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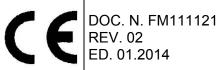
- ISTRUZIONI PER L'INSTALLAZIONE, L'USO E LA MANUTENZIONE IT
- **EN INSTALLATION, OPERATION AND MAINTENANCE**
- DE INSTALLATIONS, GEBRAUCHS UND WARTUNGSANWEISUNGEN
- FR INSTRUCTIONS POUR L'INSTALLATION, L'EMPLOI ET L'ENTRETIEN
- ES INSTRUCCIONES PARA LA INSTALACION, USO Y MANTENIMENTO
- PT INSTRUÇÕES PARA A INSTALAÇÃO, O USO E A MANUTENÇÃO
- ΕL ΟΔΗΓΙΕΣ ΓΙΑ ΤΗΝ ΕΓΚΑΤΑΣΤΑΣΗ, ΤΗΝ ΧΡΗΣΗ ΚΑΙ ΤΗΝ ΣΥΝΤΗΡΗΣΗ
- **RU ИНСТРУКЦИИ ПО МОНТАЖУ, ЭКСПЛУАТАЦИИ И ТЕХОБСЛУЖИВАНИЮ**

Modular 50 S



- ΙT LEGGERE ATTENTAMENTE QUESTE ISTRUZIONI PRIMA DI USARE LA MACCHINA
- ΕN BEFORE USING THE MACHINE PLEASE CAREFULLY READ THE INSTRUCTIONS
- BEACHTEN SIE GUT DIE BEDINUNGSANLEITUNG BEVOR MAN DIE MASCHINE BENÜTZT DE
- FR NOUS VOUS PRIONS DE BIEN LIRE LE MANUEL D'INSTRUCTIONS AVANT D'UTILISER LA MACHINE
- ES LEER ATENTAMENTE ESTE MANUAL ANTES DE USAR LA MÁQUINA
- PT ANTES DE USAR A MÁQUINA LER CUIDADOSAMENTE ESTE LIVRETE
- EL ΔΙΑΒΑΣΤΕ ΜΕ ΠΡΟΣΟΧΗ ΤΙΣ ΠΑΡΑΚΑΤΩ ΟΔΗΓΙΕΣ ΧΡΗΣΕΩΣ ΠΡΙΝ ΧΡΗΣΙΜΟΠΟΙΗΣΕΤΕ ΤΗ ΣΥΣΚΕΥΗ
- RU ВНИМАТЕЛЬНО ОЗНАКОМЬТЕСЬ С ДАННЫМИ ИНСТРУКЦИЯМИ, ПРЕЖДЕ ЧЕМ ПРИСТУПИТЬ К РАБОТЕ С МАШИНО

11	Italiano	Pagina 01	
EN	N English Page 13		
DE	Deutsch	Seite 25	
FR	FR Français Page 37		
ES	Español	Página 49	
PT	Português	Página 61	
EL	Ελληνικά	Σελίδα 73	
RU	Русский	Страница 85	



УПАКОВОЧНОЕ ОБОРУДОВАНИЕ



производство и поставка СЕРВИСНЫЙ РЕМОНТ ЗАПАСНЫЕ ЧАСТИ РАСХОДНЫЕ МАТЕРИАЛЫ

Диагностика, ремонт, сервисное обслуживание.

Запасные части и расходный материал: резина, тефлоновая лента, термонож (лезвие), гель для смазки.

Плёнка термоусадочная полиолефиновая.

«Trade-In» Система Вашего замена оборудования более на новое И производительное.



