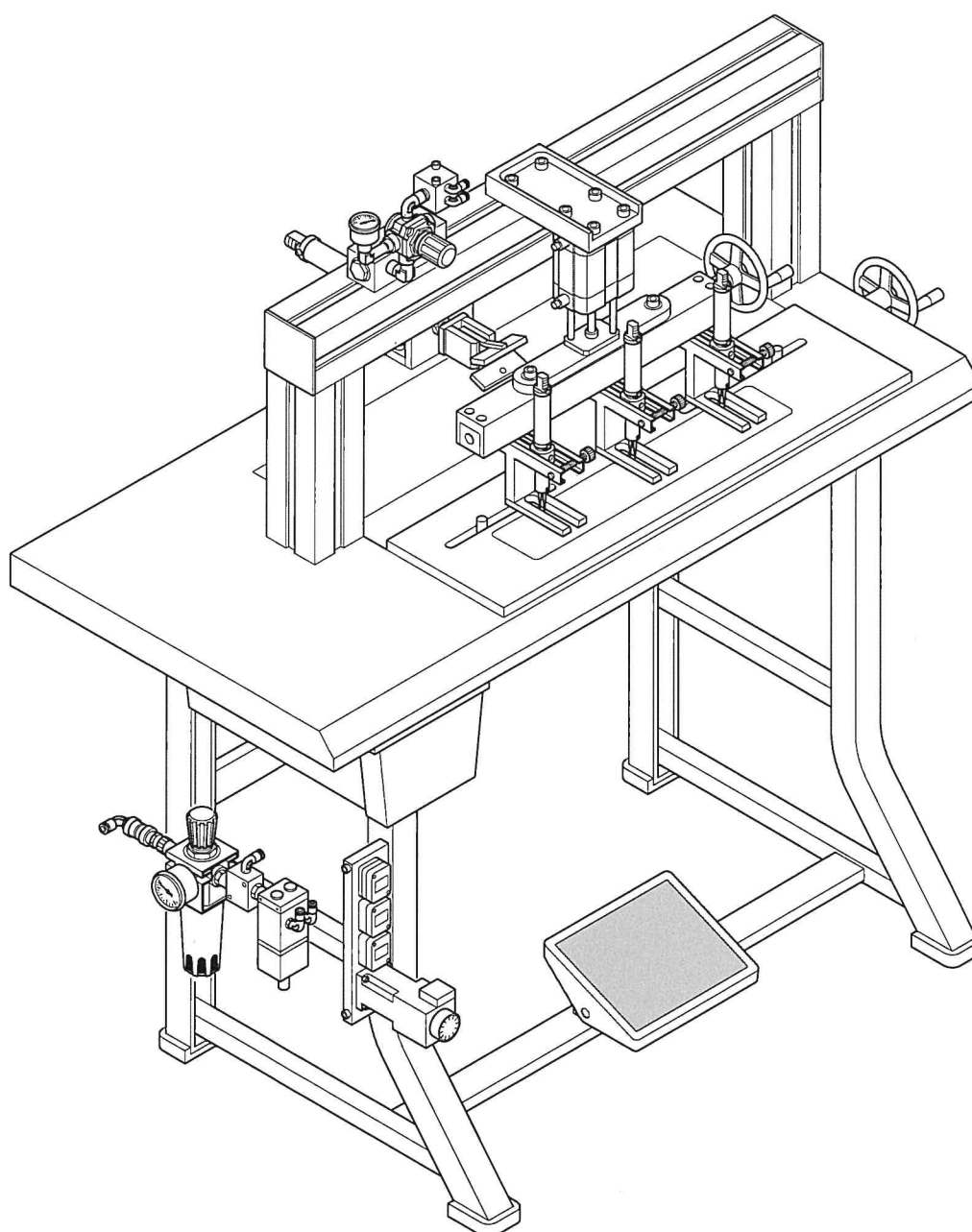


COLLAR MARKER MACHINE

model 3006



Operating and maintenance instructions





Macchine Automatismi Industriali Camicerie Abbigliamento

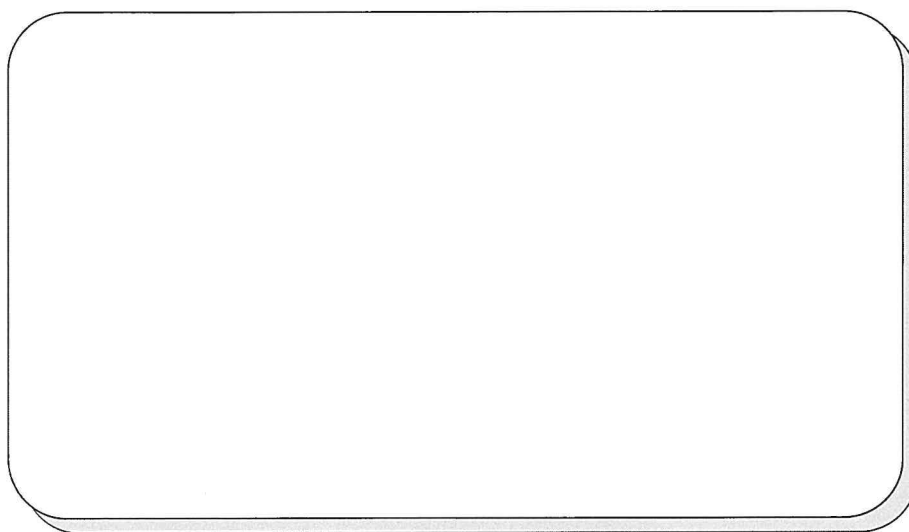
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AREA DEALER AUTHORIZED FOR CUSTOMER ASSISTANCE



