Automatic Perforating Machine
Designed for automatic ornamental punching & stamping of pre-cut belts or related materials.

The FCA86 is a proven system for the cutting, punching, perforating, and embossing all kinds of strap goods. The hydraulic cutting head is electronically controlled through an easy to program microprocessor. This simple interface, with data display and keyboard, turns complex and tedious tasks into fully automated and efficient production.

The customizable punching dies cut on hardened steel base with exact precision. The cutting head can also be used for embossing with or without heat in some versions. Straps of various sizes and width are positioned with self centering guides and an efficient suction and ejection system to eliminate scraps.

The machine can also be programmed to stop when the required quantity of pieces has been completed for the working cycle. The operator only needs to load the material and let the machine work automatically. The FCA86 can be combined with an automatic loader and unloader for fully automated working of pre-cut strips such as belts.

### STANDARD FEATURES
- Designed for working strips of pre-cut or pre-wound materials
- For making ornamental perforations
- Easy to programmed PLC control
- Hydraulic / Electric Cutting Operation
- Pneumatic Scrap Vacuum
- Transport speed of 14-3/4 inches per second (375mm/s)
- Self-centering strap guides
- Built to current safety standards

### FCA86-N
- Automatic punching machine with interchangeable tools
- Capable of both the punching and embossing
- Equipped with a PLC with a single program modifiable by the user

### FCA86-C
- Automatic punching or hot stamping with interchangeable tools.
- Capable of both the punching and embossing; or hot stamping strips of material
- Equipped with a PLC with memory storage up to 500 programs

### FCA86-S
- Same as FCA86-S but with longer cutting and stamping area.

### FCA86-H
- For cutting and/or punching strips of pre-cut material (max. width 220mm)
- Equipped with a PLC with a single program modifiable by the user
- Maximum cutting area, with scrap suction, is 5.9” x 7.9” (150x200mm)
- Heavy duty punching power, more than 4300 kg (4.7 tons) at 140 bar
- Capable of cutting and punching dies of large dimensions with excellent results

### FCA86-2
- Automatic control of two working heads with multiple tools
- Capable of both the punching and embossing
- Independent depth adjustment of printing head. No need to change the die height in relation to the cutting blade when the material thickness changes
- Equipped with a PLC with memory storage up to 500 programs

### FCA86-2C
- Same as FCA86-2, but includes a unique patented device that allows for automatic printing with transfer paper

---

### Cutting Area

<table>
<thead>
<tr>
<th>Model</th>
<th>Cutting Area with Suction</th>
<th>Max. Stamping Area</th>
<th>Material Width</th>
<th>Cutting Strength</th>
<th>Motors</th>
<th>Max abs. Power</th>
<th>Size L x D x H</th>
<th>Net Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>FCA86-N</td>
<td>2-9/16&quot; x 2-3/8&quot; (65 x 60 mm)</td>
<td>3-1/8&quot; x 2-1/16&quot; (80 x 72mm)</td>
<td>5/16&quot; - 3-1/8&quot; (8 to 80mm)</td>
<td>3.85 ton (3500 Kg) @150 bar</td>
<td>Hydraulic: 3 HP (2.2 kW) Suction: 1/4 HP (0.18 kW)</td>
<td>2.88 Kw</td>
<td>59&quot; x 26&quot; x 61&quot; (151x67x155 cm)</td>
<td>595 lbs (270kg)</td>
</tr>
<tr>
<td>FCA86-C</td>
<td>2-9/16&quot; x 2-3/8&quot; (65 x 60 mm)</td>
<td>3-1/8&quot; x 2-1/16&quot; (80 x 72mm)</td>
<td>5/16&quot; - 3-1/8&quot; (8 to 80mm)</td>
<td>3.85 ton (3500 Kg) @150 bar</td>
<td>Hydraulic: 3 HP (2.2 kW) Suction: 1/4 HP (0.18 kW)</td>
<td>3.13 Kw</td>
<td>59&quot; x 26&quot; x 61&quot; (151x67x155 cm)</td>
<td>606 lbs (275kg)</td>
</tr>
<tr>
<td>FCA86-S</td>
<td>9-1/16&quot; x 1&quot; (230 x 25 mm)</td>
<td>10-5/8&quot; x 1-3/16&quot; (270 x 35mm)</td>
<td>5/16&quot; - 3-1/8&quot; (8 to 80mm)</td>
<td>3.85 ton (3500 Kg) @150 bar</td>
<td>Hydraulic: 3 HP (2.2 kW) Suction: 1/4 HP (0.18 kW)</td>
<td>2.88 Kw</td>
<td>59&quot; x 26&quot; x 61&quot; (151x67x155 cm)</td>
<td>606 lbs (275kg)</td>
</tr>
<tr>
<td>FCA86-H</td>
<td>6&quot; x 7-7/8&quot; (150 x 200 mm)</td>
<td>---</td>
<td>---</td>
<td>4.7 ton (4300 Kg) @ 140 bar</td>
<td>Hydraulic: 3 HP (2.2 kW) Suction: 1/4 HP (0.18 Kw)</td>
<td>2.88 Kw</td>
<td>59&quot; x 26&quot; x 61&quot; (151x67x155 cm)</td>
<td>606 lbs (275kg)</td>
</tr>
<tr>
<td>FCA86-2</td>
<td>2-3/8&quot; x 3-1/8&quot; (60 x 80mm)</td>
<td>3-7/8&quot; x 3-9/16&quot; (98 x 90mm)</td>
<td>1/4&quot; - 3-15/16&quot; (7 to 100mm)</td>
<td>4.7 ton (4710 Kg) @ 150 bar</td>
<td>Hydraulic: 3 HP (2.2 kW) Suction: 1/4 HP (0.18 Kw)</td>
<td>2.88 Kw</td>
<td>50&quot; x 25&quot; x 63&quot; (127x64x161 cm)</td>
<td>827 lbs (375kg)</td>
</tr>
<tr>
<td>FCA86-2C</td>
<td>2-3/8&quot; x 3-1/8&quot; (60 x 80mm)</td>
<td>3-7/8&quot; x 3-9/16&quot; (98 x 90mm)</td>
<td>1/4&quot; - 3-15/16&quot; (7 to 100mm)</td>
<td>4.7 ton (4710 Kg) @ 150 bar</td>
<td>Hydraulic: 3 HP (2.2 kW) Suction: 1/4 HP (0.18 Kw)</td>
<td>3.08 Kw</td>
<td>50&quot; x 25&quot; x 63&quot; (127x64x161 cm)</td>
<td>827 lbs (375kg)</td>
</tr>
</tbody>
</table>
**Hand Operated Hole Punching Machine**