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TRANSLATION OF THE ORIGINAL INSTRUCTIONS

Index	EN
Charter 4 Faraurard	
Chapter 1. Foreword	nago 14
1.1. Preface	page 14
1.2. Performances of packaging machine 1.3. Machine technical data	page 14
1.5. Machine technical data	page 14
Chapter 2. Film features	
2.1. Films to be used	page 15
2.2. Band A calculation	page 15
Chapter 3. Machine usage conditions	
3.1. Max. weight and dimensions of the package	page 15
3.2. Items that may be packaged	page 15
3.3. Items which must not be packed	page 15
o.o. Remo which must not be pucked	page 10
Chapter 4. Safety standards	
4.1. Description of safety stickers	page 15
4.2. Warnings	page 16
4.3. Individual protection devices	page 16
Chapter 5. Machine installation	
5.1. Transport and positioning	page 17
5.2. Environmental conditions	page 18
5.3. Electrical connections	page 18
Chapter 6. Machine adjustment and setting up	
6.1. Control of direction of rotation	page 18
6.2. Adjustment	page 19
6.3. Manual and automatic cycle	page 13
6.4. Film reel insertion	page 20
6.5. Conveyor belt adjustment	page 20
6.6. Reel support and packaging plate adjustment	page 20
6.7. Execution of 1^ film sealing	page 20
6.8. Film coupler on wrapping machine	page 21
6.9. Introducing the object to be packaged	page 21
6.10. Packaging	page 21
Chantan 7 Oudinam resintaments	
Chapter 7. Ordinary maintenance 7.1. Precautions for ordinary maintenance interventions	page 21
7.1. Pedations for ordinary maintenance interventions 7.2. Sealing blade cleaning	page 21
7.3. Plastic film and other scrap removal	page 21
7.4. Machine cleaning	page 22
7.5. Control of cooling liquid	page 22
7.6. Rubber and teflon replacement	page 22
7.7. Adjustment of the cams	page 23
7.8. Replacement of the supply cord	page 23
7.9. Changing the sealing blade	page 23
7.10. Wiring diagram	page 24
7.10. Withing diagram 7.11. Disassembling, demolition and elimination of residuals	page 24
	. 2
Chapter 8. Guarantee	24
8.1. Certificate of guarantee 8.2. Guarantee conditions	page 24
0.2. Quarantee conditions	page 24
EC declaration of conformity	page 97

Chapter 1. Foreword

EN

1.1. Preface

This manual has been drawn up in compliance with the UNI10893 standard dated July 2000. It is meant for all users in order to enable them to use the machine correctly. Keep it in a place which can be easily accessed in the proximity of the machine and which is known to all users. This manual is an integral part of the machine for safety reasons. We wish to specify the symbols in use here below in order to improve their understanding.



ATTENTION:

Accident prevention rules for the operator. This warning indicates the presence of dangers which can injure the person operating on the machine.



ATTENTION:

Hot parts. Shows the danger of burning, thus involving the risk of a serious accident for the exposed person.



WARNING:

It indicates the possibility of damaging the machine and/or its components.

All reproduction rights of this manual are reserved to the manufacturer. Partial or complete reproduction is forbidden as provided by the law. Descriptions and pictures provided in this manual are not binding. Therefore the manufacturer, reserves the right to make any change considered necessary. This manual cannot be transferred for viewing to third parties without authorisation in writing from the manufacturing company. The machine must be used only for the purpose it was built for. Any other use shall be considered "improper" and therefore dangerous. Before carrying out any operation on the machine it is compulsory to read carefully all instructions provided in this manual, in order to avoid possible damage to the machine, to people and property.

Do not operate if in doubt about the correct interpretation of the instructions.

Contact the manufacturer in order to obtain the necessary explanation.

This machine is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack experience and knowledge, unless they have been given supervision or instruction concerning use of the machine by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the machine.

Upon delivery check that the machine is complete in all parts.

Possible faults shall be immediately reported to the manufacturer.

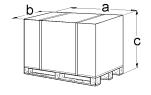
The manufacturing company declines any liability in case of machine improper use and/or in case of damage resulting from operations carried out on the machine that are not mentioned in this manual.

1.2. Performances of packaging machine

You have bought a machine with outstanding features and performance and we thank You very much for Your confidence in choosing it. The system is the only one of its kind and has achieved worldwide success with more than 150000 units operating in the field of packaging and wrapping. The technological concept underling its design, as well as the components and materials used in the manufacturing and testing process are the best assurance of proper operation and long-lasting liability.

