
Composite Peeler cum Juice Extractor for Sweet Orange and Kinnow

Salient features

- Simultaneous peeling and juice extraction of kinnow and sweet orange fruits.
- Maintenance of the rotational speed of 220, 260, 280, 300, 360 rpm for fruits during operation
- **The performance parameters are listed below:**
 - **Kinnow**
Optimized rotational speed: 220 rpm
Capacity: 60–90 kg/h
Peeling efficiency: 90.24-95.63 %
Peeling time: 6.45- 11.97 s
Juice loss: 5.70-14.98 %
 - **Sweet orange**
Optimized rotational speed: 260 rpm
Capacity:50–60 kg/h
Peeling efficiency: 95.82-99.02 %
Peeling time: 8.25-13.67 s
Juice loss: 6.60-15.74 %

Advantages

- ✓ Applicability in cottage citrus fruit juice processing industries and for the domestic juice sellers
- ✓ Time and cost saving

Specifications

Peeling blade: 38 mm (diameter), 5 mm (width) and 0.8 mm (thickness)
Machine frame: 610×457×762 mm
Fruit holders: Diameter 30 mm
Two larger gear (102 mm) and two smaller gear (76 mm)
Cutting knives assembly: Twoknives (80 mm length each)
Fruit presser: Sigmoidal shaped unit (40 mm (width) and 3 mm (thickness))
Motor: Crompton greaves, 0.5 HP, 1440 rpm



*Machine developed
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Price / Unit

Fabrication cost: Rs. 0.35 Lakh

More information

Status of commercialization / Patent / Publication