EEC CONFORMITY STATEMENT

We hereby declare that the **Collar Marker machine - model 3006** described in this manual complies with the standards set forth in the EEC directives described below:

UNI EN 292-1	Machinery safety. Fundamental concepts.
UNI EN 292-2	Machinery safety. Fundamental concepts.
UNI EN 294	Machinery safety. Safety distances for upper limbs.
UNI EN 349	Machinery safety. Minimum safety distances for crushing.
pr EN 953	Machinery safety. Guard design and construction.

La Ditta Costruttrice:
M.A.I.C.A. S.r.l.

01 - GENERAL INFORMATION


CHARACTERISTICS AND FIELD OF USE

The M.A.I.C.A. Collar Marker machine - model 3006 - is specifically designed for marking collars where it's impossible to punch these with a tip.

The machine makes three marks on the shirt collar needed to centre the shoulders and the centre of the collar. It also comes complete with piece delivery and an easy adjustment system for marking the various sizes.

RECOMMENDATIONS FOR MACHINE USE

The 3006 should be used exclusively for marking shirt collars. We disclaim all responsibility for damages resulting from incorrect use of the machine or any use other than the one described in this manual.

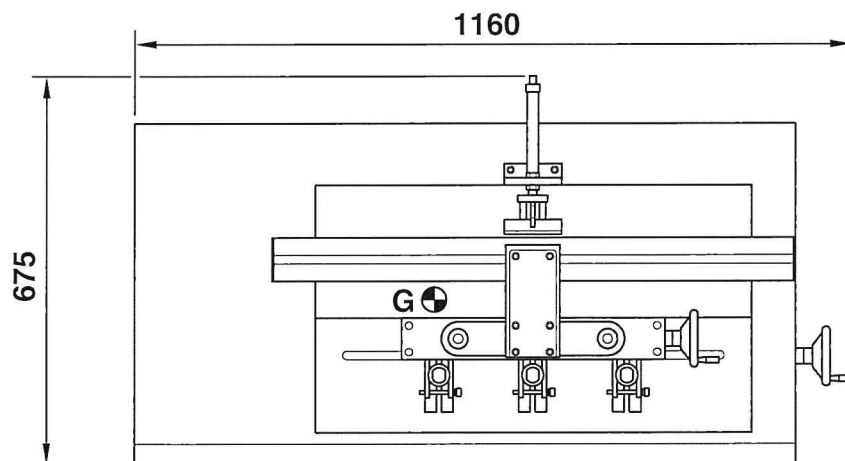
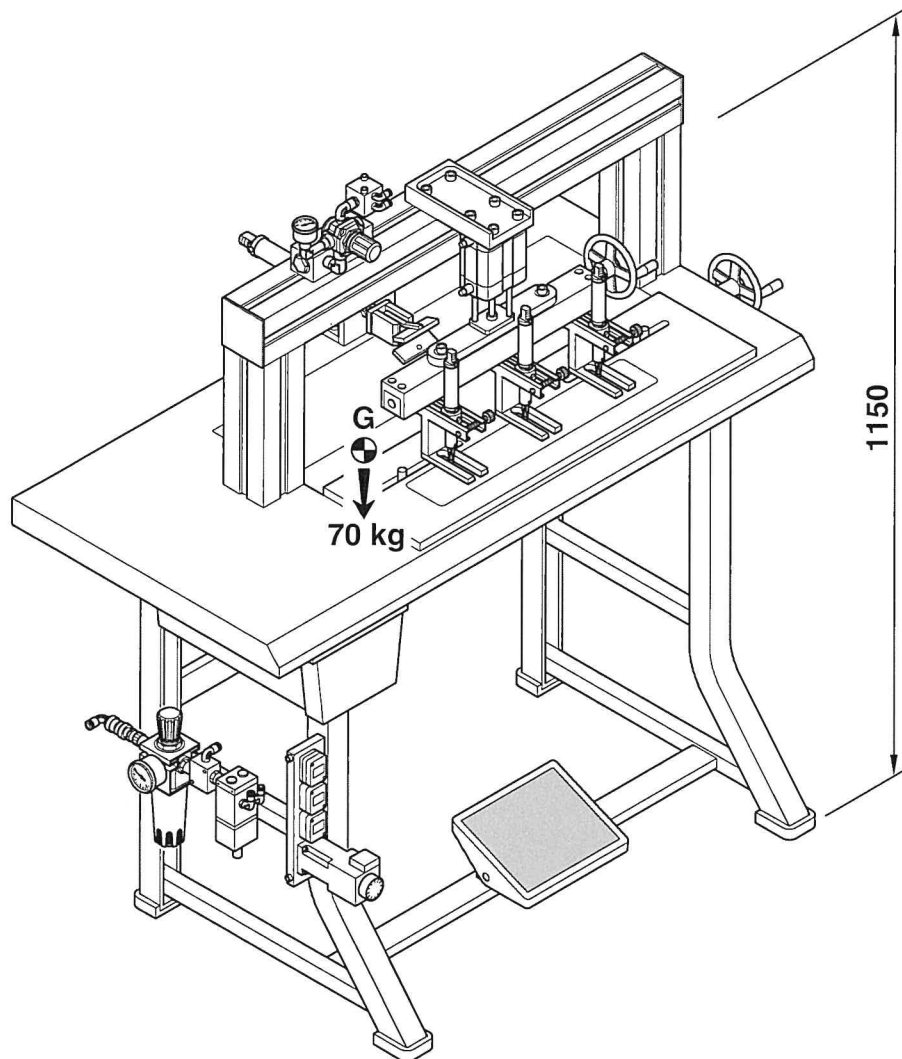
The symbol  is used to indicate a risk or a situation that endangers the operator's safety. Pay particular attention.

