

The Concord Grape Pre-Pruner CG - 100

Manufactured By:
The J. E. Love Company
Garfield, WA

Copyright 2004

Sold By: Vine Tech Equipment

335 N. Gap Road
Prosser, WA 99350
Jack Maljaars – 509 788-0900



Mfg By: J.E. Love Company

P.O. Box 188
Garfield, WA 99130
509 635-1321

Why look at mechanical pruning?

■ Higher Returns

- A) Achieves a bud count of up to 200
- B) Hedges a consistent canopy in seconds/plant
- C) Maintains fruit quality
- D) Leaves plant to adjust its own cluster count
- F) Significant saving compared to hand pruning
- H) Not labor dependent – You choose when to prune
- I) Provides mulch for the cane plant

What does the CG-100 do for you?

- Mechanically Prunes the Grape Canopy
- Protects the Wires, Posts, and the Pruner
- Makes thousands of cuts per minute
- Greatly reduces the amount of hand labor needed – High cost savings
- Increases the output per acre of crop
- Gives you a greater return on your investment

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The CG-100 Pre-Pruner takes a canopy that looks like this



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And transforms the canopy into this



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How does the Love CG-100 Pre-Pruner work?

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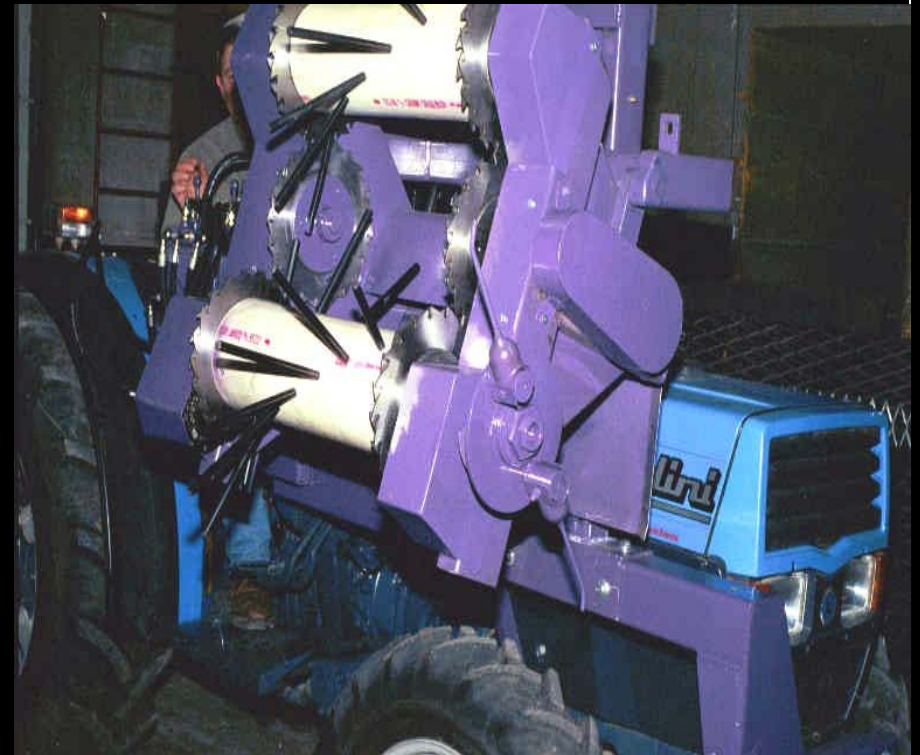
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The CG-100 comes with a mounting bracket designed for your tractor.

