

Three-knife Trimmer 3670 – Superior output and quality in book production

Smooth running and constant cutting speed for less wear

The Model 3670 Three-knife Trimmer offers you outstanding capabilities:

- superior trim quality
- quick size changeover
- short makeready
- long knife life
- convenient operator controls
- maximum versatility for soft and hard cover books
- efficient operation

The MÜLLER MARTINI 3670 Trimmer is a heavy-duty machine designed for multishift operation, with automatic knife stroke control for extended knife life. Quickchange cutting tables and the swiveling operator console make size changeover fast and easy. The 3670 is the market leader for soft and hard cover book production.

Outstanding features:

· precise trimming

Trimming in a single station against cutting sticks while the book is stationary. Head and foot cutting action is towards the front edge, and the front cut is cam-controlled for increased shearing action.

quick changeover
 Cutting tables are prepared away from the machine and are locked into place without tools in

minutes.

large trim cut-off range
Head, foot and face trim is
variable from 3 mm to 40 mm
(1/4" to 15/4")

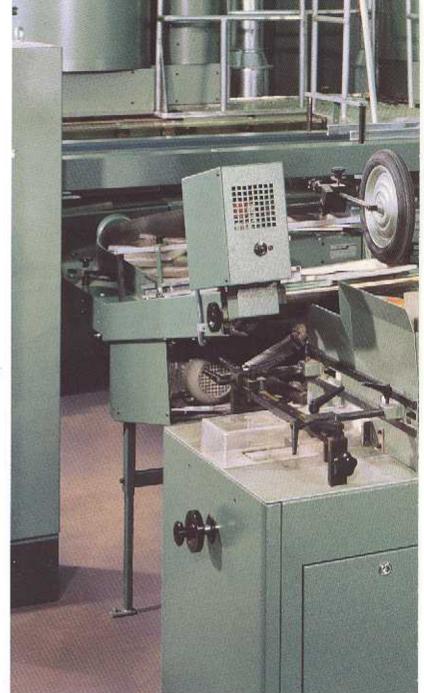
· efficient trim removal

Narrow cutting sticks, built-in air blow-down nozzles and unobstructed design assure reliable trim removal. Trim segregation is available.

· long knife life

Automatic knife stroke control prevents contact with cutting sticks if no book is present.

adjustable clamp pressure
 Clamp pressure across the entire book is pneumatically adjustable while the machine is running.



thin book capability

Products as thin as 3 mm (1/s") can be reliably processed with special pusher plate.

· central hopper adjustment

Hopper, pusher, stack retainer and top belts are simple to adjust by handwheels.

positive book infeed

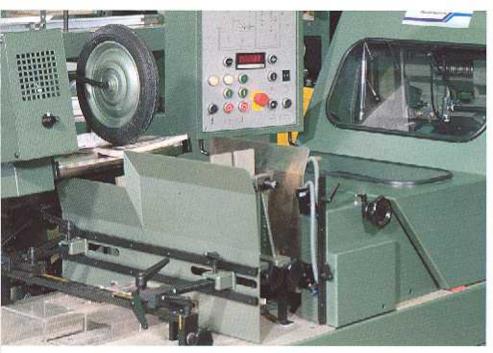
Single or stacked products are held securely between driven top and bottom belts.

· swiveling operator console

Programmable Logic Controller with fault readout for convenient operation

The Key details

In book production, makeready and changeover times on downstream machines are as important as they are on the gathering machine and the perfect binder.





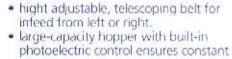
- by spindle, in a thickness range of 3 mm to 70 mm (1/2" to 23/4")
- · retainer for stack advance is adjustable by handwheel.

The most efficient workflow and space utilization, simple adjustments and gentle product handling are key advantages.

