

**MODEL:EPA 203** 



#### QA-AC-1349/13

#### QA TECHNIC – UYGUNLUK ONAYI QA TECHNIC – ATTESTATION OF CONFORMITY

MAKİNA EMNİYETİ YÖNETMELİĞİ (2006/42/AT) MACHINERY DIRECTIVE (2006/42/EC)

#### EPA TEKNOLOJİ VE OTOMASYON MAKINALARI SAN. TİC. LTD. ŞTİ. BAĞLAR M. OSMANPAŞA CD. NO:59/5 BAĞCILAR İSTANBUL/TÜRKİYE

Ürünün Tanımı Description of the Product/Product Part

Markası Trade Marks

Model/Tip Model/Type

Uygulanabilir AT Direktifi Applicable EC Directives

Uygulanabilir Harmonize Standardlar Uygulanabilir Ulusal Standardlar Ve Teknik Spesifikasyonlar *Applicable Harmonized Standards/* 

Rapor No & Rapor Tarihi Report No & Report Date : GÖMLEK ÖN PART MAKİNASI SHIRT FRONT PART MACHINE

: EPA AKIN

: EPA SERÍSİ

: 2006/42/AT 2006/42/EC

: TS EN 60204-1

: M-LVD-713/13, 04.11.2013

İşbu belge incelemesi yapılan ürün tasarımı için geçerlidir. Ürünün değiştirilmesi halinde bu belge geçerliliğini kaybedecektir. The Present certificate is valid just for the analysed product designe. The certificate shall lose its validity in case of any changes in the product.

Sertifika Yayın Tarihi : 04.11.2019 Certificate Issue Date Geçerlilik Tarihi : 04.11.2021 Validity Date

1.2019 1.2021

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	EC Declaration of Conformity
We EPA TEKNOLO	Jİ VE OTOMASYON MAKİNALARI SAN. TİC.LTD. ŞTİ.
Of Tevfikbey Mah.Ta	ahsin Tekoğlu Cad.No.16 Sefaköy 34295 KUCUKCEKMECE/ISTANBUL/TURKEY
in accordance with t	he following Directive(s):
2006/42/AT	
2006/42/EC	
2006/95/EC	
2004/108/EC	
Hereby declare that	
Equipment:	SHIRT PRESSING AUTOMATIONS
Model number: SEWING&BONDIN is in conformity with	EPA 205 SHIRT FRONT PLACKET PRESSING &CREASING MACHINE EPA 203 PRESSING MACHINE FOR SLEEVE PLACKETS EPA 203M PRESSING MACHINE FOR CUFF EPA 305 COLLAR FORMING PRESS EPA 405 CUFF FORMING MACHINE EPA 306 COLLAR FORMING PRESS EPA 152-00 COLLAR FORMING&FINISHING MACHINE EPA 152-01 COLLAR FORMING&FINISHING MACHINE EPA 207 SHIRT POCKET PRESSING &CREASING MACHINE EPA 201 JEAN POCKET PRESSING MACHINE EPA 202 SHIRT POCKET PRESSING MACHINE EPA K-07 SHIRT FOLDING MACHINE - AUTOMATIC EPA K-08 SHIRT FOLDING MACHINE - MANUEL EPA K-08 SHIRT FOLDING MACHINE EPA ACE 900 BODY PRESS EPA 503 THREE POINTS MARKING MACHINE
Ref. No. Title Editio	on/date : M-LVD-713/13, 04.11.2013
	EC Directive of Elektromagnetic Compatibility (89/336/EEC) EC Low Voltage Directive (73/23/EEC)
Applicable harmon	ized Standards : TS EN 60204-1
	TS EN 60204-01
	TS EN60204-31:1998/AC:2000
We hereby declare relevant sections of Requirements of th	that the equipment named above has been designed to comply with the of the above referenced specifications. The unit complies with all applicable Essential the Directives.
Signed by: EPA	TEKNOLOM VE OTOMASYON
MA	CINALAKI XADI: TIC, LID, STI. dee Man, Sente Seroi Olçok Cad. No:16 Sefaköy
Name :	34295 Küçükçekmece / İSTANBUL 5 No: 6-2163-1134-8972340 Tic. Sic. No: 825223
Jel: 0	150 304 57 70. Kürükçekmace V.D. 136.056 1719

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LABEL INFORMATIONS					
Machine name	PRESSING MACHINE FOR SLEEVE PLACKETS				
Туре	EPA 203/E				
Serial number					
Production date					
Voltage	380V				
Power	7 Kw				
Weight	265 Kg				
<b>Operation pressure</b>	6 Bar				



# **02-GENERAL CHARACTERISTICS**

### **A-CHARACTERISTICS AND APPLICATION AREAS**

EPA 203/E only can be used in areas requiring sleeve plackets and binding. The manufacturing firm is not responsible for any accident or injury towards people and/or material as a result of use other than those in this manual.