Is a sealing machine for plastic films, whether heat-shrinking or not, compact in size and featuring high-performance service.

1.3. Machine technical data





Width "a"	1520 mm
Length "b"	1080 mm
Height "c"	850 mm
Weight	182 Kg

Width "a1"	1565 mm
Width "a2"	495 mm
Length "b"	750 mm
Height "c"	1400 mm
Weight	151 Kg
Maximum production	900 packs/hour

Electrical system

Voltage (V): see data on plate Frequency (Hz): see data on plate

Maximum absorbed power (W): see data on plate Maximum absorbed current (A): see data on plate

Note: when contacting the Manufacturer, always indicate the model and the serial number specified on the plate on the rear part of the machine.



Chapter 2. Film features

EN

2.1. Films to be used

The machine can work with all heat-shrink and non-heat-shrink films, from 15 to 50 microns in thickness, of a technical and food type. To guarantee the best results, use the films marketed by us.

The special features of our films (which may be customised with drawings and text) assure their outstanding reliability, with regard both to compliance with laws in force and to excellent machine performance.

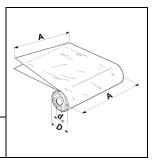
A = 600mm MAX

D = 250mm MAX

d = 77mm



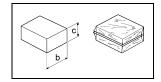
Consult the data and safety sheets of the films in use and observe the corresponding instructions!



2.2. Band A calculation

Band A = b + c + 100mm

By band "A" we mean the width that the film must have to package the product.



Chapter 3. Machine usage conditions

EN

3.1. Max. weight and dimensions of the package

a = 500 mm

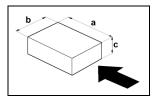
b = 380mm

c = 100mm

Max. weight = 12Kg

Note: The weight to be considered is the total weight distributed on the conveyor belt, and not the one of the single package.

Note: max. dimensions shown on above scheme are referring to the max. dimension of the single package. Refer to chapter 2.2. to get max. dimension of package (b x c); the addition of (b + c) is equal to film roll width 100 mm.



3.2. Items that may be packaged

These machines are capable of packing a wide range of completely different products. They are used successfully in the following sectors: food, marketing, graphics and mailing, large distribution, industry, fabrics.

3.3. Items which must not be packed

The below listed products must absolutely not be wrapped to avoid damages to the machine and serious injuries to the operator in charge:

- Wet and unstable products
- Liquids of any kind and density in fragile containers



- □ Flammable and explosive materials
- Pressurised gas cylinder of any kind
- Bulk and volatile powders
- Any materials and products not listed but which might harm operator and cause damages to the machine.

Chapter 4. Safety standards

EN

4.1. Description of safety stickers

The following safety stickers feature on the machine:

On machine rear panel.



Danger of electrocution!

Risk due to presence of electrical power in electrical system inside rear panel.

When the panel is opened, the machine must be switched off and the plug must be pulled from the socket of the main circuit.





On the guard in front of the sealing blade.

ATTENTION! Hot members. It shows the danger of burning, thus involving the risk of a serious accident for the exposed person.

30

4.2. Warnings

THE MACHINE CAN NOT BE USED BY UNTRAINED PERSONNEL!



During work pay attention to all hot parts of the machine. The temperature they can reach is so high that it can cause burns.



If it is necessary to leave the machine unattended, switch it off by turning the main switch to the "0" (OFF) position!



Smoking is forbidden while the machine is operating!



In case of blocking of the machine or in order to stop it during the automatic cycle press the EMERGENCY PUSHBUTTON (8).

- □ Before starting the automatic cycle, make sure that all necessary adjustments have been made.
- ☐ All adjustments of the machine will be made by the selector (6) in "MAN." position.
- □ Do not touch the sealing blade (27) soon after sealing by reaching beyond the safety guard (28).
- Danger of burns due to residual heat on the sealing blade(27).