The machine uses needles for marking the collars. We recommend taking great care when working near these.

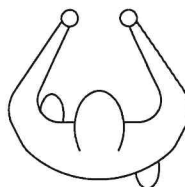
Disconnect the compressed air supply before carrying out any adjustments, replacements or maintenance work.

The machine **should not be** exposed to atmospheric agents such as rain, sun, etc.

02 - TECHNICAL DATA - COLLAR MARKER MODEL 3006



Daily level of exposure to noise **Leq**, with the machine in operation, compliant to current standards.



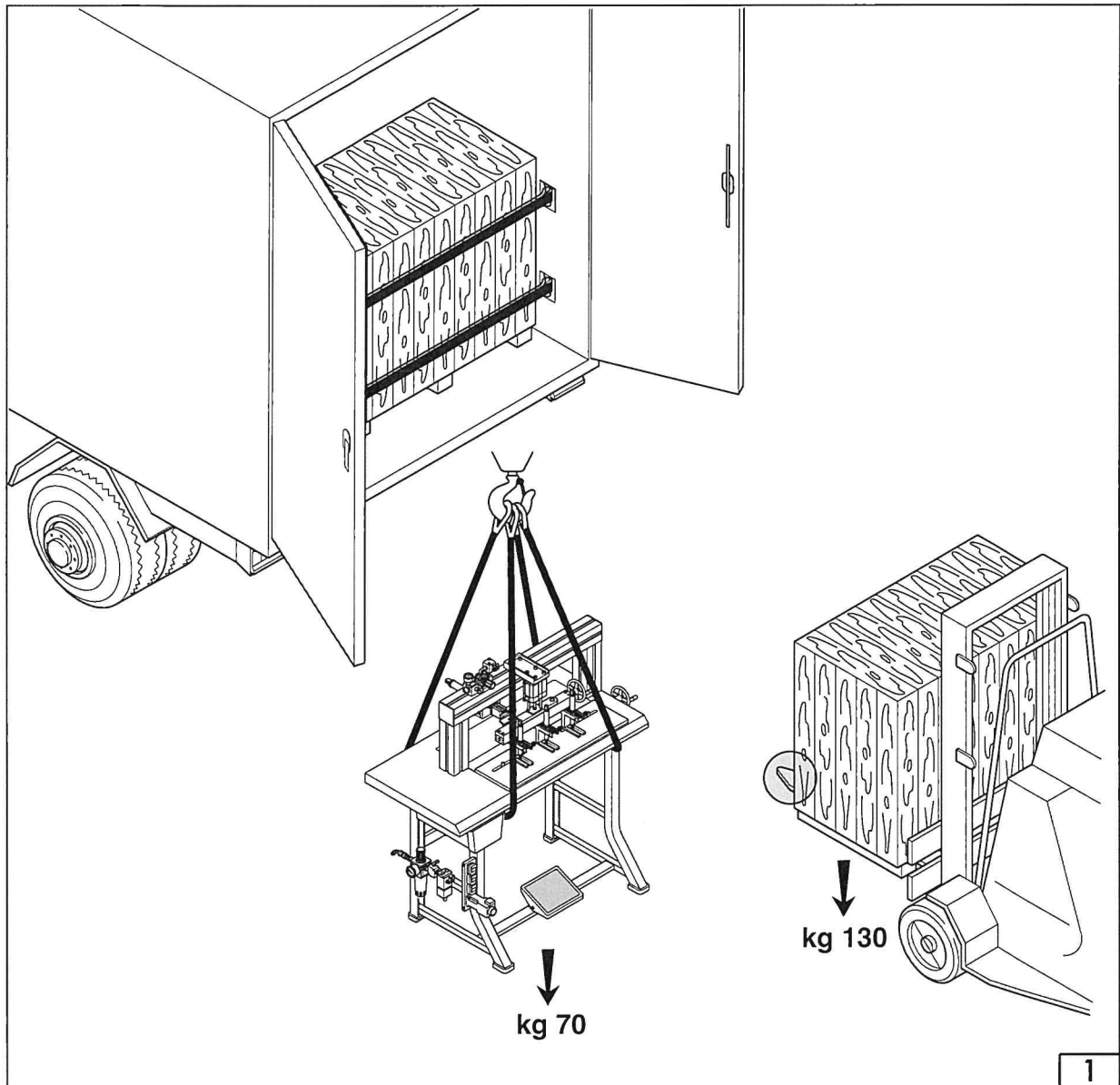
03 - LIFTING AND TRANSPORT

The machine can be transported with or without the packing crate (Fig. 1).

Use a fork-lift truck to handle the machine when packed in a crate, taking care that the lifting slings even support the whole weight of the crate.

Use appropriate lifting ropes if moving the machine without its crate.

In both cases, secure the machine to the means of transport with suitable ropes or belts.



