

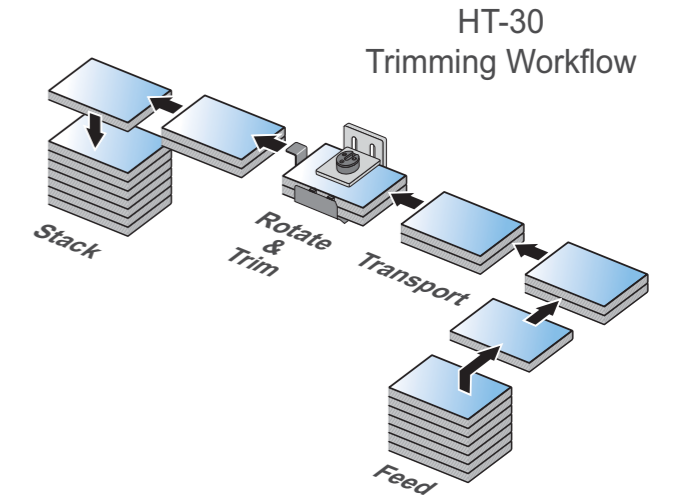
Horizon

HT-30





Special skills are no longer required to perform professional book trimming. The Horizon Robot Trimmer performs unattended three-side trimming.



Innovative Three-side Trimmer

The new HT-30 three-side trimmer trims three sides of a book with a single knife. A pressure clamp holds and rotates the books for sequential top, fore-edge, and bottom trimming.

Robotic Trimming

The operator simply inputs untrimmed and trimmed book size at the touch-screen. The HT-30 then performs all necessary setups automatically, and transports and trims each book.

Highly Accurate Finishing

Precise servo motors are employed for knife positioning to insure high quality trimming. The servo controlled hydraulic unit adjusts pressure automatically for markless trimming.

Nonstop Trimming

If the book dimensions are same, the HT-30 can trim books of different thickness continuously. Maximum trim thickness is 51 mm (2.0").

Powerful Trimming

Knife operation and book clamping are hydraulic controlled for safe and powerful trimming.

Safety Operation

The trimming section, feed table, and stacker are all interlocked and safety covered for maximum operator safety.

Easy Maintenance

Single knife trimming system reduces knife replacement time to 1/3 of normal three-knife trimmer. The HT-30 is equipped with a tungsten-carbide tipped trim knife for longer life.



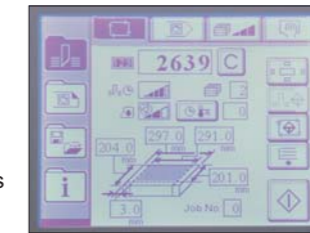
1 High Capacity Feed Table

The in-feed table can accept a maximum pile of 300 mm (11.8"). Books prepared on this table are transported to the trimming section automatically.

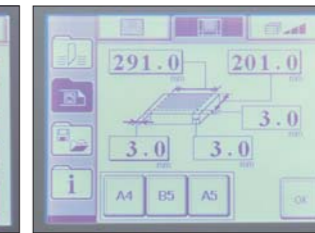


2 User-friendly Operation

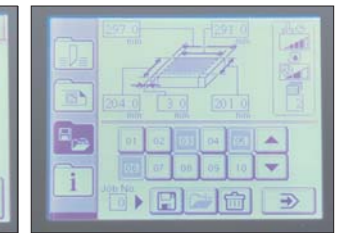
The icon-based touch-screen provides simple operation. First, input the untrimmed book size and then trimmed book size. Next, input the production speed and how many books are to be trimmed at once. Prepare the books on the feed table and start operation. No special operator skills are required. Up to 40 job setups can be stored into memory for easy job recall.



Operation Screen



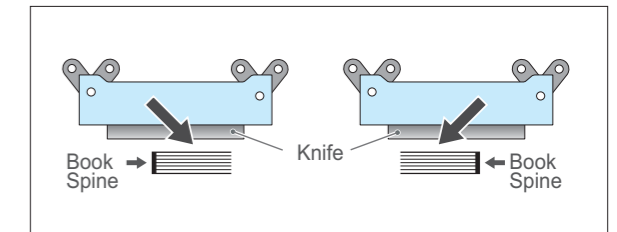
Setup Screen



Job Memory Screen

3 Accurate Trimming

Precise servo motors are employed for accurate knife positioning and high quality trimming. The servo controlled hydraulic unit also adjusts pressure automatically depending on book size to ensure markless trimming. The HT-30 knife also descends in both directions - from left-to-right and right-to-left - to avoid the possibility of cover tears at the spine.



4 High Capacity Stacker

Trimmed books are delivered to the stacker which features a 300 mm (11.8") maximum pile height. The stacker section is covered for safety, but a viewing window allows the operator to monitor books in progress.

