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Application Directions of

COUNTINUOUS NEEDLE DETECTOR

(Conveyor Type)

OSHIMA ON-V740C

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General Statement

Our company is an enterprise specializing in manufacturing Needle-Detector for garment detection. Owing to many years' efforts, we have developed various products with reliable quality and stable performance, and the detection sensitivity is improved by applying the Japanese needle-detection technology. For example, model ZYZ-600B and ZYZ-600C, OSHIMA ON-V740C, ON-V860C, ON-V620C detectors apply the imported electron components and the imported conveyor belt made in Italy. The high strength magnetic sensors are anti-disturbance with best performance. They have full ability and best efficiency. The detective rate reaches 100%, so it can guarantee the good reputation of the detected goods in foreign markets.

Our factory has been certified by the evaluation of ISO901:2000. The machines have stable performance, they are the ideal detection equipment for exporting garments, silk, toys, knitted underwear, bedclothes etc. The standard number of the production enterprise is Q/ISSN 01-1999.

To ensure long time application and a high quality performance, please read the following direction book carefully in details.

《SPECIFICATIONS》

Model	ON-V740C
Detection method	Magnetic induction
Detection capability/ Sensitvity	Min 1.0-1.5mm size of iron ball/needle
Sensibility regulation	Not-stepped
Alarm style	Belt stop Electronic buzzer Lamp display
Effective width of detection	600mm(Width of Belt: 560mm)
Detection height	100---300mm
Belt speed	38m/min
Size: L x W x H (mm)	
Net weight	250--350 kgs
Power	Single-Phase only, 220V, 50—60Hz.

Continuous Needle-Detector (Model: ON-V740C)

I. Direction for Use

(i) Direction of the board operation

1. Automatic inspection function: Turn on the power, the buzzer will ring three times, eight indicators light LED will be bright one second at the same time and then go out automatically. The above shows the machine end the inspection by itself, and the machine is on the situation of waiting for the direction.
2. Auto-alarm function: Turn on the start button, the motor works, and the detected object will be inspected. When the machine detected the needlepoint, buzzer will ring 3 times, at the same time the display shows E1. It means the needlepoint is found among the detected object. And the corresponding light of the 8 lights LED becomes bright, the machine will stop and turn back automatically.
3. Auto-protection function: Turn on the start button, the motor works, and the detected object will be inspected. If the photo switch is resisted continuously beyond the designed time (the system can be set up 1 to 6 second), the motor will end automatically, and the display will show E2, and buzzer will ring 3 times. Now the electric motor cannot be started no matter

how the switch is put and turn on. Only after the trouble is solved, the machine can be started.

If the long cloth will be detected, the machine can be set up to 0 second, so the auto-protection function is turned off.

4. Auto-counting function: the photo switch should be set up situation 1, turn the start button, the motor start worked, after the first detected object passed, the machine will not count. For the second time, it will count 1, for the third time, it will count 2, and for the n times, it will count n-1. And 2 second later, the counted product (for the needlepoint) will be numbered n. Such as when at the n times the needlepoint is detected, it shows the number of n-1, but when we count the number of being not qualified, the number is 1.--- but if we check the total number, it will number n. The system does not accept the counting direction when the motor stops to work. Thus it guarantees the counting accurately.
5. Auto-turn back function: The machine will stop and turn back automatically when needlepoint is detected. The different turning-back time can be set up according different detected objects. The turning-back time can be set up as 1 to 9 second, the best turning-back distance can be decided by different

turning-back time. The machine will not turn back when the 0 second is set up.

6. Electricity-saving function: When the machine is working the operator leaves away and forgets to turn off the machine. Thus will have the machine working without detection, it will waste the electricity. If the machine is set up from 1 to 6 minute, the machine will turn off automatically. It will not have electricity saving function when 0 minute is set up.
7. Auto-on/off function: If the machine is in the situation of waiting for direction (the motor is not working), when the operator steps into operator-area, it will turn on automatically; when the operator leaves away, it will turn off automatically.
8. Parameter Designing: Firstly put the Storage-button only (now it shows EE=0, it means the machine stays in the situation of setting up). Secondly put Chose-button to choose the item you will set up. Thirdly put Setting-up-button to edit the parameter, Finally put Storage-button to store the above designing. Reset-button used for the counter comes back to zero.