04 - UNLOADING AND UNPACKING

Unload the machine using appropriate lifting means to suit the specific situation as described in paragraph "03 - LIFTING AND TRANSPORT".

Take the machine to its installation site and remove from its packing (if any). Rest the machine on a solid, flat surface protected from the weather.

05 - INSTALLATION

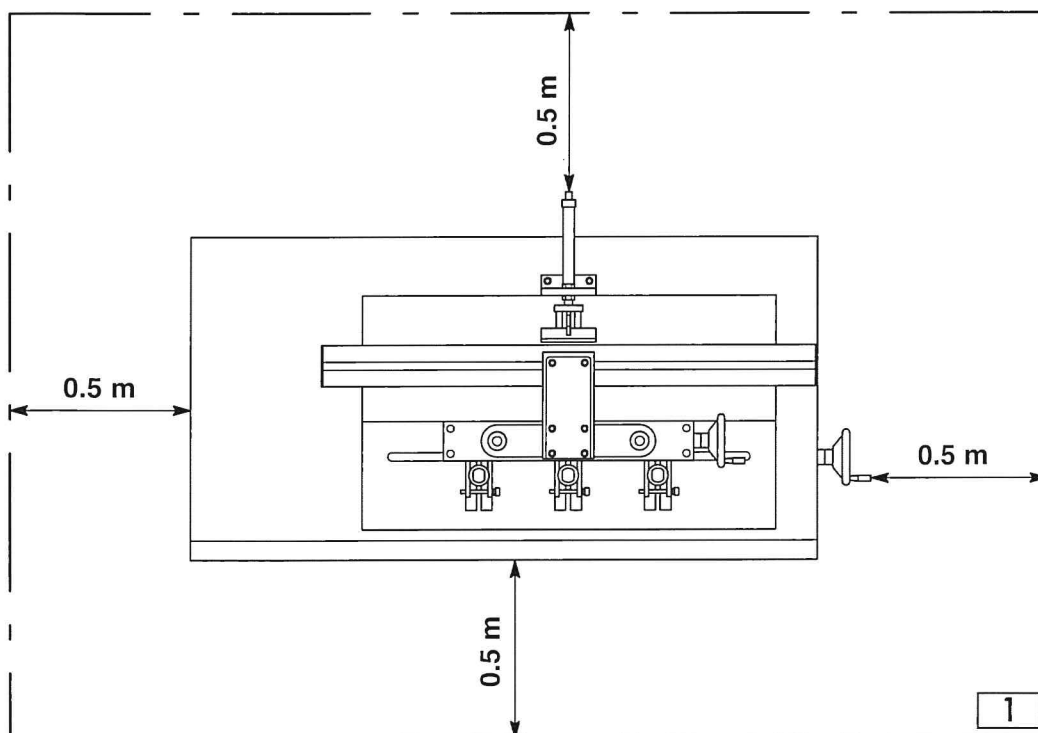
ATTENTION: This machine must only be installed by specialized personnel.

The manufacturer cannot be held liable for any damage to persons or to property arising from incorrect installation not in accordance with these instructions and connection to a mains supply that does not meet the necessary requirements.



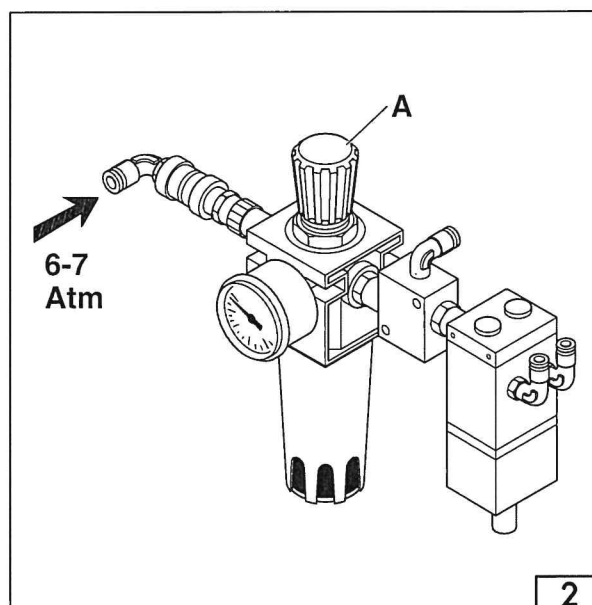
If the machine is installed on a suspended surface, check that the surface can withstand the weight of the machine. This machine must not be installed in areas where there are explosive or inflammable materials and substances.