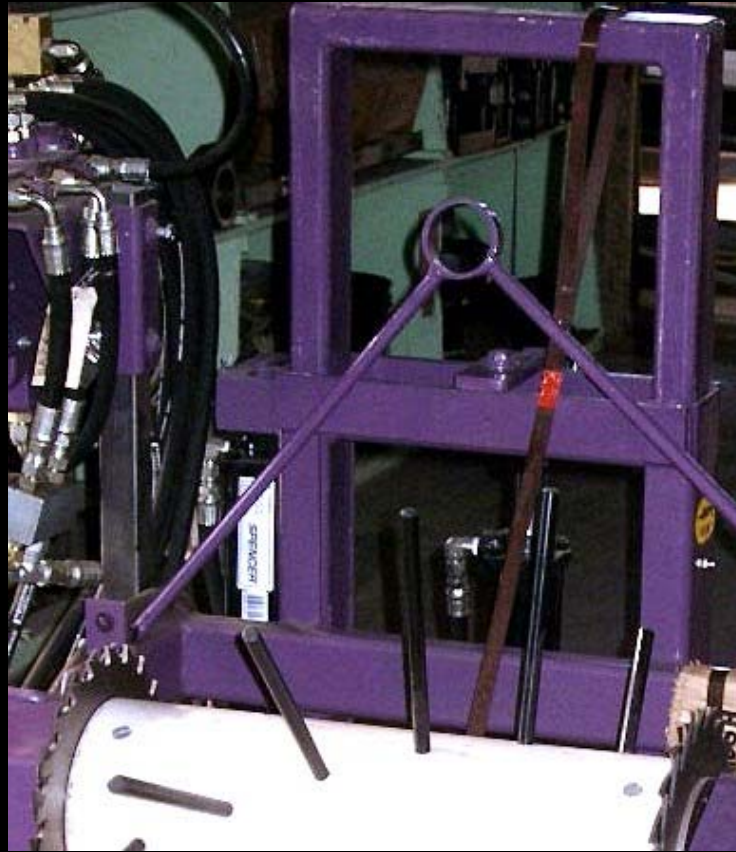


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It also comes with a balanced lifting bracket to safely lift the CG-100 into place.

