Three-side Trimmer HT-30

THE ROBOT TRIMMER ARRIVES.
**HT-30 On Demand Trimmer**

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 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.
- **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.

**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.

**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.

**HT-30 Trimming Workflow**

1. **Feed**: Books are prepared on the feed table and transported to the trimming section automatically.
2. **Rotate & Trim**: The book is rotated to trim the fore-edge, and then trimmed on the top and bottom.
3. **Stack**: Trimmed books are delivered to the stacker for storage.

**Performance**

**Trim Size**

<table>
<thead>
<tr>
<th>Before Trim</th>
<th>After Trim</th>
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<tbody>
<tr>
<td>Max.</td>
<td>235 mm (9.25”)</td>
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<tr>
<td>Min.</td>
<td>134 mm (5.28”)</td>
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</tbody>
</table>

**Perfectly Matched to the Single-Clamp Perfect Binder 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 (12.59” x 9.25”)
  - Min. 200 x 134 mm (7.88” x 5.26”)

- **Trimmed Book Size**:
  - Max. 305 x 230 mm (12.00” x 9.05”)
  - Min. 200 x 134 mm (7.88” x 5.26”)

- **Trim Width & Thickness**:
  - Max. 99.9 mm (3.93”)
  - Min. 2 mm (0.08”)

- **Book Pile Height**:
  - Max. 51 mm (2.0”)
  - Min. 2 mm (0.08”)

- **Clamp and Pressure**:
  - Max. 99.9 mm (3.93”)
  - Min. 2 mm (0.08”)

- **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 V, 50 / 60 Hz
  - 3-Phase 220 / 230 / 240 V, 50 / 60 Hz

- **Rated Current**:
  - 3-Phase 200 V / 220 / 400 V, 50 / 60 Hz

- **Power Consumption**:
  - 3,950 kJ (950 kcal)

- **Heat Output**:
  - 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

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<table>
<thead>
<tr>
<th>Orientation</th>
<th>Module</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>A4 / 8.5” x 11”</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>B5, A5 / 6” x 9”, 5.5” x 8.5”</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>C</td>
<td>A4E / 11” x 8.5”</td>
</tr>
<tr>
<td>D</td>
<td>D</td>
<td>B5E</td>
</tr>
<tr>
<td>E</td>
<td>E</td>
<td>A5E / 9” x 6”</td>
</tr>
</tbody>
</table>

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BQ-270 Major Specifications

- **Binding Mode**:
  - Binding with milling, Binding without milling and Padding

- **Number of Clamps**:
  - 1

- **Book Block Size**:
  - Max. 320 x 320 mm (12.5” x 12.5”)
  - Min. 138 x 103 mm (5.4” x 4.1”)

- **Book Thickness**:
  - 1 to 50 mm (0.04” to 2.00”)

- **Cover Size**:
  - Max. 320 x 660 mm (12.5” x 25.9”)
  - Min. 138 x 230 mm (5.4” x 9.1”)

- **Cover Weight Range**:
  - 82 gsm to 302 gsm (3.07” x 11.81”)

- **Cover Pile Height**:
  - 1.0 mm (0.04”)

- **Warm-up Time**:
  - 40 min.

- **Use 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 V, 50 / 60 Hz

- **Rated Current**:
  - 3-Phase 200 V / 220 / 240 V, 50 / 60 Hz
  - 3-Phase 400 V, 50 Hz

- **Power Consumption**:
  - 2,700 kJ (639 kcal)

- **Heat Output**:
  - 2,300(W) x 1,200(D) x 1,500(H) mm (90.6” x 47.2” x 59.1”)

- **Machine Weight**:
  - 900 kg (1,984.5 lbs.)