



AIRTECH
OLED/LCD LAMINATING SYSTEM
IOT BASED
ST0098767

OPERATING USER MANUAL



CAUTION

THIS SYSTEM IS TO BE USED ONLY BY A TRAINED
SCREENTECH AUTHORIZED PERSONAL



This symbol indicates that dangerous Voltage which can cause electric shock is present inside the unit



This symbol alerts you to important Operating and maintenance instructions accompanying the unit



CAUTION
RISK OF ELECTRIK SHOCK
DO NOT OPEN



CAUTION:
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE REAR COVER. NO USER SERVICEABLE TS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

WARNING

To reduce the risk of electric shock, do not expose this machine to rain or moisture

CAUTION

To reduce risk of Laser radiation exposure do not open the machine lid during its operation



This symbol alerts you that this machine may crush your hands if not used correctly.



CE marking is an administrative marking that indicates conformity with health, safety, and environmental protection standards for products sold within the European Economic Area (EEA)



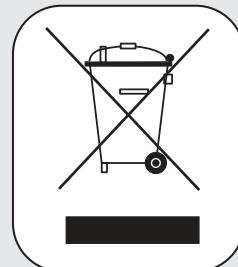
FDA defines a radiation-emitting electronic product as any electrically-powered product that can emit any form of radiation on the electromagnetic spectrum.

— EUROPE ONLY —

This marking shown on the product or its literature, indicates that it should not be disposed with other commercial wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources. Commercial users should contact their distributor where they purchased this product from for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract.

This product should not be mixed with other commercial wastes for disposal.



Index.....PAGE 2

Safety

1.1 Safety warnings.....PAGE 2

1.2 Safety Precautions.....PAGE 3

2.**Checklist**

Checklist.....PAGE 4

Checklist Continues.....PAGE 5

3.**Introduction**

3.1 Front View.....PAGE 6

3.2 Back View.....PAGE 7

3.3 Under LID.....PAGE 8

3.4 LCD Display Main Menu.....PAGE 8

4.**Power**

4.1 Power Connection.....PAGE 9

5.**IOT**

5.1 LAN IOT Connection.....PAGE 10

6.**Compressor**

Compressor filter setup.....PAGE 11

Compressor setup.....PAGE 12

Compressor settings setup.....PAGE 13

7.**Vacuum Pump**

Vacuum pump setup.....PAGE 14

Vacuum pump line connectionPAGE 15

Vacuum pump Power connection.....PAGE 16

Vacuum Pump ACE Switch Cable PAGE 17

Vacuum pump connection Checklist.....PAGE 18

8.**Booting**

Power on to boot.....PAGE 19

9.**Booting Sequence & Troubleshooting**

Booting Errors.....PAGE 20

Booting Errors Continues.....PAGE 21

10.**IOT ScreenTech Platform (Brief Introduction)**

LOGIN.....PAGE 22

Add repair order.....PAGE 23

Device details.....PAGE 24

Select Repair and Technician.....PAGE 25

Image Upload and glass serial.....PAGE 26

Glass to mould placement and machine selection.....PAGE 27

Mould to Machine Open and Close lid.....PAGE 28

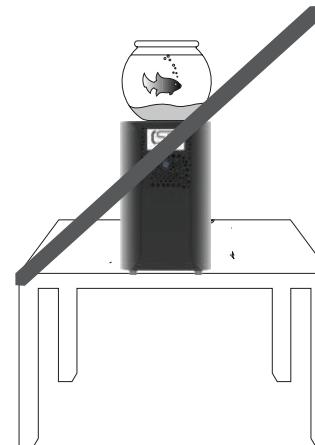
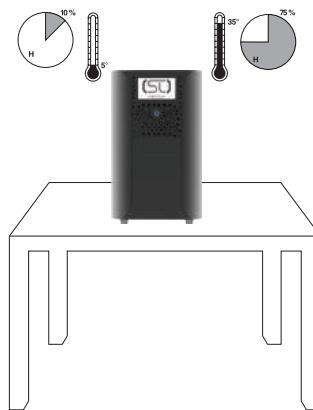
Start Process.....PAGE 29

Process Completed.....PAGE 30

11.**Technical Specification**

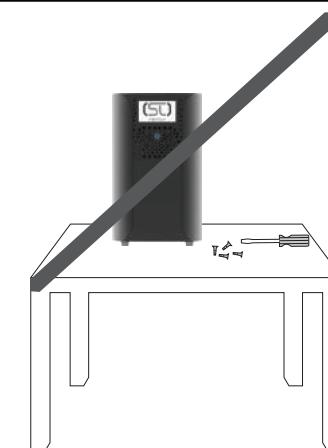
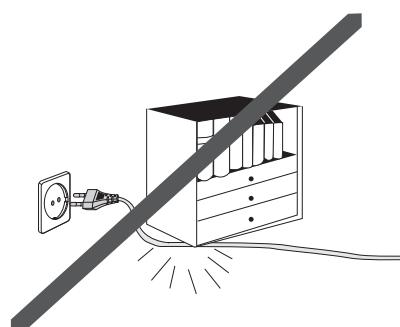
Customer Care.....PAGE 31

Ambient operating conditions:
Ambient temperature - 5°C-35°C
Humidity - 10-75%



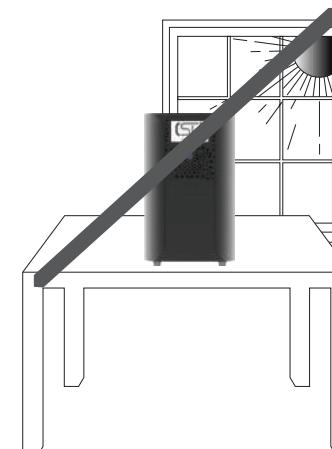
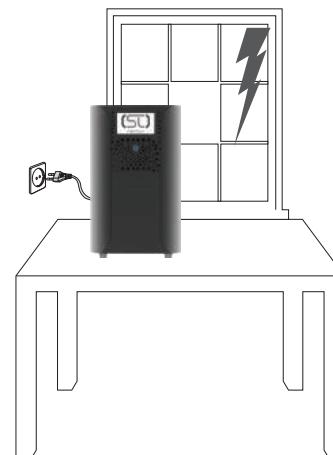
Do not place potted plants or Vases on top of the machine. Moisture entering the unit could lead to dangerous electric shock and can cause equipment damage. in such event immediately disconnect the main plug from the socket

Do not place heavy items on the main lead. Main cable damage can lead to damage of the equipment (fire hazard) and can cause electric shock

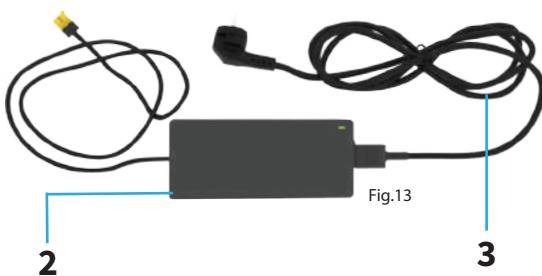
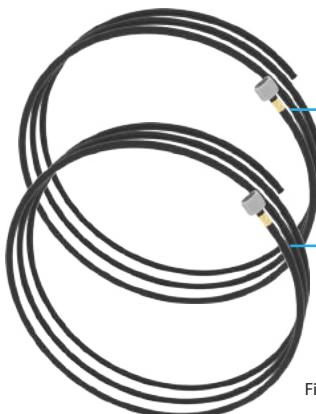
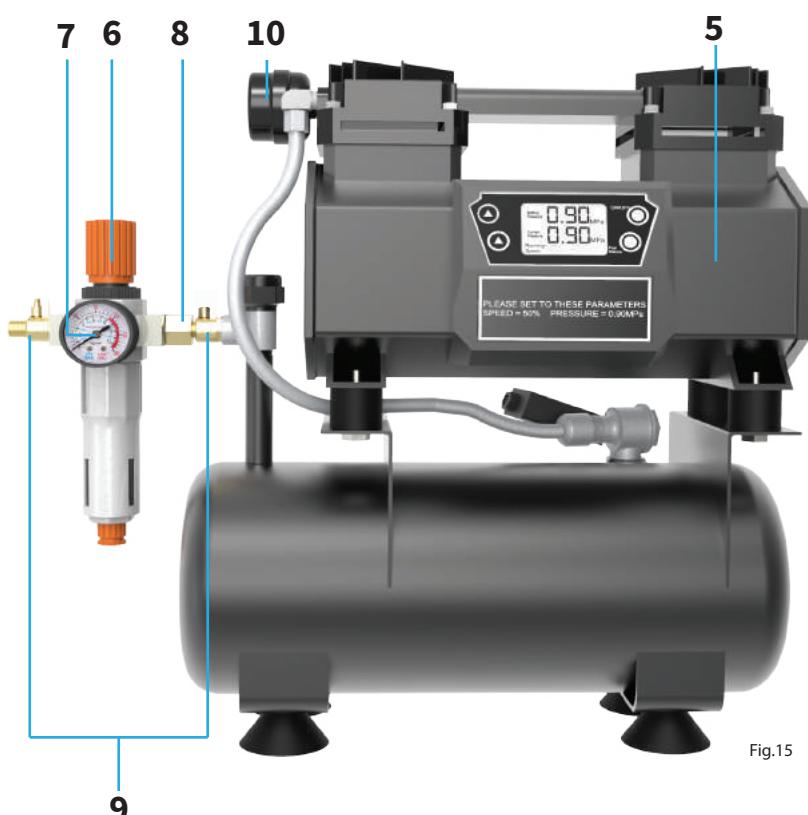


Do not remove any equipment panels. The inside of the unit contains sensitive components that may malfunction if interfered with.

During thunderstorms, disconnect the main plug from the socket. Main voltage peaks due to lightning could damage the unit.

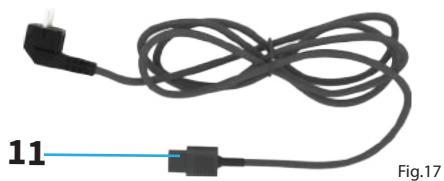


Do not expose the machine to direct sun radiation or other heat sources. This could lead to overheating and malfunction the Machine

**1**1. AirTech **2**2. C14 Power Cable Plug 3. Power Adapter **3****4**4. 2 x PVC air Pipe Tubing 5. Compressor 6. Air Filter 7. Pressure Gauge 8. 1/4" to 1/8" Fitting 9. 2 x Open/Close Valve 10. Muffler filter 