Make sure that the distances shown in figure 1 below are respected as these are necessary for the maintenance and operation of the machine.



PNEUMATIC CONNECTION

Connect the machine to the compressed air outlet and make sure that the air flow is sufficient to allow for operation with a constant rate of pressure of 6÷7 Atm. Calibrate pressure regulator "A" at between 6÷7 Atm (fig. 2).

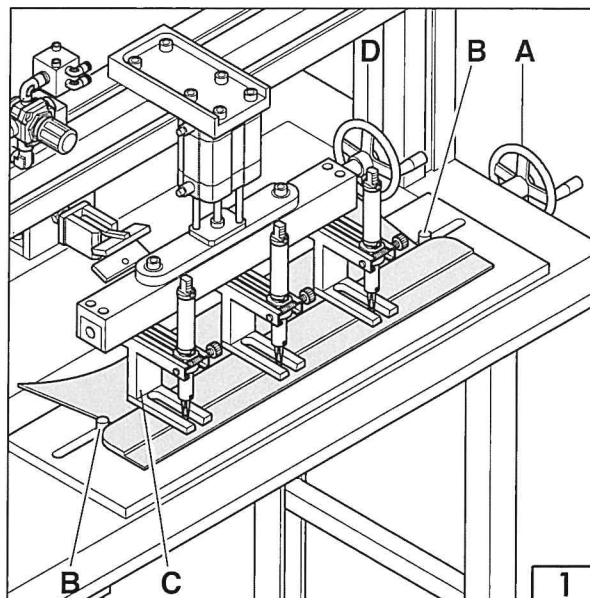


06 - OPERATION

Place a collar under the needle holder unit, as shown in figure 1.

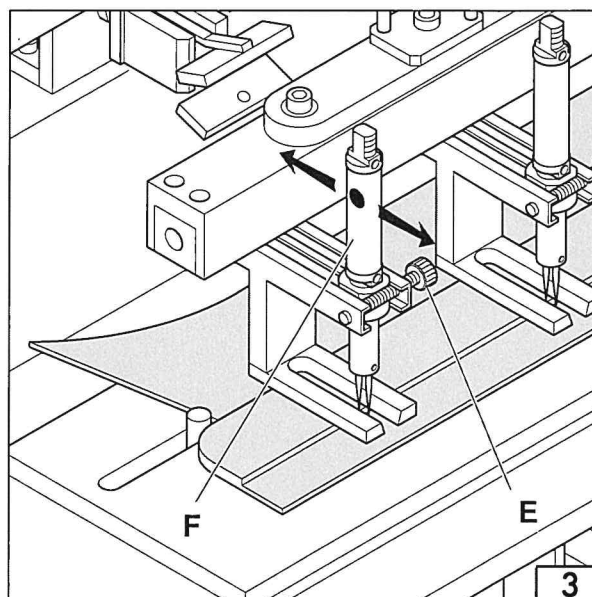
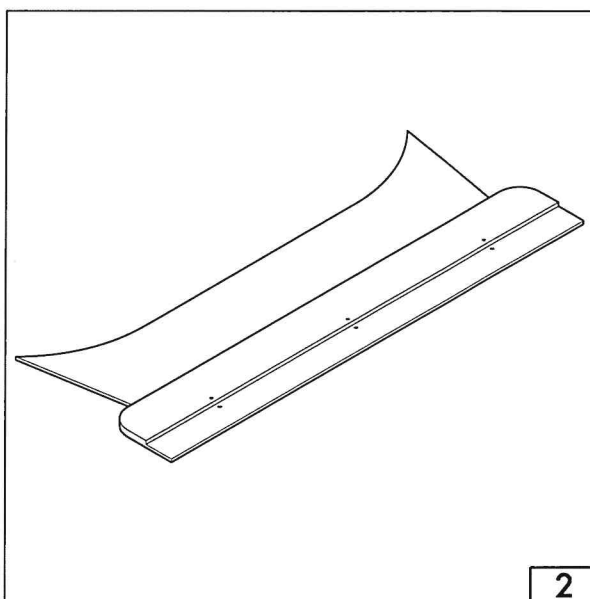
Turn handwheel "A" so that the two lateral stops "B" ensure that the shirt collar is well stretched.