EPA 203/E pressing machine for sleeve plackets and binding is designed for high quality shirt manufacturers allowing them to gain time in sewing by pressing of shirtsleeves. Sleeves placed in pairs are pressed by placing as right and left sleeves. They become semi-ready for sewing.

The machine has a housing in which the plied products are stored. Opening of plying areas and pressing of parts are carried out by a new system not requiring another layer or hardener.

Plies in various types can be obtained only by a simple operation such as changing moulds. Manufacturing capacity is around 300 pairs/hours for nonstriped cloths.

Adjustable trace needles provides fast and perfect sewing of the pieces.

It has run with "Programmable Logic Control".

Capable of pressing triangle, rectangle pieces and yoke label.

Through the graphic panel, it can be done all kinds of adjustment at short notice and can be obtained hourly, daily reports.

Special laser attachment provides easy stripe tracing to obtain standard products.

Automatic stacking on the backside of the machine.



This mark identifies and warns about the danger to operator health.

The machine has an ironing unit, which is able to raise the temperature of it over 70 degrees. So please be careful during the application while touching these parts.

Please detach any pressured air units from the machine before starting any maintenance, replacement and adjustment work. Wait until the pressing parts cool.

ATTENTION: Do not run the machine under open-air conditions (such as rain, sun etc)

# **03-SECURITY MEASURES**



At place it has seen next figure, that means to endanger for health of users. Therefore while it is walked up, it is necessary more to be careful.

Firstly stop the power, if you need to open control panel which contains electrical parts.

Before using the machine, please read manual instructions and other explanatory which is the part of machine accessories. Keep manual and explanatory documents as easy reference guide well.

To avoid death or injury, do not use your machine without instructions on your manual.

EPA company does not admit any responsibility about accident or injuries comes out due to the machine have been used out of purpose of usage.

To avoid accidents cause to death or injuries, do not modify the machine.

EPA company does not admit any responsibility about accident comes out due to the machine modifications.

#### **A-Training**

Operators should be sufficiented regarding machine use. In order that conditions the company offical need a training plan and train them prior.

#### B-Condition that you need to turn off power of EPA machine

If there is a anormal case, breakdown or power failure in order to protect against accidents caused to death or injuries, absolutely turn off power.

Turn off power during it is turned into or adjusted parts of machine.

During control, maintanance or while leaving next the machine, absolutely turn off the power.

Because of preventing electrical shock, earth fault or fire, do not hold the cable unplug from power point.

#### C-Conditions that you need to take security measures

After lifting the machine while you were replacing, it is necessary to consider weight of machine. For weight of machine, look over chapter "LABEL INFORMATIONS".

Before lifting or replacing machine in order to avoid injuries or led to death accidents, take essential security measures against drop or roll.

To avoid accidents cause to death or injuries before opening the power control that connector and cable non-damaged whether loose or out cable.

Definitely do not put your hand to the machine which is in operation.

Do not thouch to the parts in the machine which have very high temperatures.

While changing any parts of the machine, absolutely use original EPA parts. EPA is not responsible occurs from accidents in case of using unoriginal parts under no circumstance.

Before starting works as maintanance, part changing, adjustment quit the machine from main power source, compressed air sources and wait cooling of ironing parts.

Absolutely clean the machine regularly.

After maintanace if the machine still do not work properly, to avoid accidents cause to death or injury, consult to EPA technical service urgently.

## 04-EPA 203/E TECHNICAL INFORMATIONS





# **05-LIFTING AND TRANSPORT**

EPA 203/E is conveyable with packaged or not. In either case, ensure forks of forklift truck adjusted as to exact weight of the machine. While machine is moved with fork-lift truck, front face of machine turned to fork-lift truck pass forks under the machine. Place van or pick-up truck and bond belt or ropes.