(ii) **Other directions**

1. Connect to the suitable power supply.

2. Press button “BATTERY” (red) and “START”, the motor will work and the needle detection can begin.

3. The 8 LED indicator lights are located on the operation panel. If broken needles or metallic inside the clothes are examined, the LED lights can automatically indicate the positions and can return the detected objects automatically.

The machine can automatically count the number of the qualified objects that passed the detection.

II. The Installation Notice and Matters for Attention

1. In order to prevent disturbing the accuracy of the needle detection, Any moving metal objects are not permitted to locate inside 2 meters of the installation site of the machine, such as flat wagons any machines and movable metal clothes tree etc.
2. 4pcs adjustment levers on level line are attached with the machine. The machine shall be adjusted to horizontal position after fixture in order to prevent the snake shape of the conveying belt.
3. The operators should not wear any magnetic wares such as watches, gold ornaments and banking cards for the sake of damaging the machine.

III. Matters for Attention Before Use

(i) The machine can only put into use after a test that some needles or metal pieces are put on the belt and the belt can stop.

Operating items and Attentions are as follows:

1. Connecting the machine to the power supply (AC 220V): The special electrical outlet is needed for the machine. If the electrical devices use one common outlet, noise will bear and cause wrong work.

2. Turning on the Power-on/off button:

The red light will be on when turn on the Power-on/off button.

3. Turning on the power supply of the conveying belt:

The conveying belt will work when turning on the power supply.

4. How to adjust the bending of the conveying belt:

When the belt bends, adjust the conveying belt with the bolts of bending for adjustment.

(Note: The bolts cannot go to the end because it is designed to be half circle.)

(ii) Before chose the work model, please note to turn off the electric motor firstly.

(iii) When working, the indicator of working model should indicate lighting.

IV. Characteristic

1. ON-V740C can help you to detect the needles easily and reliably by indicating the position of broken needles etc by the number of the lights.

2. When broken needles or pins are detected by the machine, the alarm will ring and the conveying belt will stop.

3. ON-V740C can let you regulate the sensitivity easily (by operating electric capacity sections) in order to cope with the size of parts and different kinds of the ready-made clothes. It can ensure you to find the broken needles or needles in the clothes.

4. ON-V740C is equipped with standard needle counter, and it is designed to record the number of the qualified products and un-qualified products.

V. Use

1. ON-V740C is used to detect out the total needles, broken needles or iron pieces hid in the seams of the products such as dress for male, dress for female, dress for children, underwear, kimono, jackets and sheets etc.

2. The materials to be detected must be things made of iron, but the pins made of stainless steel cannot be detected by the machine.

3. The use of the needle detector shall be considered when the fittings made of iron are used such as button, zipper and the hook during design job (NC commodity etc).

4. Before using ON-V740C, the wares made of iron on the operators shall be removed because the machine will react to these things and wrong action will bear.

VI. Matters for Attention During Installation

1. The machine must be fixed at the level position and cannot shake.

2. Fix the body of the machine in level position with the regulation bolts located in the four corners of the machine. It can cause the bending of the belt when great height is changed.
3. The machine cannot be installed on the working table beside the framework made of iron.
4. The machine can be installed nears the equipment which generates magnetic field because the electro-dynamic magnetism generated by the clutch motor, sewing machine, cutting machine, packager, air conditioning equipment or the power or magnetic field generated by the converter can all interfere the needle-detection machine and cause wrong working.
5. The machine shall be installed far from the large moving iron things such as train and automobiles.
6. The machine shall be installed far from the iron reinforcing materials such as steel windows or the machine shall be installed in different direction in order to prevent wrong working.
7. The needle detector can generate magnetic field, so the operators shall pay attention to their credit card, drawing card, phone card, cartridge tape, and the telephone set nearby, for the magnetic field of the needle-detector may change their content.