Centre the needle blocks "C" on the collar by turning flywheel "D" until the right position is reached



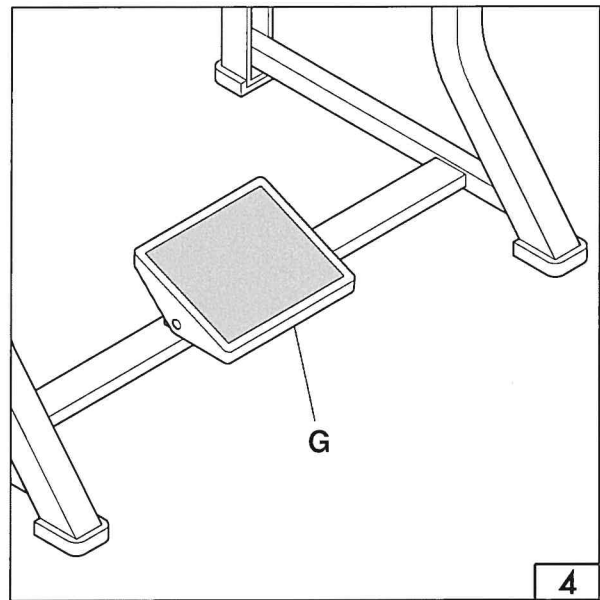
Centre the needles so that a hole is made on the edge and another on the underside of the collar (Fig. 2).

To do this, loosen screw "E" (Fig. 3), move each small cylinder holding the needles "F" to the right position and then tighten screw "E".

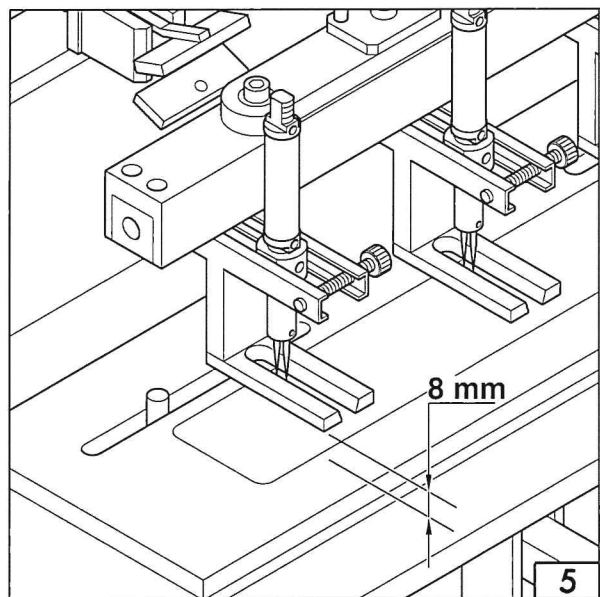


Press pedal “**G**” (Fig. 4) and hold down until the needles leave the fabric and return to their original positions; then release the pedal and introduce a new collar.

The machine makes three marks on the edge and three on the underside (Fig. 2): the intermediate marks are for the centre of the collar and the lateral ones for centring the shoulders.



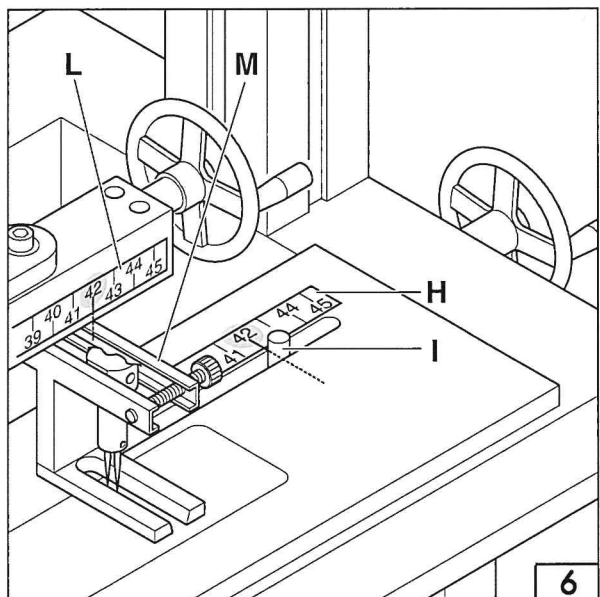
The position of the fabric clamps is adjusted during construction at a max height of 8 mm (Fig. 5) so that the operator can't place his/her hands under the machine when working.



After centring the first collar and deciding on the size, apply the stickers provided so that you always get precise reference marks.

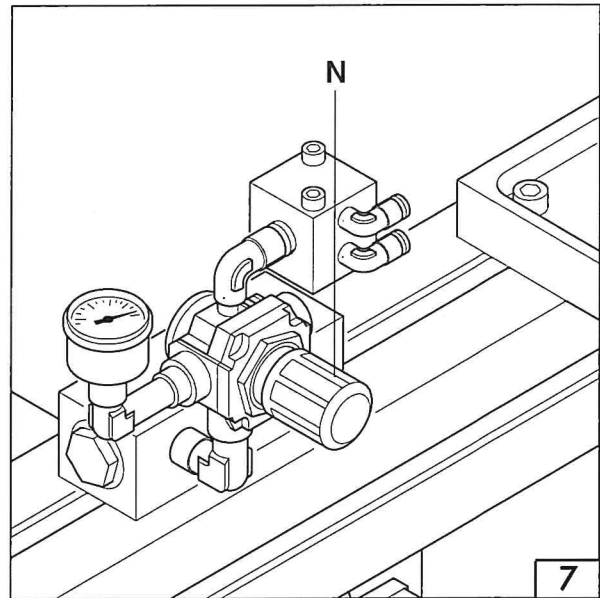
If you decide to change size: apply the large sticker “**H**” (Fig. 6) on the work top in order to position the reference for the size used in line with stop “**I**”.

