

**CHALLENGE**

**CMT 330**

# THREE-KNIFE TRIMMER



**ASSURANCE YOU MADE THE RIGHT DECISION**



# CMT 330 THREE-KNIFE TRIMMER

The CMT 330 Three-Knife Trimmer finishes professional quality soft-cover perfect bound solution, the NEW near-line solution now offers the convenience of trimming books from modules. The CMT 330 is flexible to adjust to your production needs now and in the future.

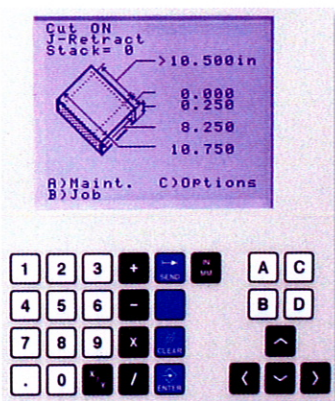
## CMT 330

### 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 under 20 seconds.

The CMT 330's control panel includes a menu-driven LCD screen that makes setup 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 menu - prompted selection keys speed navigation through other machine functions.

The CMT 330 can store up to 99 jobs for even faster set-up. Complete job set-up is achieved on a single screen. Simply enter the five required dimensions of the job at the respective graphical prompts on the display. Push the "send" key and in less than 20 seconds, your book block is ready to be cut.



INTUITIVE USER INTERFACE

### 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.
- Strategically placed windows and clear safety shields allows convenient and safe operator viewing of machine while in operation.

### 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 and 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.

### OPTIONAL BARCODE DRIVEN SET-UP

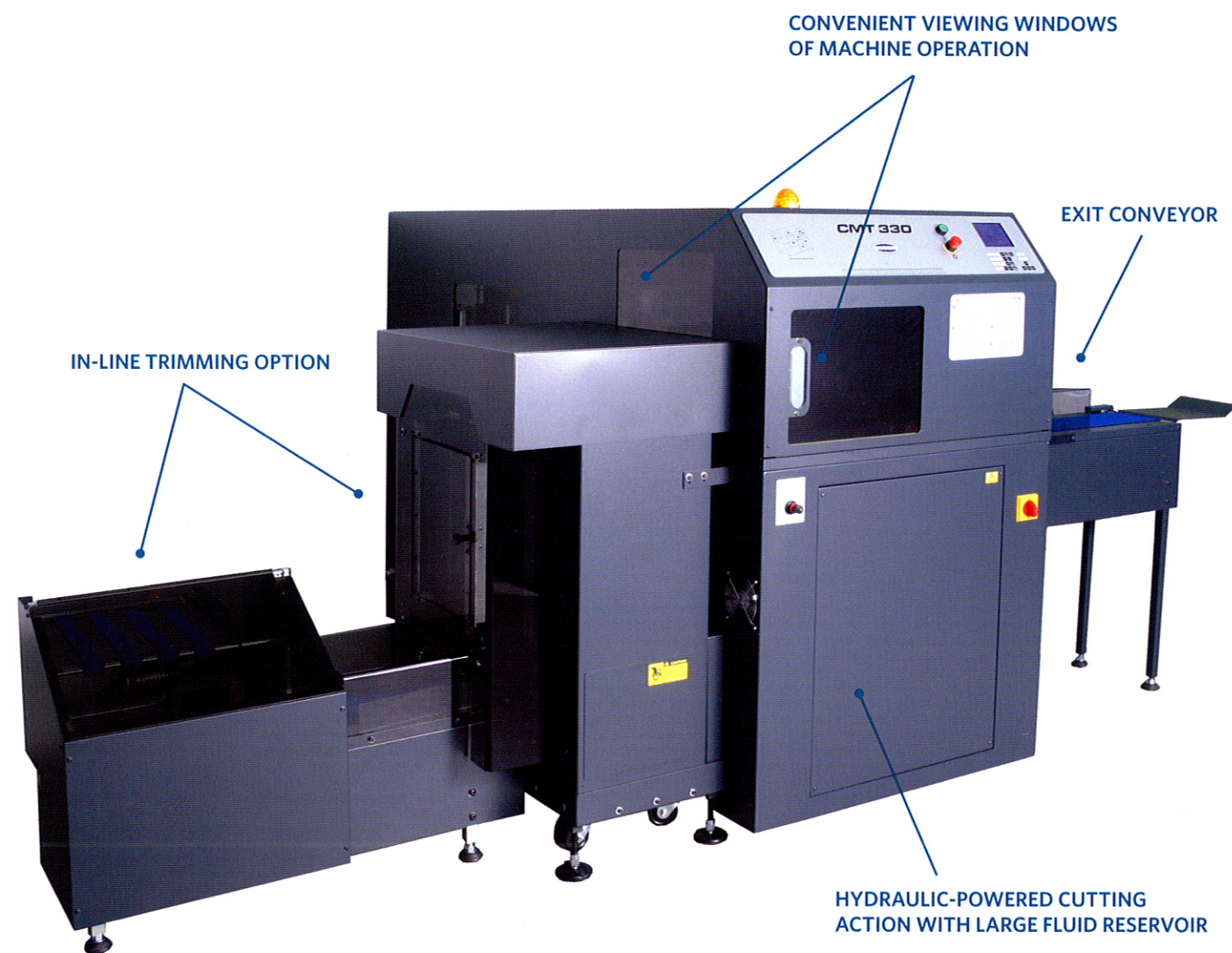
The Challenge CMT series of On-Demand Book Trimmers *exclusively* offers *true fully automated book-of-one production trimming* with the new *optional Tx<sup>®</sup> control system*. Utilizing barcodes printed on the book cover, job dimensions are sent to the trimmer for complete automatic set-up requiring zero operator intervention.