10. Vacuum Pump



11. C14 Power Cable Plug

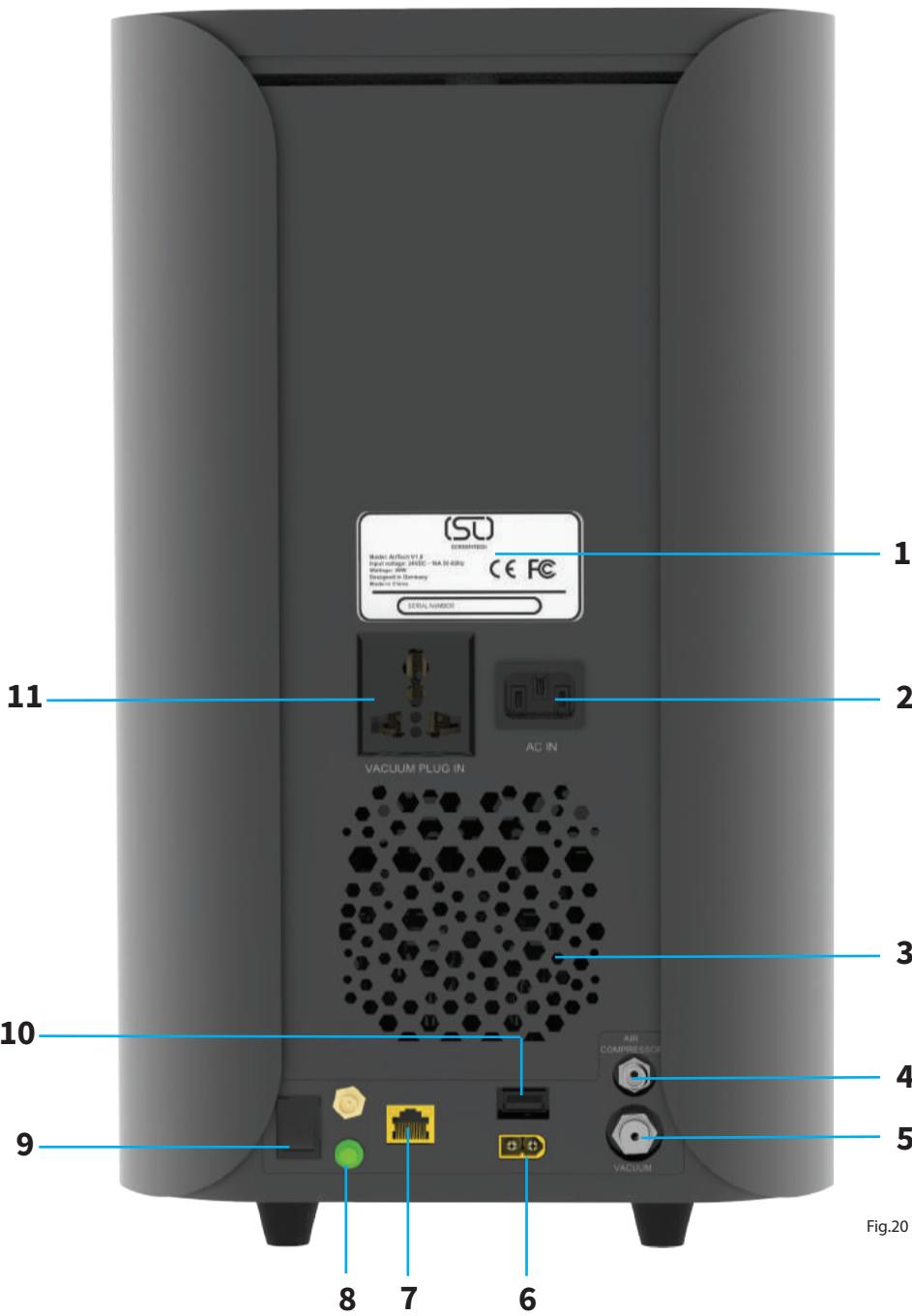


12. Vacuum Pump Oil



- 1. LID**
- 2. Chamber plate**
- 3. LCD touch screen display**
- 4. User interface button**
Press to Open and close lid
Press to accept settings
- 5. Chamber O-ring**
- 6. Chamber**
- 7. Airbag vacuum port O-ring**

Fig.19



1. Identification machine tag
2. AC 110-220VAC power IN from mains
3. Air ventilation exhaust grill
4. Air Compressor input. Air PVC pipe from compressor to be connected to this port
5. Vacuum input line. Air PVC pipe from Vacuum pump to be fastened to this port
6. 24V DC power inlet port from power supply
7. Lan connection point for IOT connection. This port allows the AirTech to be connected to the Internet and controlled via the ScreenTech Platform
8. WPS enable button.
9. AirTech power toggle switch
10. USB interface connection port
11. Vacuum pump plug connection plug. Vacuum pump to be directly connected to the plug point

Fig.20



Fig.21

- 1.** LID Magnetic sensor
- 2.** Safety LID perimeter switch bracket
- 3.** Latex Airbag

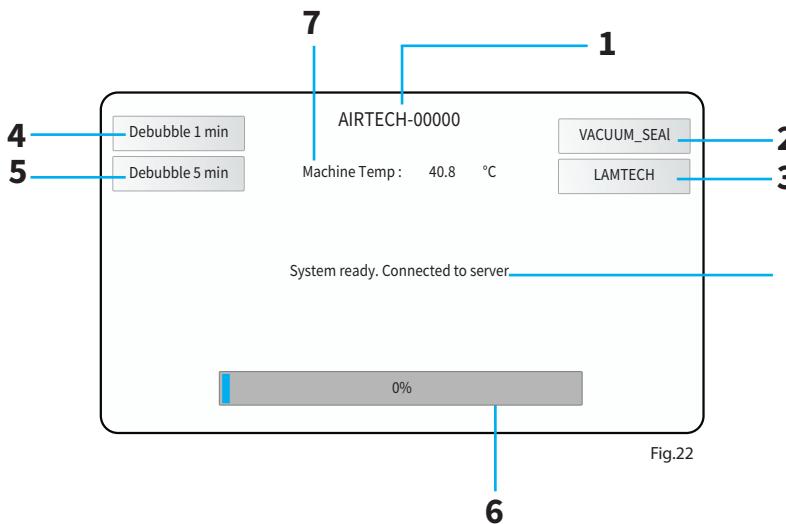
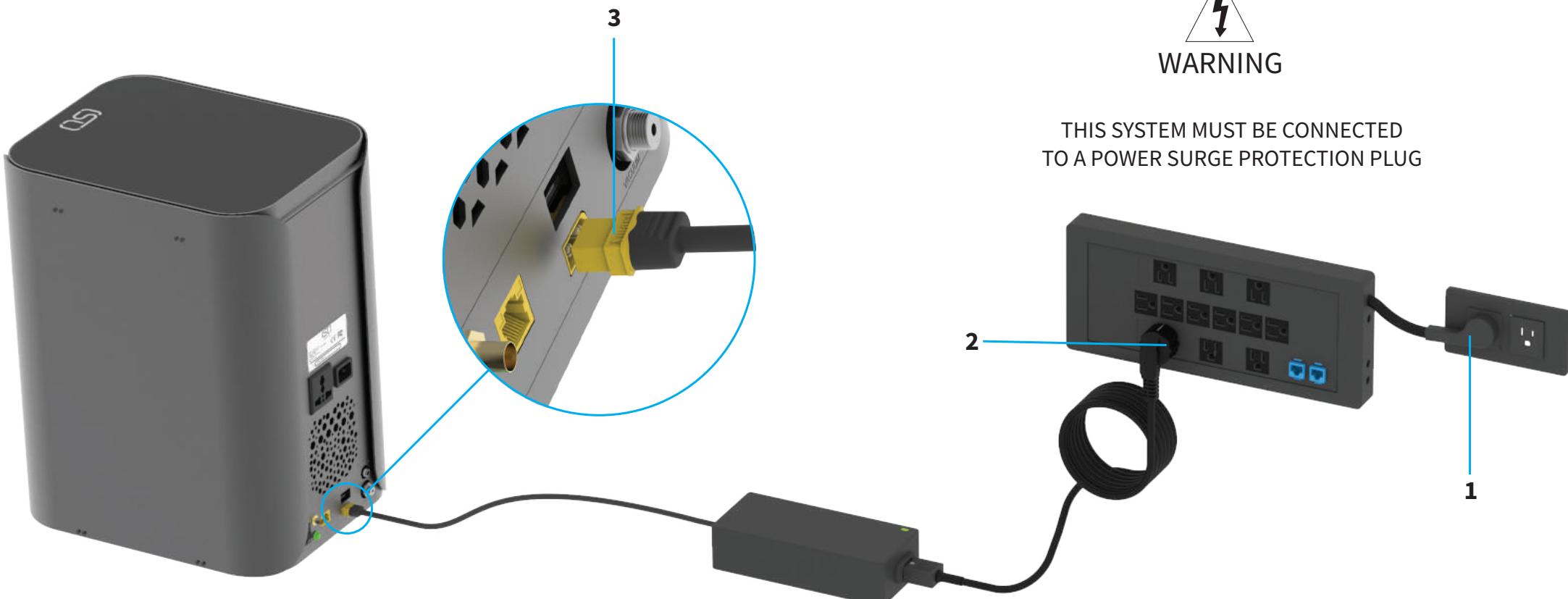


Fig.22

- 1.** Machine ID and Serial number
- 2.** Vacuum seal option. Only used when LID is in open position
- 3.** LamTech Option selection. Only used when LID is in open position
- 4.** Debubble 1 minute selection. Only active when LID is in closed position and IOT active
- 5.** Debubble 5 minute selection. Only active when LID is in closed position and IOT active
- 6.** Machine Percentage display bar. Active when a process is running
- 7.** Machine chamber temperature read out



STEP **1**

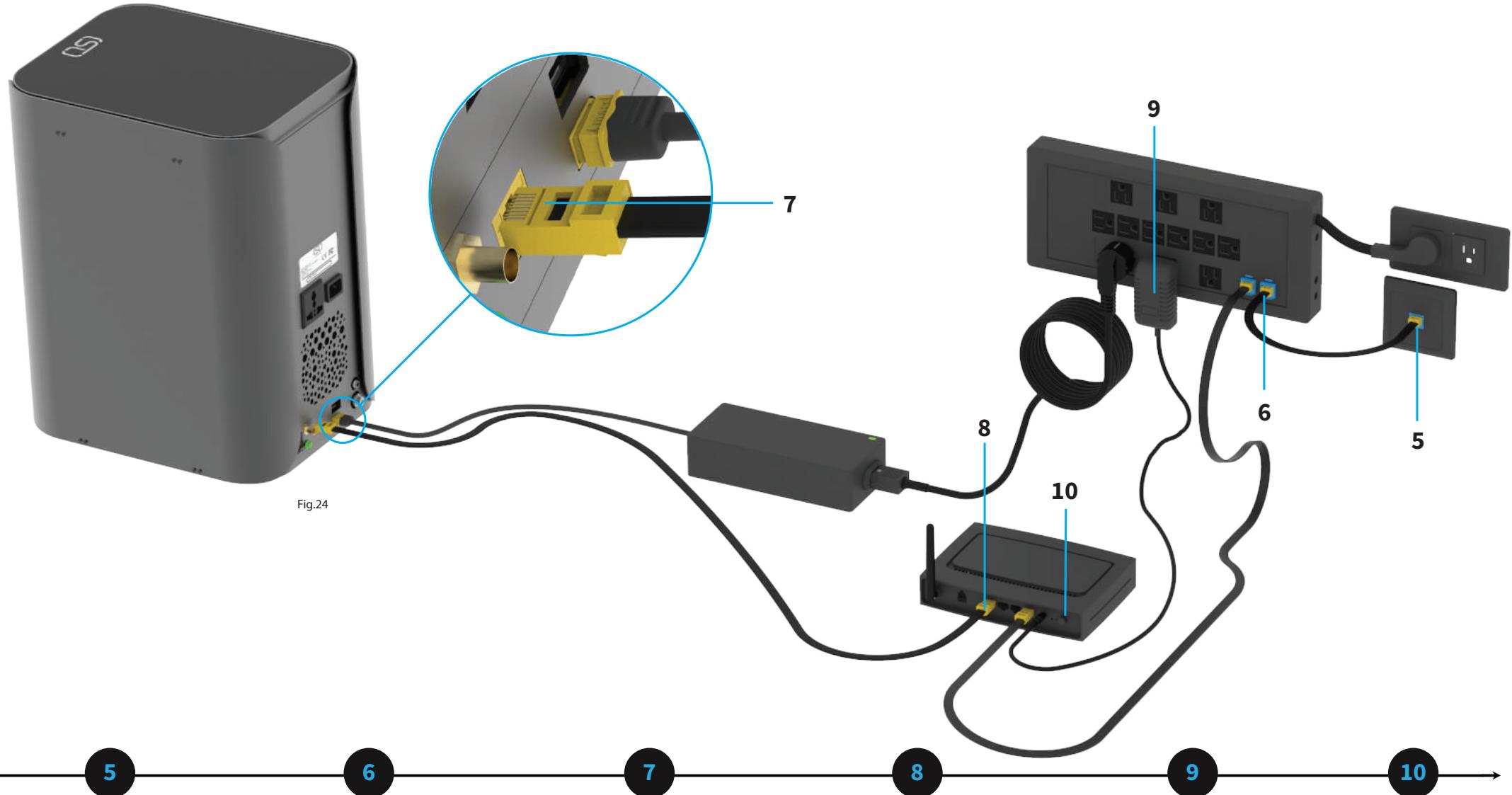
Connect the power cable to the wall socket