Then apply the small sticker “**L**” on the needle holder unit so that the size reference is in line with left-hand fabric clamp “**M**”.



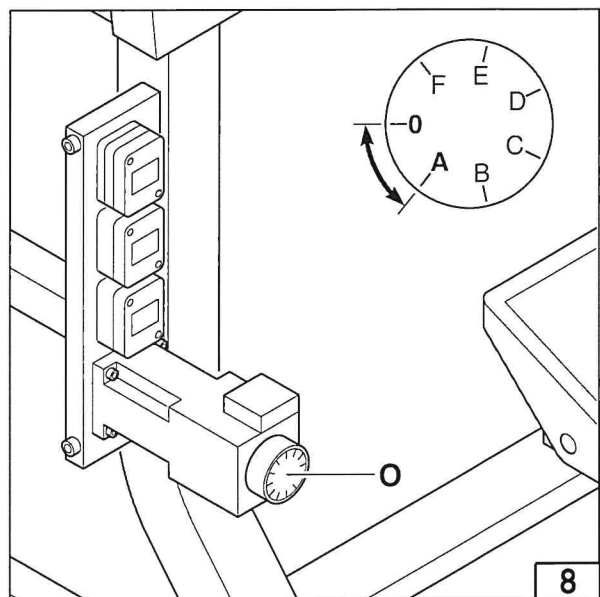
To make a hole (of varying size) in the collar, use pressure regulator “N” (Fig. 7) so that the needles can enter the fabric further as the pressure increases.

The fabric piercing needle timer “O” (Fig. 8) must be adjusted between “0” and max “A” to suit the type of fabric being used.

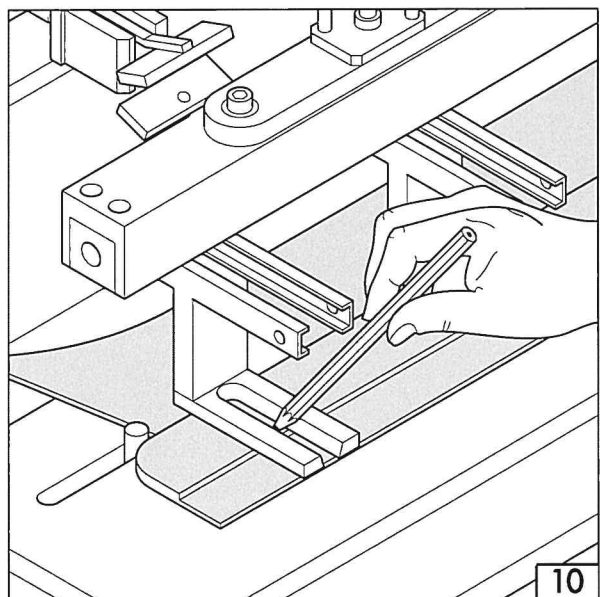
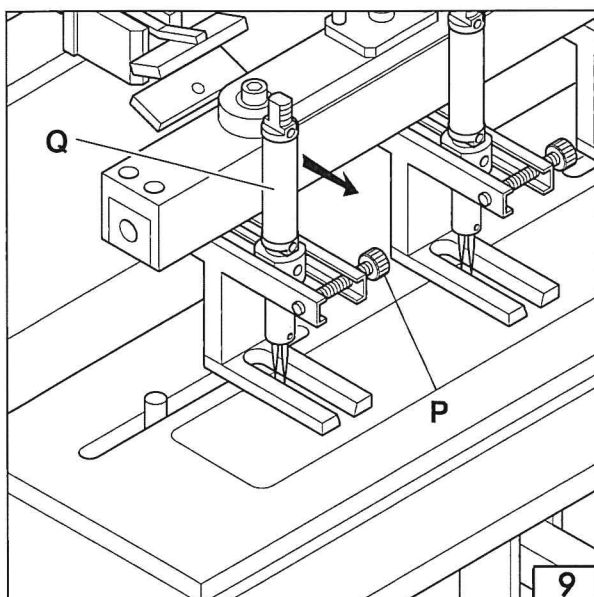


When you use special fabrics with an open weft, where the needle leaves no hole, you can mark the collar with a pencil. To do this:

- Remove screw “P” (Fig. 9) on each fabric clamp and extract the needle holder cylinders “Q”.
- Set timer “O” (Fig. 8) to “Zero”.