Time-saving, quick-change cutting table

- cutting table cassettes are prepared in advance, away from the machine.
- pneumatically controlled locking and
- positioning, without tools.
 narrow cutting sticks ensure efficient. trim removal.
- square, narrow cutting sticks (10 mm x 10 mm / ½, x ½, *) can be used 8 times before changing
- cutting table cassettes are available for sizes from 100 x 112 mm (4" x 41/s") to 410 x 420 mm (161/4" x 16 /4")
- optional cabinet for cassettes

The quick-change cutting table cassettes ensure fast changeover. The wide range of cassettes covers all book sizes. Fourteen commonly-used sizes are furnished with the trimmer.



Efficient Infeed

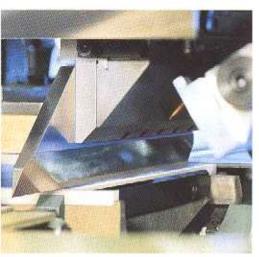
pile height. gentle buffering of products entering the hopper.

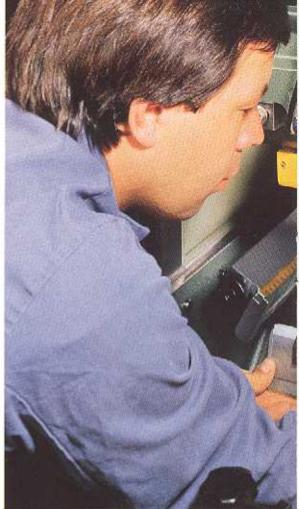




- heavy-duty knife holders for outstanding stability.
- knife strake control prevents knives from contacting cutting sticks if no book is present.
- cycle speed is maintained during short interruptions of production flow to prevent stop-and-go motion.
- choice of steel or carbide knives.

The MÜLLER MARTINI patented cutting principle dramatically increases knife life and reduces operating costs



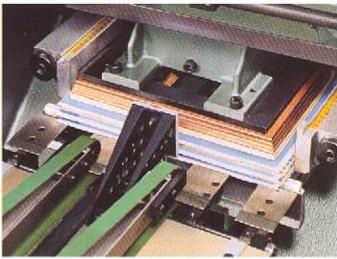






Accurate Cutting Station

- · pneumatically adjustable pressing.
- all three sides are trimmed against cutting sticks in one station, with head and foot cutting action towards the front edge.
- cam operated slicing motion at front known
- patented trimming system with cam-controlled front knife stroke control.



Precise Book Infeed

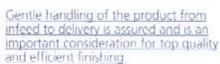
- books enter the knife station under positive control of driven top and bottom belts.
- a pusher ensures accurate positioning of the book between front and side stops.
- books automatically slow down as they approach the front stops to prevent bouncing.
- precise, lateral alignment prior to clamping in the cutting station.
- motorized adjustment of stops for size changes.

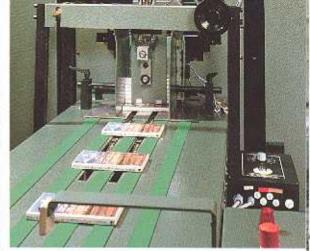
The Three-knife Trimmer 3670 ensures neat, square trimming of thin as well as thick products, simply and efficiently.

- trim cut-off adjustable from 3 mm to 40 mm (½" to 1½") on all three sides.
- quick knife change, with set screws for fine adjustment of the knives
- adjustable air blast nozzles in the knife holders ensure efficient trim blow down.
- large-diameter, central trim removal pipe with sliding window.
- optional trim segregation for head/ foot and face trim
- silicon spray for side knives (optional)

Low acceleration speeds and smooth movements based on the patented cutting system ensure superior trim quality with minimal wear.







Positive Delivery

- the trimmed product is securely clamped between independently driven belts.
- gentle handling of books in single or collect mode.
- positive delivery of trimmed loose-leaf work.
- quick and simple set-up

In-line finishing

- optional destacking device for products which are trimmed in collect mode, but must be processed individually, for example by an inserting machine (as shown) or for single-copy addressing.
- direct transfer to PrintStack CB-16 Stacker.
- compatible with machines requiring single-copy infeed.
- suitable for processing stacks of thin products.