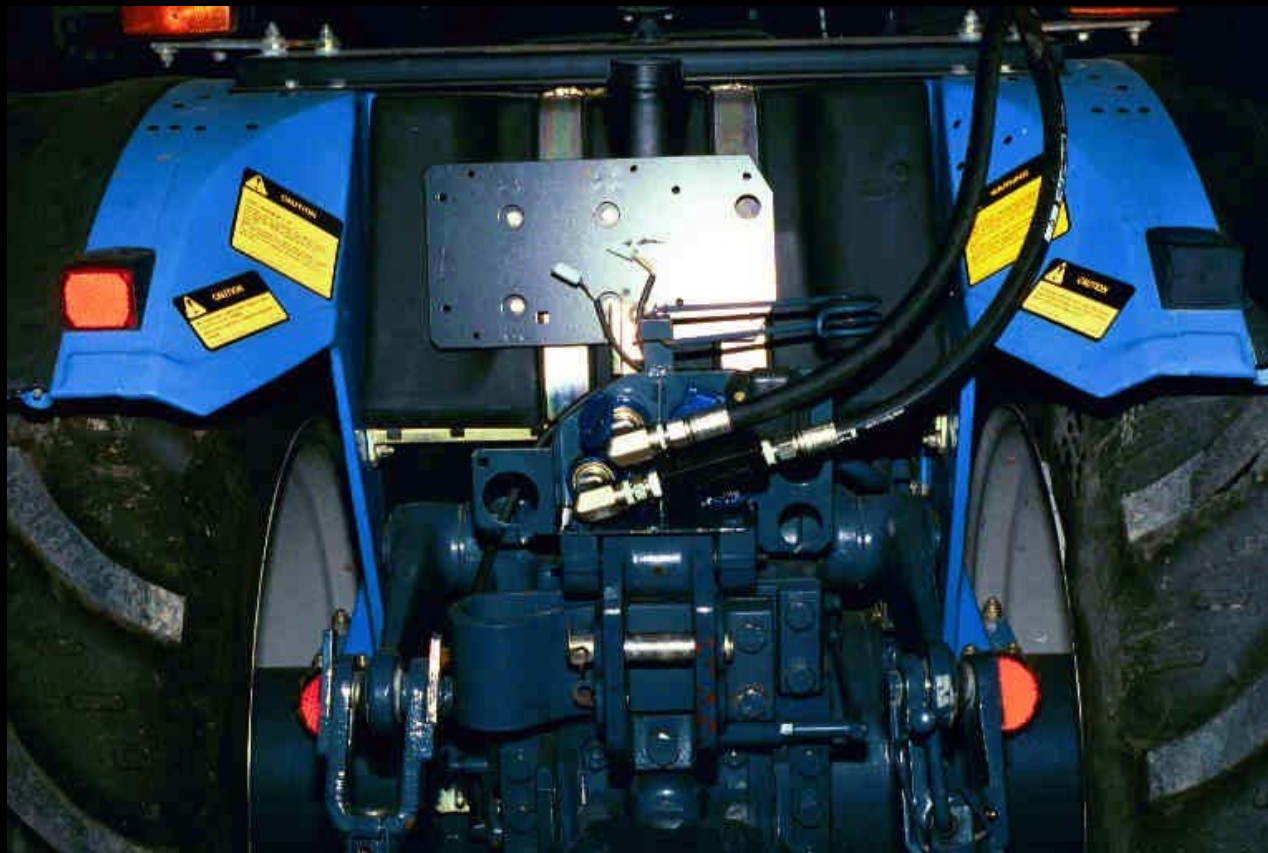


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The CG-100 hydraulics connects into your tractor hydraulic system.



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The hydraulic controls are mounted next to the tractor operator.



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The hydraulic controls operate the CG-100 mast height,