8. The machine shall install in a location with a temperature between 10°C to 40°C, and the situation under freezing point cannot appear.
9. The machine cannot be located in a room with running dust, iron grain or iron powder, and neither in damp location.

VII. Regulation of the Sensitivity

1. Turn the sensitivity to “7--8” by using the SENS button (normally there are 10 steps).
2. Make sure that there is no reaction from the auxiliary materials such as button, zipper, then the detection for needle can be carried out.
3. If the belt stops because of the auxiliary materials, turn the sensitivity to “bottom” from “9” so that belt will not stop because of the auxiliary material. (Note: when turning the button to “bottom”, it is a little difficult to detect the top of the needle hole and the broken needles.
4. If the belt cannot run after turning the sensitivity of the auxiliary materials, then you need finish the needle detection before fixing the auxiliary materials. So you need to decide whether the auxiliary materials can pass the needle detector before you select them.
5. The counter will begin to count the qualified products when turning on the switch of the counter. A certain speed shall keep when detecting and counting the qualified articles in one box. The counting may be

wrong when the speed of laying the products is too high or connection of single articles. The counter will not work when turning off the counter.

6. Turn off the power supply after finishing the needle detection job. If the needle-detection machine is not used for a period of time, pull out the plug from the power outlet.

VIII. Operating the Needle-Detector

1. A continuous operation can achieve for the needle-detection work. The machine is designed to detect the articles laid in turn on the belt and the qualified ones can pass.
2. When the broken needles and other things are detected, the alarm will sound and the belt will stop. The lamp number can tell the position.
3. Make sure to find and remove the needles or iron pieces when detecting them. And then detect it again to find whether other needles or iron pieces are hid inside till there are no this kind of tings for safety.
4. When the detecting work is carried out, the alarm may sound from the outside interference, so make sure to confirm this article again.

IX. Instruction of the Parts

1. The power line:

It can only be used for the power supply of Single phase, 220V, 50—60Hz.

2. The bolt for regulating the belts:

It is used to adjust the bending of the two sides of the belts

3. The inductor of the needle-detection machine:

It is used to count the qualified articles, so it can also be used for the counter of the detected articles.

4. The sensitivity regulation button:

This button can regulate the detective function.

5. Function operating controller:

Display all the functions of this part, and run and display every appointed function.

6. The power on/off button:

The red light will be on when turning on the power switch.

7. The drive switch of the conveying belt:

When turning on this switch, the green light will be on and the conveying belt will begin to run.

8. The indicating lights for the detective position

The red lights can tell the approximate position of the detected needles.

All the red lights will blink when the power supply is turned on or off.

Some red lights will also blink when the electric magnetic field is interfered.

X. The Matters for Attention After Completing the Work

1. It is necessary to inspect whether there are broken needles or metal pieces remained.

2. It is necessary to inspect the sensors above the belt. Because the sensors have strong magnetism, needles or other metal pieces may attach on them. Clean up the sensors with adhesive plaster or other methods to ensure accurate detection when next detection work is carried out.

3. Solving faults

Fault (1)

The indicating lights on the panel blink all the time when the belt is running and no articles are laid on the belt.

Reason

A: If the machine is installed for the first time, there exist some interfering elements in the selected position.

B: The four bolts under the machine seat have not been fastened.

Fault (2)

The belt can only reverse instead of running forward in the right direction.

Reason

A: The RELAY inside the control box cannot trip.

B: Disassemble and reload the RELAY.

Fault (3)

The belt cannot run when the machine begins to work.

Reason

A: No power supply is input.

B: Burning out of the fuse.

C: Faults in the control of the motor.

Solving methods:

i) Examine the normal input of the power supply.

ii) Inspect the fuse and the drive system of the motor.

Fault (4)

The belt runs in deflection and cannot work normally.

Solving methods:

A: If the belt inflects to the right, tighten the bolts on the right side or loose the bolts on the left side. Only a half circle is needed. If the belt still cannot return to the middle, another half circle is needed according to the trend of the belt.

B: If the belt inflects to the left, do the opposite work against A.

Fault (5)

Other faults

Solving methods: **Please contact our company as follows:**

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