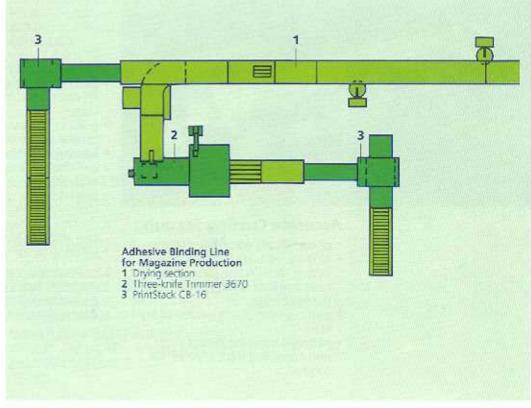
Finishing is tailored to individual needs for efficient production flow.



Swivel-mounted operator console

- user-friendly programmable controller.
- digital display with fault diagram for quick reference.
- size-independent book control.
- blast air is automatically switched off if a book is missing for three consecutive cycles.
- automatic switchover to standby mode after 90 seconds.
- simulation mode for activating each valve and for testing machine.

Conveniently arranged controls ensure reliable and easy operation—an important requirement for achieving high output.



PrintStack CB-16, the ideal stacker for the Three-knife Trimmer 3670

Adhesive bound book blocks for hard cover production, soft cover books, magazines, paperbacks, mail order catalogs and telephone directories – PrintStack CB-16 handles all these products gently and stacks them efficiently.



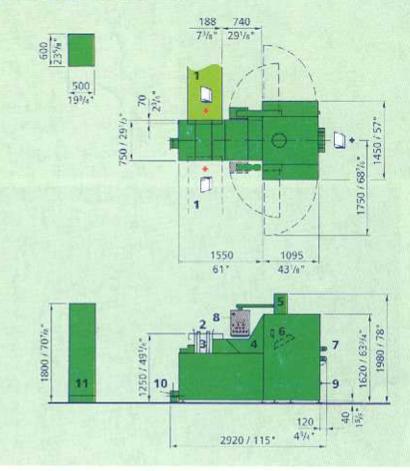
High-performance PrintStack CB-16

- High production capacity: up to 16,000 cycles/hr.
- Quick makeready, central adjustment by handwheels.
- Outstanding stack quality: essential for efficient packaging and palletizing
- Wide size range: from a 3 mm ("/-") magazine to a 60 mm (2"/-") telephone directory.
- Choice of stacking, compensated or uncompensated, depending on type of product and finishing requirements

- Deliveries to meet layout and workflow requirements: for manual take-off or in-line processing.
- Programmable controller with alphanumeric display: for easy interactive programming of production parameters by operator.
- Movable casters and plug-in connections for use on various production lines

The PrintStack CB-16 is a must for an efficient, modern bindery.

High-speed Three-knife Trimmer 3670



- Telescoping accelerating belt (infeed from left or right)

- 2 Hopper 3 Book pusher 4 Infeed to knife station 5 Pneumatic cylinder 6 Knife station

- 7 Delivery 8 Swiveiling operator console 9 House air connection 10 Trim removal pipe

- 11 Electrical cabinet

Specifications:

