

CMT 330

# CHALLENGE PRODUCTS



## CMT 330 THREE-KNIFE TRIMMER





**The CMT 330 three-knife trimmer finishes soft-cover, perfect bound books at a rate of up to 400 books per hour. Designed for on-demand printing, it can be used in-line with perfect binders or off-line in a manual-feed mode. The CMT 330 lets you efficiently control the entire production process.**

**Features**

- Trimmed Book Sizes: 4" x 6" to 9" x 12"; up to 2" thick
- Available with In-line or Off-line Configurations
- Full Digital Control for Fast, Accurate Changeovers — Knives and Clamps Reposition in 15 Seconds
- Requires No Special Tools or Clampboards When Changing Book Sizes
- Computer-Controlled Servomotors Adjust Knives
- Easy to Use and Program
- Light-Touch Electronic Keypad
- Menu-Driven LCD Data/Graphic Screen
- 99-Job Memory
- Computer Diagnostics
- Minimal Maintenance Requirements
- Hydraulic Cutting
- Adjustable Clamp Pressure
- Adjustable Pneumatic Gripper Pressure
- Rugged Construction
- UL Listed (USA and Canada)

**Full Digital Control**

The CMT 330 features full digital control of the trimming process, which results in significant time savings over traditional trimmers. Just key in the starting size and the finished size, and the computer-controlled servomotors automatically adjust knives and clamps to the correct positions in only 15 seconds.



The CMT 330's control panel includes a menu-driven LCD screen that makes setup very easy. It summarizes job names, displays programming, and lets you direct other machine functions. A light-touch electronic keypad allows easy programming in decimals, fractions, or metric equivalents. Cursor controls and four selection keys speed navigation through other machine functions.

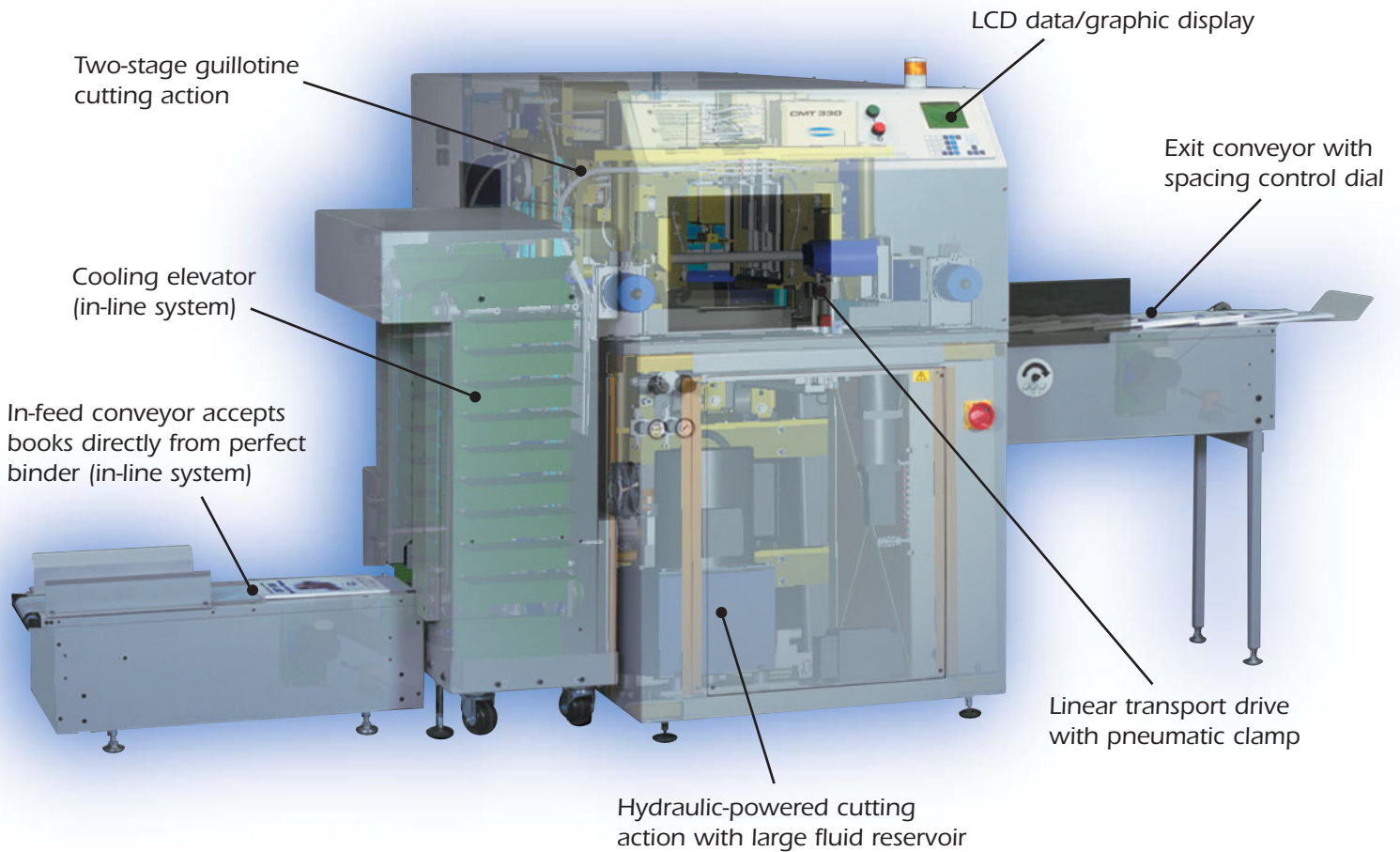
The CMT 330 can store up to 99 jobs in its memory for even faster setup. A serial communication port permits remote setup and control for in-line use in fully automated bookshop environments.



