



ROLLER IRONERS

INDUSTRIAL FLAT BED SHEET IRONING MACHINE

**INSTRUCTIONS FOR USE
MAINTENANCE AND
INSTALLATION**

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1. CONTENTS OF THE MANUAL

This manual is dedicated to the description of the use, maintenance and installation of industrial ironing machines called trough ironers. It is drawn up in consideration of the Community directives in force. The information is addressed to the installer and the user, who must be sure that they have fully understood it before working on the machine. The user manual must always be available for reference. In case of loss or damage, ask the manufacturer for a new manual. The manufacturer is not responsible for the consequences deriving from careless use of the machine due to a failure to read or incomplete reading of this manual. The manufacturer reserves the right to modify the specifications mentioned in this manual or the characteristics of each machine. Some figures in this manual may show parts that are partially different from those assembled on the machines. Drawings and technical data may be modified without notice.

This manual is supplemented by the following annexes: EU declaration of conformity, technical data sheet and wiring diagram. All documents are contained in an envelope that accompanies the machine. The wiring diagram, depending on the versions of the machine, is contained inside the electrical panel.

The manual and its attachments are an integral part of the appliance: therefore they must be kept and accompany the appliance, even in the event of transfer to another user.

The manual, the same attachments and the exploded view with the relative spare parts, can be found in the technical area of the manufacturer's website. Before accessing the site, it is essential to have the serial number of the machine available.



ATTENTION!

The manufacturer declines all responsibility for possible inaccuracies contained in this manual due to printing or transcription or translation errors. It reserves the right to make any changes to its products that it deems necessary or useful, without affecting their essential characteristics. It is forbidden to reproduce, even partially, texts or images of this manual, without the prior authorization of the manufacturer.

2. SAFETY RULES



ATTENTION!

Risk of suffocation, permanent injury or disability!

Failure to comply with the following safety regulations may result in damage to people, property and animals.

The installation and maintenance of the machines described in this manual must be carried out by authorized personnel who are familiar with the product and compliance with the European standards of the sector. Repairs carried out incorrectly may seriously endanger the safety of the user.

Before using the machine, read these instructions carefully: make the instructions accessible to all persons in charge of operating the dryer.

The intended use of the ironers described here is the professional ironing of clothing and linen: any other intended use is therefore prohibited unless it has been previously authorized in writing by the manufacturer.

Never put your hands between the lower chute and the roller with the machine on or when the machine is still hot.

Objects other than ironing must not be placed in the machine.

It is forbidden to iron garments that are soaked in substances that are manifestly harmful to the health of operators, poisons or carcinogenic products.

Do not approach or iron fabrics soaked in combustibles or flammable substances, including oils and greases, with this machine to avoid the risk of fire and explosion.

Always follow the ironing instructions on each item of laundry with great care.

It is forbidden to use the car for children under 16 years of age.

Do not allow children to play with the equipment.

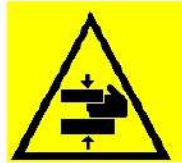
Keep packaging materials out of the reach of children.

Keep detergents or ironing chemicals out of the reach of children.

Keep children and pets away from the appliance door when it is open and the machine is running.

Additional connections to the machine from the outside, not carried out in a workmanlike manner, relieve the manufacturer of any liability.

IMPORTANT WARNINGS



DANGER OF CRUSHING

It is forbidden to work with the side doors open or with the machine guards removed!

It is forbidden to insert your hands under the roller, even when the machine is stationary!

In order to avoid burns or crushing of the limbs, it is absolutely forbidden to remove the protective panels and safety systems, even temporarily!

Always check that the safety devices are working correctly every time the machine is started! At each start-up, carry out the control procedure indicated in the relevant paragraph.

It is mandatory to know the operation of the machine and its emergency systems!

The operator, when introducing the fabric into the machine, must not accompany it under the hand protection bar. The fabric must be flattened on the entrance board, where any wrinkles or folds must be removed. Then the fabric must be accompanied on the roller that will drag it into the heating bed.

It is strictly forbidden to iron fabrics folded in several layers or several layers of overlapping fabric.

It is forbidden to introduce bars, splints or metal objects between the ironing trough and the roller. In case of emergency, always carry out the procedures described below.



BURN HAZARD

The machine, by the very nature of the activity for which it is intended, presents the risk of burns.