#### **06-LOADING AND UNLOADING**

Ensure forks of fork- lift truck adjusted as to exact weight of the machine. Take out the package and lift front face of machine turned to fork-lift truck is passing forks under the machine. After placing it on a hard and plain surface not subject to any weather condition and then move it.



# **07-INSTALLATION AND SET UP**

ATTENTION: This machine have to set up by experts.

Producer company can not be held responsible to problem and faults that it is resulted from inadequate links in case of not working machine in respect of wrong set up and main power sources not parallel to informatics provided here.



If the machine will be set up over a stationary surface, please control whether surface can be removed weight of the machine. If there is a burnable/ explosive/ sparkler around the machine, definitely do not set up here.

Control the machine for working and maintanance needed blank during machine setup so as to provided. Machine has to be replaced over stiff and plane surface.



Replace your machine on smooth and solid surface. As is seen in Figure.2, adjust the machine foot.



#### Figure.2

#### **08-ELECTRICAL CONNECTIONS**

While doing electrical connection of the machine, connect next to supply cable to braker that is at proper ampere (20 Amp).

neutral After doing and soil connection of R-S-T phases, control cable ends are connected strictly.





# **09-PNEUMATIC CONNECTIONS**

Connecting the machine to compressed air output, ensure at the rate of 4-6 Atm with constant air flow machine will be working.

Ι



Firstly, as is seen in Figure.6, resistances in pressing layers (F-G) will be started heating.

Secure that the previously adjusted temperature (I) are appropriate for anticipated usage.

Before being in progress cloth pressing at machine, please do necessary adjustments about expressing in "OPERATOR PANEL ADJUSTMENTS" category.

Pushing down on to vacuum start pedal (Figure.7-D), provide the machine will be working.



Figure.7

To down mould (Figure.6-H) as is seen in Figure.6, replace cloth that will be pressed properly. Depending on stripe boundary that encircles the mould, replace the cloth on mould holding line on center.

Pushing down to vacuum start pedal again (Figure.7-D) as is seen Figure.6, provide absorption of the cloth.

If engine stopped within this period, you need to push down on vacuum start pedal one after the other to start the absorption.

If the cloth has folded with no problems, push down on two start pe (Figure.6-A,B) as is seen in Figure.6 at once and hold down until it will come to pressing period.

Cloths that have pressed, should be obtained from area of packing which sees with opening back door of the machine.

*ATTENTION:* Engine of the machine will be stopped if the machine can not be used for five minutes.

## **11-OPERATOR PANEL ADJUSTMENTS**

When the machine opens for the first time, screen that you will be able to make choice of language will open as is seen in Figure.7.



Figure.7

Selecting language that you want to use, you can find to main menu. (Figure.8)

DOWN HEAT	TIME SETTING					
0.0	WORK SETTING					
UPPER HEAT	INPUTS					
0.0	OUTPUTS					
COUNTER MENU	ENGLISH					
0	TURKÇE					

Figure.8

In order that perfect folding can acquire when you used a stripe cloth, please use the laser beam. Utilizing "WORKING SETTINGS" in main menu (Figure.7), you can find to page of working settings. You can make operable the laser beam with "LASER" button in this page (Figure.9).

Otherwise when required you can turn on and off the fabric lifting with "FABRIC LIFTING" button which ranks among in this page (Figure.9).



In order to adjust pressing time in machine, you should push down on to "TIME SETTINGS" button in main menu (Figure.8)

From opening page, push down on pressing time (Figure.10).

In order to make heat setting in the machine, pushing down on "DOWN HEAT" and "UPPER HEAT" buttons in main menu (Figure.8), you can key in page of heat settings.

TIME SETTING	
Pressing Time	0
Figure.10	
DOWN HEAT SETTINGS	
DESIRED HEAT 0.0	
READ HEAT 0.0	
Figure 11	

Necessary heat value for down heat sheet, push down on "DESIRED HEAT" button in page of down heat settings. (Figure.11)

Key in necessary heat value and keystroke "ENTER" in display ultimately. Real heat is real heat of down heat sheet.

Necessary heat value for upper heat sheet, push down on "DESIRED HEAT" button in page of upper heat settings (Figure.12).

Key in necessary heat value and keystroke "ENTER" in display ultimately.

