

# Grape Harvester



The BEI Grape Harvester is available in single trellis, double trellis or combination models. BEI offers these models to best meet the grower's needs.

BEI's top quality and performance is backed by more than 30 years in the soft fruit harvesting industry. Combine that with these fast, efficient harvesting machines and get maximum yields. All three models mechanically harvest the fruit laden vines, clean and remove any picking debris and convey the grapes into bulk containers in the adjacent row. One man to run the harvester. That's Efficient Performance!

The SINGLE TRELLIS model is designed to harvest single curtain. This harvester utilizes two slapper picking heads to shake the vines, harvesting the grapes.

The DOUBLE TRELLIS model is designed to pick double curtain. The picking of these vines is done in a single pass. Double trellis picking heads consist of four long metal fingers that raise, drop and catch the wires. This action shakes the grapes from the vines for harvesting. The double trellis system employs two positioning sensors that automatically adjust the picking heads to follow the wires. In addition, the heads can be hydraulically moved by the operator without leaving his seat.

The COMBINATION model is equipped with both single trellis and double trellis picking heads. This harvester is the ultimate in grape harvesting. Now a grower can utilize single and double trellises in his vineyards and still have a single machine that will efficiently harvest both. The picking heads are changed by positioning the harvester over the supplies stand. The single trellis heads disconnect quickly by the removal of 8 bolts and disconnecting the quick coupling hydraulic lines. The double trellis heads move out hydraulically from their storage area in the sides of the harvester. That's Versatility!

All machine operations are controlled by the operator. These include travel speed, machine operating height, picking head operation, conveyors and blowers. One lever give the operator an infinitely variable speed control in both forward and reverse. This control matched with a high/low range selector, will provide any speed form a crawl to road travel. Setting the picking height and leveling the machine is done by the use of three control levers. These levers provide individual control for each front wheel and one for the self-leveling rear of the machine. All picking heads, conveyors and blowers have control to the operator's left. The picking head control adjusts the frequency that the attached picking heads operate.

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Two other controls adjust the speed of the eight conveyors. One controls the right side conveyors, the other controls the left side conveyors. These two control allow the operator to maintain a constant output by varying the conveyor speeds to match the harvest input. The speed of both main blowers can be adjusted simultaneously, by the blower control, for effective trash removal of different grape varieties. In addition, the harvester is equipped with secondary blowers for even more efficient trash removal

The single trellis picking heads consist of two banks of nylon fingers. These fingers move from side to side shaking the grapes loose. The diameter and material of the fingers maximize the amount of fruit harvested. This design also reduces the head RPM required to remove the fruit.



The double trellis picking heads consist of two positioning sensors and four metal fingers. These sensors follow the wires to automatically position the picking heads in or out. The fingers raise, drop and catch the wires through a rotating movement. This action shakes the fruit loose while it leaves the vines in good condition. The double trellis head positioning controls give the operator manual control of both horizontal and vertical positioning of the picking heads. The joy stick individually operates each picking head vertically, the in and out switches individually control the horizontal positioning of the picking heads. These manual controls aid the operator in following the wires.



The picked grapes are collected on catcher pans and transferred to the conveyor system. The conveyor system moves the grapes past blowers, that remove field trash, and deposits the cleaned grapes into bulk containers in the next row. The swing conveyor can be hydraulically positioned to best match your harvesting requirements.

Rack and pinion power steering allow the harvester to turn in its own length. The result is a minimum of turning space at the end of a row for turn around and row reentry.

Harvester hydrostatic propulsion is provided through independent hydraulic motors within each of the four wheels. This assures positive control and machine movement under most ground conditions.

A Cummins Turbo diesel engine provides power for all hydraulic systems on the harvester. Diesel power is known for its reliability and performance throughout the agricultural industry.

The overall dimensions of the harvester are: Length 18' 3", Width 10' 0", Height 11' 5".