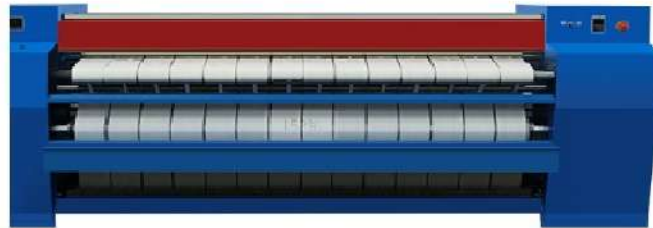
Any burns can be caused:

- From contact with the fabric coming out of the machine;
- From contact with the upper edge of the conch during tissue insertion;
- From contact with the chest following its opening;
- From contact with the trough during maintenance operations carried out "hot";
- From contact with the extracted tissues after being trapped between the cylinder and the heating bed;



ATTENTION

To avoid possible burns, never insert your hands under the roller!



The machine must only be used by suitably trained personnel at all times and in the presence of at least one other operator!

CAREFULLY READ AND INFORM ALL OPERATORS ABOUT THE INTERVENTION SYSTEMS IN THE EVENT OF A SUDDEN POWER FAILURE OR IN THE EVENT OF ENTRAPMENT: CHECK THE POSITION OF THE RELEASE SYSTEMS



ELECTROCUTION HAZARD

Any work on the electrical parts of the machine must only be carried out by qualified personnel and after the power supply to the machine has been removed.

The power and control circuits may only be tampered with by the manufacturer's personnel, otherwise the warranty conditions will be voided.

On the electrical panel there is the following monitor plate which must be replaced with an identical one if it has been damaged or removed.



ATTENTION

Even when the position of the main switch is "0", the cables upstream of the switch are live!



PSYCHOPHYSICAL CONDITIONS OF THE OPERATOR

The operator in charge of the machine must be in perfect psychophysical condition; During work, the vertical posture in front of the machine must be assumed. Sudden movements or uncontrolled gestures, for example when picking up and inserting the fabrics to be ironed, must be avoided in order to avoid dangerous collisions with the machine frame.

If other operators or other personnel are present, they must not be a source of distraction for the operator in charge of the machine.

When operating the machine, the operator should not be distracted by televisions, radios, etc., or be subject to any other source of distraction.



LIGHTING

In the room where the machine is installed, there must be uniform illumination of 300-500 lux intensity, and disturbing glare must be avoided.



ATTENTION!

These warnings do not cover all possible risks. The user must therefore proceed with the utmost caution in compliance with the regulations.

3. LIABILITY

The instructions in this manual do not replace but supplement the obligations for compliance with current legislation on safety and accident prevention regulations. With reference to what is reported in this manual, the manufacturer declines all responsibility in the event of:

- use of the machine contrary to the laws in force on safety and accident prevention.
- incorrect installation of the machine.
- Lack of periodic and scheduled maintenance.
- failure or incorrect observance of the instructions provided by the manual.
- voltage and mains power supply defects.
- unauthorized modifications to the machine.
- use of the machine by unauthorized personnel.

4. TRANSPORT AND UNPACKING

During transport, and any storage, the equipment must remain within the following environmental conditions:

- Temperature: -25°C÷55°C
- Humidity: 0%÷90% (non-condensing)

It is recommended to check the machine upon receipt, taking care to report to the carrier any damage caused, during transport, both to the internal components and to the external bodywork.



ATTENTION!

During the handling phase, use a forklift with forks that are as open as possible.



ATTENTION!

During the handling phase, the machine must remain in a horizontal position. The machine must never be placed in an upright position!

The machine must be completely unpacked near the installation site.

The straps must be cut, and the cover wrap removed.

The packaging materials must not be dispersed in the environment and must be placed in the appropriate collection spaces according to current regulations.

Open both side doors with the wrench provided.

Use a wrench to remove the pallet fastening bolts, which are visible at the base of the right and left shoulder of the machine.



ATTENTION!

Check the net and gross weight on the technical data sheet, attached to the machine documentation: check compatibility with the available lifting equipment.

To get the ironer off the pallet, pass the forks of the forklift under the chute of the machine (taking care to avoid scratching the paint).

Lift the machine with the forklift: remove the pallet from underneath and position the machine.