STEP **2**

Plug the C13 socket into the power surge protection plug point

STEP **3**

Insert the DC jack into the AirTech power inlet



5
Connect the LAN cable into the ethernet wall socket port from the ISP

6
Connect the LAN cable to the surge protector

7
Connect the LAN cable into the ethernet port of the AirTech

8
From the AirTech LAN connect to the modem directly

9
Plug in the Switching power supply to the Surge Protector

10
Power on the modem

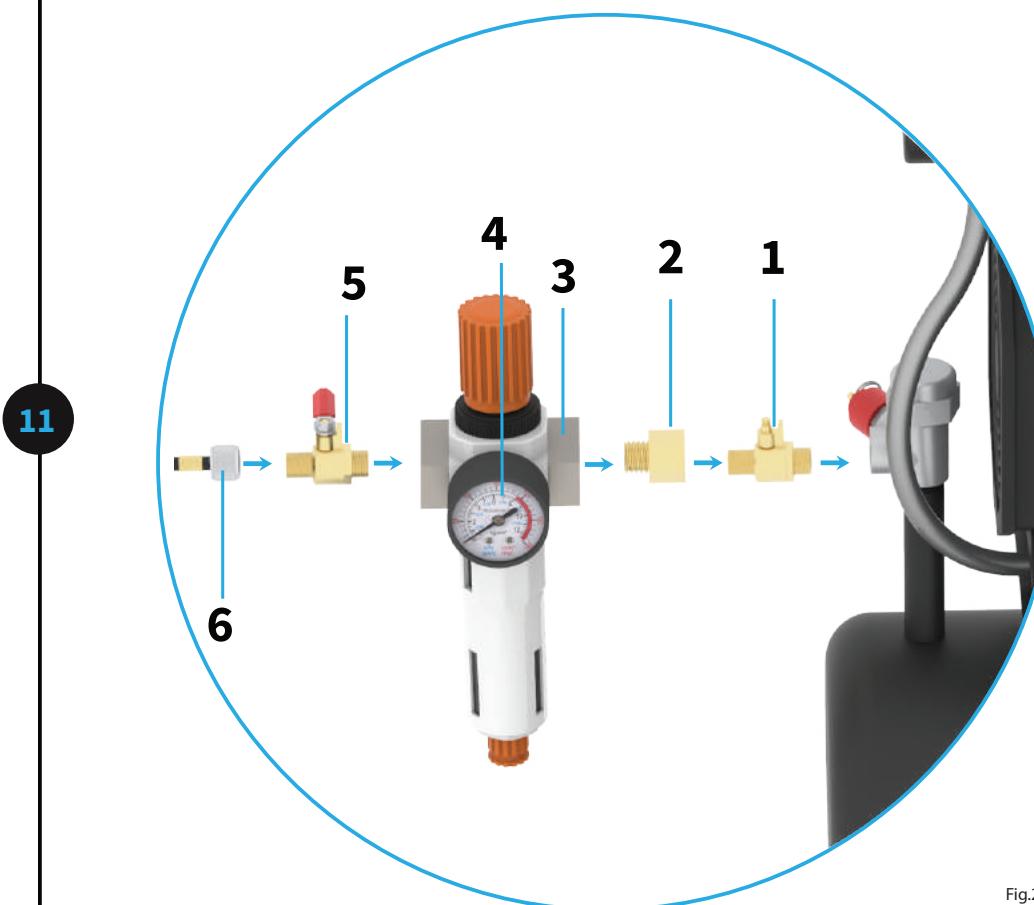


Fig.25

1. Fasten the open/Close Valve to the compressor outlet air port.
2. Locate the 1/4" to 1/8" Fitting and fasten to the other end of the open/Close Valve.
3. Locate the Air Filter and fasten to the 1/8" male side of the fitting.
4. Locate the Pressure Gauge and fasten to the air filter
5. Locate the other Open/Close Valve and fasten to the air filter as shown in Figure 25.
6. Locate the PVC Pipe air Tubing and fasten to the male end of the Open/Close Valve.



Fig.15



Fig.26



Fig.27

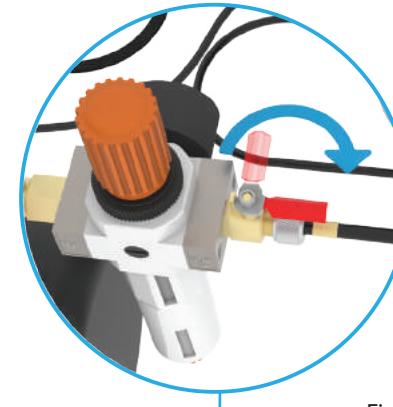


Fig.28



Fig.29

12

Locate the Filter Muffler and fasten to the compressor as indicated

13

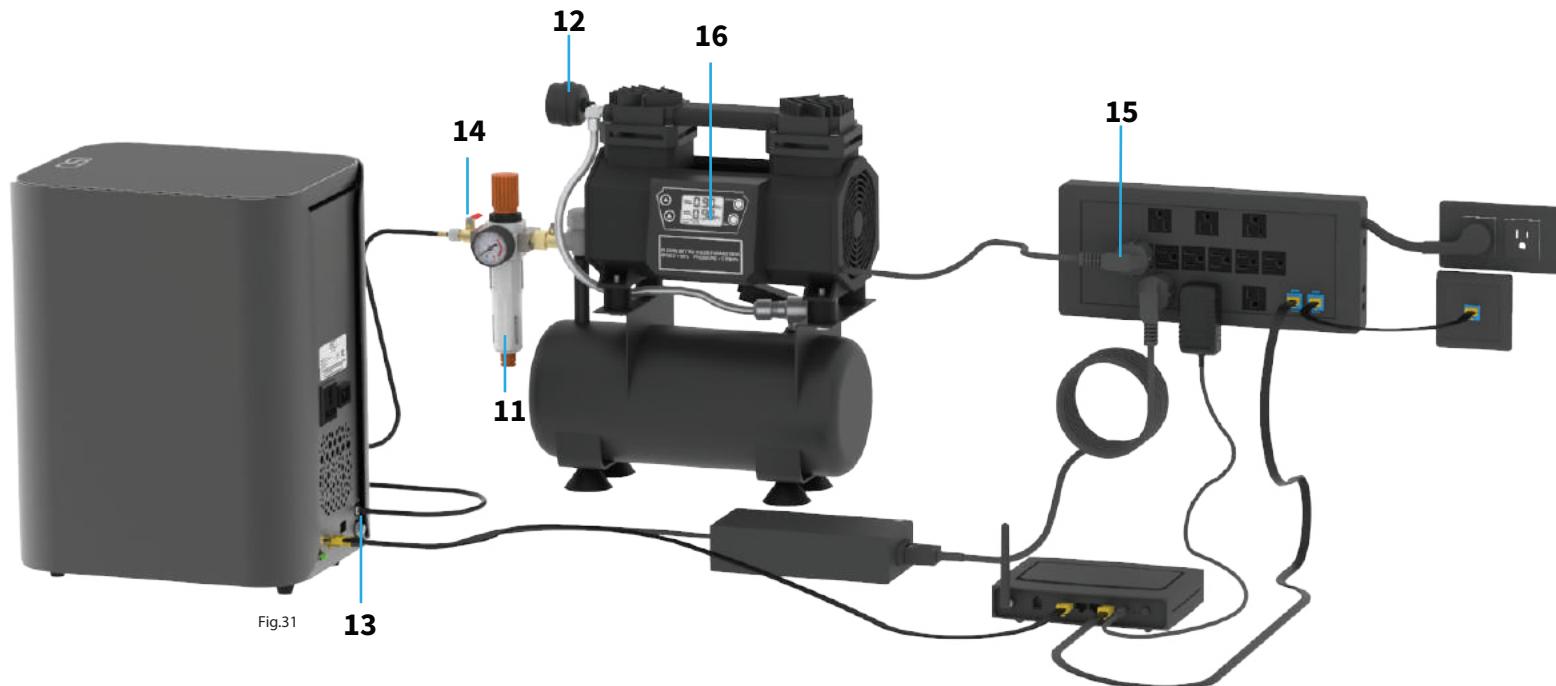
Locate PVC Air pipe from Figure 28 and insert it into the AirtTech compressor inlet port.

14

Open the air valve as indicated in Figure 28

15

Plug in air compressor plug into the wall socket as indicated in Figure 29



16



Fig.30

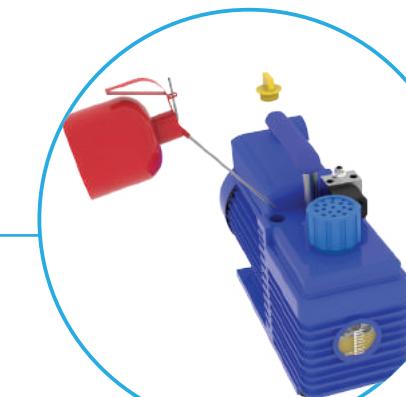
17

Fig.32



Fig.33

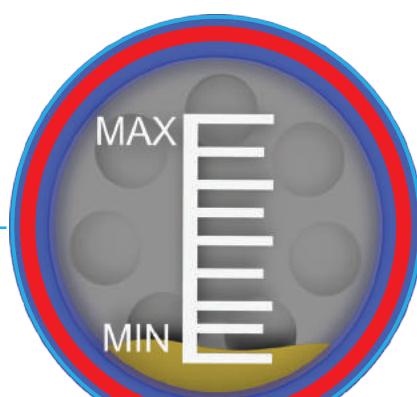


Fig.34

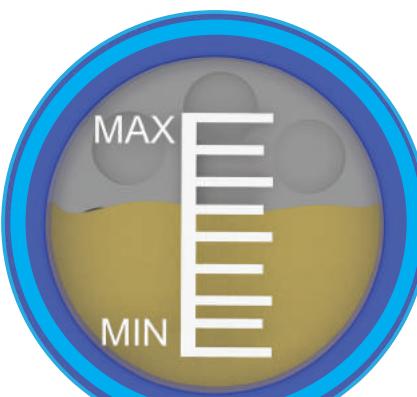


Fig.35

Once the vacuum pump has been removed from the packaging locate the vacuum pump oil and proceed as follows,

Loosen yellow oil cap located in Figure 33.

Begin to fill with oil and monitor the oil gauge.

Do not over fill the vacuum pump. Continuously monitor the gauge. Ensure to keep the oil fill level within the centre parameters of the meter.

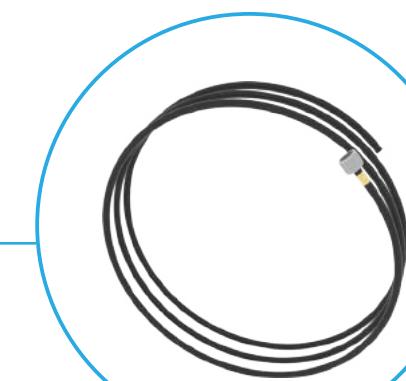
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Fig.36



Fig.37

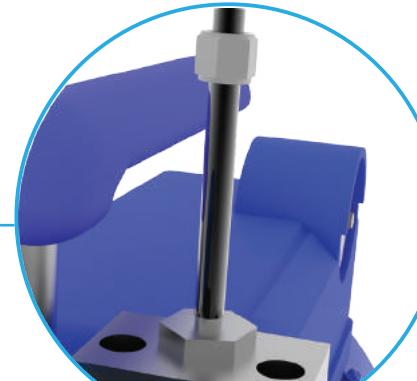


Fig.38

Locate the PVC tubing pipe.

Remove the Vacuum line nut from the vacuum pump vacuum line then feed the pipe through the nut as indicated in Figure 37.