Real heat is real heat of upper heat sheet.per

UPPER HEAT S	ETTINGS
DESIRED HEAT	0.0
READ HEAT	0.0

Figure.12

Pushing down on "COUNTER MENU" button in main menu (Figure.8), you can see amount of work that you have fabricated from opening page (Figure.13)

When you want to take stock, you can zeroize item of total through "DELETE" button.



Figure.13

Carrier Forward Sensor	Carrier Backward Sensor	Pressing Bottom Sensor
Pressing Upper Sensor	Discharge Backward Sensor	Discharge Forward Sensor
Packing Upper Sensor	Packing Bottom Sensor	Vacuum Start
Vacuum Cancel Button	Right Start Button	Left Start Button
Emergency Stop	Back Cover Switch	

Figure.14

You can find part of the machines are featured as alerter and go through that by pressing. It allows you run correctly the machine.

# **12-MALFUNCTIONS AND CAUSES**

- 1) If the machine can not be run;
- a) Control that switch of the machine is open. (Figure.15)
- b) Control light of energy start button is open. (Figure.15)





c) Control that air adjusting arm of the machine is open. (Figure.16)



Figure.16

d) Ensure that back plate of the machine is close. (Figure.17)



e) Ensure that urgent stop button of the machine is open. (Figure.18)



Figure.18

- 2) If mould held still inside the machine;
- a) Ensure that air adjusting arm of the machine is open. (Figure.16)
- b) Ensure that back plate of the machine is close. (Figure.17)
- c) Ensure that urgent stop button of the machine is open. (Figure.18)



Figure.19

- d) While urgent stop button is pressed, wait to return mould's place holding down right and left buttons at once. (Figure.19)
- e) If urgent stop button is open, you can continue to work.



- a) At malfunctions occur in this way, it should show up display "ENGINE PROTECTION RESIDUAL ALARM".
- b) Control electrical voltage have an effect on to the machine. It should be between 380V-400V.
- c) If voltage values are up to scratch, push down on black button of engine protection switch that is available in electric cabinet.



#### ATTENTION:

If the machine will not be able to run more than five minutes, its engine would stop. In the meantime if the engine stopped, because of starting the absorption it needs to push down on start button one after another two times.

If there is not absorption of the cloth, replace engine phase cables (R-S-T). After absorption of the cloth finished, fold sides of the cloth correctly. Push down on start button two times and continue to push down on until the mould finishes its hem.

Take the ironing cloths by opening back plate of the machine from area of packing.

# **13-MAINTENANCE**

Before starting the part changing of adjustment of EPA machine, ensure that the machine disconnect from compress air, main power source and steam system. Add to this, wait cooling of pressing parts of your EPA machine.

By opening front plate of the machine intra engine and collector, clean with air cleaner regularly.

If absorption of the cloth is not enough, clean the repository of bottom mould by using scrubber and needle.

After the machine have been used long time, it is suggested to clean parts of hoarded on its surface.

#### **14-SPARE PART CHART**

Please inform us about following infos, we can provide your spare part prompthly:

- 1. Machine model and serial no
- 2. Spare part code
- 3. Check your code on your spare part chart

For example: model EPA 203/E Serial no ... Code no... Chart no...





























# EPA 203/E TABLO-13







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# EPA 203/E BOARD



1	= DTC1000BOTTOM RESISTANCE
2	= DTC2000UPPER RESISTANCE
3	= 2,5 A POWER SUPPLY
4	= ELECTRIC TERMINAL STOP
5	= SLİM RELAYLASER
6	= 2x20 A AUTOMAT FUSEUPPER RESISTANCE
7	= 2x20 A AUTOMAT FUSEBOTTOM RESISTANCE
8	= 2x4 A AUTOMAT FUSEPOWER SUPPLY
9	= 1x4 A AUTOMAT FUSE24 V DC FUSE
10	= 2 A GLASS FUSEPLC
11	= 2 A GLASS FUSEDTC
12	= 4 A GLASS FUSEINPUT ELECTRIC TERMONAL
13	= MOTOR SAFETY BREAKER
14	= 24 V CONTACTORMOTOR CONTACTOR
15	= 220 V CONTACTORSTART CONTACTOR
16	= SSR RELAYUPPER RESISTANCE
17	= SSR RELAYBOTTOM RESISTANCE
18	= PLC CPU MODUL
19	= PLC ADDITIONAL MODUL
20	= LASER POWER SUPPLY