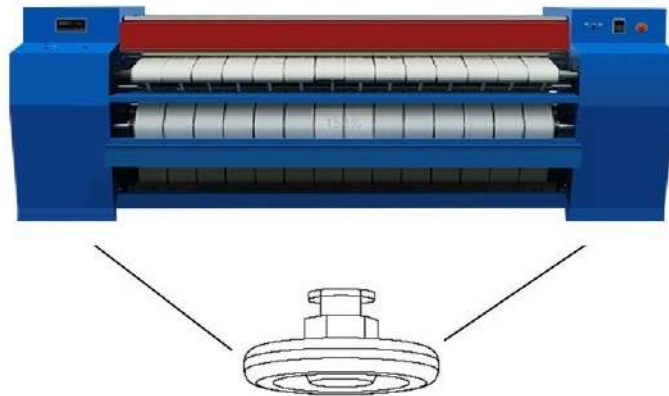


ATTENTION!

The pallet must not be used as a normal machine stand! The machine must always be taken off the pallet and positioned as described in the relevant paragraph.

5. INSTALLATION AND PLACEMENT

All installation operations must be carried out by professionally qualified personnel. Place the machine on a flat surface in a stable and horizontal manner using the adjustable feet located at the base of the hips. The feet are adjusted from the outside, screwing or unscrewing them until they reach level positioning.



Check that the floor capacity is compatible with the weight of the machine which can be detected from the attached data sheet. The load of the machine can be considered totally static. Make sure the floor is clean and heat-resistant.

For proper use, operation, and maintenance, leave a clearance of at least 500 mm around the machine. The ambient temperature should be between +5°C and +40°C and the relative humidity should be 50%. The environment in which the machine is installed must have sufficient air exchange.

The degree of protection is IP24.

Do not install or operate the machine if it is damaged.

Correct operation is guaranteed up to altitudes of 1000 m above sea level.



ATTENTION!

Ensure the supply of clean air to the machine and not air contaminated with chlorine, fluorine or other solvent vapors.

Do not use or store petrol, petroleum or other flammable materials in the vicinity of the machine. This may cause fire or explosion.

Provide a fire extinguisher near the machine chosen and maintained according to current regulations.



ATTENTION!

6. The machine **MUST NOT** be installed outdoors, but in a **CLOSED** environment specifically built and used as a laundry.

7. INFORMATION ON NOISE EMISSION

Airborne noise produced by the machine produces a continuous A-weighted sound pressure level of less than 70 dB.

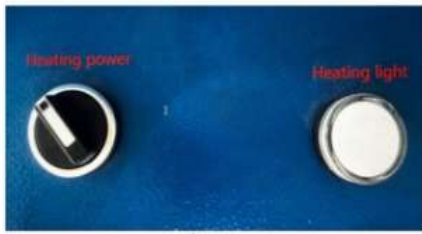
8. ELECTRICAL CONNECTION



ATTENTION!

The electrical connection must be carried out by professionally qualified personnel and must meet the requirements of current local and national rules and/or regulations. Check that the supply voltage corresponds to that indicated on the rating plate (voltage tolerance $\pm 10\%$, frequency tolerance $\pm 1\text{Hz}$).

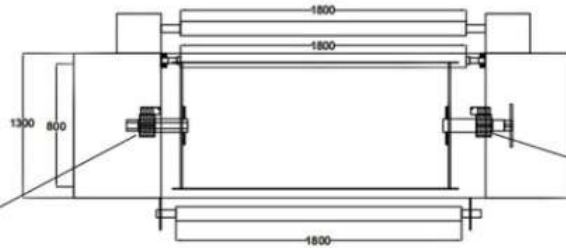
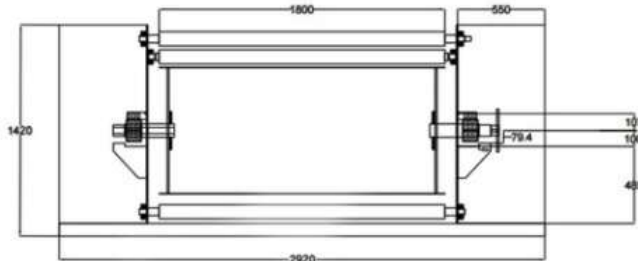
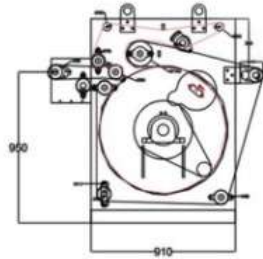
The license plate data is visible on the rear of the machine. For the connection, use a cable of the type H05 VV – F or higher, sized according to the data on the nameplate. Insert upstream of the appliance an omnipolar disconnection device interlocked with a padlock (e.g. a residual current circuit breaker) with an opening between