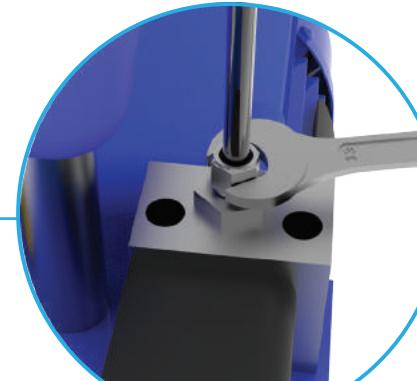
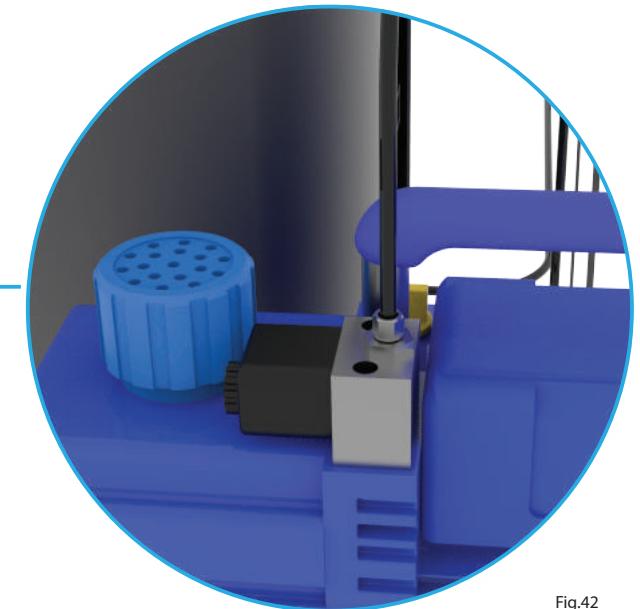


Fig.39

Push the sleeve of the pipe over the inlet shaft port as indicated in Figure 38

Once the pipe is secured over the inlet shaft fasten the nut as indicated in Figure 39 using a wrench.

19

Connect the vacuum pipe pipe to the AirTech Vacuum line port. Fasten the pipe knob as indicated in Figure 41

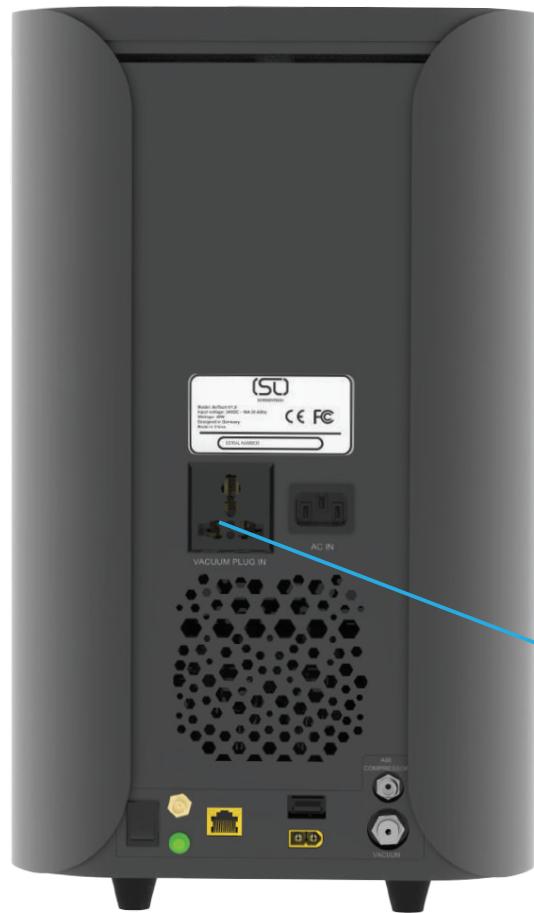
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Fig.46

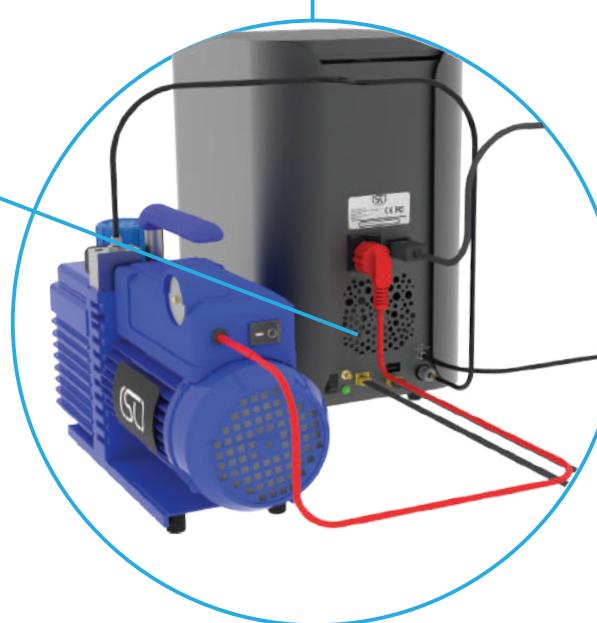


Fig.44

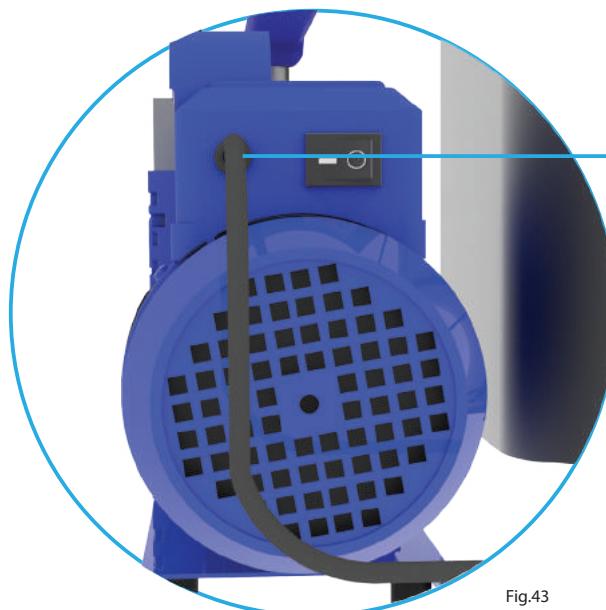


Fig.43

Connect the power cable from the Vacuum pump to the Vacuum Plug In port of the AirTech

21



Fig.47

Locate the C14 Power Plug Cable and connect the one end to the AC in port of the AirTech and the other end of the cable to the wall plug point



Fig.49

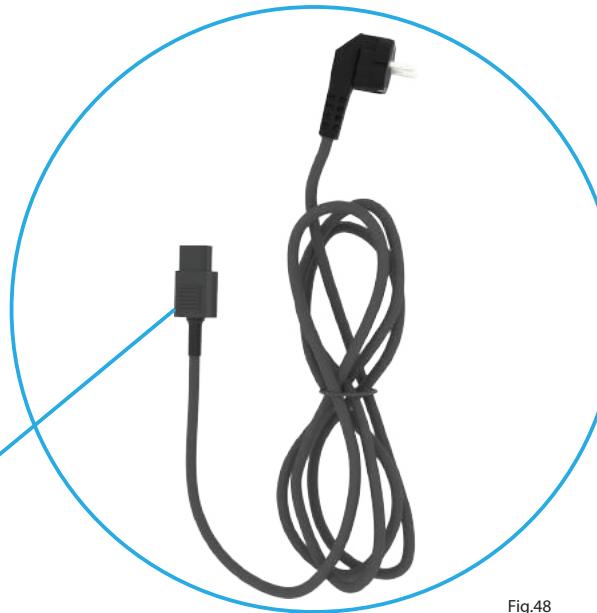


Fig.48

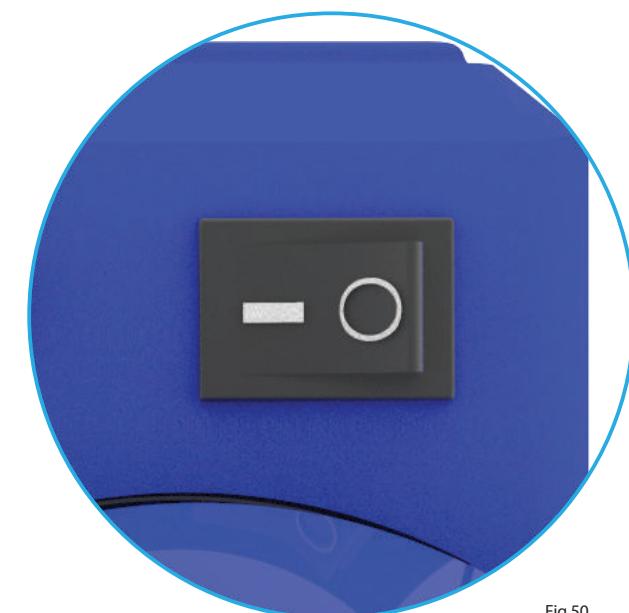


Fig.50



Fig.51



22

1. Ensure that there is enough Vacuum pump oil in the vacuum pump
2. Connect the vacuum pipe to the vacuum pump as shown on page 11 in figure 37
3. Connect the vacuum line pipe from the vacuum pump to the AirTech vacuum inlet port as indicated on page 12 Figure 41
4. Connect the vacuum pumps power cable to the AirTech Vacuum Plug In port as indicated on Page 12 Figure 44
5. Locate the C14 Power Cable Plug and connect as indicated on Page 13 Figure 51
6. Ensure the vacuum pump power switch is in the On position as indicated on page 13 Figure 50

