

**Horizon**

**HT-30**

**THE  
ROBOT TRIMMER  
ARRIVES.**

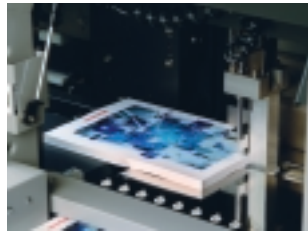


# HT-30 On Demand Trimmer

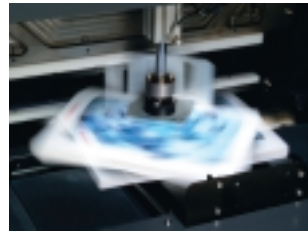
## Robotic Trimming



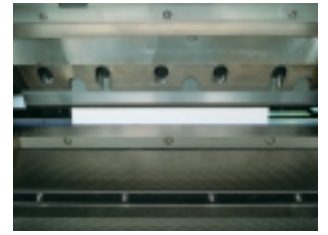
Book Feeding



Book Transportation

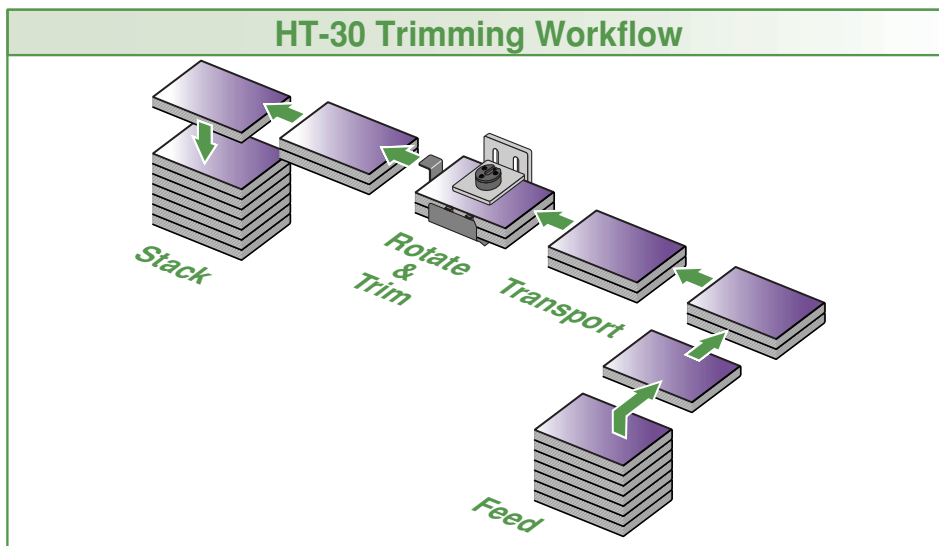


Rotation



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.



## Features

- 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.

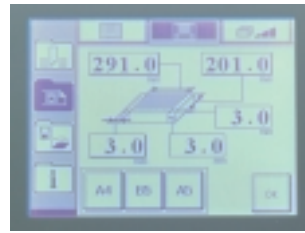
# Special skills are no longer required to perform professional book trimming. The Horizon Robot Trimmer performs unattended three-side trimming.

## 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



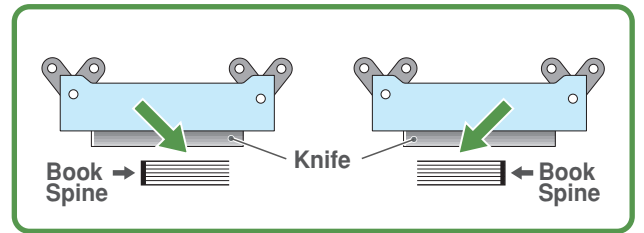
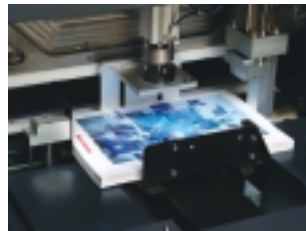
Setup Screen



Job Memory Screen

## 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.



### 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.

### Trim Size

Before Trim	Max.	>	Min.
	235 mm (9.25")		134 mm (5.28")
	320 mm (12.59")		200 mm (7.88")
After Trim	Max.	←→	Min.
	230 mm (9.05")		134 mm (5.28")
	305 mm (12.00")		200 mm (7.88")



### 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.

### Perfectly Matched to the Single-Clamp Perfect Binder BQ-270

▲ HT-30      ▲ BQ-270

The BQ-270 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-270 continues. This lets a single operator perform the complete binding and trimming process with maximum efficiency.

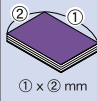
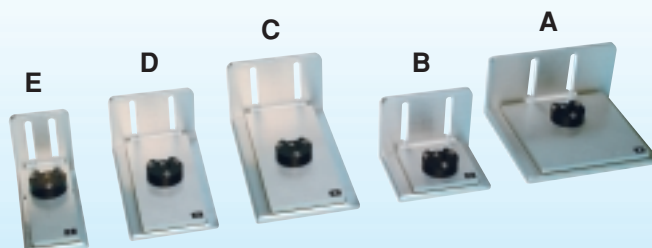
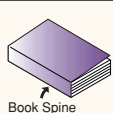
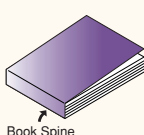


HT-30 Major Specifications			
Untrimmed Book Size	Max. 320 x 235 mm (12.600" x 9.255") Min. 200 x 134 mm (7.870" x 5.280")		
Trimmed Book Size		Max. 305 x 230 mm (12.010" x 9.055")	
		Min. 200 x 134 mm (7.870" x 5.280") (148 x 134 mm / 5.830" x 5.280" at minimum by using the custom size table)	
		Portrait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

### Single-Clamp Perfect Binder **BQ-270**



BQ-270 Major Specifications			
Binding Mode	Binding with milling, Binding without milling and Padding		
Number of Clamp	1		
Book Block Size (Top-Bottom x Fore-edge)	Max. 320 x 320 mm (12.5" x 12.5") 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 (12.5" x 25.9")		
Min. 135 x 230 mm (5.4" x 9.1")			
Cover Weight Range	82 gsm to 302 gsm		
Cover Pile Height	Max. 70 mm (2.7")		
Warm up Time	40 min.		
Glue Temperature	120 to 180°C (248 to 356 degrees Fahrenheit)		
Max. Milling Depth	3 mm (0.12")		
Cycle Speed	Max. 500 cycles/hr.		
Voltage / Frequency	3-Phase 200 / 220 / 230 / 240 / 400 V, 50 / 60 Hz		
Rated Current	3-Phase 200 V	50 Hz	10 A (Max. 15 A)
		60 Hz	9.4 A (Max. 15 A)
	3-Phase 220 / 230 / 240 V	50 Hz	9.7 A (Max. 12.8 A)
		60 Hz	8.5 A (Max. 12.8 A)
	3-Phase 400 V	50 Hz	5.6 A (Max. 9 A)
		60 Hz	5.1 A (Max. 6.4 A)
Power Consumption	3-Phase 200 V	50 Hz	2.7 kW
		60 Hz	2.9 kW
	3-Phase 220 / 230 / 240 V	50 Hz	2.9 kW
		60 Hz	2.78 kW
	3-Phase 400 V	50 Hz	3.1 kW
		60 Hz	3.16 kW
Heat Output	7,870 kJ (1,880 kcal)		
Machine Dimensions	2,300(W) x 860(D) x 1,250(H) mm (90.6" x 33.9" x 49.3")		
Machine Weight	900 kg (1,984.5 lbs.)		

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

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