Electric Door

Safety Switch

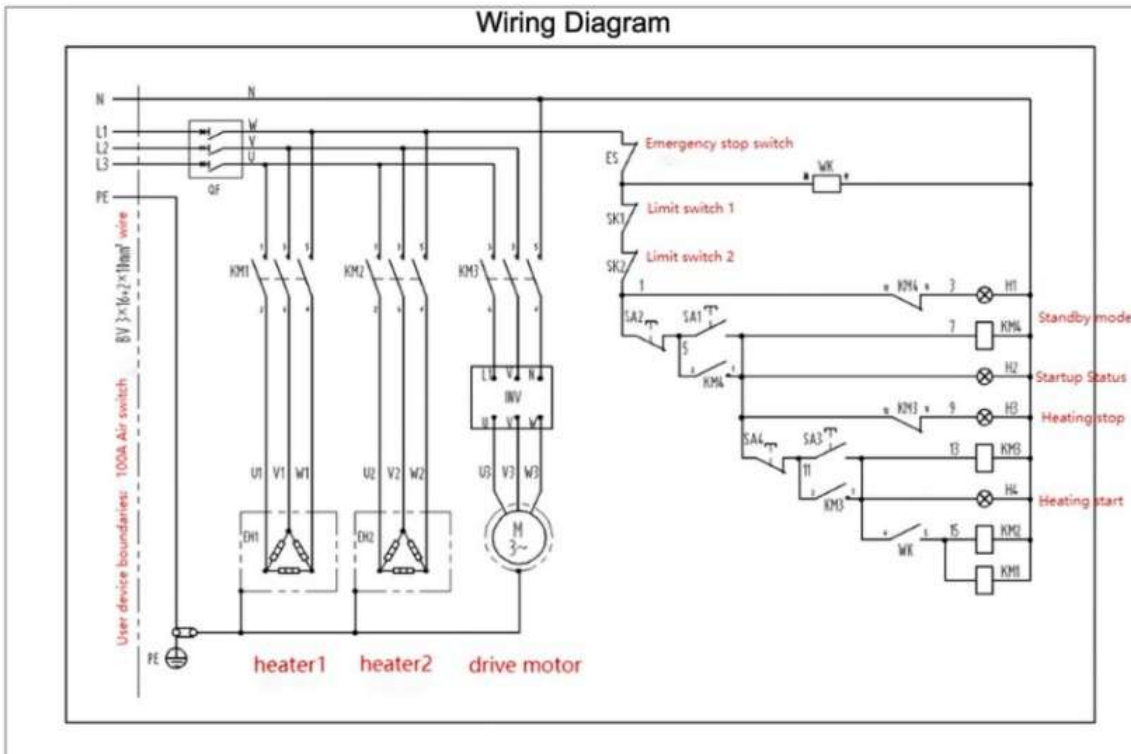
Mechanical Door



Heater Connection

Heater Connection

Wiring Diagram



the contacts that allows complete disconnection in the conditions of overvoltage category III, and in compliance with the regulations in force on the subject.

The breaking capacity of the circuit breaker must be at least 10 kA.



ATTENTION!

Provide electrical protection by means of a type B RCD interrupting device (sensitive to the average current value).

Make sure that the main switch of the system is in the "0" (OFF) position when connecting the machine.

Open the left side door using the key that is delivered with the machine documentation.

Remove the door by rotating it at the base.

Pass the power cable through the cable gland located inside the left shoulder of the machine and lay it on the channel so that it can reach the disconnecter.

The power supply must in fact be carried out on a marked disconnecter and earth terminal (already present in the appliance).

Depending on the type of power supply provided on the machine's rating plate, connect the wires, with the help of the tip of a screwdriver, to the disconnecter and the earth terminal marked as follows:



: Ground Clamp

L1, L2, L3: Phase connections

N: Neutral connection

When installing or replacing the power cable, the earth conductor must be at least 5 cm longer than the others.



ATTENTION!

In machines equipped with a microprocessor or manual, but with the roller speed control (presence of the inverter in the electrical panel) it is not necessary to check the direction of rotation of the motor, since the suction fans are single-phase, and that the roller motor is driven by an inverter.

In machines NOT equipped with inverters, it is instead necessary to check that, during ironing, the roller rotates in the direction in which the fabrics are introduced: if this is not the case, disconnect the power supply and reverse two phases of the power supply.