 Do not keep on sealing in case the sealing blade breaks (27) but replace it at once.
- □ Do not touch the conveyor belt (19) when it is in motion.



30

31

19

- ☐ Make sure that the roll of film is properly lodget (31).
- ☐ The wheels (30) must be used only for moving the unit short distances across smooth, horizontal floors.

4.3. Individual protection devices



Wear safety shoes that protect feet from impacts, crushing and compression while moving or handling the machine.

Wear safety gloves that protect the hands from crushing and mechanical hazards and while moving or handling the machine.



Wear safety gloves that protect the hands against cutting risks while changing the sealing blade.

Wear safety gloves that protect the hands against the specific risks associated with the materials to be packed (mechanical, chemical) and against coming into contact with the high temperatures present on the seals and/or sealing blade (up to 100°C).



Wear safety gloves that prevent the hands from coming into contact with foodstuffs when packaging them.

Chapter 5. Machine installation

EN

5.1. Transport and positioning



- · Handle with great care during transport and positioning!
- . Before any movement, make sure that the lifting means is suitable for the load to be lifted!

Cut the strap with scissors make sure you protect your eyes by wearing glasses and withdraw the cardboard. Remove the screws and any plate intended to fasten the machine to the pallet. Take away the reel support.



Lift the machine from the pallet by using a fork lift truck. Fit the 2 legs using the 4 screws taken from the plates plus the other 4 supplied in the kit.

Screw the 4 wheels onto the legs, positioning those with the brake at the front.

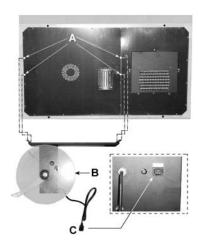
2)



Arrange the machine on the floor.

Secure the film transmission ring (21) by screwing it into the holes present in the left-hand leg and the transmission roller (20) in the holes present on the lefthand side of the cover.

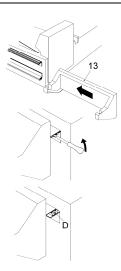
3)



Position the coiler (B) at the holes (A) in the base of the machine, using the 4 screws supplied in the kit.

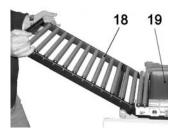
Make the coiler electrical connection by plugging the plug (C) into the socket on the back of the machine.

4)



Place the reel support (13) in the special guides. Get over the blocking device (D) with a tool (for example a screwdriver).

5)



Position the roller way (18) (optional) coupling it to the conveyor belt (19).

Chapter 5. Machine installation

EN

5.2. Environmental conditions

- □ Place the machine level on the floor in a suitable environment free from humidity, gases, explosives, combustible materials. The machine may only be installed on smooth, flat non-inflammable surfaces
- ☐ Leave a minimum space of 0,5m around the machine so that not to obstruct air inlets
- Once the correct position is achieved, lock the machine by means of the wheel brakes.

Working environment conditions:

- ☐ Temperature from + 5°C to + 40°C
- □ Relative humidity from 30% to 90%, without condensation.

The lighting of the operation room shall comply with the laws in force in the country where the machine is installed. However, it shall be uniform and allow good visibility in order to safeguard the operator's safety and health.

MACHINE PROTECTION FACTOR = IP20

THE AIRBORNE NOISE MADE BY THE MACHINE IS LOWER THAN 70 dB(A)

5.3. Electrical connections



OBSERVE HEALTH AND SAFETY REGULATIONS!

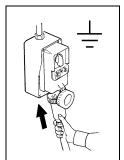
If the machine is not equipped with the power supply plug, use a plug that is suitable for the voltage and amperage values described by the rating plate and that can comply with the rules in force in the installation country.

GROUNDING OF THE UNIT IS OBLIGATORY!

Before making electrical connections, make sure the mains voltage matches the one on the plate on machine rear and that the ground contact complies with the safety rules in force.

In case of doubts about the mains voltage, contact the local power supply company.

Insert the plug on the cable from machine electrical cabinet in a mains power supply socket that can be reached easily by the operator.