### FEATURES

- Trimmed Book Sizes: 4" x 5.9" to 9" x 12"; up to 2" thick
- Full digital control for fast, accurate changeovers - knives and clamps reposition in under 20 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 (US and Canada) and meets CE requirements.



books. Incorporating much of the same technology as the CMT 330 in-line multiple binders with the NEW optional book pile feeder and vertical stacker is offering you the assurance you made the right decision!



## OPTIONS

- Book pile feeder - automatically feeds up to 35.5" book piles with no operator intervention.
- Vertical Stacker - automatically stacks up to 24" of finished books with no operator intervention.
- Multiple book upgrade - allows for up to 3 book blocks, 1" tall to be trimmed in a single cycle.
- High speed size change - allows for book size changes in 6 seconds.
- External waste system - disposes trim waste to external collection containers or systems to reduce down time.
- Bar Code size changes. Capable of 1-D and 2-D.
- In-Line finishing capabilities.
- Exclusive DMD5X Knives maintain sharpness up to 5 times longer than HSS knives.



# CMT 330 THREE-KNIFE TRIMMER

## SPECIFICATIONS - BASE MACHINE

- Memory: 99 jobs
- Time to Change Book Size: Under 20 seconds
- Throughput: \*Up to 400 books per hour
- Floor Loading: 60 PSI/ 414 kPa
- Waste Bin Capacity: 3@14-3/4 gal. per bin / 55.8 liters per bin
- Oil Capacity: 5 gallons/19 liters
- Knife Re-grind: 1/4"/6.4 mm
- Air Consumption: 7 CFM @ 90 PSI/ 198 LPM @ 5.8 Bar

\*Multiple book option - throughput up to 900 books per hour.

## PERFECT BOUND BOOK SIZE

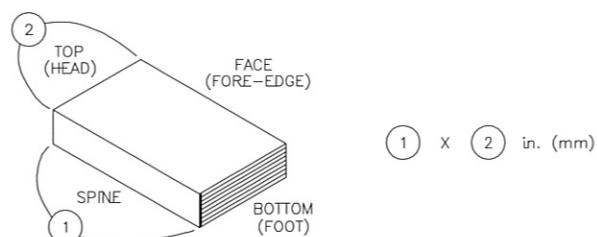
- Starting size (maximum) 13" X 9-1/2" / 330 mm X 241 mm
- Starting size (minimum) \*See configurations below
- Finish size (maximum) 12" X 9" / 305 mm X 229 mm
- Finish size (minimum) 5.82" X 4" / 148 mm X 102 mm
- Trim amount (minimum) 0.100" / 2.5 mm
- Face trim (maximum) 5-1/2" / 140 mm