The appliance must be connected to an effective earthing system: the manufacturer declines all responsibility in the event that this connection is not made in accordance with the provisions of the regulations in force on the subject.

Before carrying out any maintenance operation, disconnect the power supply: for maintenance, refer to the machine's wiring diagram, inserted in the left side door or available on the manufacturer's website.

The cross-sections for power cables expressed in mm² are as follows:

When the emergency is resolved, push the release lever back to the standard position.
Then press the SAFETY RESET button to re-enable the operation of the machine.

9. IRONING

During operation, remember to use the entire length of the roller, in order to keep the temperature uniform over the entire length of the machine.

Therefore, regardless of the size of the linen, insert it as shown in the figure.



ATTENTION!

These machines should not be used to perform bending.

The temperature to be used must comply with the temperatures allowed by the labels characteristic of the linen to be ironed.

The maximum set point temperature is 180°C.

Remember that at the end of the work, the machine cannot be stopped, at least until the temperature has dropped below 80°C.

It should also be remembered that the humidity conditions of the fabrics must be no more than 20% for ironers. Roller ironers should be used on fabrics that have been previously treated by a dryer. Its purpose is therefore only to iron flat ends, and not to dry them.

At the end of the ironing cycle and the cooling phase, turn off the machine and turn the main switch to position "0"



ATTENTION!

The formation of yellow stains on ironed fabrics indicates the presence of detergent that has not been thoroughly removed during rinsing or a temperature of use of the machine higher than that required for the fabric!



ATTENTION!

The formation of creases on ironed fabrics can be generated on fabrics that have too low residual moisture when introduced into the machine.



ATTENTION!

Significant differences in the thickness of the fabrics to be ironed (due for example to seams or hems), can give rise to the formation of wrinkles, creases and low ironing quality.

Even the passage of a double-ply or folded fabric can be the source of creases or puckering and sometimes the introduction is not possible or easy.



ATTENTION!

The formation of horizontal pleats can be generated by a poor sliding of the fabric on the ironing chest. Always keep the trough clean and clean it with paraffin if necessary. Make sure that the ironing temperature is in accordance with the type of fabric to be ironed: excessive temperatures will cause the fabric to slip away from the dragging action of the roller and the inevitable formation of wrinkles. Excessive temperatures can still lead to melting or deterioration of the fiber.



ATTENTION!

Carefully avoid ironing fabrics that have buttons inserted or fabrics that have nylon seams. The high temperature could cause it to melt and the consequent soiling of the ironing chest. It is advisable to avoid exposing the care label of the fabrics in direct contact with the trough: it could burn and smear the ironing trough: iron the garments with the care label facing downwards. Also avoid ironing fabrics with metal parts such as zips: they could cause the surface of the roller or the ironing chest to be affected.



ATTENTION!

The side filters located on the ventilation passages must always be free: avoid occluding the passage of air and keep them clean from fluff by cleaning them every day.

10. Special Note For Starting single roller ironing

After the use of the ironing machine, please do not directly turn off the power supply, turn off the heating system and let the drum run to about 40 degrees, and then turn off the power supply, otherwise the customer is responsible for the belt burning out.

Thank you for using a single roller ironing

Please read the instruction manual carefully when using this machine.

11. Overview

Y&P series ironing machine is a new generation of washing machinery ironing equipment, suitable for all kinds of ironing sheet, quilt surface, curtain cloth, tablecloth, bath towel, blanket and so on. The fabric can be washed and dehydrated. This machine is used in hotels, hotels, hotels, hotels, washing and dyeing factories, dyeing and weaving factories and other fabric units.

North Special Equipment introduced foreign advanced technology using $\Phi 800$ mm ironing drum, integrated with Germany, the United States, Denmark, Italy and other countries ironing machine, with excellent design, strict quality control, exquisite process manufacturing. Therefore, the machine in the transmission mechanism using the sprocket drive, smooth transmission, low noise, and equipped with tension mechanism. The steam conveying adopts sealed rotary joint to prevent the steam leakage, good sealing performance, safe and reliable use, and energy saving.

This machine adopts frequency conversion speed regulating motor and ironing drum speed regulating range between 0 and 10 m, which can be adjusted according to the fabric thickness and steam supply state. This machine structure is reasonable, convenient operation, improve the work efficiency has a significant effect, is the most advanced domestic ironing equipment, welcomed by users.