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The cant angle,

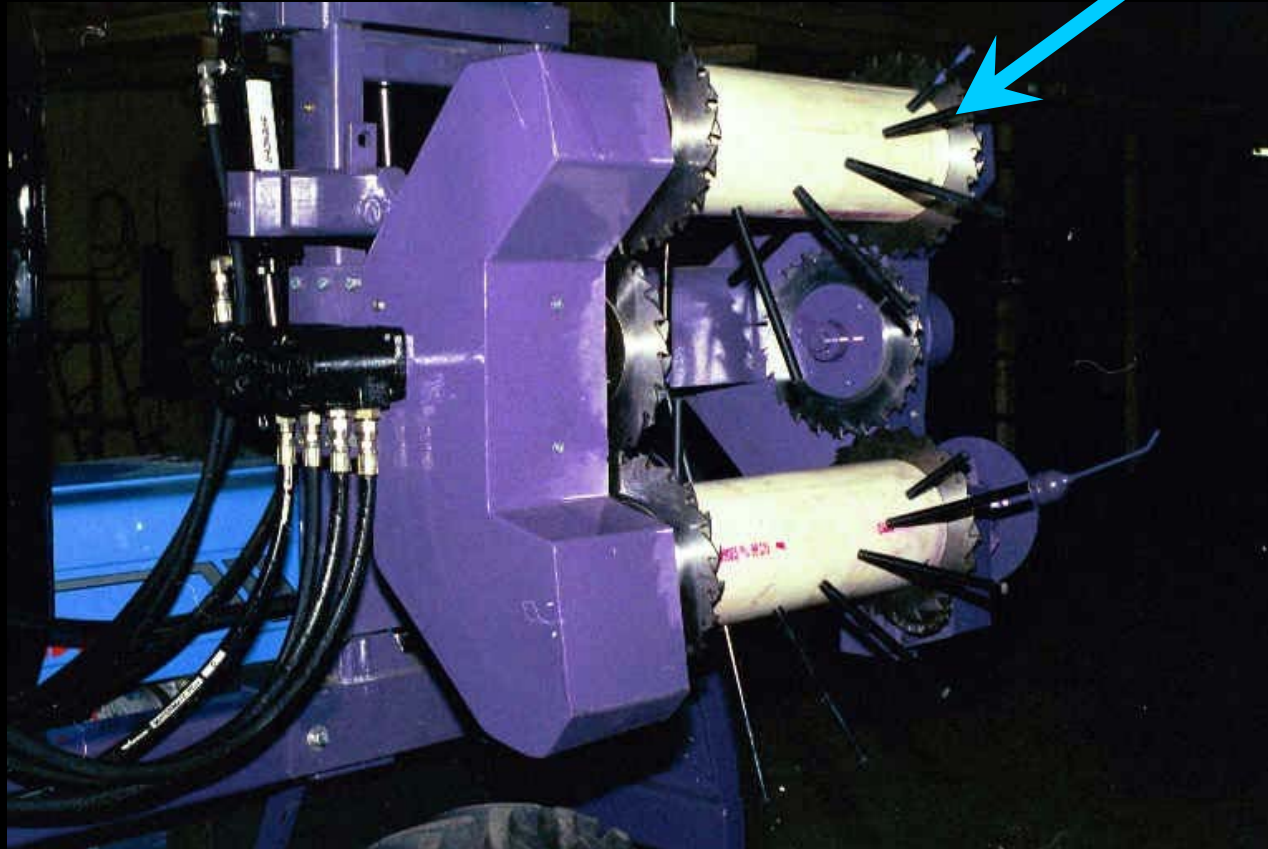


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the quilled drum speed,

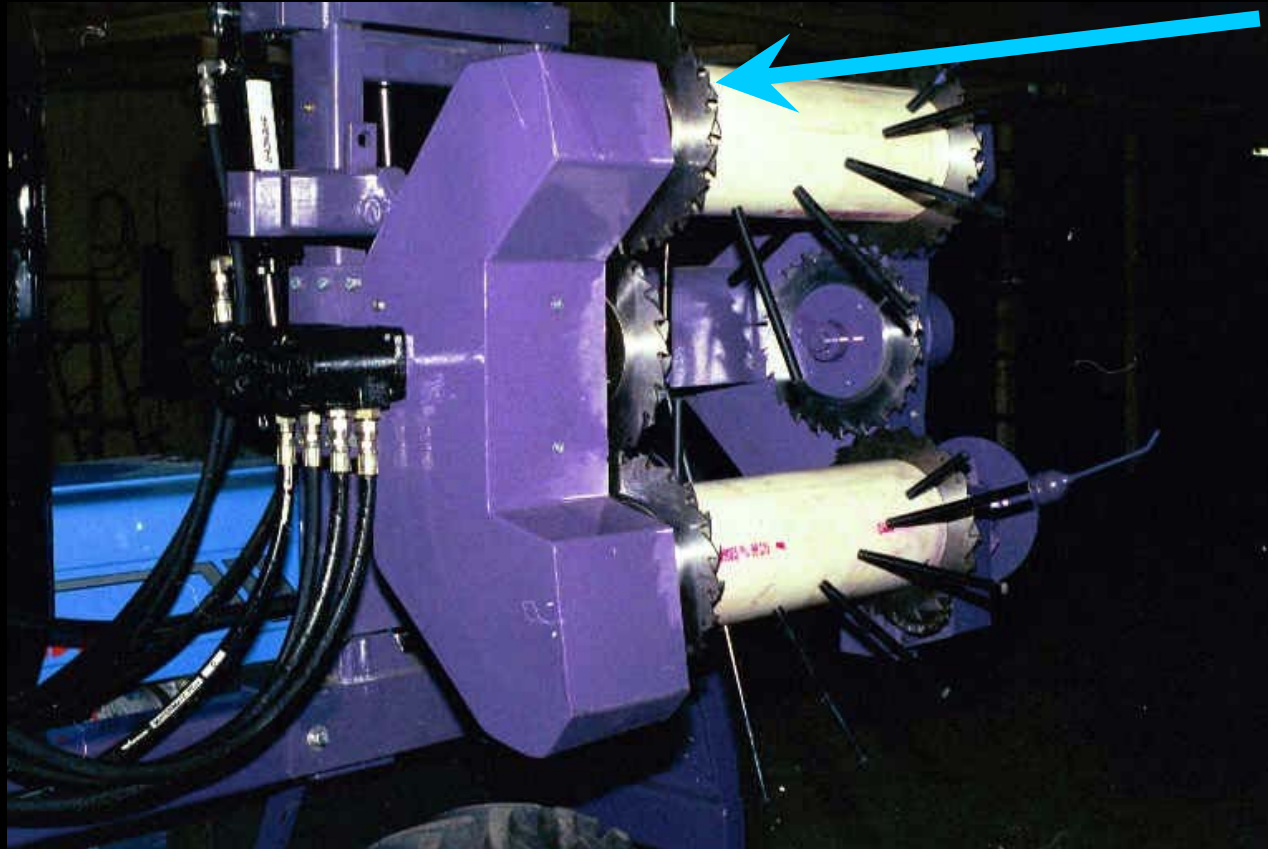


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and the cutter blade speed.



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The Hydraulic System is designed to -

- Provide a 500 – 600 psi hydraulic overload protection – protects canopy wires and posts
- Adjustable mast -raise and lower speed
- Adjustable drum speed/motion (forward, stop, reverse)
- And adjustable inner cutter blade speed