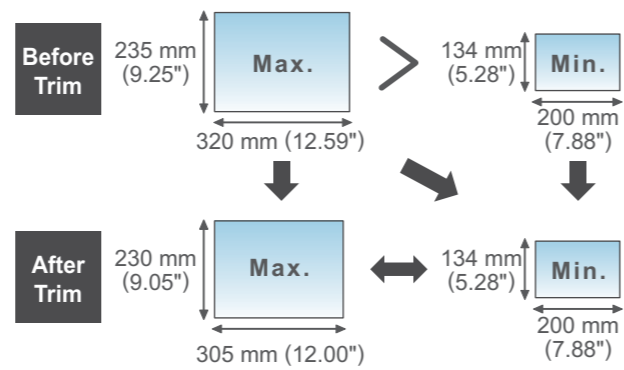


5 Rear Sliding Door for Easy Access

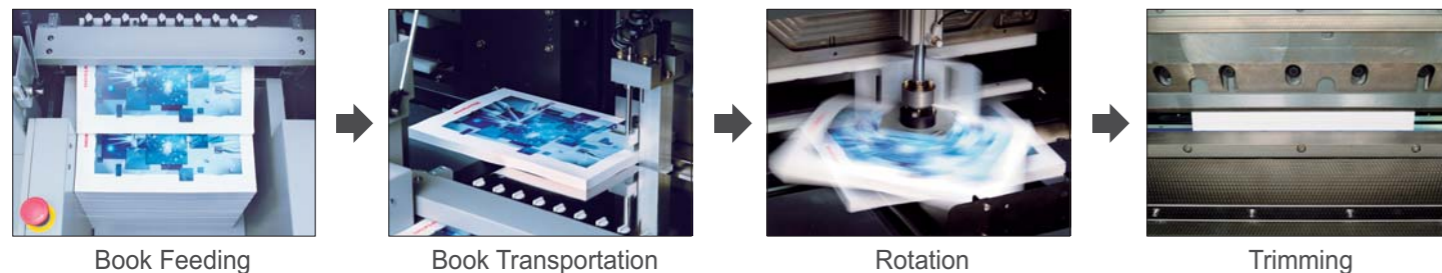
Knife and cutting stick replacement are easily performed from the rear of the trimmer. A sliding door on the rear side provides convenient access.



Trim Size



Robotic Trimming



The innovative HT-30 three-side trimmer performs book feeding, trimming, and stacking with full automation. You simply place a stack of books on the in-feed table. A suction feed system brings the books into position, where they are gripped by a robotic arm

which advances the block for downstream processing. The HT-30 can run unattended once it is setup and started, so the operator is free to perform book binding or other tasks.

Perfectly Mached to the Single-Clamp Perfect Binder BQ-270C

The BQ-270C and the HT-30 provide easy, safe, and comfortable binding and trimming without any special operating skills required. Bound books are simply placed into the HT-30 for automatic trimming, while book binding on the BQ-270C continues. This lets a single operator perform the complete binding and trimming process with maximum efficiency.

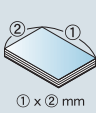


Three-side Trimmer : HT-30

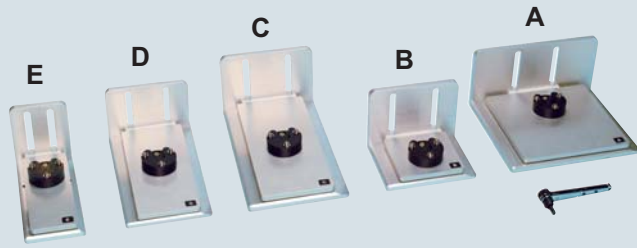


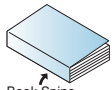
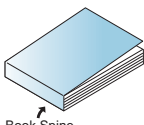
Perfect Binder : BQ-270C

HT-30 Major Specifications

Untrimmed Book Size		Max. 320 x 235 mm (12.600" x 9.255")
		Min. 200 x 134 mm (7.870" x 5.280")
Trimmed Book Size	① x ② mm	Max. 305 x 230 mm (12.010" x 9.055")
		Min. 200 x 134 mm (7.870" x 5.280")
		(148 x 134 mm / 5.830" x 5.280" at minimum by using the custom size table)
		Landscape book size is A4 / B5 / A5 / 8.5" x 11" / 7" x 8.5" (by using the custom size table for each landscape size)
Trimming Width		Max. 99.9 mm (3.930")
Trim Thickness		Min. 2 mm (0.080")
Book Pile Height		Max. 51 mm (2.0")
Clamp and Pressure		Max. 300 mm (11.8")
		Hydraulically Operated
Production Speed		Automatic Settings : 4 kN / 5.5 kN / 8 kN, 3 Steps Selectable
		Manual Settings : 1.5 kN / 3 kN / 5 kN / 6.5 kN / 8 kN, 5 Steps Selectable
Voltage / Frequency		Max. 400 books/hr. (Book Thickness 25 mm, 2 piled books)
		Max. 500 books/hr. (Book Thickness 10 mm, 5 piled books)
Rated Current		3-Phase 200 / 220 / 400 V, 50 / 60 Hz
		3-Phase 200 V, 50 Hz, 4.3 A (Max. 9.6 A)
		3-Phase 200 V, 60 Hz, 3.8 A (Max. 9.8 A)
		3-Phase 220 V, 50 Hz, 3.9 A (Max. 8.7 A)
		3-Phase 220 V, 60 Hz, 3.5 A (Max. 8.8 A)
		3-Phase 400 V, 50 Hz, 2.2 A (Max. 4.8 A)
Power Consumption		3-Phase 400 V, 60 Hz, 2.0 A (Max. 4.8 A)
		3-Phase 200 / 220 / 400 V, 50 Hz, 1.25 kW
Heat Output		3-Phase 200 / 220 / 400 V, 60 Hz, 1.20 kW
Motors		3,950 kJ (950 kcal)
Machine Dimensions		2.2 kW x 1 / 0.41 kW x 1 / 0.40 kW x 1 / 0.325 kW x 1 / 40 W x 2 / 15 W x 1
Noise Level		2,350(W) x 1,160(D) x 1,370(H) mm (92.6" x 45.7" x 54.0")
Machine Weight		70 dB
		Main Body : 940 kg (2,073 lbs)
Temperature & Humidity		Transformer : 77 kg (170 lbs), Accessory : 3 kg (7 lbs)
		Temperature : +10 °C to +30 °C, Humidity : 30 % to 80 %RH