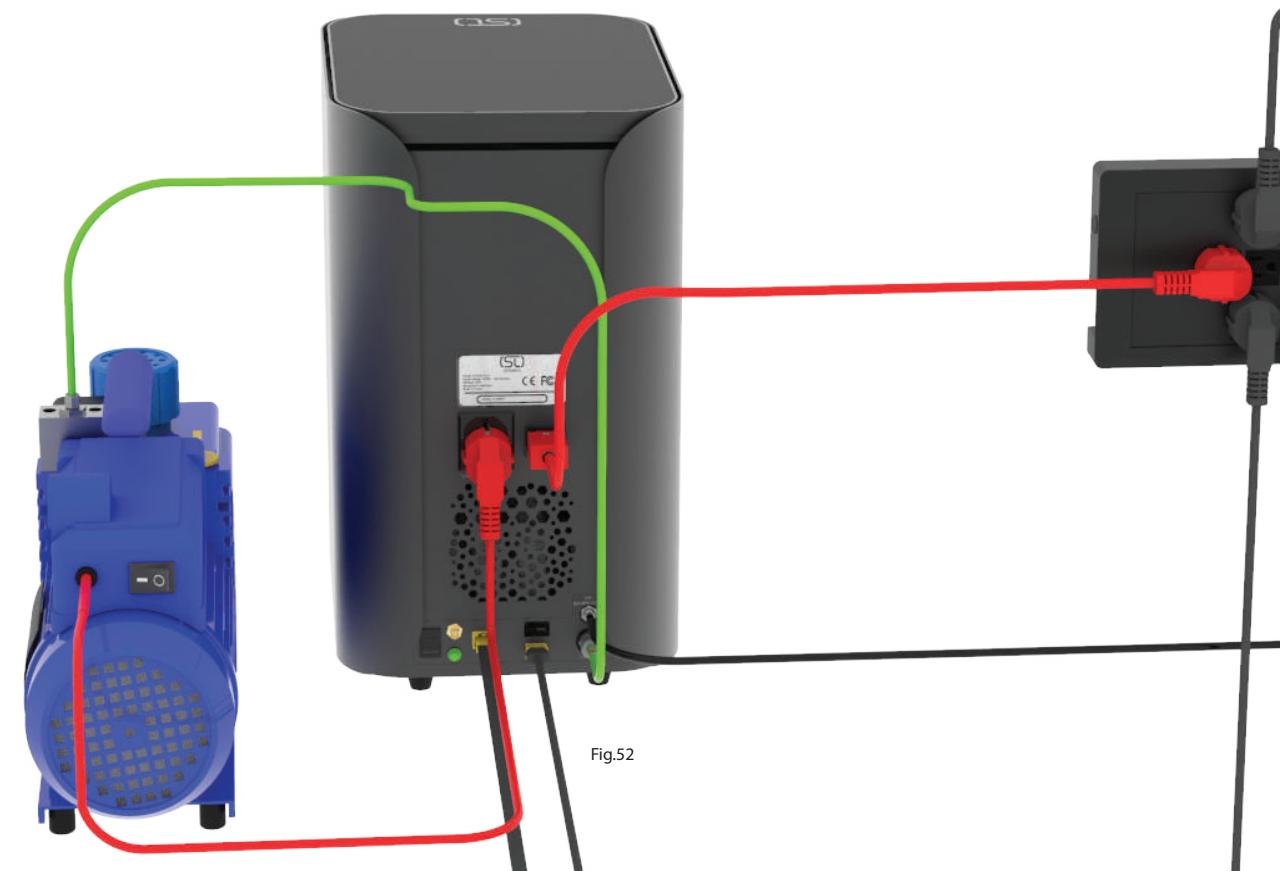
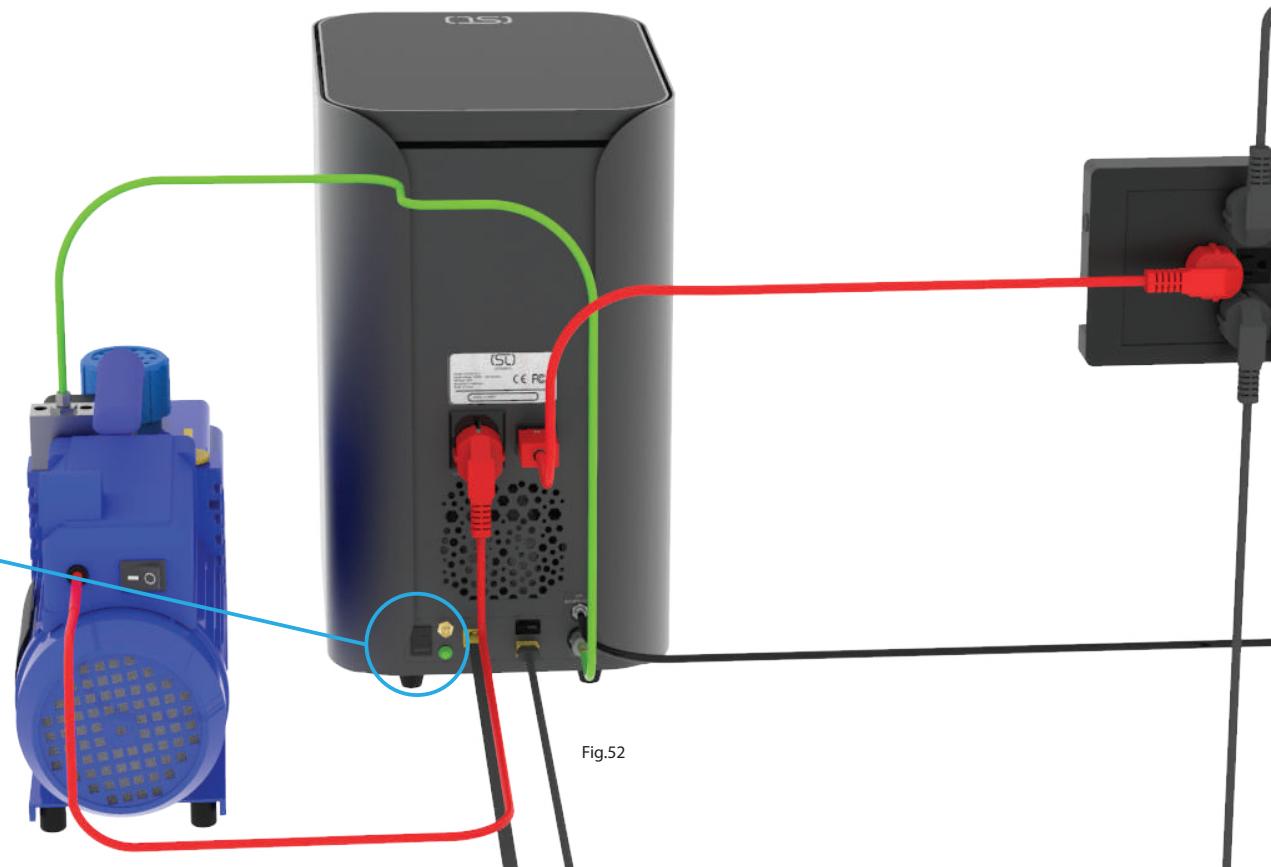


Fig.52

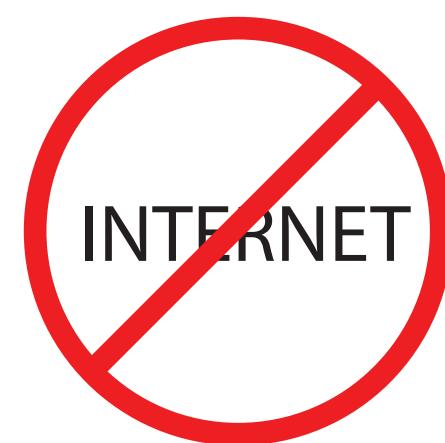
23



Toggle the power switch in the ON position to
Initiate the booting sequences



24



System standby waiting

No Internet connection



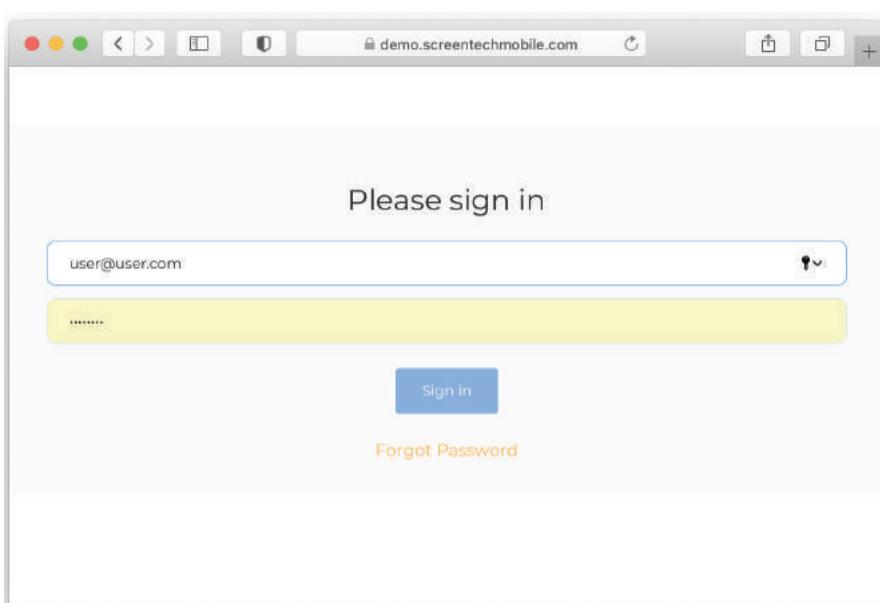
ERROR, CHECK COMPRESSOR

CHECK VACUUM PUMP
CHECK AIR COMPRESSOR

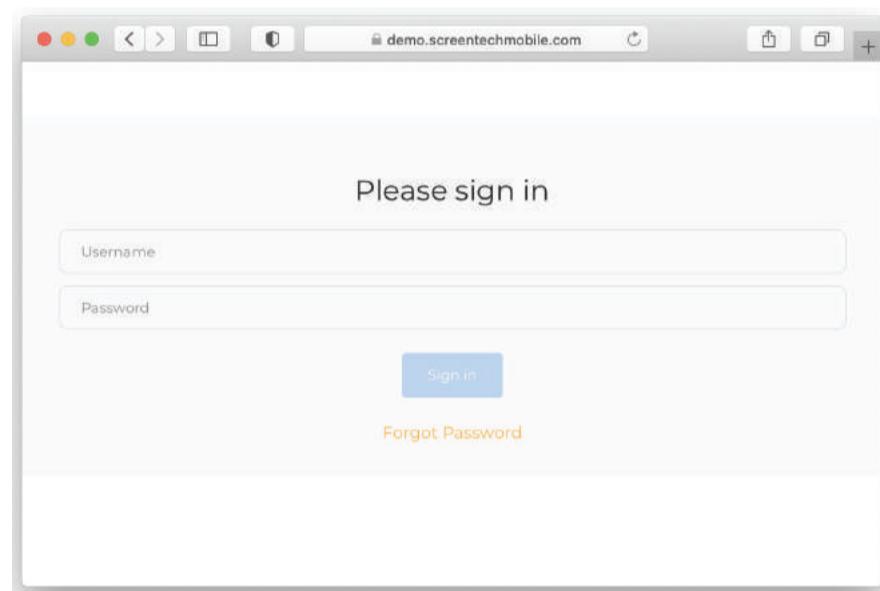


ERROR, SYSTEM NEEDS SERVICE

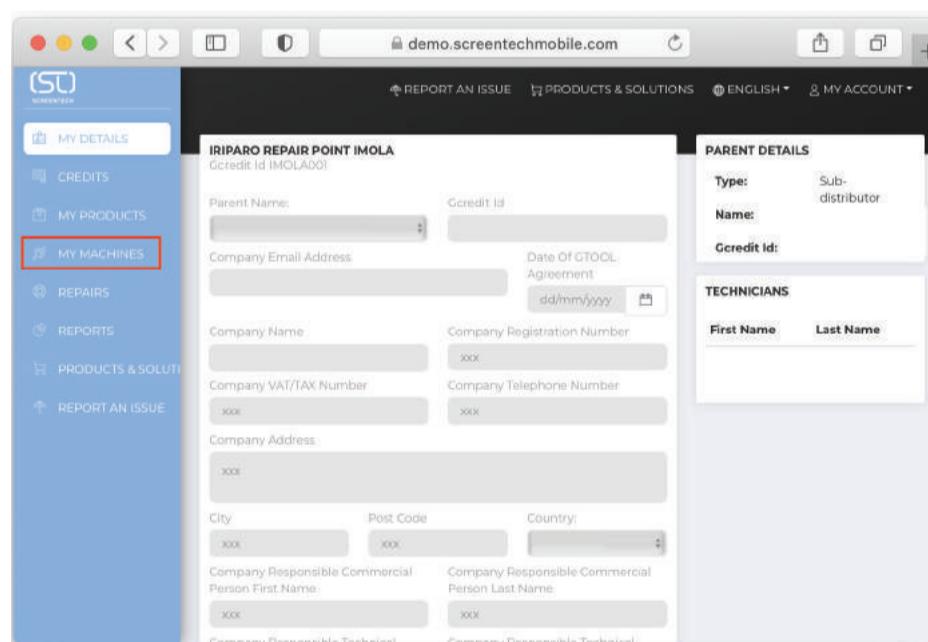
CONTACT SUPPORT



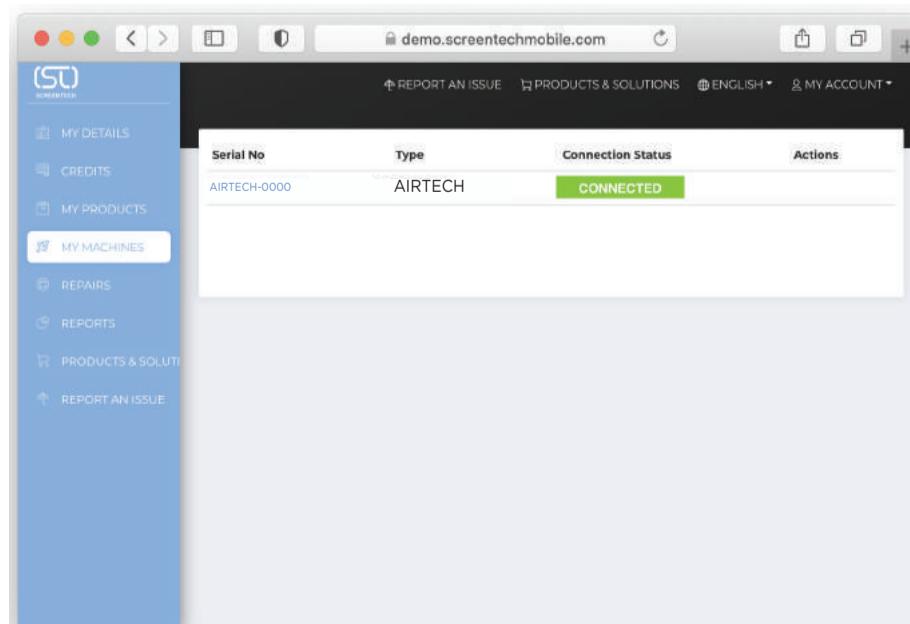
Open your browser and navigate to <https://demo.screentechmobile.com>