Chapter 6. Machine adjustment and setting up

EN

6.1. Control of direction of rotation



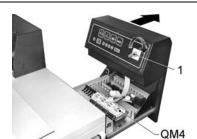
Before starting machine operation check the correct direction of rotation by following these instructions:

1)



Please check that the emergency pushbutton (8) is on position "Not Pressed".

2)



Turn the main switch (1) to pos. 1.

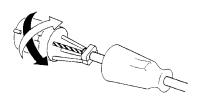
Partially extract (about 20 cm) the electrical unit after having removed the four fastening screws.

Slide guard cover of QM4 contactor and manually push the button of the contactor itself.

3)



Check the conveyor belt for correct rotation, which shall match the direction that is shown in the figure. 4)



Otherwise invert two of the three phases of the electrical plug.

- 5) Push the emergency pushbutton (8) to lock it in the "Inserted Emergency" position.
- 6) Close the electrical unit again and release the emergency pushbutton (8) by turning it to the right.

Note: The direction of rotation check should be carried out every time you change the electrical plug!

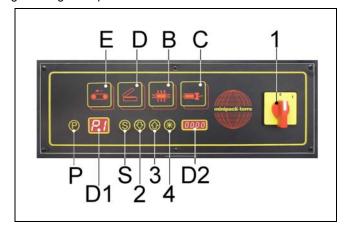
Chapter 6. Machine adjustment and setting up

EN

6.2. Adjustment

The machine is fitted with a control panel, from which all programming and operation functions can be set.

- 1 Main switch
- **B** Warning light for lowered frame
- **C** Sealing warning light
- **D** Pause warning light
- E Belt advancing light
- P Programs selection button
- D1 Display.
 - Displays selected functions and relative settings
- S Variables selection switch
- **2** Button "DECREASE".
 - Reduces set function values
- **3** Button "INCREASE".
- Increases set function values
- 4 Reset button
- D2 Piece counter display



ELECTRONIC BOARD FEATURES

The machine is equipped with 6 selectionable programs.

Each program is composed by 5 variables which can be modified.

Variable		Field	Field features	
1. Sea	aling	0 ÷ 3.2	values expressed in seconds	
2. Bel	elt delay time after sealing	0 ÷ 9	tenth-seconds values	
3. Tim	me for lowered sealing frame	0.0 ÷ 9.9	values expressed in seconds	
4. Bel	elt advancing time	0.0 ÷ 3.0	values expressed in seconds	
5. Aut	tomatic cycle pause time	0.0 ÷ 9.9	values expressed in seconds	

The machine is equipped with a piece counter to show on display (D2) the number of sealings. Such a value can be put to zero at any time through reset button (4).

PHASE NR. 1 = SWITCHING THE MACHINE ON

Turn the main switch (1) into pos. 1.

The display (D1) turns on and the number of the currently selected program will appear.

PHASE NR. 2 = PROGRAMS SELECTION

Push button (P) to select the number of the program.

PHASE NR. 3 = VARIABLES PROGRAMMING

Through button (S) it is possible to look through the variables of the selected program, while through buttons (2) and (3) the memorized values can be modified.

To validate modifications, press button (S) until the number of the program appears on the display.

The <u>belt delay time after sealing</u> can be modified; there is not a LED indicating this variable which is shown with an "**r**" on the left display, while the right one shows the time which has been set. At the end of all variables to be adjusted, the display will show the code of the program just chosen (for example P1).

Note: In case during programming the B limit switch is being pressed, the unit quits the scheduling, the selected program is executed and the display (D1) shows the number of the program.

PHASE NR. 4 = PERFORMANCE

Once all adjustments have been made, the machine is ready to start working.