**Modular construction permits in-line (below) or off-line configurations (at left).**



# CMT 330 THREE-KNIFE TRIMMER



## Designed for Safety and Convenience

- Knives are easily accessible for fast, efficient changes. For added safety while changing knives, a custom-designed guard shields the knife edge.
- Infrared sensors monitor each of three waste bins, and generate a display on the control panel when a bin is full.
- Leveling feet provide greater stability, and are adjustable to help compensate for uneven floors.
- A multi-station cooling elevator (for in-line systems) allows ample glue setup, cooling, and drying time before books are trimmed.



## Built to Last

The CMT 330 features solid construction and requires minimal maintenance. A steel frame, large hydraulic cylinders, and heavy-duty components help ensure long life. Hydraulics offer low-maintenance, trouble-free operation.

## Capable and Reliable

The CMT 330 is designed and engineered by Challenge to offer convenience, efficiency, and durability. It's part of the Challenge family of cutters, drills, folders, and other bindery equipment. Challenge products have been crafted with pride in the U.S.A. since 1870. Our proud heritage offers you added assurance of the quality and reliability of Challenge products.

## Meeting Your Needs

Contact an authorized Challenge dealer for more information on the CMT 330 three-knife trimmer. You can count on Challenge dealers for qualified service and original-equipment Challenge parts.



# CMT 330 TRIMMER

## SPECIFICATIONS – BASE MACHINE

### GENERAL

|                          |                                            |
|--------------------------|--------------------------------------------|
| Memory                   | 99 jobs                                    |
| Time to Change Book Size | 15 seconds                                 |
| Throughput               | up to 400 books per hour                   |
| Floor Loading            | 60 PSI / 414 kPa                           |
| Waste Bin Capacity       | 3 @ 14¾ gal. per bin / 55.8 liters per bin |
| Oil Capacity             | 5 gallons / 19 liters                      |
| Air Consumption          | 5 CFM @ 80 PSI / 142 LPM @ 5.5 Bar         |
| Knife Re-grind           | ¼" / 6.4 mm                                |

### PERFECT BOUND BOOK SIZE

|                         |                             |
|-------------------------|-----------------------------|
| Starting Size (maximum) | 9½" x 12½" / 241 x 317.5 mm |
| Starting Size (minimum) | 6" x 7" / 152.4 x 177.8 mm  |
| Finish Size (maximum)   | 9" x 12" / 228.6 x 304.8 mm |
| Finish Size (minimum)   | 4" x 6" / 101.6 x 152.4 mm  |
| Trim Amount (minimum)   | ⅛" / 3.2 mm                 |
| Face Trim (maximum)     | 5½" / 140 mm                |

### ELECTRICAL – Standard

|                |                                                                                                                                                                     |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standard Motor |  5 HP, Three Phase, 60 Hz, AC<br>208/230 Volts, 25 Amps<br>(service size: 30 Amps) |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|