Specifications	*						
Mechanical speed	2,200 - 6,600 cycles/hr.						
Untrimmed sizes	min.:	146 mm	(57/4")	(A + ZE)	x 103 mm	(4 1/15")	(B+D)
	max	440 mm	(17°/A")	(A + 2E)	x 350 mm	(13 ³ / ₄ ")	(B+D)
Trimmed sizes	min:	140 mm	(5/2")	(A)	x 100 mm	(315/15")	(B)
	max.:	420 mm	(16 1/2")	(A)	x 310 mm	(125/16")	(B)
Book thickness (C)	min.:	3 mm	(1/4")	_			
	max.:	70 mm	$(2^3/4")$			The same of the sa	TC
Trim cut-off (D)	min.:	3 mm	("/s")	- 15	-		Carrier Control
	max.:	40 mm	(13/5")			The state of the s	
Trim cut-off (F)	min.;	3 mm	(1/2")	В			3
	max.:	40 mm	(15/2")		b	محرقي.	
Small size capability	min.:	110 mm	(45/15")	x 75 mm	(215/16*)	(factory i	nstalled option only)
Power consumption		12 kW					
Air connection	40 Nm³/hr., 6 bar (24 cfm, 87 psi)						
Weight -	approx, 3	3,800 kg	(8,360 lbs.)				
Dynamic floor load	20 x 10° N/m²						

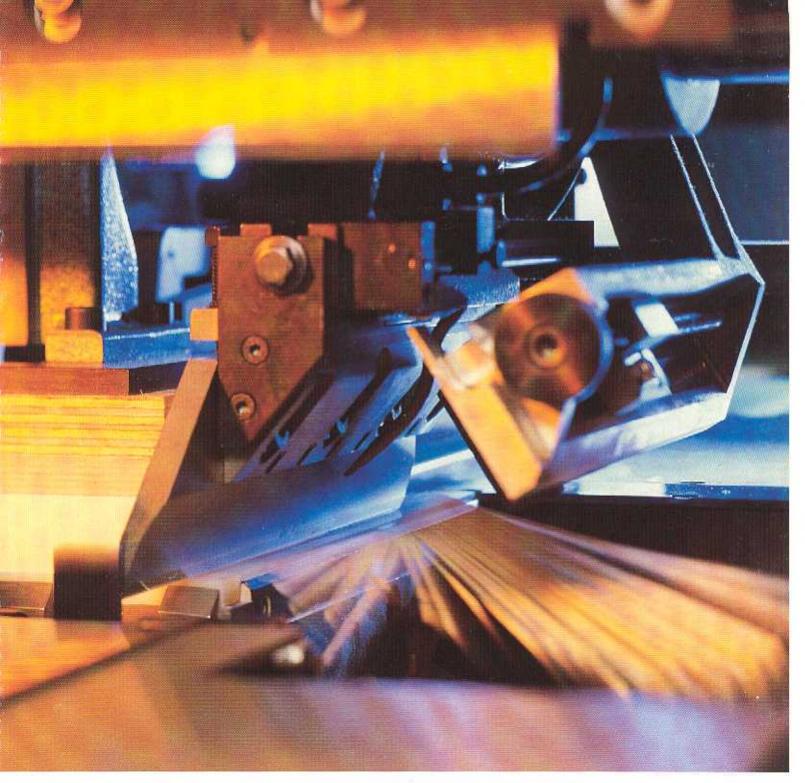
Design, specifications and measurements subject to change.

MÜLLER MARTINI

Sales and service

MULLER MARTINI CORP. Plant Address: 40 Rabro Drive, Hauppauge, NY 11788

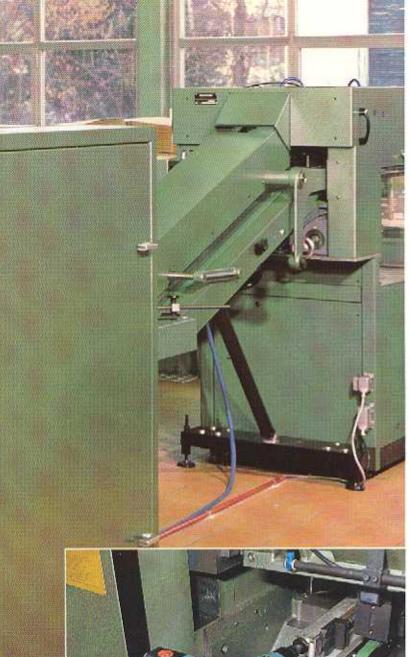
Mailing Address. P.O. Box 3360 Phone (516) 582-4343, Fax (516) 582-5736 Smithtown, NY 11787-0811



Three-Knife Trimmer 3670 – for unparalleled output and quality in book production



Automatic Knife Stroke Control for Maximum Knife Life



Outstanding features

For books and book blocks

Offering the high trim quality and output demanded by manufacturers of soft as well as hardcover books.

