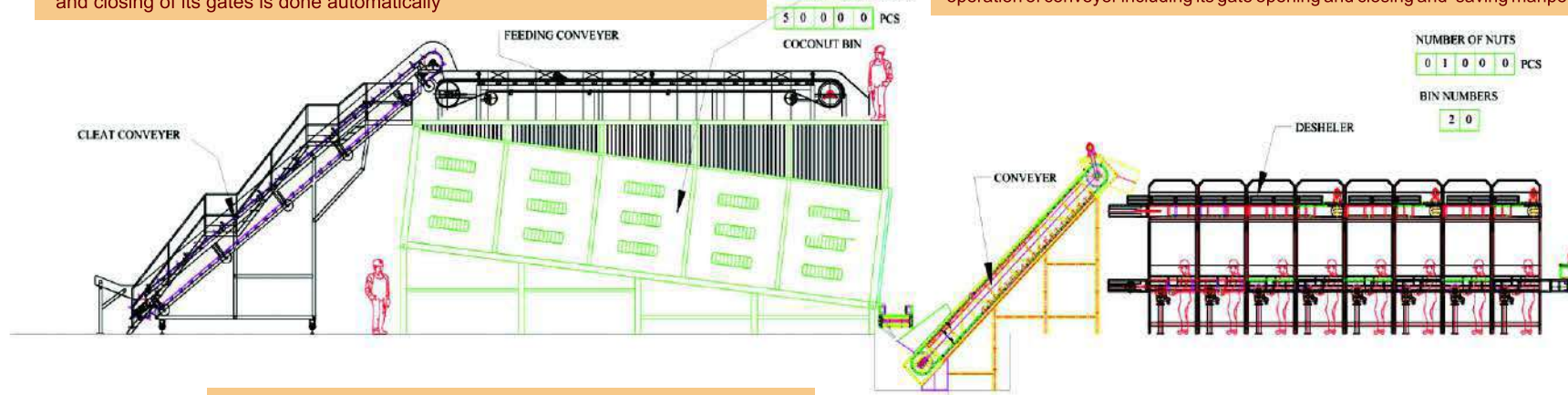
## Stesalit Coconut Automation System (SCAS)

**1. Storage Nut Bins:** Our system gives exact number of nuts stored in the bins and the exact yield on each batch production. Operation of conveyor and opening and closing of its gates is done automatically

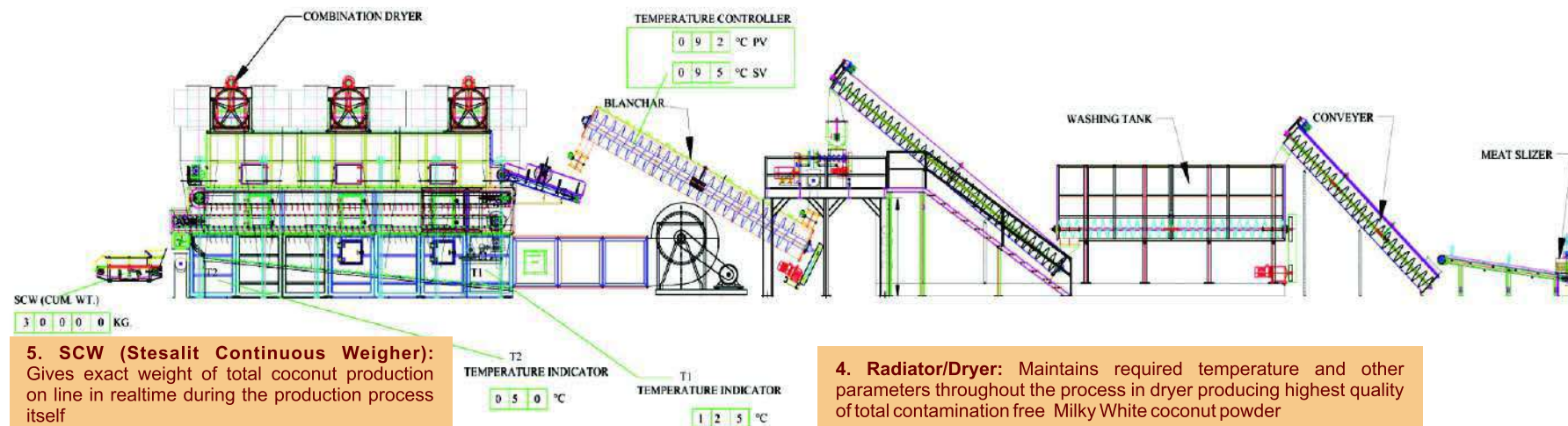
5 0 0 0 0 PCS  
COCONUT BIN

**2. Desheller Nut Bins:** Gives the total number of nuts stored and deshelled in each bin & in total bins collectively. It also does automatic operation of conveyor including its gate opening and closing and saving manpower

NUMBER OF NUTS  
0 1 0 0 0 PCS  
BIN NUMBERS  
2 0



**3. Blancher:** Maintains a required temperature in Blancher throughout the operation giving totally contamination free Coconut.



**5. SCW (Stesalit Continuous Weigher):** Gives exact weight of total coconut production on line in realtime during the production process itself

**4. Radiator/Dryer:** Maintains required temperature and other parameters throughout the process in dryer producing highest quality of total contamination free Milky White coconut powder





# **Stesalit Automation**

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