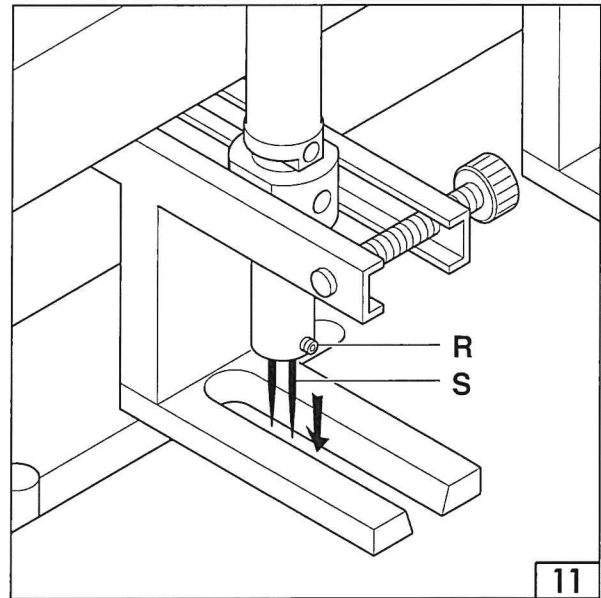


Position the collar, press the pedal and hold down. Mark the collar with a pencil, as shown in fig. 10. Then release the pedal.



If you need to replace the needles to suit the type of fabric used, disconnect the compressed air supply, loosen grub nut “R” (Fig. 11) and then extract needle “S”.

If the needle doesn't come out, loosen screw “P” (fig. 9) and remove needle holder cylinder “Q” from its seat. After replacing the needle, return everything to its original position.



07 - ADJUSTMENTS

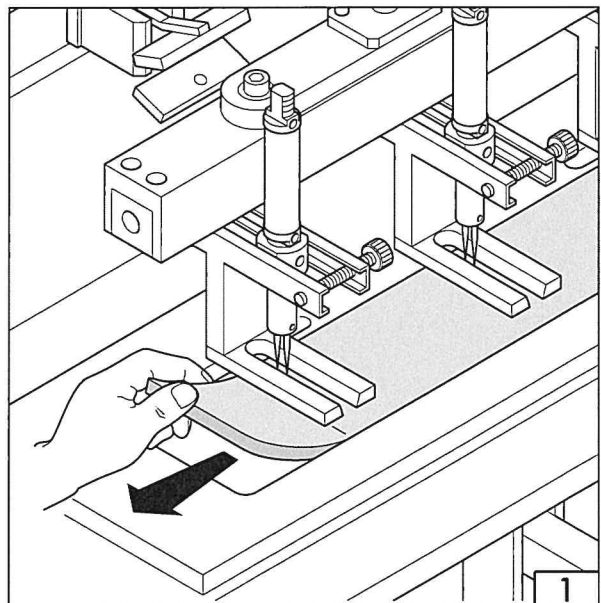


Before performing adjustment, replacement or maintenance operations, disconnect the compressed air. The operations hereinafter described must be performed only by specialized personnel.

A good periodic lubrication of the joints and accurate compliance with the instructions described in this manual will extend machine's efficiency and reliability.

REPLACING THE RUBBER INSERT

Regularly check the quality of the mark. If necessary, replace the rubber insert as shown in fig. 1.



DEMOLITION

In case of machine demolition, separate the different materials making up the machine so that they can be shipped to designated collection sites for re-cycling.

08 - MALFUNCTIONS, CAUSES AND REMEDIES

The needle holder unit doesn't lower when you press the pedal

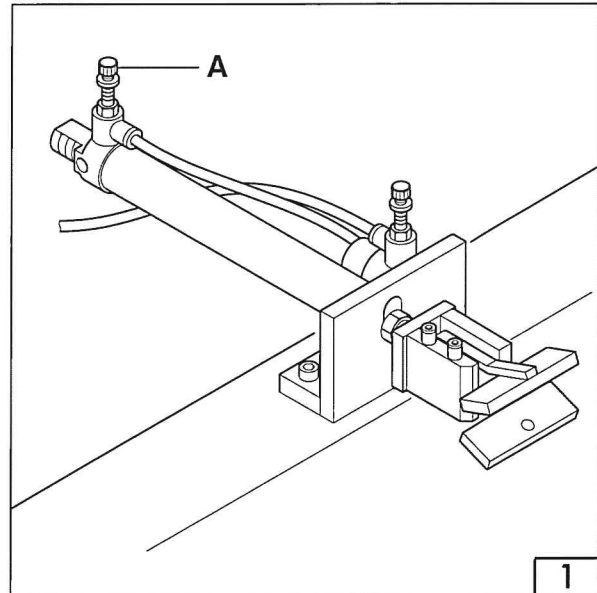
- Check the efficiency of the limit switch under the pedal and of the needle holder unit lowering valve on the side of the filter unit.

The delivery gripper opens late

- Use rear regulator "A" (Fig. 1) and check that the gripper opens in the right position.

Poor quality of the mark on the fabric.

- Check the state of wear of the rubber insert and replace if necessary (see page 10).



09 - SPARE PART SHEETS

For prompt part identification, the following data must be provided:

1. Machine model and serial number
2. Spare part code
3. Sheet in which the spare part is shown

Example: COLLAR MARKER MACHINE mod. 3006 Serial No. Code 10 Table 1