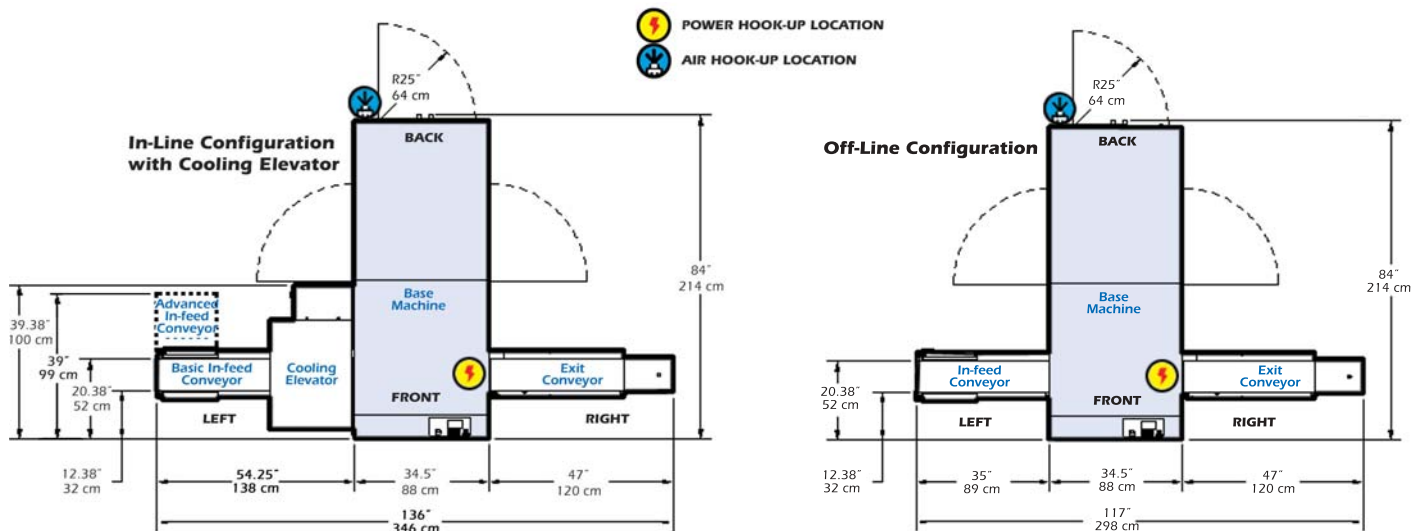
### ELECTRICAL – Optional

|                |                                                                                          |
|----------------|------------------------------------------------------------------------------------------|
| Optional Motor | 5 HP, Three Phase, 50 Hz, AC<br>380/415 Volts, 10 kW, 12 Amps<br>(service size: 15 Amps) |
|----------------|------------------------------------------------------------------------------------------|

## SPECIFICATIONS – COMPONENTS

| COMPONENT                                                  | Overall Height | Overall Width | Overall Depth | Net Wt. (approx.)  | Shipping Wt. (approx.) |
|------------------------------------------------------------|----------------|---------------|---------------|--------------------|------------------------|
| <b>Base Machine</b>                                        | 61" / 155 cm   | 34½" / 88 cm  | 84" / 214 cm  | 2540 lbs / 1140 kg | 2850 lbs / 1300 kg     |
| <b>In-Feed Conveyor - Basic (In-line Configuration)</b>    | 17½" / 45 cm   | 35½" / 90 cm  | 12⅛" / 31 cm  | 68 lbs / 31 kg     | 130 lbs / 59 kg        |
| <b>In-Feed Conveyor - Advanced (In-line Configuration)</b> | 26" / 66 cm    | 40" / 102 cm  | 29" / 74 cm   | 150 lbs / 68 kg    | 230 lbs / 105 kg       |
| <b>Cooling Elevator (In-line Configuration)</b>            | 45½" / 116 cm  | 21½" / 55 cm  | 37" / 95 cm   | 335 lbs / 152 kg   | 470 lbs / 214 kg       |
| <b>In-Feed Conveyor (Off-line Configuration)</b>           | 44" / 112 cm   | 35" / 89 cm   | 12⅛" / 31 cm  | 95 lbs / 43 kg     | 220 lbs / 100 kg       |
| <b>Exit Conveyor</b>                                       | 39½" / 101 cm  | 47" / 120 cm  | 12⅛" / 31 cm  | 85 lbs / 39 kg     | 210 lbs / 95 kg        |

Challenge reserves the right to make changes to any product or specification without notice and without incurring responsibility to existing units.  
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NOTE: Combined dimension for the in-feed conveyor and cooling elevator shown in illustration does not match specification chart due to component overlap when assembled.

For detailed information on Challenge products, call your local Challenge dealer, or for the dealer nearest you contact:

**The Challenge Machinery Company**

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**231-799-8484**

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