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The hydraulic control panel also provides easy operation -

- On/Off Valve

- Mast Height

- Cant Angle

- Quilled Drum Control



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Field Operation

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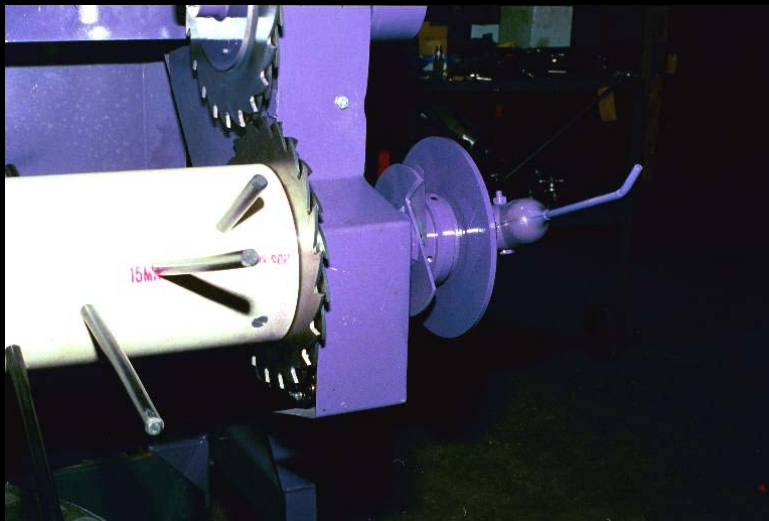
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Stage 1 – Front Picker Assembly



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The front picker assembly lifts the years growth away from the canopy and draws the surplus cane towards the machine.