## ELECTRICAL

- Motor: 5 HP, Three Phase, 60 Hz, AC 208/230 Volts, 25 Amps (service size: 40 Amps)
- Optional Motor: 5 HP, Three Phase, 50 Hz, AC 380/415 Volts, 10 KW, 12 Amps (service size: 15 Amps)

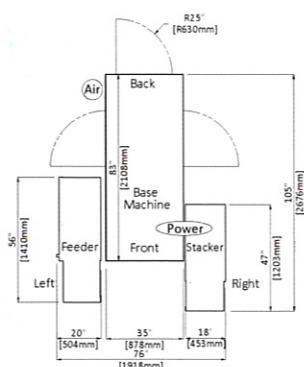
## AIR SUPPLY

- This machine requires a "dry-non lubricated" air source capable of supplying a MINIMUM of 7 CFM (198 LPM) and remain at a CONSTANT 90 PSI minimum (5.8 Bar/620 kPa)



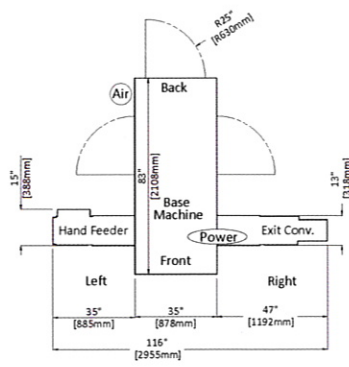
## SPECIFICATIONS - COMPONENTS

COMPONENT	HEIGHT	WIDTH	DEPTH	NET WT. (approx.)	SHIPPING WT. (approx.)
Base Machine	61" / 155 cm	34-1/2" / 88 cm	84" / 214 cm	2540 lbs/ 1153 kg	2850 lbs/ 1293 kg
Basic In-Feed Conveyor (In-Line Configuration)	17-1/2" / 45 cm	35-1/2" / 90 cm	12-1/8" / 31 cm	68 lbs/ 31 kg	130 lbs/ 59 kg
Adv. In-Feed Conveyor (In-Line Configuration)	26" / 66 cm	40" / 102 cm	29" / 74 cm	150 lbs/ 68 kg	230 lbs/ 105 kg
Cooling Elevator (In-Line Configuration)	45-1/2" / 116 cm	21-1/2" / 55 cm	37" / 94 cm	335 lbs/ 152 kg	470 lbs/ 214 kg
In-Feed Conveyor (Near-Line Configuration)	44" / 112 cm	35" / 89 cm	12-1/8" / 31 cm	95 lbs/ 43 kg	220 lbs/ 100 kg
Exit Conveyor	39-1/2" / 101 cm	47" / 120 cm	12-1/8" / 31 cm	85 lbs/ 39 kg	210 lbs/ 96 kg
Book Pile Feeder	53-23/32" / 136 cm	20-9/32" / 52 cm	56-1/8" / 143 cm	370 lbs/ 168 kg	420 lbs/ 191 kg
Vertical Stacker	43-5/32" / 110 cm	18" / 46 cm	35" / 89 cm	215 lbs/ 98 kg	265 lbs/ 120 kg



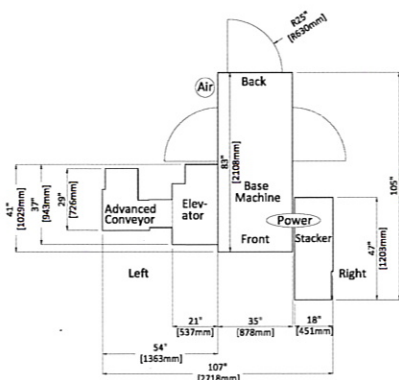
### NEAR-LINE CONFIGURATION

Book Start Size (minimum)  
7" x 5" / 178 mm x 127 mm (single)  
7" x 7" / 178 mm x 178 mm (multiple)



### HAND-FEED CONFIGURATION

Book Start Size (minimum)  
7" x 5" / 178 mm x 127 mm



### IN-LINE CONFIGURATION

Book Start Size (minimum)  
7" x 6-3/4" / 178 mm x 171 mm



ADV-010/4000/GPCO/0710

## THE CHALLENGE MACHINERY COMPANY

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