Table



	Orientation	Module	Size
Standard		A	A4 / 8.5" x 11"
		B	B5, A5 / 6" x 9", 5.5" x 8.5"
Option		C	A4E / 11" x 8.5"
		D	B5E
		E	A5E / 9" x 6"

*The machine design and specifications are subject to change without any notice.

The BQ-270C and the HT-30 provide easy, safe, and comfortable binding and trimming without any special operating skills required.

■ BQ-270C : Single-Clamp Perfect Binder



BQ-270C Major Specifications

Binding Mode	Binding with milling, Binding without milling and Padding	
Number of Carriage Clamp	1	
Book Block Size	Max. 320 x 320 mm (12.5" x 12.5")	
(Top-Bottom x Fore-edge)	Min. 135 x 105 mm (5.4" x 4.2")	
Book Thickness	1 to 50 mm (0.04" to 2.00")	
Cover Size (Top-Bottom x Fore-edge)	Max. 320 x 660 mm (12.59" x 25.98")	
	(up to 350 mm or 13.77" forwards from the clamp face)	
	(up to 310 mm or 12.20" backwards from the clamp face)	
	Min. 135 x 230 mm (5.32" x 9.06")	
	(up to 120 mm or 4.73" forwards from the clamp face)	
	(up to 110 mm or 4.34" backwards from the clamp face)	
Cover Weight Range	82 to 302 gsm (22 to 80 lbs)	
Cover Pile Height	Max. 70 mm (2.7")	
Warm up Time	60 min.	
Glue Temperature	120 to 180 °C (248 to 356 degrees Fahrenheit)	
Maximum Milling Depth	3 mm (0.12")	
Cycle Speed	With milling	Max. 500 cycles/hr.
	Without milling	Max. 500 cycles/hr.
	Padding	Max. 500 cycles/hr.
Voltage / Frequency	3-Phase 200 / 280 / 220 / 230 / 240 / 400 V, 50 / 60 Hz	
	3-Phase, 3 wires plus PE	
Rated Current	3-Phase 200 V, 50 Hz, 10 A (Max. 15 A)	
	3-Phase 200 V, 60 Hz, 9.4 A (Max. 15 A)	
	3-Phase 208 V, 50 Hz, 11.1 A (Max. 20.1 A)	
	3-Phase 208 V, 60 Hz, 10.4 A (Max. 19.1 A)	
	3-Phase 220 / 230 / 240 V, 50 Hz, 9.7 A (Max. 12.8 A)	
	3-Phase 220 / 230 / 240 V, 60 Hz, 8.5 A (Max. 12.8 A)	
Power Consumption	3-Phase 400 V, 50 Hz, 5.6 A (Max. 9 A)	
	3-Phase 400 V, 60 Hz, 5.1 A (Max. 6.4 A)	
	3-Phase 200 V, 50 Hz, 2.7 kW	
	3-Phase 200 V, 60 Hz, 2.9 kW	
	3-Phase 208 V, 50 Hz, 3.29 kW	
	3-Phase 208 V, 60 Hz, 3.35 kW	
Heat Output	3-Phase 220 / 230 / 240 V, 50 Hz, 2.9 kW	
	3-Phase 220 / 230 / 240 V, 60 Hz, 2.78 kW	
	3-Phase 400 V, 50 Hz, 3.1 kW	
	3-Phase 400 V, 60 Hz, 3.16 kW	
Motors	7,870 kJ (1,880 kcal)	
Heaters	2.2 kW x 1, 250 W x 1, 235 W x 1, 200 W x 4, 60 W x 1, 25 W x 1	
Machine Dimensions	2.2 kW x 1	
Noise Level	2,300(W) x 950(D) x 1,500(H) mm (90.6" x 37.4" x 59.1")	
Machine Weight	L _A peak : 83.3 dB, L _{req} : 74.0 dB	
	Main Body : 900 kg (1,984.5 lbs)	
	Transformer : 80 kg (176.4 lbs)	

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