Trim accuracy

Trimming in one station against cutting sticks while the product is stationary and registration to the spine provide the highest trim accuracy.

Large trim-off range

3 to 40 mm (1/8" to 19/16") on all three sides

Long knife life

The automatic knife stroke control prevents knives from contacting the cutting sticks when no book is present.

Accurately adjustable clamp pressure

Clamp pressure is adjustable even while the machine is running.

Thin products

Products as thin as 3 mm (1/a") can be reliably processed using a special shuttle plate.

Central hopper adjustment

Hopper, shuttle, book retainer and top belt are simple to adjust.

Positive book infeed

Single or stacked products are held securely between independently driven top and bottom belts.

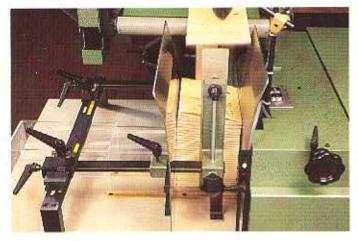
In-line or off-line operation

The feeder can be loaded manually or books can be fed by infeed belt, directly from the binder.

- high productive capacity
- outstanding trim quality
- maximum versatility for hard and soft cover books

are fulfilled by the high-performance Three-Knife Trimmer 3670. Heavy-duty construction for round-the-clock operation, smooth running at top speed, the unique cutting principle using computer designed cams and automatic knife stroke control make this machine a leader in book manufacturing.

Important Requirements of a Three-Knife Trimmer The Model 3670 has set new standards in book trimming technology. It is an important modular component for achieving exceptional product quality efficiently and economically.



The Efficient Hopper

- loading from the left or right, manually or automatically
- large-capacity hopper with built in photoelectric control ensures constant stock height
- gentle handling of products entering the hopper
- simple, wrenchless adjustments on snales

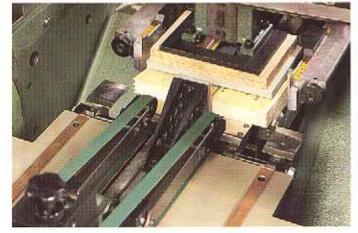
The most efficient workflow and space utilization, simple adjustments and gentle product handling are key advantages.



Central Feeder Adjustment

- by spindle, in a thickness range of 6 mm to 65 mm (¼" to 2½"), and between 3 mm and 65 mm (¼" to 2½") using a special shuttle plate
- · retainer for book or stack advance is adjustable by handwheel
- top inteed belt and transport rollers are hydraulically adjustable by a handwheel

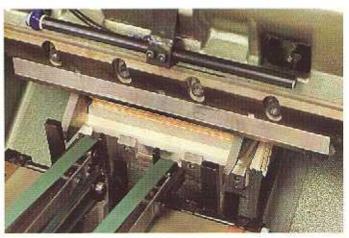
Size changeover without tools or complicated set-up aids reduces makeready and assures maximum efficiency at lowest operating costs.



Precise Book Infeed

- books enter the trimming station under positive control
- a pusher ensures accurate positioning of the book between front and side stops
- books automatically slow down as they approach the front stops to prevent bouncing
- precise, lateral alignment prior to clamping.
- register stops are adjusted on scales

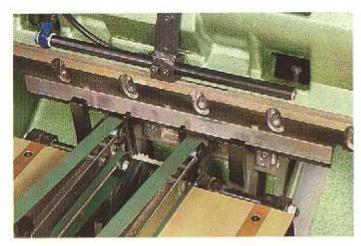
Precise infeed of the book into the cutting station is the key to accurate and square trimming. The Three-Knife Trimmer 3670 fulfills this requirement for all product thicknesses.