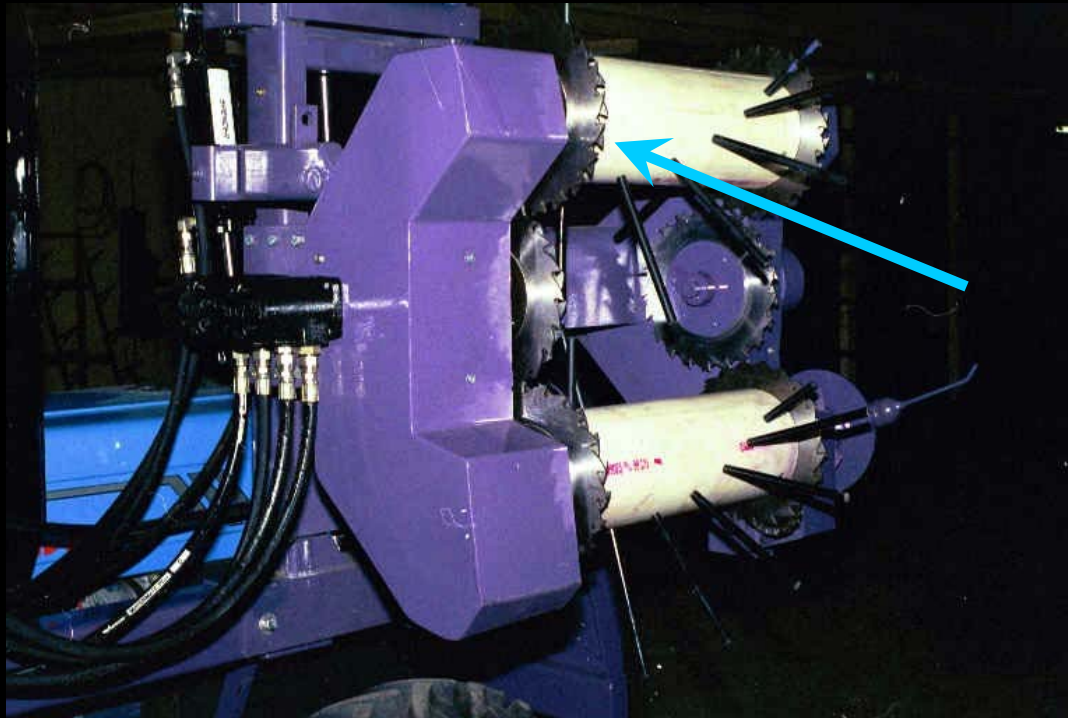
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Stage 2

A set of six rotating blades shear off the excess cane at thousands of cuts / minute



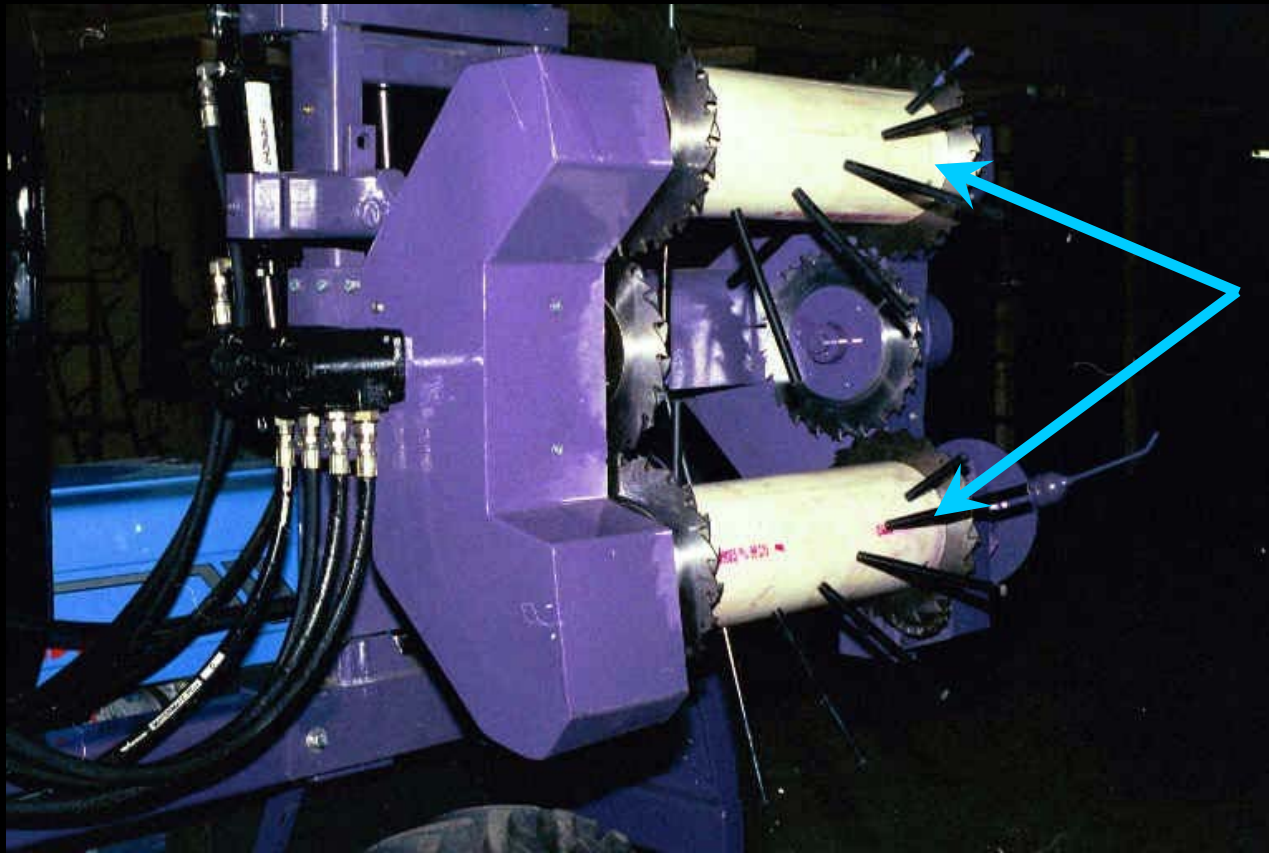
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Stage 3