In case of "ANOMALY" the display (D1) will show as follows:

E 1	Machine has been switched on with lowered sealing frame.	
	Lift it up.	
E 2	Machine has been switched on when the (S) button was pressed. Release the button. In case the error	
	signalling still persists, check the correct functioning of the button.	
E 6	The limit switch to cut out security is broken (it is always closed). Check the correct functioning of the limit switch	
	to cut out security, then switch the machine off and on again.	
	Sealing frame not in proper position when switching machine on. Press emergency button to lift sealing frame.	
	When the frame is up, signalling will disappear.	

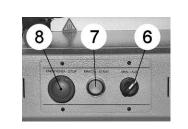
6.3. Manual and automatic cycle

The machine can be operated with a manual as well as with an automatic cycles. To carry out only one operating cycle rotate the selector (6) to the "MAN." position and press the start button (7). To operate the automatic cycle rotate the selector (6) to the "AUT." position and press the start button (7).



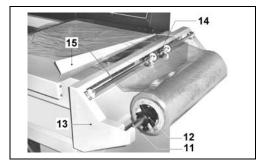
The machine is equipped with an **EMERGENCY PUSHBUTTON (8)** which blocks it immediately when pressed, bringing the sealing frame into start position.

The machine has also an automatic safety system on the welding frame which intervenes in case the lowering of the frame is hindered, bringing the frame back in the start position.



6.4. Film reel insertion

- ☐ Insert the reel of film on the roller (11) and block it through the centering cones (12).
- □ Position the roller on the film reel support (13).
- □ Run through the micropunches (14).
- ☐ Run the film lower layer under the packaging plate (15).
- ☐ Run the film upper layer over the packaging plate (15).



6.5. Conveyor belt adjustment

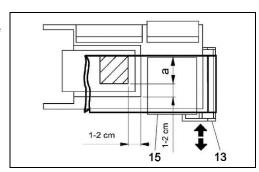
Adjust the height of the conveyor belt (19) with the special handwheel (20).

Note: In order to get a good packaging the conveyor belt should be positioned in such a way, that the film sealing is made at half the packaging height.



6.6. Reel support and packaging plate adjustment

The reel support (13) and the packaging plate (15) must be adjusted according to the width of the article to be packaged, leaving a space of about 1-2 cm between the article and the welding edge.



6.7. Execution of 1[^] film sealing

To carry out the 1^ sealing move the film, as shown in the figure. Rotate the selector (6) to "MAN." position and press the start button (7). The machine will automatically start operating, and the first sealing will be performed on the film's left side.

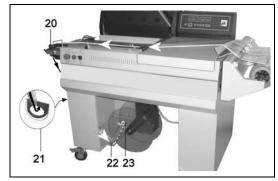
With the right hand detach the film from the sealing blade.



6.8. Film coupler on wrapping machine

Carry out a number of cycles sufficient to make a strip of scrap film. Guide this film strip around the transmission rolls (20) and (21) and the driving roll (22) and couple it with the coiler (23).

The machine is now ready to start the packaging.



6.9. Introducing the object to be packaged

Lift the film edge on the packaging plate (15) with your left hand. Introduce the product with your right hand in the film and move if to the left until it settles on the conveyor belt (19) leaving about 1-2 cm space between the product and the outer edge of the sealing frame.



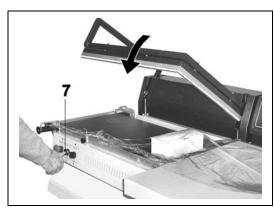
6.10. Packaging

Press the ON push-button (7). The sealing frame will automatically lower to cut and seal the film.

When the frame opens again, the packed product will be fed towards the roller way (18).

Thus, the sealing area will be released and ready to start a new sealing cycle.

If the machine is set to operate in automatic mode, it will restart work according to the rhythm set by programming.



Chapter 7. Ordinary maintenance

EN

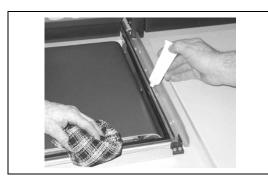
7.1. Precautions for ordinary maintenance interventions ORDINARY MAINTENANCE, MUST BE EXECUTED BY QUALIFIED STAFF APPROPRIATELY TRAINED.



