Cameron
AUTOMATION

Quick·Chop

PUSH FEED CHOP OPTIMIZING & DEFECTING SYSTEM

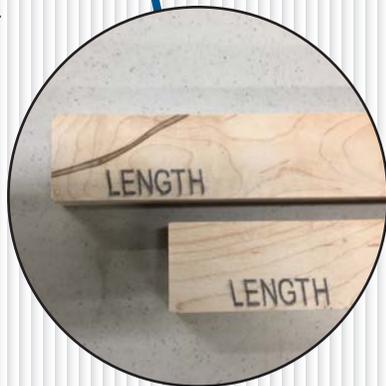## Cameron: Smarter Machines for Less Money

Cameron's two axis hold down/ pressure system produces straight cuts on bowed boards

Side pressure system uses rollers and two tier pressure system
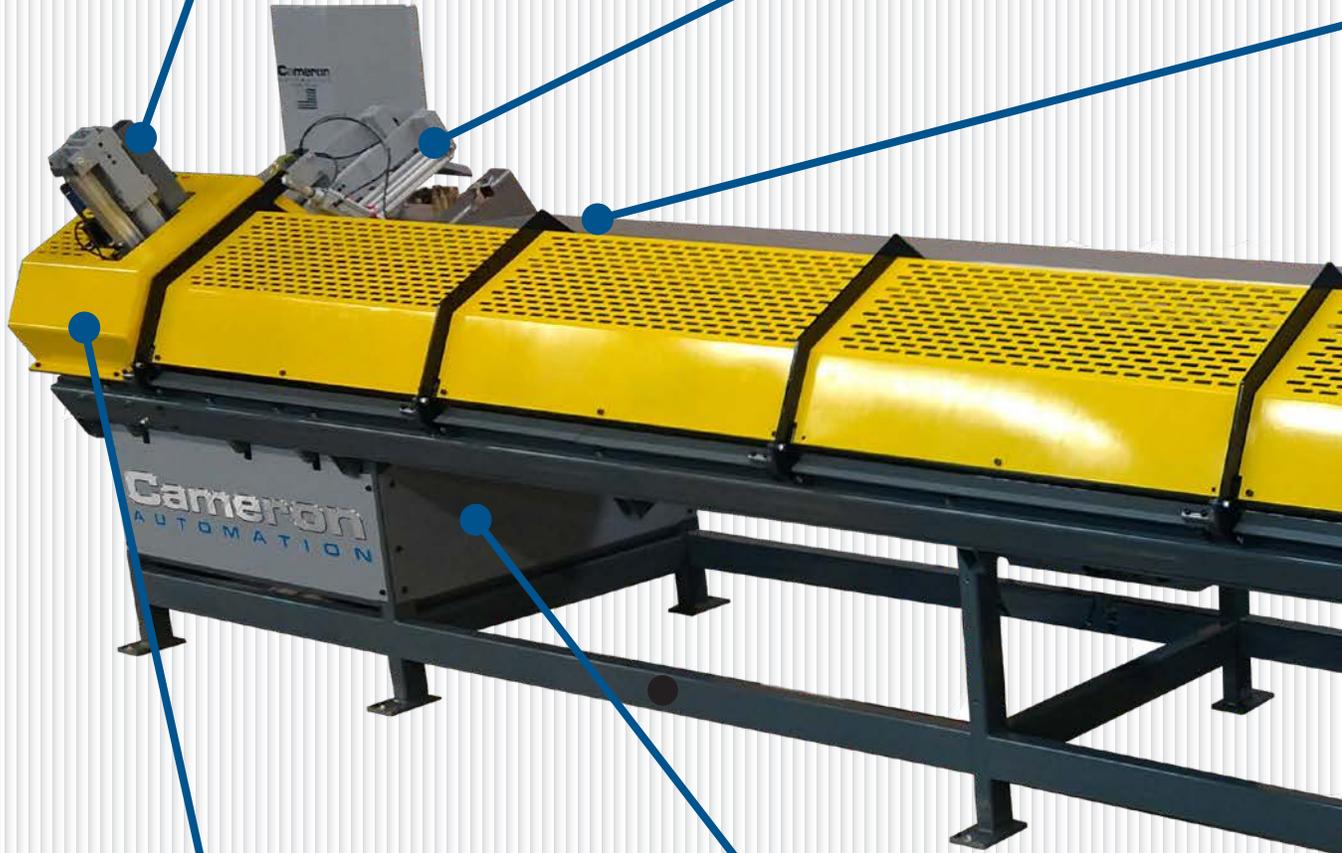
Optional printer for finished piece identification