Simply hand crank the wheel to punch the material and the machine does the work. The feed can be adjusted to punch holes from 7/16” (10mm) to a max. of 1-3/4” (45mm) apart. The hole spacing and shock absorbing anvil are adjustable too. Accepts interchangeable hollow punches from 2mm. to 6mm. Comes with manual and your choice of three tube sizes.

- **Changeable Hole Punch Size**
- **Accommodates straps from 1/2” to 4-1/8” wide**
- **Adjustable Hole Punching Distance 7/16” to 1-3/4”**
- **Tube Sizes: 1/16” to 9/32” (2-7mm)**
- **Work Space 17” x 14” x 12” (43 x 35 x 30 cm)**
- **Net weight: 40 lbs. (18 kg)**

**Perforating Machine**

Designed for ornamental punching & trimming of shoe uppers, bags, belts or related materials.

This machine has been designed for large production of shoes and leather goods with reliability and minimum cost in mind. The sturdiness and simplicity of this machine guarantees trouble free operation in mass production.

- **Sturdy & simple for trouble free operation in mass production**
- **Uses RPM Collates**
- **Feed 1/16” to 5/8” (1.5mm to 16mm)**
- **Feed adjustable by regulator**
- **Max. Speed: 450 RPM for hollow punches**
- **Max. Speed: 650 RPM for needles**
- **Guides available upon request**
- **Available with or without stand**

**Model R-74**

**Hand Operated Hole Punching Machine**

Simply hand crank the wheel to punch the material and the machine does the work. The feed can be adjusted to punch holes from 7/16” (10mm) to a max. of 1-3/4” (45mm) apart. The hole spacing and shock absorbing anvil are adjustable too. Accepts interchangeable hollow punches from 2mm. to 6mm. Comes with manual and your choice of three tube sizes.

- **Changeable Hole Punch Size**
- **Accommodates straps from 1/2” to 4-1/8” wide**
- **Adjustable Hole Punching Distance 7/16” to 1-3/4”**
- **Tube Sizes: 1/16” to 9/32” (2-7mm)**
- **Work Space 17” x 14” x 12” (43 x 35 x 30 cm)**
- **Net weight: 40 lbs. (18 kg)**

**Model CPM-100**

**Pinking Machine**

- **Designed for professional use in custom shops and R&D departments**
- **Cuts decorative edges on leathers and similar materials**
- **Ideal for saddle seats and custom shoes**
- **Wheels can be assembled with spacers for cutting pinking strips**
- **Wide variety of pinking wheels available**
- **Made in the USA**

1-800-327-9420  www.Campbell-Randall.com