

CAARLA CA19

CAARLA CA19 Pneumatic Strapping Machine User Manual

Model: CA19



1. INTRODUCTION

The CAARLA CA19 Pneumatic Strapping Machine is a handheld tool designed for efficient packaging using PET (Polyethylene Terephthalate) and PP (Polypropylene) plastic straps. This machine integrates tensioning, friction welding, and cutting functions into a single, easy-to-operate unit. It is suitable for various industrial applications, including metallurgy, steel, and building materials, providing a secure and reliable strapping solution.

Key features include its lightweight design, high-power pneumatic operation, and the use of friction hot melt for a strong, fastener-free joint. The ergonomic design ensures comfortable and safe operation.

2. SAFETY INSTRUCTIONS

Read and understand all safety instructions before operating the machine. Failure to follow these instructions may result in injury or damage to the equipment.

- **Personal Protective Equipment (PPE):** Always wear safety glasses, gloves, and appropriate footwear when operating the strapping machine.
- **Air Supply:** Ensure the air compressor is properly maintained and provides stable air pressure within the specified range (0.5-0.7 Mpa). Disconnect the air supply before performing any maintenance, adjustments, or when the machine is not in use.
- **Work Area:** Keep the work area clean, well-lit, and free from obstructions. Ensure adequate ventilation.
- **Strap Handling:** Be cautious when handling strapping material, as it can recoil under tension. Keep hands and body clear of the strap path during operation.
- **Machine Inspection:** Before each use, inspect the machine for any damage, loose parts, or worn components. Do not operate a damaged machine.
- **Unauthorized Modifications:** Do not modify the machine or use non-original replacement parts. This may compromise safety and void the warranty.

3. PRODUCT COMPONENTS

The CAARLA CA19 Pneumatic Strapping Machine consists of several key components designed for efficient

operation. The package also includes essential tools for setup and maintenance.



Figure 1: CAARLA CA19 Pneumatic Strapping Machine and accessory tools.

- **Main Body:** Houses the pneumatic motor and mechanisms.
- **Handle:** Ergonomic grip for comfortable operation.
- **Tensioning Lever/Button:** Activates the strap tensioning mechanism.
- **Welding/Cutting Lever/Button:** Initiates the friction welding and strap cutting process.
- **Strap Guides:** Channels for proper strap insertion.
- **Air Inlet:** Connection point for the air hose.
- **Included Tools:** Wrenches, hex keys, and a screwdriver for adjustments and maintenance.



Figure 2: Detailed views of the machine's tensioning, welding, and air inlet components.

4. SETUP

Follow these steps to prepare your CAARLA CA19 for operation:

1. **Unpacking:** Carefully remove the strapping machine and all accessories from its packaging. Inspect for any shipping damage.
2. **Air Compressor Connection:** Connect a suitable air hose from your air compressor to the air inlet on the strapping machine. Ensure the connection is secure and leak-free. The ideal working pressure is 0.63 Mpa (approximately 91 PSI), with a permissible range of 0.5-0.7 Mpa (72-101 PSI).
3. **Strap Preparation:** Ensure you are using the correct type and size of strap (PP/PET, 13-19mm width, 0.5-1.2mm thickness) for the CA19 model.

5. OPERATING INSTRUCTIONS

Operating the CAARLA CA19 is a three-step process: strap insertion, tensioning, and friction welding/cutting.

1. **Strap Insertion:**
 - Place the strap around the package or bundle you wish to secure.
 - Insert the leading end of the strap into the lower strap guide of the machine.
 - Bring the other end of the strap over the first, and insert it into the upper strap guide, ensuring it passes through the tensioning and welding mechanisms.
2. **Tensioning:**

- Press and hold the tensioning lever/button. The machine will begin to pull the strap tight around the package.
- Release the lever/button once the desired strap tension is achieved. Avoid over-tensioning, which can damage the package or strap.

3. Friction Welding and Cutting:

- After tensioning, press and hold the welding/cutting lever/button. The machine will perform a friction weld to join the strap ends and then cut the excess strap.
- Hold the lever/button until the welding and cutting cycle is complete (typically a few seconds).
- Release the lever/button and carefully remove the machine from the strapped package.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your strapping machine.

- **Cleaning:** Regularly clean the strap guides, tensioning wheel, and welding plate to prevent strap residue buildup. Use a dry cloth or compressed air.
- **Air System:** Periodically check air hose connections for leaks and ensure the air filter on your compressor is clean.
- **Lubrication:** Consult the manufacturer's guidelines for specific lubrication points and schedules. Generally, moving parts may require light lubrication to ensure smooth operation.
- **Inspection:** Inspect wear parts such as the tensioning wheel, cutter blade, and welding plate for signs of wear or damage. Replace worn parts as necessary using original manufacturer components.
- **Storage:** Store the machine in a clean, dry environment when not in use. Disconnect the air supply.

7. TROUBLESHOOTING

If you encounter issues with your CAARLA CA19, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Strap not tensioning properly	Low air pressure; Worn tensioning wheel; Incorrect strap insertion	Check air supply and pressure; Inspect and replace tensioning wheel; Re-insert strap correctly
Poor or incomplete weld	Insufficient air pressure; Contaminated welding plate; Incorrect strap material/thickness	Verify air pressure; Clean welding plate; Ensure correct strap type and dimensions
Strap not cutting	Dull or damaged cutter blade; Strap jammed	Inspect and replace cutter blade; Clear any strap obstructions
Air leaks	Loose connections; Damaged O-rings/seals	Tighten all air connections; Inspect and replace damaged seals

8. SPECIFICATIONS

Specification	Value
Model	CA19

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Power Type	Pneumatic
Air Pressure Range	0.5-0.7 Mpa (72-101 PSI)
Ideal Working Pressure	0.63 Mpa (91 PSI)
Suitable Strap Material	PP/PET strap
Suitable Strap Width	13-19 mm
Suitable Strap Thickness	0.5-1.2 mm
Tension Force	3500 N
Item Weight	3.8 kg (8.38 lbs)
Dimensions (L x W x H)	280 x 160 x 180 mm (approx. 11.02 x 6.3 x 7.09 inches)

9. WARRANTY AND SUPPORT

For warranty information, technical support, or to order replacement parts, please contact your original point of purchase or the manufacturer directly. Keep your purchase receipt as proof of purchase.