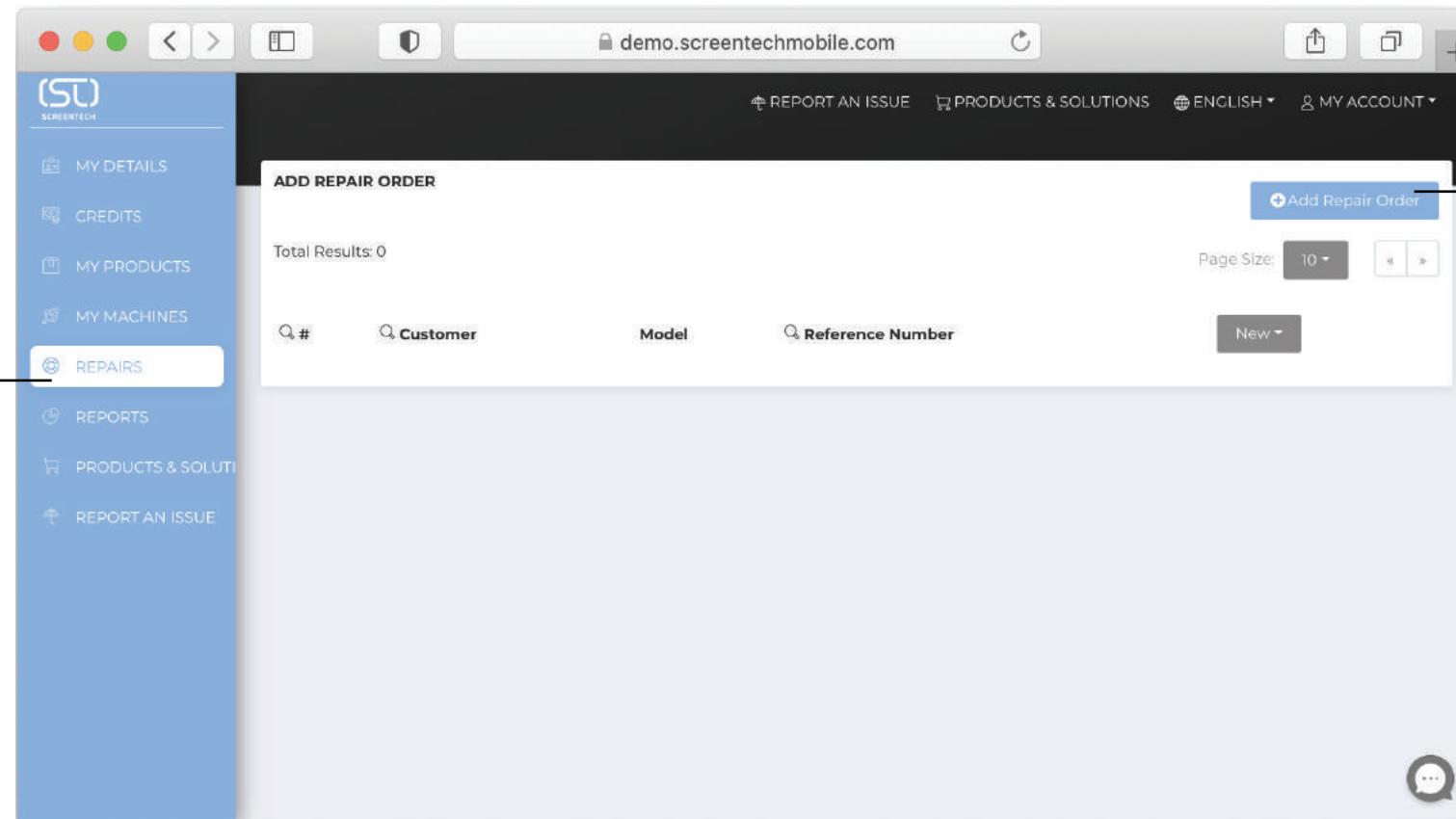
Input your username provided from your ScreenTech distributor



Select My Machines

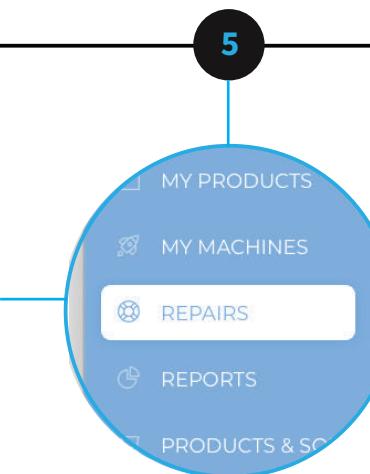


In this list the AirTech will show that its connected to the IOT platform

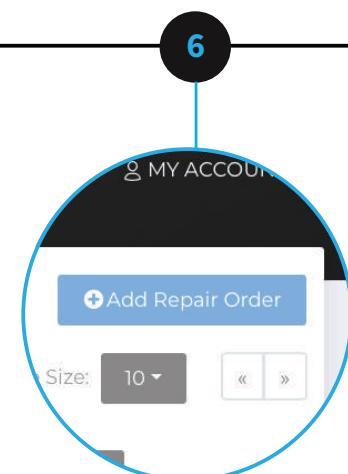


5

Select Repairs located in the main menu



5



6

Select Add Repair Order located in the top right hand corner of the screen

6

Customer: Bugs Bee

Due Date: 08/04/2021

Reference Number: Booking number, IMEI etc.

Phone Type: iPhone

Model: iPhone X

Variant: glass-black

REPAIRS LIST: Debbuble, Repair Screen, Sim Card, Memory Card, Charger

CHECK LIST: Battery

NOTES:

Diagnostic Notes

Internal Notes

Add repair order

7

8

9

10

Customer:
Bugs BeeDue Date:
dd/mm/yyyy
Apr 2021
Mo Tu We Th Fr Sa Su
29 30 31 1 2 3 4
5 6 7 8 9 10 11
12 13 14 15 16 17 18
19 20 21 22 23 24 25
26 27 28 29 30 1 2
3 4 5 6 7 8 9Reference Number:
Booking number, IMEI etc.Serial
Phone Type:
 iPhone
Samsung

Select customer

Select the date the device was booked in

Specify a reference for the repair.
Such as a booking number or IMEI number for easy tracking

Select the brand of device from the drop down menu

11

12

13

14

Model:
iPhone X Repair Screen Sim Card**Add repair order**

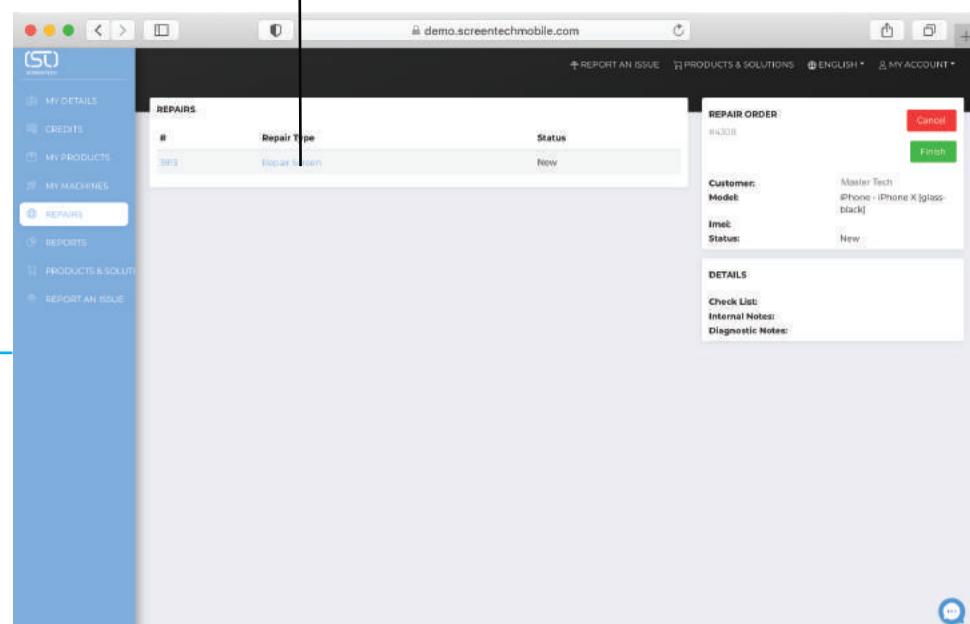
Select the model of the device

Select the color of the device

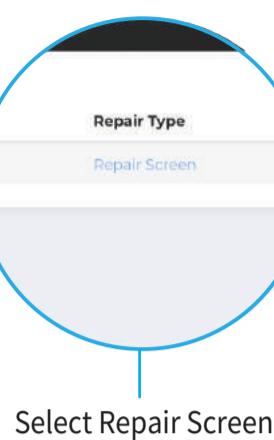
Select what type of repair will be carried out on the specific device

