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Salad Tray Cutter HT-STC

User Manual



HT– Salad Tray Cutter (STC)

Introduction

Congratulations on the purchase of your *Harvester Concepts Ltd HT—STC*. This machine is of high quality and will reward you with reduced effort and a great harvest

Learning to operate your *HT—STC* won't take long. You will soon find it to be an invaluable tool.

Important Safety Note

Read and understand all the instructions before using the *HT—STC*. The *HT—STC* should only be used for the purposes for which it was designed. Use it for no other purpose

The *HT—STC* is a light weight machine and if not used with care can easily be damaged. We have manufactured the *HT—STC* using quality materials and manufacturing techniques however if faults do occur please have them corrected before you use it.

- Please read this instruction book before use and retain it for future reference.
- Unless mentioned in the instructions, it requires only one person to operate the *HT—STC* ; keep all others away!
- **Never** go near the cutter bar while the motor is running.
- Always turn the cutter bar off when not in use and before adjusting its position in the frame.
- Immediately after turning the motor off, fit the cutter bar cover. It should be removed last, before restarting.

Conditions of Sale and Guarantee

Your *HARVESTER CONCEPTS LTD* product is guaranteed to be free from defects in materials and/or workmanship under normal use and service for a period of 6 months from date of initial purchase.

HARVESTER CONCEPTS LTD'S liability and obligation is limited to problems which *HARVESTER CONCEPTS LTD* acknowledges to be defective under the guarantee conditions either to

- the free replacement or repair (where practicable) at the *HARVESTER CONCEPTS LTD*

premises of any parts returned within the guarantee period

- or shipment of replacement parts to the customer, as mutually agreed to.

Supply of non standard parts or services from other than *HARVESTER CONCEPTS LTD* are not covered under the guarantee conditions unless prearranged, in writing, with *HARVESTER CONCEPTS LTD*

Shipment of product to *HARVESTER CONCEPTS LTD* is the consumers responsibility and cost Guarantee conditions are void for any of the following reasons:-

Abnormal use of the product

Accident damage or vandalism

Modifications or unauthorised repairs to the product or its components

Where component "seconds" have been supplied

Normal wear and tear

HARVESTER CONCEPTS LTD cannot be liable for any damage caused to people or other property during use of the product or as a result of any defect or malfunction of product or components supplied by *HARVESTER CONCEPTS LTD*. Use of the product is solely the users responsibility. Other losses such as delays in work, incorrect or misleading information, omissions and errors, *HARVESTER CONCEPTS LTD* is not liable for.

This guarantee is expressed in lieu of all other guarantees expressed or implied and all other obligations and liabilities on *HARVESTER CONCEPTS LTD'S* part and specifically excluding consequential damage. *HARVESTER CONCEPTS LTD* makes no guarantee of merchantability or fitness for purpose and is not responsible to any purchaser of its products for any undertaking, representation or guarantee, except those stated in these terms, made by any person, dealer or body corporate selling or dealing with its products in any manner whatsoever.

check blade drive belt. Check blade is not jammed with foreign material / adjusted correctly

- Not blowing product into crates; use slower conveyor speed; ensure fan is operating; check drive belt is not slipping; If product is excessively wet or high stem to leaf ratio it will not transport up the chute as well; the blow duct is out of alignment; fan clogged with material or dust; clean chute surface
- Trays not moving from infeed conveyor onto main conveyor correctly. Slope on infeed conveyor only needs to be enough for trays to slowly roll down it. If angle is excessive trays will stop at main frame rollers.

If you require assistance or spare parts please contact Harvester Concepts Ltd.

Specifications

Power Head: Ochiai V8Z2HD-1210 fitted with TEFC 1.85 Kw 2 pole electric motor.

Motor drive belt: A43

Blade drive belt: M19

Total Machine

Height adjustment: 25 to 325 mm

Dry weight: approx. Kg

Cutter bar width 1210mm

Size: 3710mm L x 1830W x 1590H

- After use it is a good idea to wash the blades (**Be Careful!!**) using a stiff bristle brush, water & detergent and allow to dry. If the machine is to be stored for some time the blades can be sprayed or brushed with a light oil.
- From time to time the blade may need sharpening
- The HT-STC may also be washed down. **WARNING:** The electric motor is not rated for hose wash down and water should not be directed at it!

20 Hourly

- Grease the blade drive gearbox grease nipple

6 Monthly

- The conveyor roller chain cover can be removed and some light oil sprayed over the drive components
- Check condition of motor drive belt. The cover will need removing for this. Also check belt tension and adjust if necessary
- Visually check condition of blade drive belt by looking through its cover
- If binding occurs anywhere use an oil can to apply a drop of oil to winch bearings