12, ironing machine structure

2.1 YP series ironing machine mainly consists of main box, ironing flat transmission shaft, steam pipeline, conveyor belt, transmission mechanism and electrical control system.

2.1.1 The ironing machine roller is made of A3 or stainless steel rolled into the $\Phi 800$ mm cylinder and welded with the two ends of the shaft. The drum is mounted on the box body. The right box is combined with the worm wheel and the sprocket. The left box is connected with the steam pipe and the drain pipe system by the loading loop connector.

2.1.2 The transmission part is composed of electric motor, triangle pulley, triangle belt, worm gear reducer, sprocket and chain.

2.2 The main roller of YD series ironing machine is made of A3 steel plate or stainless steel. The

Ø800mm cylinder is welded with the two-end shaft cover, and other rollers are made of steel pipe. The transmission system is installed in the right box, and the transmission system is driven by the frequency conversion speed regulating motor. The pot wheel reducer is transmitted to the transmission shaft by the pot wheel reducer.

2.2.1 In the two sides of the box, the electrical control transmission system of the right box, the electrical control heating system of the right box, and the instrument display value on the panel.

2.2.2 The collector ring and carbon brush are installed on the shaft head of the two ends of the main roller. By the carbon brush energized, through the collector ring into the electric heat pipe, heating. The temperature is controlled by the thermocouple on the left head of the main roller.

model		Y&P-8018
expansion cylinder ϕ mm		800
heating power		18KW
running speed		1-10m/min
power of motor kw		1.5
source V/HZ		380V/50
outline dimension	deep	1300mm
	wide	2920mm
	tall	1420mm
Weight of the machine (kg)-Net		900KG

13. Electrical system

1、Composition of the electrical components:

The electrical part consists of motor, frequency converter in electric control box, air switch, AC contactor and operation box on surface trigger, start and stop button and other components.

2. Working process: close the air switch, turn the power switch to the SA position, press the start button, close the contactor in the electric control box to the frequency converter for power, close the running switch on the operation box and rotate the speed regulating potentiometer on it, and the ironing machine to start operation.

14. Unit handling and installation

3.1 After arrival, check the parts for damage, loose bolts or missing parts. In case of any accident, contact the distributor or the factory in time.

3.2 The machine shall be placed on the plane of the cement foundation, which shall be leveled by a horizontal instrument.

3.3 Because the machine vibration is small, so it is not necessary to use anchor bolts, only need to put on the solid and flat ground, to adjust the level can be. For the convenience of work and maintenance, there is about 1 meter of space on both sides of the box.

3.4 The electrical appliances of the machine shall be wired by the electrician according to the specifications. The frequency converter is the first level of insulation protection, and there must be reliable grounding to prevent electric shock. In order to ensure better safety, users can install electric shock protector.

3.5 When lifting the crane, put wire rope or cotton sand rope on the shaft of the ironing roller, and pad linen or cotton yarn at the place where the wire rope contacts the shaft.

3.6 After machine placement and installation, the winding joint shall be kept rotating and light, without swinging and blocking phenomenon.

15, wiring and simple use instructions

Fireline: live wire abbreviation: L;

null line: neutral wire For short: N;

Ground wire earth wire abbreviation: E;

After the equipment is energized, the default temperature of the temperature adjustment panel is about 180 degrees. If it is generally set at the factory, there is no need to set it again

- 1、 Open the power switch of the distribution box, press the RUN key to run the equipment, and then open the heating switch to adjust the speed of the ironing machine through the speed adjustment key. Generally, it is recommended that the speed is less than 10 meters per minute, and the speed is adjusted according to the effect of ironing.
- 2、 After the equipment is running, press the STOP key, then press the stop key, and then cut off the power supply after the machine is completely stopped.

16.ironing machine and operating instructions

1. Turn on the power switch of the distribution box.
2. Turn the speed adjustment key to run the machine.
You can adjust the speed of the ironing machine through the speed adjustment key. It is generally recommended that the speed be less than 10 meters per minute. The speed can be adjusted according to the ironing effect.
3. Adjust the forward and reverse switch .When the machine is running, turn on the heating switch.
4. Start ironing when the temperature reaches about 190 degrees (the default temperature of the temperature adjustment panel is about 180 degrees, which is generally set at the factory and does not need to be set again).