Before proceeding to maintenance, switch the machine off and disconnect it by operating on the master switch and wait for the machine to cool down!

7.2. Sealing blade cleaning

- Using a dry cloth, wipe any film residues off the sealing blade: do this at once after sealing since they are easier to remove when still warm
- ☐ For improved cleaning, regularly lubricate the sealing blade with the Teflon non-stick grease supplied with the machine.

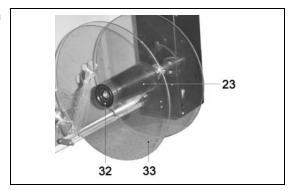


Chapter 7. Ordinary maintenance

EN

7.3. Plastic film and other scrap removal

When the bobbin of the automatic coiler (23) is full, remove the film by unscrewing the knob (32) and taking away the disk (33).



7.4. Machine cleaning

Use a cloth moistened with water to clean the machine.

If the machine works in a dusty environment it is necessary to clean it more frequently inside as well as outside.

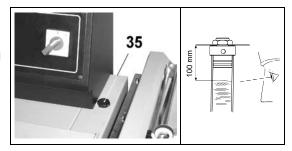
We especially recommend you vacuum up the dust which settles on the interior electrical components.



7.5. Control of cooling liquid

Check the level of the cooling fluid once every 4 months. To do so, unscrew the plug (35)

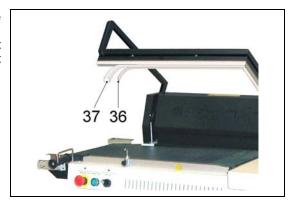
Check that the level of the liquid is not lower than the indicated measure, if so, add a mixture of water and antifreeze (10%).



7.6. Rubber and teflon replacement

When the Teflon-strikers (36) are worn out, replace them with spare parts, paying attention that the application is linear and even. Before applying the Teflon self-adhesive strip clean the rubber part (37) with a detergent. If also the rubber (37) is damaged, replace it as follows:

- 1. remove the old rubber
- 2. clean its housing
- 3. apply some drops of glue in the housing
- 4. insert the new rubber in a linear way
- 5. clean the rubber with a detergent
- 6. apply the self-adhesive Teflon-strip.



FN

7.7. Adjustment of the cams



The adjustment of the cams must only be carried out by authorised personnel!

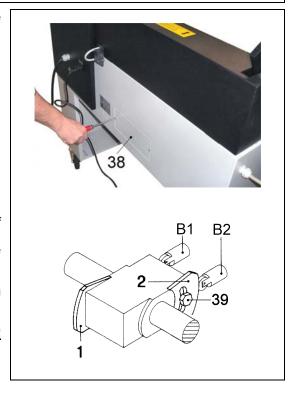
It is necessary to disassemble the panel (38) at the back of the machine in order to get access to the cams.

There are 2 cams which control:

- 1. The lowering of the sealing frame and thus the pressure of same on the sealing blade.
- 2. The maximum opening of the sealing frame and the start of the conveyor belt.

The adjustment is made by loosening the screw (39) and rotating the cam in the right position.

Attention: for the adjustment of the cams, shift them gradually!



7.8. Replacement of the supply cord



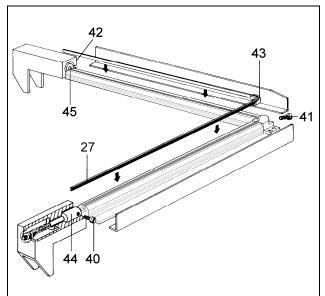
ATTENTION!