Select Add repair order once all the relevant information has been specified

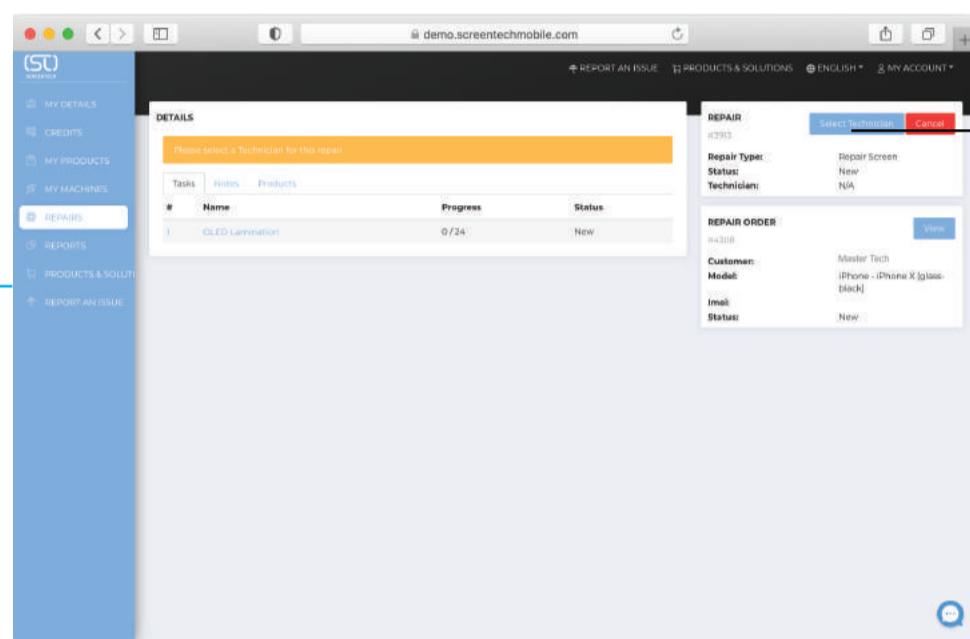
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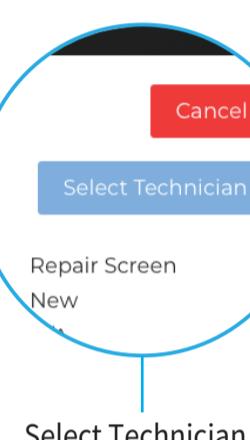
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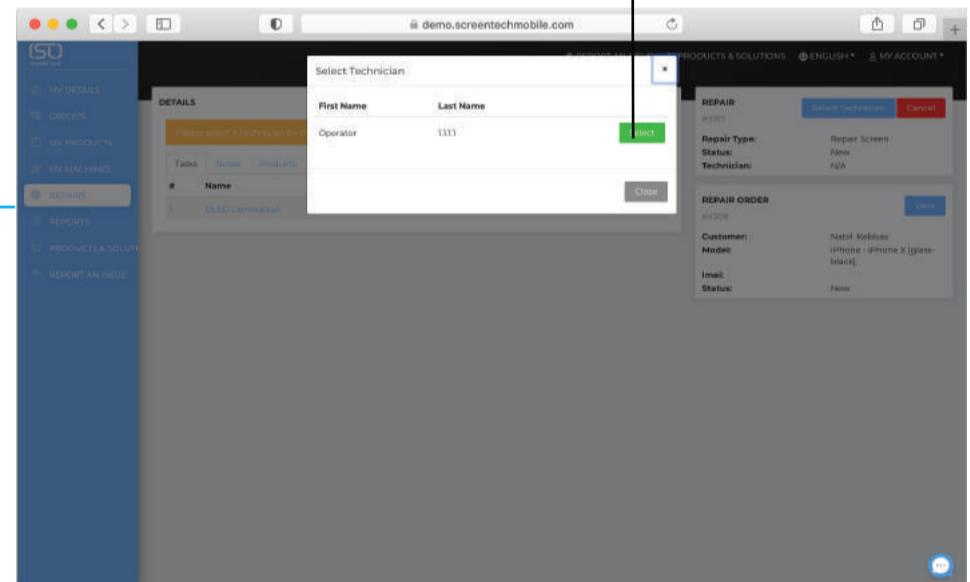
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16



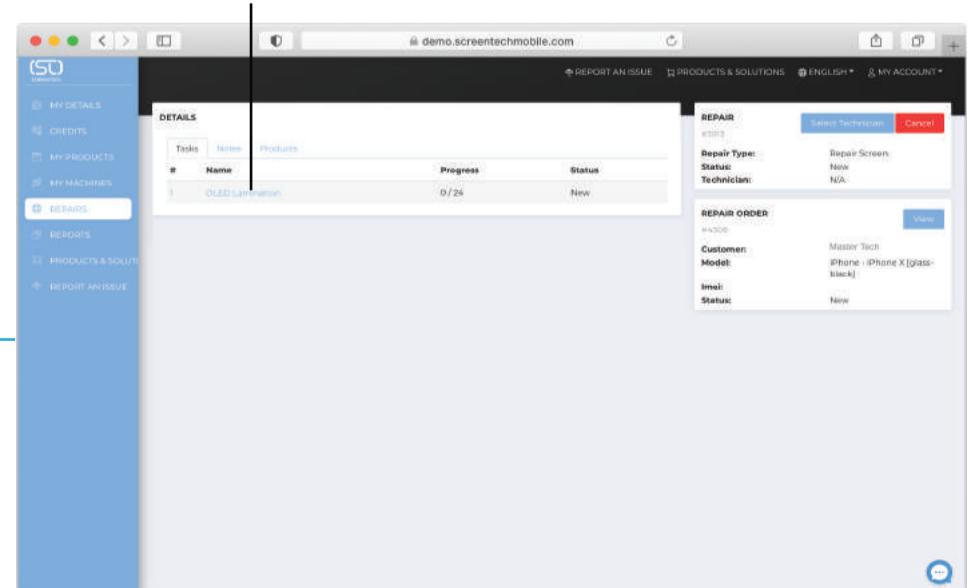
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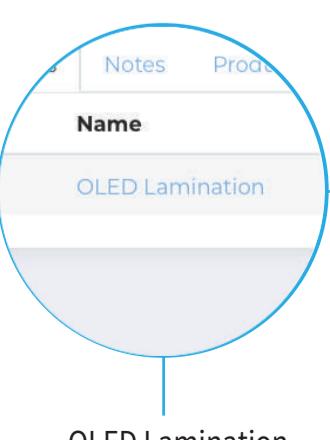
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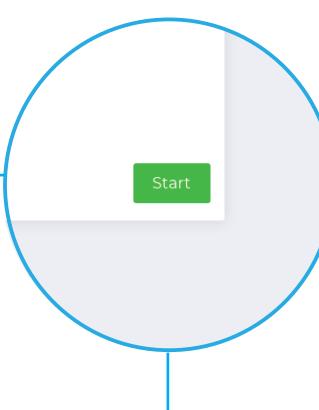
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18



19



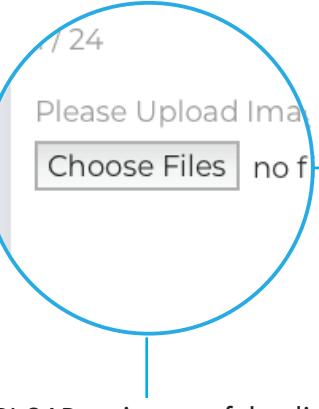
Make sure you have all the required tools. Press Start

STEPS
Please make sure you have all the required tools before you start the task
• Allen Key
• SpunTech - Steel Rod
• Flex Blade
• Frame Blade
• Side Cutters
• TimerTech
• IONTECH
• IonTech
• VortexTech MagDig
• Fine Bristle Brush
• XS/X Pro glue cleaner
• T1 Pro/XS/X Frame Guide
• Frame glue + Pin
• UV/UVH
• iPhone X/XS AirTech Mould
• iPhone X/XS Pack 2 In 1 Glass
• Buds
• Fiber Wipes
• Scratch Remover
• WIPE A
• Glue Hand Dispenser
• Thinner Desk Dispenser
• Acetone Desk Dispenser
• GIL Hand Dispenser
• HyperTape Medium
• Frame Primer

TASK
R1 - OLED Lamination
Progress: 0/24 Status: New
REPAIR Select Technician View
Repair Type: Repair Screen Status: New
REPAIR ORDER R1-001
Customer: Nabil Kebabas Model: iPhone - iPhone X [glass: black]
Reference Number: Status: New

16

20



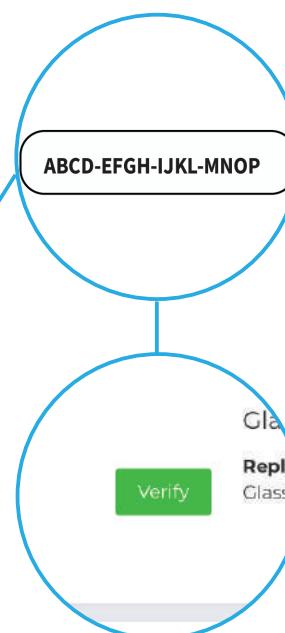
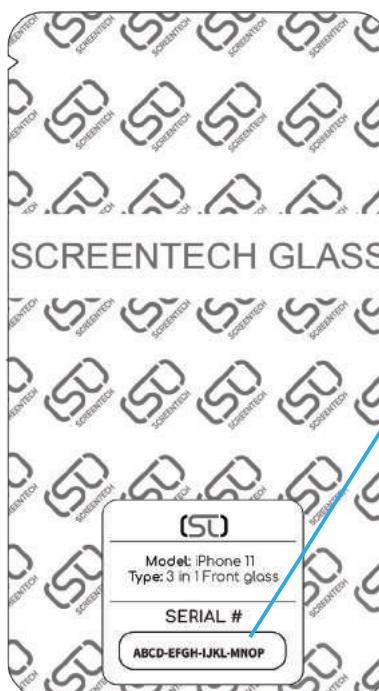
UPLOAD an image of the display

STEPS 1/24
Please Upload Images Of The FRONT Side Of The Phone
Choose Files no files selected
upload
Skip & proceed

CURRENT REPAIR TASK
R1-001 Started
Information Images Machine Jobs Comments

TASK
R1 - OLED Lamination
Progress: 0/24 Status: Pending
REPAIR Select Technician View
Repair Type: Repair Screen Status: New
REPAIR ORDER R1-001
Customer: Nabil Kebabas Model: iPhone - iPhone X [glass: black]
Reference Number: Status: New

21

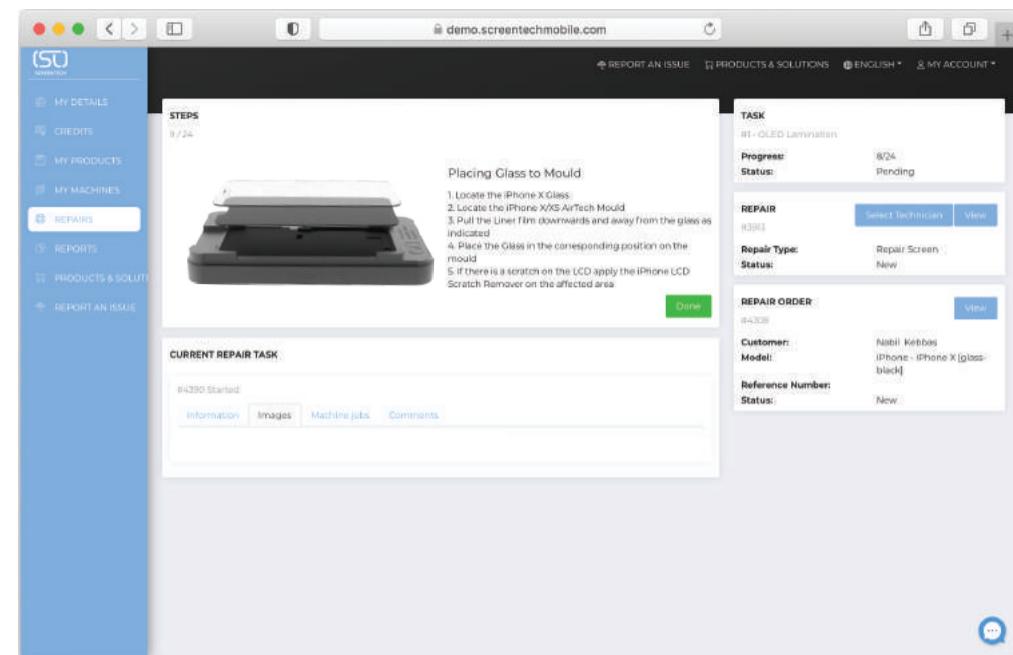


STEPS 8/24
Serial
ABCD-EFGH-IJKL-MNOP
Verify
Glass Scanning
Replacement part S70098851-GB - iPhone X5 Pack 2 In 1 Glass