5. When you stop using the ironing machine, please do not turn off the power directly. Please turn off the heating system first and let the roller run normally. Wait until the temperature drops to about 40 degrees before turning off the power.

17. Maintenance

In order to facilitate the machine you buy to maintain the best performance and achieve the best economic benefits, you should often make some necessary maintenance and maintenance in daily use, please follow the following points.

1. All friction parts of the machine must be lubricated in time; the triangle tape should be adjusted to appropriate tightness to extend the service life of the tape; the fabric residue of each part of the machine should be removed frequently;
2. The worm gear reducer is lubricated with No.20 oil, adding about 10mm to the oil label each refueling, and according to the maintenance requirements of the worm gear reducer. To protect the service life of the main cylinder bearing, we use composite calcium-based grease, added to the oil cup every three months; the sprocket is lubricated with No.40 oil, cleaned once every three months and filled with oil.

18. Precautions

1. If the machine is abnormal or finds noise or vibration, it should stop for inspection immediately and can be used after repair.
- 2, when the machine is running, the staff should remember not to handle and clothes, the female comrades long hair close to the machine, so as to avoid accident

19. Operation of hot iron machine

Warning: In the process of machine operation, no one is allowed to put his hand into the conveyor belt and roller between any reason. Only after the machine is stopped can it be handled, otherwise it will cause personal injury!

10.1 Execution of ironing operation

Connect the power supply. When the air switch inside the power box is closed, rotate the switch on the operation panel clockwise.

10.2 The display shows the operating frequency. Turn on the forward and reverse key, and the motor starts to run. At this time, gently rotate the speed control knob switch clockwise until the speed is appropriate.

20. maintenance over All

During transportation, installation, use, maintenance and repair, professionals must strictly follow the instructions and requirements of this manual.

Warning: When repairing the machine, please strictly follow the following safety requirements.

Do not adjust or set any moving parts. Before adjusting or setting these moving parts, disconnect the power supply and ensure that no one will start the machine during maintenance.

During maintenance, only one maintenance person can be responsible for adjusting the safety device. Ensure that others are away from the machine.

During all maintenance, repair or operational Settings, a warning sign must be placed in front of the machine's control panel or main power switch as required. The warning sign should read as follows:

Warning! Do not touch during machine maintenance

To make the machine run normally and extend its life as long as possible, please maintain the machine regularly.

1. After the daily ironing work is finished, the power should be cut off, and the surface of the machine should be cleaned and the surrounding environment should be cleaned.

2. Add 3# lithium-based grease or a small amount of 20# oil to the main bearing and bridge bearing every month, check whether the bolt connection of the transmission structure is loose, deal with problems in time, and check whether the exhaust channel is smooth.

3. Check the tension of the triangle belt every month, check the frequency converter connectors, screws and so on

Check whether the connection is loose, check whether all electrical components in the box are loose and tighten the wiring, and check and tighten the power line circuit joints.

4. Conduct a comprehensive inspection of the machine every year and make necessary maintenance according to specific conditions.

5. The worm box is splashed lubrication, using no. 20 mechanical oil, new machine before delivery The oil has been filled, but because the new worm gear box has a running-in process during use, the user must open the bottom oil drain bolt to drain all the lubricating oil and add new mechanical oil after ten days of normal use. The oil level is based on the center position of the oil level display glass on the middle of the worm gear box. The mechanical oil should be replaced every three months.

6. The gear and sprocket are lubricated with calcium-based grease, which should be replaced every three months. Before replacing the lubricating oil, the dirty grease should be removed.

When the steel wool cover is replaced, the fabric and the clip must also be replaced. Please note that the machine must be used along the entire length, in order to avoid the formation of depressions in the padding (classically in the center of the roller).

Once the second part of the coating with sheet and clip has been completed, the final dimensions of the roller are:

- EVERY TWELVE MONTHS

Verification of the efficiency of the gas springs.

The replacement of the gas springs is necessary when the trough can no longer get close to the roller to perform ironing or its pressure is no longer sufficient (case of gas leaks and relative inefficiency of the spring)

29. IRONING PROBLEMS

In case there are poor results in the stretched fabrics, check the following trouble shooting.