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

7.9. Changing the sealding blade

To replace the sealing blade (27) follow this procedure:

- Disconnect power to the machine
- ☐ Unscrew the three screws (40), (41), (42)
- □ Remove the old sealing blade
- ☐ Clean the housing and if necessary replace the insulating teflon (43) of the central clamp
- □ Insert the new sealing blade starting from the central clamp and tighten the screw (41)
- ☐ Trim the new sealing blade according to the holes of the pistons (44) and (45)
- Complete the insertion if the sealing blade in the whole housing
- □ Push the rear piston completely onwards (45) towards the sealing blade to make it enter the hole of the piston itself and then tighten screw (42)
- □ Push the front piston (44) completely onwards towards the sealing blade to make it enter the hole of the piston itself and then tighten screw (40)
- ☐ Trim the teflon projecting from the central clamp
- Make sure that the sealing blade is well positioned and in tension.



Chapter 7. Ordinary maintenance

EN

7.10. Wiring diagram (page 98/99).

B1	Frame descent limit switch	M4	Rewinder motor
B2	Frame rise limit switch	Q1	Main switch
B3	Safety device cutting out limit switch	Q2	Rewinder switch
B4	Safety limit switch	QM1	Sealing blade contactor
B5	Rewinder limit switch	QM2	Frame rise contactor
E1/2	Cooling fans	QM3	Frame descent contactor
ER1	Sealing blade heater	QM4	Belt contactor
F1	Sealing blade fuse 10.3X38	QM5	Accessories contactor

F2 Motor fuse 10.3X38

F3 Auxiliary transformer fuse 10.3X38

F4 Ventilator / pump motor fuse 5X20

F5 Start button

F6 Manual selector

F4Ventilator / pump motor fuse5X20S2Manual selectorFU1Board fuse5X20SK1Control boardK1Electronic control boardT1Cutting transformerM1Belt motorT2Auxiliary transformer

M2Frame drive motorX1Rewinder power supply socketM3Pump motorX2Rewinder power supply plug

7.11. Disassembling, demolition and elimination of residuals



ATTENTION!

All operations about disassembling and demolition must be done by qualified personnel with mechanical and electrical expertise required to work in security conditions.

Proceed as follows:

- 1. disconnect machine from power mains
- 2. disassemble components

All wastes must be treated, eliminated or recycled according to their classification and to the procedures in force established by the laws in force in the country the equipment has been installed.



The symbol indicates that this product shall **not** be treated as household waste.

By assuring that the product will be properly disposed of, you will facilitate the prevention of potential negative effects for the environment and the man's health, which might be otherwise caused by the improper waste treatment of this product.

For more detailed information about the recycling of this product, please contact the product seller or, as an alternative, the after-sales service or the corresponding waste treatment service.

Chapter 8. Guarantee

EN

8.1. Certificate of guarantee

The guarantee runs for 12 months after the installation date under the conditions set forth on the instruction manual. Fill in the card with all data requested, tear out along the perforations and send in.

8.2. Guarantee conditions

The guarantee runs for 12 months and goes into force on the installation date of the machine. The guarantee covers free replacement or repair of any parts due to defects arising from faulty material. The repairs or replacement are usually carried out at the manufactures, with transport or workmanship at buyer's charge. If the repair or replacement is carried out at the buyer's place, he shall bear the travelling, transfer and workmanship charges. Work under guarantee can be carried out exclusively by the manufacturer or by the authorised dealer. In order to be entitled to repairs under the guarantee, the faulty part must be sent for repair or replacement to the manufacturer or his authorised dealer. The return of such repaired or replaced part will be considered to be the performance of the guarantee.

The guarantee is voided:

- 1. in case of failure to mail the CERTIFICATE OF GUARANTEE, duly filled in and signed, with in 20 days after the date of purchase.
- 2. in case of inappropriate installation, power supply, misuse and mishandling by unauthorised persons.
- 3. in case of changes made to the machine without prior agreement in writing by the manufacturers.
- 4. if the machine is no longer the property of the first buyer.

The manufacturer decline any responsibility for damage to persons or things in case of inappropriate installation or connection to the power mains or omission of connection to earth or in case of any mishandling of the machine. The manufacturer undertake to carry out any variations and changes made necessary by technical and operating requirements.

IN THE EVENT OF DISPUTES THE COURT OF BERGAMO (ITALY) SHALL HAVE SOLE JURISDICTION.