

## 4 - GENERAL DESCRIPTION

### 4.1 - CORRECT USE OF THE MACHINE

The AUTOMATIC ROLL-PACK MACHINE FOR MATTRESSES BM 183 has been designed and built by the Company BROSIOMECCANICA in order to roll-pack mattresses loaded on a conveyor, automatically executing the operations of : feeding the wrapping polyethylene film, rolling-up the mattress inside the film with adjustable pressure, cutting the film after the mattress has been rolled-up, sealing the rolled-up mattress with scotch tape rings and evacuate the rolled-up mattress on a side conveyor-carpet. The working cycle is automatically repeated.



#### WARNING

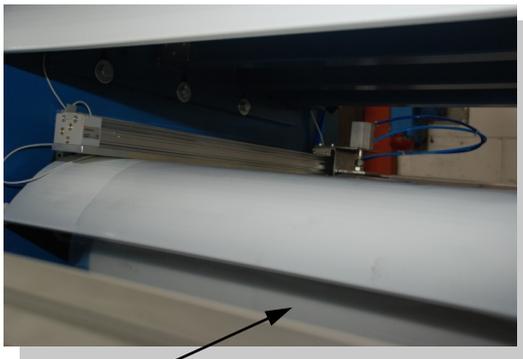
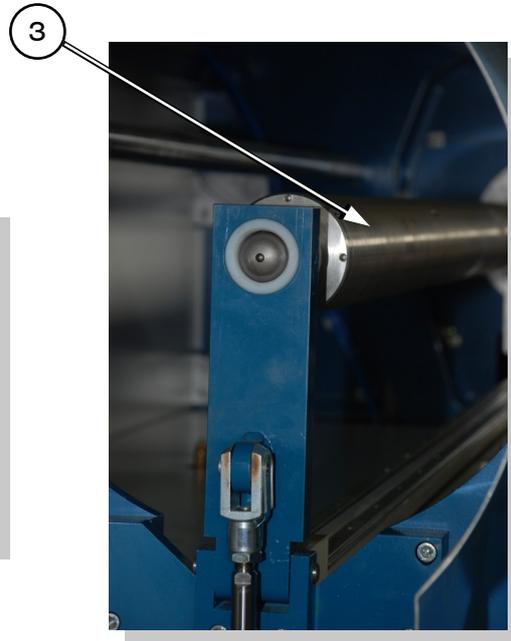
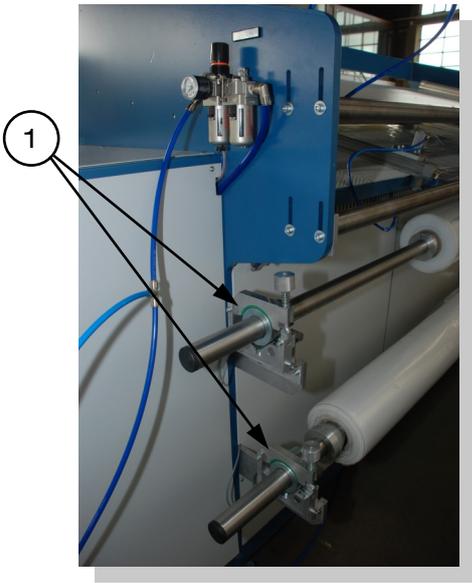
ANY DIFFERENT USE FROM WHAT DESCRIBED IN THE PRESENT BOOKLET, RELIEVES THE MANUFACTURING COMPANY FROM ALL RESPONSIBILITIES FOR EVENTUAL ACCIDENTS TO PEOPLE, GOODS OR ANIMALS AND TERMINATES IMMEDIATELY ANY GUARANTEE CONDITION. MOREOVER, THE IMPROPER USE RENDERS THE USER SOLE RESPONSIBLE TOWARDS THE AUTHORITIES.

### 4.2 - COMPONENTS OF THE MACHINE

The AUTOMATIC MATTRESS ROLL-PACK MACHINE BM183 is composed by a sturdy welded steel structure on which the following parts are mounted:

- A ▶ supports and unrollers [1], for supporting and unrolling the polyethylene-film rolls;
- B ▶ dragging groups [2], single mattress film and double mattress film, for taking the required film from its roll and dragging it till the mandrel; (THE MACHINE CAN BE SUPPLIED WITH ONE OR TWO DRAGGING GROUP)
- C ▶ motorized mandrel [3], for rolling-up the mattress;
- D ▶ rolls-conveyor or motorised-carpet conveyor [4] at the machine entrance, for taking the mattress to the rolling-up position;
- E ▶ idle presser-cylinder [5], for compressing the mattress during the rolling-up phase. The pressure can be adjusted in two ways:
  - by means of two air-cylinders;
  - Moving the proximity on the cylinder [6];
- F ▶ cutter group [7], for cutting the polyethylene film.
  - The translation is driven by an air-cylinder.
- G ▶ closing system, for sealing the mattress after the rolling-up. It can be composed by scotch-tape holders-bar group [8] or hot-air system [14];
- H ▶ motorised carriage [9], for evacuating the mattress after the rolling-up;
- I ▶ motorised-carpet conveyor [10] at the machine exit, for receiving the evacuated rolled-up mattress;
- J ▶ electric cabinet [11];
- K ▶ control panel [12];
- L ▶ remote control panel [13].

picture 2- COMPONENTS



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