Problem Solving

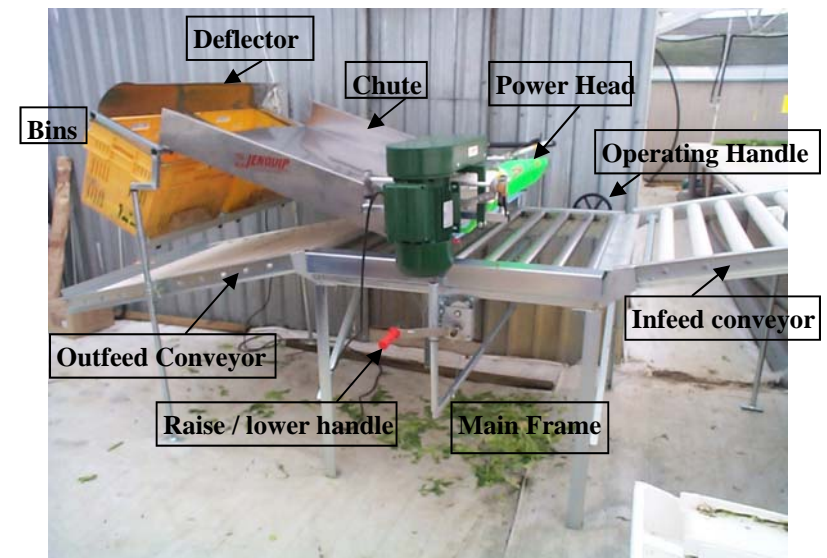
Also refer to the Tea Plucker handbook

- Cutter bar is not rising and lowering evenly check for correct rope wrapping on the drum, that there is no binding on the frame slide ways. If these are not the problem then one of the winch ropes may need re-tensioning. Check main frame is level and not twisting.
- Not cutting correctly; refer to tea plucker handbook. Blades may need sharpening, adjusting or replacing.
- Cutter bar slow moving; ensure operating lever is moved fully clockwise and stays there; check blade drive belt is not slipping; check blade assembled /adjusted correctly; lubricate blades and crankcase; blades may need dismantling and slots cleaning (only after a lot of use)
- Cutter bar not going; check motor is going, fan is going—

Your HT-STC

Your HT-STC consists of

- In feed conveyor
- Main frame
- Power Head (Tea Plucker)
- Out feed conveyor
- Crate holder
- Product chute
- This handbook plus one for the power head
- Optional spare parts; Spare blade set and blade drive vee belt.



Assembly

The HT-STC will need minimal assembly on receipt or if you need to transport it about. The main frame will be fully assembled including the power head and its height adjusting winch. The power head can be powered by an engine or a single phase electric motor.

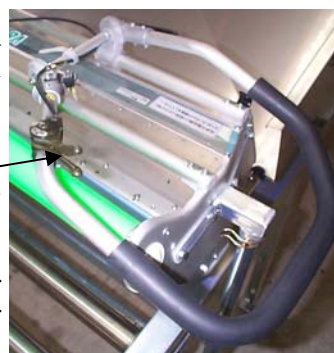
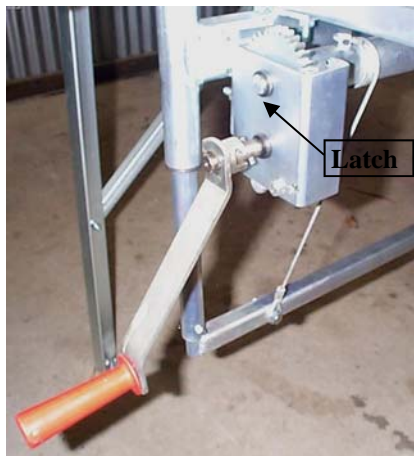
1. Ensure even weight is on all 4 of the main frame legs by adjusting the levelling bolts at the bottom of each leg
2. The in feed and out feed conveyors simply bolt to the mainframe and the height adjusting legs pinned at suitable heights for each

- conveyor. These conveyors should be at a slight angle so that the product trays just roll down them. Tighten all connecting bolts.
3. The crate holder fits over the out feed conveyor legs and is retained by lynch pins at the correct height for each bin size. The deflector frame plugs into the top of the leg tubes.
 4. The product chute rubber covered edge is inserted into the u shape at the lower rear edge of the power head. The top end clips over the crate holder frame. The conveyor support legs may need tilting to facilitate fitting of the chute.

Operation

Caution: Never approach the cutter bar with the motor running!

1. The hand winch is used to raise and lower the power head. To raise—wind handle until desired cut height is obtained. To lower—hold handle firmly and release winch lock pawl, carefully lower power head to desired height and re engage lock pawl.
Note:- Ensure the cutter bar rises and lowers evenly. Some weight (sandbag) may need adding to the winch frame at end opposite winch to achieve this. If binding of the system occurs, check main frame is levelled and there is no frame twisting.
2. Load the in feed conveyor with salad trays. **Hint** If the bottom of the trays have “mountainous” shapes, place the trays on the conveyor at a slight angle. They will then travel over the conveyor rollers smoothly. The trays should just roll down the sloping conveyors—if too fast or slow, the conveyor slop may need adjusting
3. Place 2 crates in their holder.
4. Remove the cutter bar cover just prior to use. Ensure the drive to the cutter



5. bar is disengaged—the top lever moved anticlockwise.
5. Ensure people and materials are clear of the cutter bar. Turn power on to the motor. The fan will start.
6. Engage the cutter bar drive by moving the operating lever clockwise.
7. Turn the conveyor crank handle to propel the salad trays past the cutter bar. Operate at such a speed to give a good cut to the product and so the cut product flows smoothly into the crates.
8. The “cut” salad trays can be removed once they have reached the end of the outfeed conveyor.

The cutter bar should only be operated as long as required. This is safest and also minimises wear of the blade.

While reloading the infeed conveyor the fan can be left running.

Conversion to Engine powered

The power head can be converted back for use with its original petrol engine. However it should be returned to Harvester Concepts Ltd or a competent engineer employed for this conversion.

With the engine fitted the Tea Plucker can also be removed from the conveyor frame and be used manually in the field.

The Tea Plucker handbook should be read for instructions in this instance.

Maintenance

The Tea Plucker handbook should be read for instructions pertaining to the power head.

Daily

- With machine operating listen for any strange noises / operation. Investigate any irregularities immediately before continuing operation

With motor turned off and plug removed from power supply:-

- lubricate blade with food grade oil every 2 hours of operation
- Ensure height adjusting winch ropes are taught and wound uniformly onto the winch drum.
- Ensure trays roll down the conveyors at the correct speed