Two rotating drums with flexible fingers (quills) gather the now shorter cane and draw it away from the cordon and aligns it for cutting.



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Stage 4

The cutter blades cut this cane off leaving much of it 6-18 inches long.



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The cut canes are usually short and can be left as mulch for the cane plants.



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The CG-100 Concord Grape Pre-Pruner

- Mechanizes canopy pruning
- Produces a healthy and active canopy
- Saves significant time and money on labor
- Produces an easily managed crop field
- Produces a higher crop yield

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CG Series 100 Pre-Pruner

FEATURES

The LOVE CG Series 100 Pre-pruner is designed to simulate the clean cut of a hand pruner as it lifts and extracts external lateral cane shoots and bull cane from single-curtain and double-curtain trellis systems. This promotes new bud growth above the cordon and discourages bud development below the cordon.

The LOVE CG Series 100 Pre-pruner is a side-mounted platform that can be mounted on a standard inter-row tractor or custom engineered to mount to a multi-function power unit.

Operated by two hydraulic cylinders, the LOVE CG Series 100 Pre-pruner is raised or lowered to maintain the same height as the cordon on the trellis and cants to provide the operator options in managing larger areas of the cordon. The horizontal distance from the cordon is determined by the driver and adjusted by moving the tractor closer to or further from the trellis.

The LOVE CG Series 100 Pre-pruner features four stages in cutting the cane. First a set of steel tines lifts the overgrown cane from the cordon towards the pre-cutter blades. Next the pre-cutter blades cut the lateral cane shoots. The third stage consists of two counter-rotating drums with rubber quelled "fingers" reaching into the remaining cane to align new and old growth. In the fourth and final stage the finish-cutter blades cut the cane to @4-8 bud count. The forward motion of the tractor is balanced against the speed of cutting and desired pre-pruning effect. Average tractor speed is 176 feet per minute (@2 mph).

SPECIFICATIONS

Height	49 ½"
Width	44 "
Length	36 "
Weight	@ 500 pounds
Height extension range	@ 32 inches
Cantor range of motion	@ 30 degrees
Hydraulic operating pressures	@ 450psi (no load), 500-800psi (under load)
Variable speed controls	@ 3.5-6gpm (adapts to variety of ground speeds)
Flow controls control)	Spooled to 5gpm (responsive efficient

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