LENGTH

LENGTH

Redesigned saw drive mechanism for straighter and better cuts
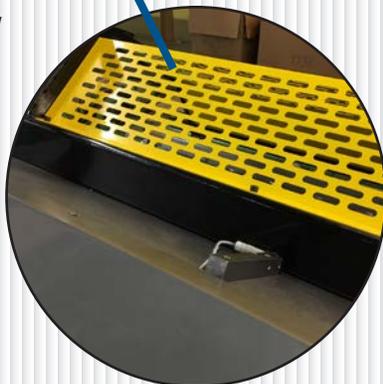
Cameron
AUTOMATION

Width Laser Sensor measure board width for multiple cut bills and production measurement.

Simple crayon marking is used to capture defects, trim and grading instructions, etc.

Automated safety guard for 100% of operating area

Heavy duty servo drives and motors for repeatability and long life

Advantages

The Quick Chop is an affordable CNC push feed chop optimization system. It is designed for the custom mid size shop looking for maximum yield and better productivity than a manual chop system.

Return on Investment

The return on investment is both material and labor. Material return is based better combinations of cuts being made by the machine and knowing the tally of previous cuts. Labor return is based on the speed of the machine and how much more quickly the Quick Chop can process material over manual up cuts.

- Quick and simple crayon marking is used for defects or grading.

- Unique design enables operator to be marking two or more boards ahead of board being chopped. This equals higher productivity.

- Higher yield through grade sharing.

- Cut length accuracy within ±.010" using optional linear encoder.

- Quick Chop has a full featured computer system, not just a keypad.

- Pneumatic saw actuator is fast and delivers a smooth cycle operation for accurate and quality cuts.

- Network with office computers to review reports and import cut lists from spread sheets and review reports.

- Welded one piece steel frame allows the Quick Chop to ship set up. Installs in an afternoon.

- Wirelessly networks with other Quick Chops and the Cameron Rip Systems to integrate tallies from your rip and chop operations.

All of these advantages add up to a fast, reliable, and easy to use chop optimization system. The Quick Chop is unquestionably the most machine for the custom mid-size shop.

User Benefits

Customers who benefit from the Quick Chop include:

Kitchen Cabinet Makers - The ability to import entire cut lists, including door parts, panel stock, frame stock, and drawer parts eliminates operator data entry error. The printer option helps the operators identify parts.

Furniture Manufacturers - The Quick Chop cuts boards accurately to the desired size consistently each and every day. Manufacturers of furniture like this as it aids in the assembly process of components. Parts simply fit.

Window and Door Producers - The pneumatic hold down cylinders are a favorite option for holding narrow stock that is used in the making of mullions for windows. The ability to turn the cylinders on or off on the fly or in the cut bill saves time and improves production.

Framing Industry - With the capability of chopping up to 20' long and up to 13" wide, the Quick Chop can easily handle heavy material. The 100% Welded Steel Frame, and powerful Servo Motor for the pusher carriage, can easily handle the weight of the heavy material.

Pallet Mills - The heavy duty frame and saw components of the Quick Chop are reliable and can manage the extremely fast repetition of cuts. The Quick Chop can endure the hostile environments.

Cut to Size Lumber Suppliers - The Quick Set feature of the software enables operators to quickly chop one board or several. A cut bill does not need to be entered or imported. With just a quick entry, a single size cut can be entered and chopped.

New #611 Technology:

- New 10hp motor option

- Better bowed board sensing

- Optional finishing or roughing blade (reduces HP requirements when cutting bowed material)

- New high speed printer that keeps up with the faster push speed.

- Optional cutting capacity for wide or thick boards

- Tilt Bar for single operator loading of long/heavy material

- Completely redesigned Holddown Method

- Cutting Capacity (Two Windows)
  18 inch Blade:
  13" x 1" to 12.5" x 2" to 11" x 4" (Thick)

  14.5" x 1" to 13" x 3" (Wide)

- Delta Servo Motor/Drive
  Faster scanning

- Fast acting side hold downs
  Straightens bowed boards

- Safety Cage over Scanning Area
  Allows faster pusher movement resulting in drastic productivity increase.

