

## **Industrial Type Coconut De-Husking Machine**

Presently in Sri Lanka, manual labour is mostly used for coconut de-husking which is one of the most important stages of coconut processing. Manual de-husking is a very tedious and unsafe work; also likely to cause health problems like back pain. Hence the people are reluctant to engage in de-husking and therefore coconut processors cannot meet their production targets regularly. NERDC has developed this machine as a remedy to the labour shortage and to meet higher production capacities. This is a semi-automated machine which can be operated by only three persons. The machine is equipped with a separate husk remover and a crown remover. For entire husk removal purposes, both units are engaged whereas crown remover is not being used for de-husking of coconut for selling in consumer markets. The nut breakage percentage of this machine is significantly lower than that of existing machines in the industry.

### Features

- Production capacity: approximately 1200 nuts/hour
- Power Requirement:
  - Husk remover 7.5 hp (Three Phase)
  - Crown remover 3 hp (Three Phase)
- Nut breakage percentage: Approx. 2%
- Labor requirement:
  - For feeding husks to the machine 2 Person
  - For removing husk and de-husked nuts and loading nuts to containers 1 Person

### General Information;

- Size :
  - Husk remover :Length 2m: Width 0.8m: Height 1.5m
  - Crown remover : Length 2.2m: Width 0.75m: Height 0.6m
- Floor area Requirement: 3m×3m
- Total weight – approx. 700kg

### Advantages/Benefits

- Safe and can be operated by unskilled persons
- De-husks large quantity of coconut with less man-hours
- Quality of the husk is comparatively good and it quickly absorb water hence post processing of husk is easy.

### Areas of application

Coconut industry