PROBLEM detected	Probable SOLUTION
The fabric struggles to slip between the chest and the roller with the formation of puckering at the exit.	a) Proceed to clean the chest. The cleaning of the conch must be carried out by passing a thin fabric folded once, covering the entire length of the roller, and containing powdered paraffin inside. By stretching the folded fabric, the paraffin melts and is spread over the chest. b) Check the selected ironing pressure: it may be too high
The fabric tends to get stuck between the conch and the roller.	a) Check that there are no solid residues on the trough. In this case, the trough must be dismantled and cleaned with a brush equipped with brass bristles. The brush should be used in the direction of the passage of the fabrics. Do not brush horizontally (from right to left!). b) Check the selected ironing pressure: it may be too high
The fabrics come out with yellowish spots.	a) Check that the rinses performed with the washing machine are accurate and completely eliminate detergent residues. PH must be between 5 and 6 b) Check the selected temperature: it may be too high
The fabrics come out yellowed.	a) Check that the ironing temperature is compatible with the temperatures provided for the fabric: it is possible that the ironing temperature is too high b) Check that the ironing speed is not too low
Black lines form on the cloth along one or more circumferences.	a) Check that there are no punctual residues on the trough due to the melting of buttons or nylon seams. b) Check that the chrome plating has not been affected by zips or metal elements.

PROBLEM detected	Probable SOLUTION
The tissues come out with irregular folds, neither parallel nor perpendicular to the concha.	a) Check the degree of residual moisture when inserted. Fabric that is too dry may not be ironed properly
The fabrics come out still wet.	a) Check the degree of residual humidity at introduction, which must not exceed 20%. b) Check the ironing speed: too high a speed may prevent complete drying. c) Check the selected temperature: it may be too low. d) Check the humid air extractor: a clog could limit its efficiency. e) Check the selected pressure: it may be too low.
The fabrics come out with horizontal "pleats"	a) Check the degree of residual humidity at introduction, which must not exceed 20%. b) Check the selected temperature: it may be too high

30. PROCEDURE FOR CHECKING SAFETY DEVICES

After turning on the machine, before starting the ironing cycle, it is always necessary to check that the safety devices are working perfectly, The user must always scrupulously carry out the following procedure:

Sequence of ACTIONS	CONSEQUENT REACTIONS
Press the ON/OFF button on the digital keypad the cylinder MUST NOT start rotating
Operate the control without inserting any fabric to be ironed the cylinder MUST start to rotate and the trough MUST close.
Raise the hand-saving bar the roller MUST stop. The chest MUST reopen
As long as the hand-saving bar remains raised the machine MUST NOT be able to be restarted
During normal operation, operate the emergency mushroom the roller MUST stop and the trough MUST rise.
As long as the emergency mushroom is inserted the machine MUST NOT be able to be restarted
Restart the machine	... the cylinder MUST start to rotate and the trough MUST close.

Sequence of ACTIONS	CONSEQUENT REACTIONS
After any alarm situation, which involves the turning on of the red light The machine remains stuck and not working. The machine returns to operation only AFTER the RESET button has been pressed

**ATTENTION!**

After switching on the machine and before starting work, it is always necessary to check that ALL safety devices are working perfectly.

31. SCRAPPING

When the life cycle of the machine is completed, proceed with scrapping according to current regulations, separating the metal parts from the plastic parts, glass parts, electrical/electronic parts.

Pursuant to Article 13 of Legislative Decree no. 151 of 25 July 2005 "Implementation of Directives 2002/95/EC, 2002/96/EC and 2003/108/EC, relating to the reduction of the use of hazardous substances in electrical and electronic equipment, as well as to the disposal of waste"



The crossed-out wheeled bin symbol on the appliance or its packaging indicates that the product at the end of its useful life must be collected separately from other waste.

The separate collection of this equipment at the end of its life is organized and managed by the manufacturer. The user who wants to get rid of this equipment must therefore contact the manufacturer and follow the system that the latter has adopted to allow the separate collection of the equipment that has reached the end of its life. Adequate separate collection for the subsequent recycling, treatment and environmentally compatible disposal of the discarded equipment helps to avoid possible negative effects on the environment and health and promotes the reuse and/or recycling of the materials of which the equipment is composed.

The illegal disposal of the product by the holder involves the application of the penalties provided for by current legislation.

32. WARRANTY CONDITIONS

For warranty conditions, please refer to the manufacturer's price list.

**ATTENTION!**

In order to take advantage of the manufacturer's warranty, the instructions contained in the manual itself must be scrupulously observed, and in particular

- always operate within the limits of use of the machine;
- always carry out constant and diligent maintenance;
- use the machine to use suitably trained personnel;
- Use only original spare parts specified by the manufacturer