Accurate Cutting Station

- mechanically controlled clamp with pneumatically adjustable pressure
- pressing block extends over the entire product
- all three sides are trimmed against cutting sticks in one station
- patented trimming system with unique front knife control
- head/foot and face trim of 3 40 mm (/s" 1%s")
- quick knife change
- · set screws for fine adjustment of the knives
- · gauge for pre-setting of the knives outside the machine
- adjustable air blast nozzles in the knife holders ensure efficient trim blow down
- large-diameter, central trim removal pipe with externally adjustable damper

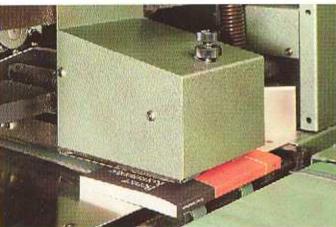
Low acceleration speeds, smooth movements and minimal wear are direct results of the patented operating principle.



Long Knife Life

- knife control prevents knives from contacting cutting sticks if no book is present
- cycle speed is maintained during short interruptions of production flow Trimmer is always ready – continual starting and stopping is eliminated
- · choice of steel or carbide tipped knives.

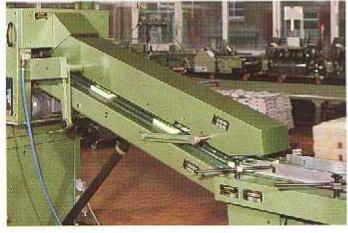
This trimming principle, pioneered by MÜLLER MARTINI, results in a dramatic increase in knife life and reduces operating costs.



Positive Delivery

- the trimmed product is securely clamped between independ ently driven belts
- · gentle handling of books in single or collect mode
- · positive delivery of frimmed loose-leaf work
- quick and simple set-up by means of a single, easily accessible set sinew

The gentle handling of the product from infeed to delivery is assured and is an important consideration in book production.

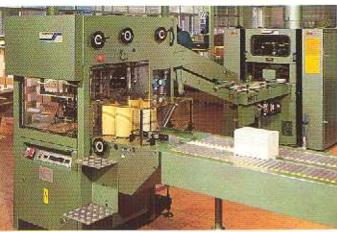


In-line Finishing

 PrintStack CB-15 Stacker can operate in-line with the trimmer and handles single copies or stacks of thin products.

NEW

 a de-stacking device is optionally available for products which are trimmed in collect mode, but must be processed individually.

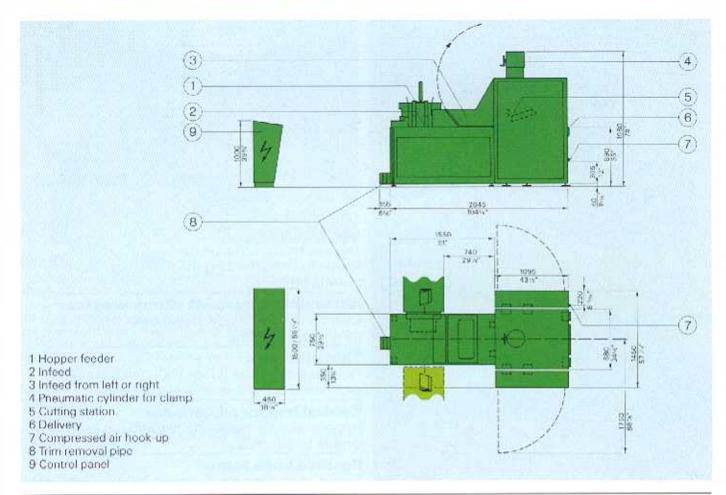


Advantages of the PrintStack CB-15:

- quick size changes without tools
- independently driven top and bottom infeed belts for gentle product handling
- compensated or uncompensated stacks
- choice of deliveries ensures finishing flexibility.
- programmable control system to meet diverse production requirements

The Three-Knife Trimmer 3670 and the PrintStack CB-15 add the perfect finishing touch

Three-Knife Trimmer 3670

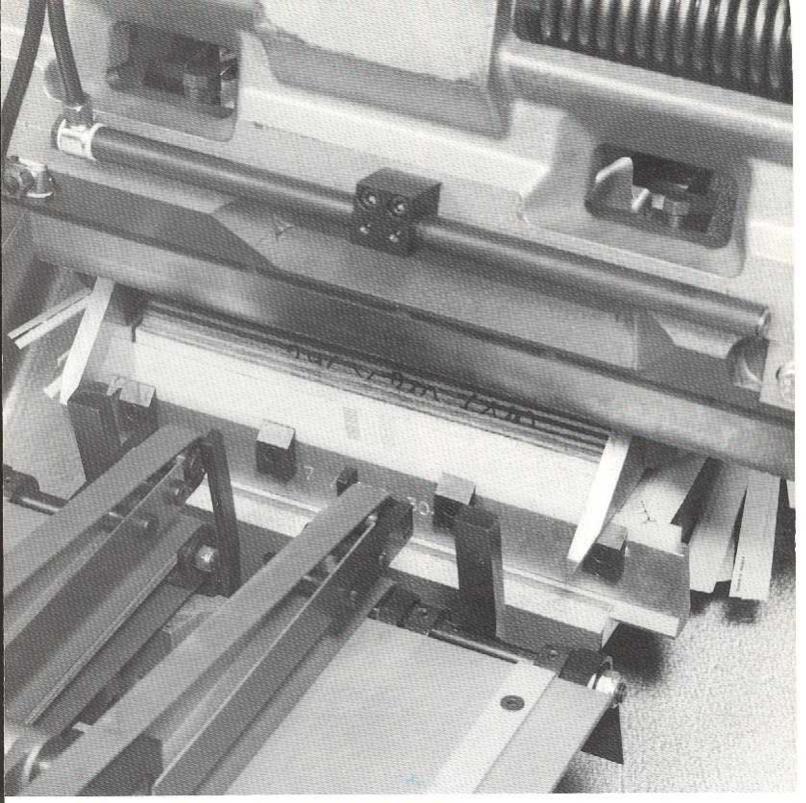


Specifications			
Mechanical speed	min.	2,000 cycles/hr	
	max	6,600 cycles/hr	
Power consumption		11 kW	
Trim capacity	min.	3 mm / 1/4"	
	max.	70 mm / 2¾°	
Head/foot and face trim	min	3 mm / 1/6"	
	max.	40 mm / 1%s"	
Sizes		spine length	width
untrimmed	max.	410 mm / 161/s"	320 mm / 12%*
with short knives	max	350 mm / 13¾4"	250 mm / 9%°
trimmed	min.	140 mm / 5½*	100 mm / 4"
	max.	400 mm / 15¾*	310 mm / 121/4"
with short knives	max.	340 mm / 13¾"	240 mm / 9½*
Other sizes on request			

Design, specifications and measurements subject to change

Sales and Service:

MÜLLER MARTINI Corp. 40 Rabro Drive, P.O. Box 3360, Hauppauge, N.Y. 11 787 Phone 516582 4343, Tolex 144 696 Telefax 516 348 1961



Three-Knife Trimmer 3670 – for unparalleled output and quality in book production.

Now furnished with quick-change cutting table.

Dramatic reduction in changeover times

In book production, makeready and changeover time on downstream machines are as important as they are on the gathering machine and adhesive binder. Size changeover on the Three-Knife Trimmer 3670, which has established a reputation for quality trimming and high output, has now been made significantly easier by the addition of a quick-change cutting table. Tables are prepared in advance, away from the machine. They are quickly inserted in the machine and pneumatically locked into position.