Operations

A simple set of buttons allow the operator to choose which Cut Bill to use on the board being processed. The

Quick Chop Control Buttons

Quick Chop allows the operator to stand at one position and mark defects with a fluorescent crayon. The Quick Chop determines the cut solution based on the defect crayon marks and the Cut Bill. Special marks can even be used for grading purposes. This allows multiple Cut Bills to be used on the same board.

With the Quick Chop, parts can be chopped based on a value or a required piece count, lineal feet, square feet or even panel square feet. The Quick Chop will automatically monitor the tallies of each piece and make appropriate changes to get targeted piece counts, while maintaining a high yield.

Some features of Quick Chop software include:

Chop for Value - The value of each part to be cut can be controlled by the operator. More desired parts will be assigned a higher value and less desired parts will be assigned a lower value.

Chop for Required - If you would like to eliminate the guess-work, tell our system how many of each part you need for the particular job. The software will automatically adjust the value of each part. Completed lengths are cut off once their required amounts are met.

Simulate Production Runs - While editing a Cut Bill, a simulation can be performed that will run a quantity of random length boards using the cutting bill as it's set up. The simulation outputs a report which can be useful for predicting yields and the quantity of lumber required for a job.

Software

Because the Quick Chop is designed with the custom shop in mind, the software is sophisticated yet easy to use and easy to understand. Quick Chop's software features:

• Easy data entry.

• User friendly operation.

• Monitoring of multiple cut bills.

• Cut solution shown prior to chopping.

• Chop for value, required piece count, lineal feet, Square Feet, or Panel Square Feet.

• Easily import from spreadsheets or other software.

• Simulate production runs.

• Simple point and click interface.

• Monitor production and view reports.

The Quick Chop software has the same features as other chop optimizing software costing twice as much.

Main screen of Quick Chop Software showing current cut bill and current board being chopped.

Additional Features

The Quick Chop is a heavy duty chop optimizing system designed for industrial use. The welded steel tube frame is sturdy and ensures that the machine can handle heavy material. The one piece frame allows for a fast and trouble free installation.

The software of the Quick Chop is simple to use and allows for many advantages over manual up cut saws. With the ability to import, utilize grade sharing, manage multiple cut lists, track throughput, print sizes & reference information directly onto the board, read board widths, the Quick Chop enables the custom shop to afford a full featured optimization system at a fraction of the price.

Importing from cut lists:

• Saves time in setting up

• Removes typographical mistakes

• Can be configured for any cabinet type software such as Doorlister, CabNetWare, or even specialty software.
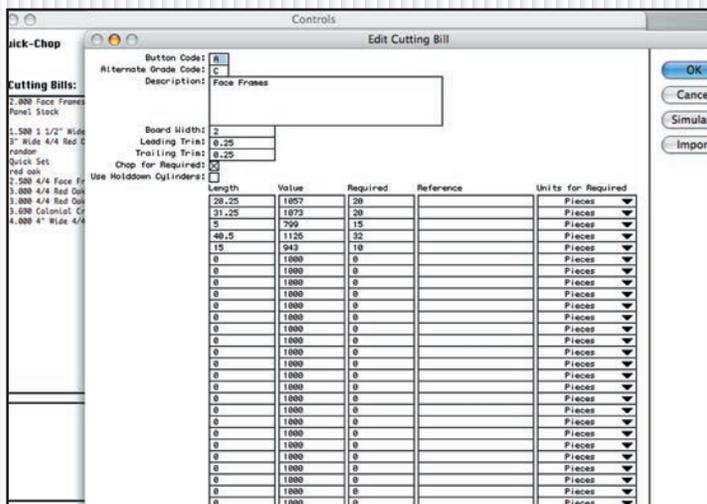
Editing Cut Bill - Import Button to Right

Grade Sharing enables the operation to:

• Run more than 1 grade of lumber simultaneously.

• Increase yield by sharing cut bills within the same board.

Printing on boards:

• Saves time by helping operators distinguish different sizes quickly.