Timesaving advantages

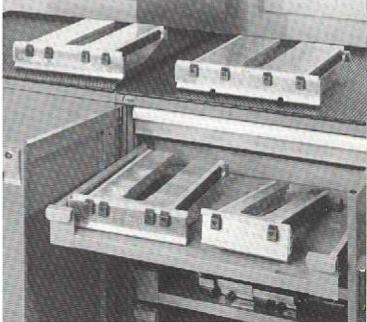
- cutting tables are exchanged in minutes
- pneumatically controlled locking and positioning, without tools
- cutting sticks and tables are prepared away from the machine
- use of narrow cutting sticks ensures efficient trim removal





Fast and reliable

cutting sticks are changed away from the machine
 all four sides of the square (10 mm x 10 mm – ½" x ½") cutting sticks can be used



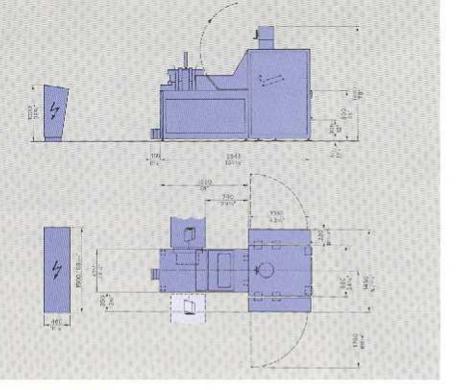
Size range of cutting tables

Cassette number	Size range 3.93"_ 4.4"	Parts list number	Size
1	100-112		
2	112-124	3670.0116	Small (optional)
3	124-136		0
4	136-148		
5	148-160		
6	160-172		
7	172-184		
8	184-196		
9	196-208		
10	208-220	3670.0117	Standard
11	220-232		
12	232-244		
13	244 256		
14	256-268		
15	268-280		
16	280-292		
17	292-304		
18	304-316	3670.0125	
19	316-328	3670.0126	
20	328-340	3670.0127	
21	340 352	3670.0128	
22	352-364	3670.0129	Large (optional)
23	364-376	3670.0130	8/ 8/ = 2/=
24	376-388	3670.0131	
25	388-400	3670.0132	
26	400-412	3670.0133	
27	412-420	3670.0134	

Designed for any size requirement

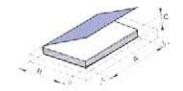
- 14 cutting tables are standard
 10 cutting tables for sizes greater than A4 or greater than 8 ½" x 11"
- (optional)

 3 cutting tables for small sizes (optional)
- storage cabinet for up to 14 cutting tables (optional)



Specifications:

Mechanical speed	2200-6600 cycles/h				
Set-up speed	2000 cycles/h				
Untrimmed sizes	min. 14 53	6 mm (A+2	E) x 103 mm (B+D) x 4½5"		
	max. 44 1'5	0 mm (A+2	2E) x 350 mm (B+D) x 1'15/4"		
Trimmed sizes	min. 14 51/		x 100 mm (B) x 4"		
	max. 42 1'4	0 mm (A)	x 310 mm (B) x 1'/4"		
Book thickness (C)		3 mm / ½" 0 mm / 2¾	W.		
Trim (D)	min, 3 mm / ½" max. 40 mm / 1½"				
Trim (E)	mîn. 3 mm / ½" max. 40 mm / 1½"				
Small size capability (factory installed option only) trimmed	min. 110 mm x 75 mm 4 ³ / ₈ " x 3"				
Power consumption	12 kW				
Drive	11 kW				
Maximum clamping pressure at 5 bar (74 psi)	20	,000 N (440	00 lbs.)		
Weight	approx. 3800 kg (8360 lbs.)				
Dynamic floor load 20 x 10 ³ N/m ²					



Sales and service