• The printer can print the size, reference number, or cut bill.

• Print on the top face or the edge of boards.

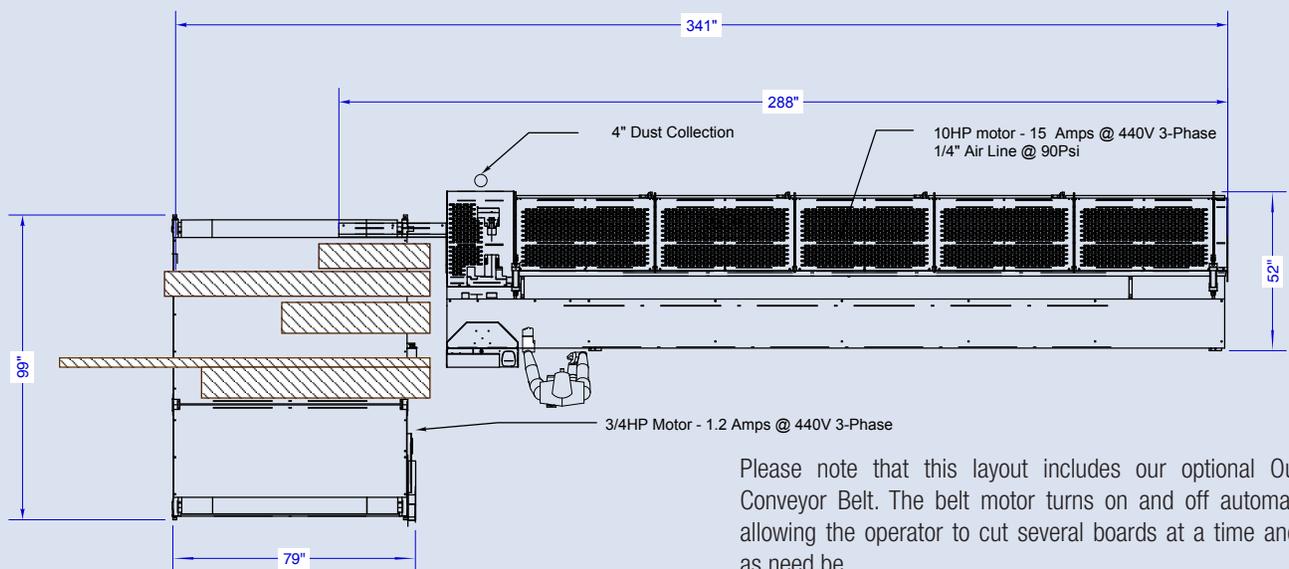Board Length Printed on Board

Board Width Sensor can:

• Help calculate panel stock for gluing

• Automatically determine which cut bill to use based on board width.

• Eliminate wasted time of operators checking the size of each board.

Board Width Sensor reading board

The Quick Chop is unquestionably the most machine for your money!

Specifications

Dimensions labeled on diagram: 341", 288", 99", 79", 52"

4" Dust Collection

10HP motor - 15 Amps @ 440V 3-Phase
1/4" Air Line @ 90Psi

3/4HP Motor - 1.2 Amps @ 440V 3-Phase

Please note that this layout includes our optional Outfeed Conveyor Belt. The belt motor turns on and off automatically allowing the operator to cut several boards at a time and sort as need be.

Machine Options

12', 16' or 20' length capacity
18" Saw Blade with 14-1/2" capacity on 4/4 material
Lineal Encoder for ± .010 cut part tolerance
Pneumatic Hold Down Cylinders for square cuts on bowed parts.
Ultrasonic Width Sensor to select cut bills automatically based on width.
Inkjet Printer for easy identification of finished parts.
Right-to-Left or Left-to-Right Orientation

Machine Specifications

	18" Quick Chop
Height (Inches)	46"
Width (inches)	45"
Length (inches)	241" (289" for 16' Machine)
Power Requirements	220 Volt 3 Phase, 30A
Air Requirements	1/4" Air Line, 5 cfm @ 80 P.S.I.
Saw Blade	18" w/ 1" Arbor
Saw arbor motor	7-1/2 HP
Dust Collection Requirements	4" Dust Port x 1, 400 CFm
Board Max Capacity	11" Wide on 4" Thickness