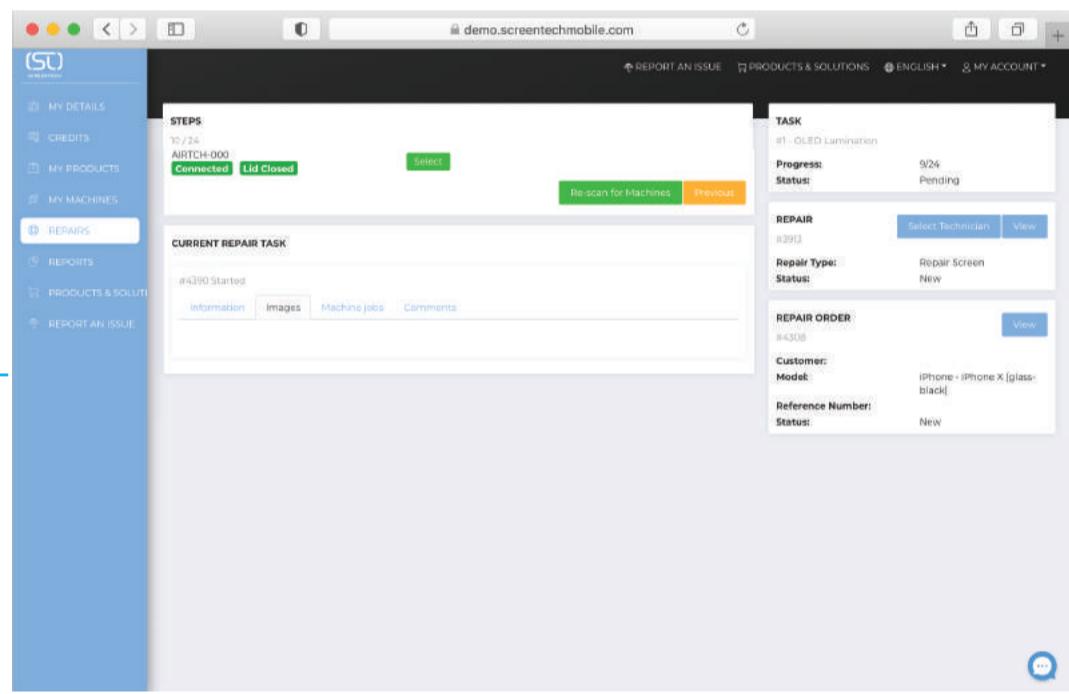
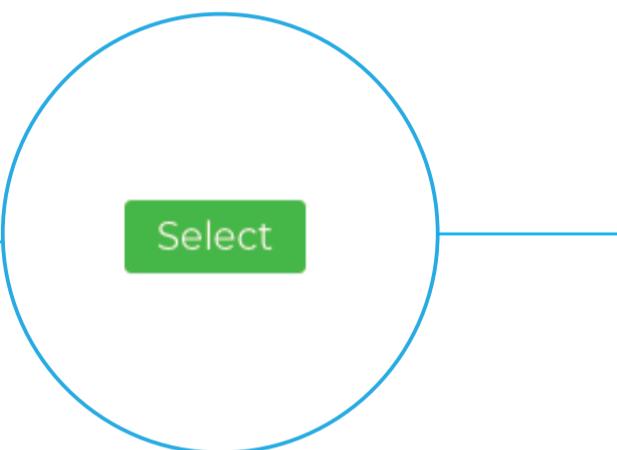
CURRENT REPAIR TASK
R1-001 Started
Information Images Machine Jobs Comments

TASK
R1 - OLED Lamination
Progress: 8/24 Status: Pending
REPAIR Select Technician View
Repair Type: Repair Screen Status: New
REPAIR ORDER R1-001
Customer: Nabil Kebabas Model: iPhone - iPhone X [glass: black]
Reference Number: Status: New

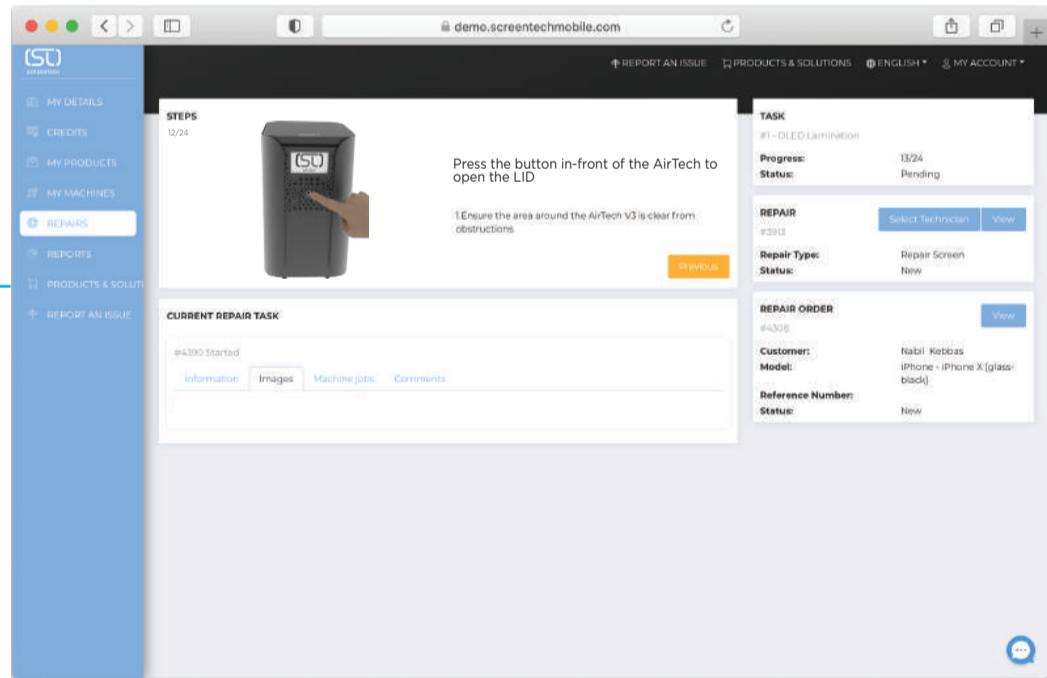
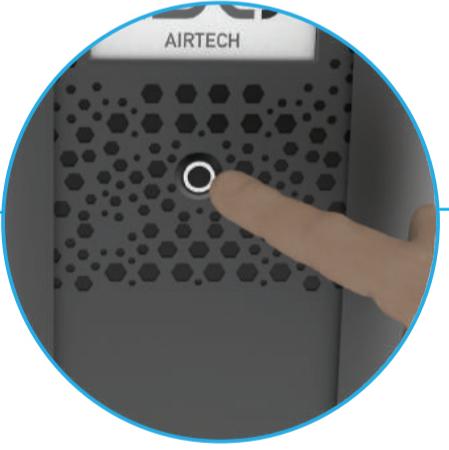
22



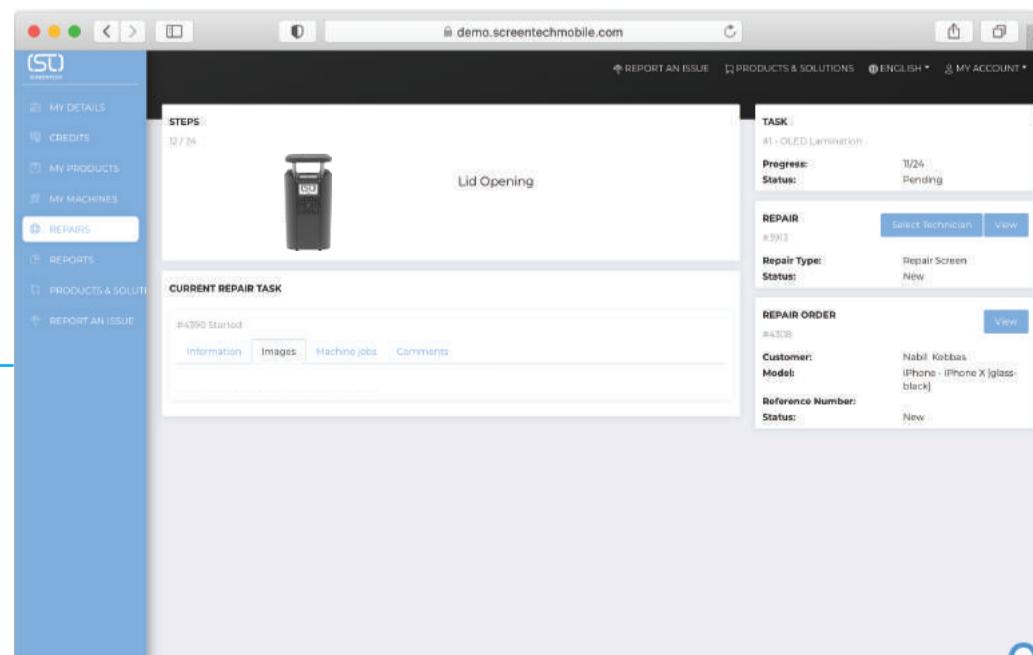
23



24



25



26



Place the Mould into the AirTech

STEPS 13/24

CURRENT REPAIR TASK #4293 Started

Information Images Machine jobs Comments

REPAIR #3013 Repair Type: Repair Screen Status: New

REPAIR ORDER #4293 Customer: Nabil Kebabs Model: iPhone - iPhone X [glass-black] Reference Number: Status: New

27



Press once to initiate the closing process.
The Chamber plate will be lowered.

Press the button in-front of the Airtech V3 start the closing process

1 Ensure the area around the AirTech V3 is clear from obstructions

STEPS 14/24

CURRENT REPAIR TASK #4300 Started

Information Images Machine jobs Comments

REPAIR #3013 Repair Type: Repair Screen Status: New

REPAIR ORDER #4300 Customer: Nabil Kebabs Model: iPhone - iPhone X [glass-black] Reference Number: Status: New

28



Press to close the Lid

Press the button in-front of the Airtech V3 to close the lid

STEPS 15/24

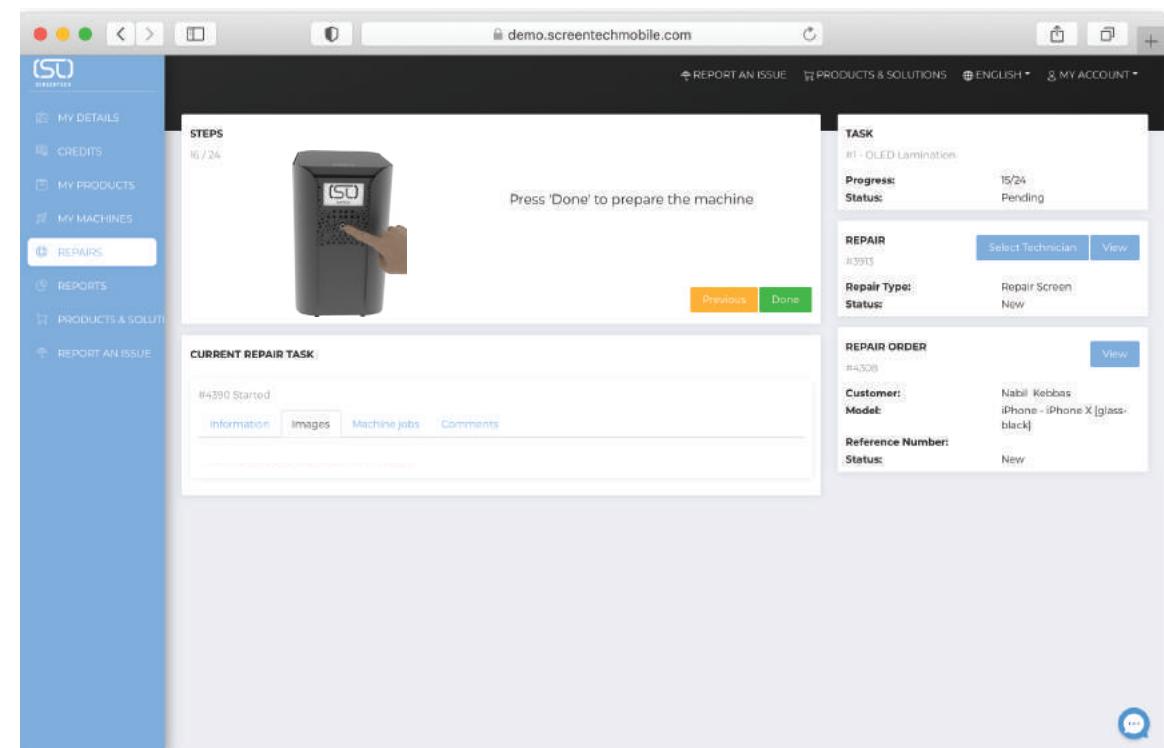
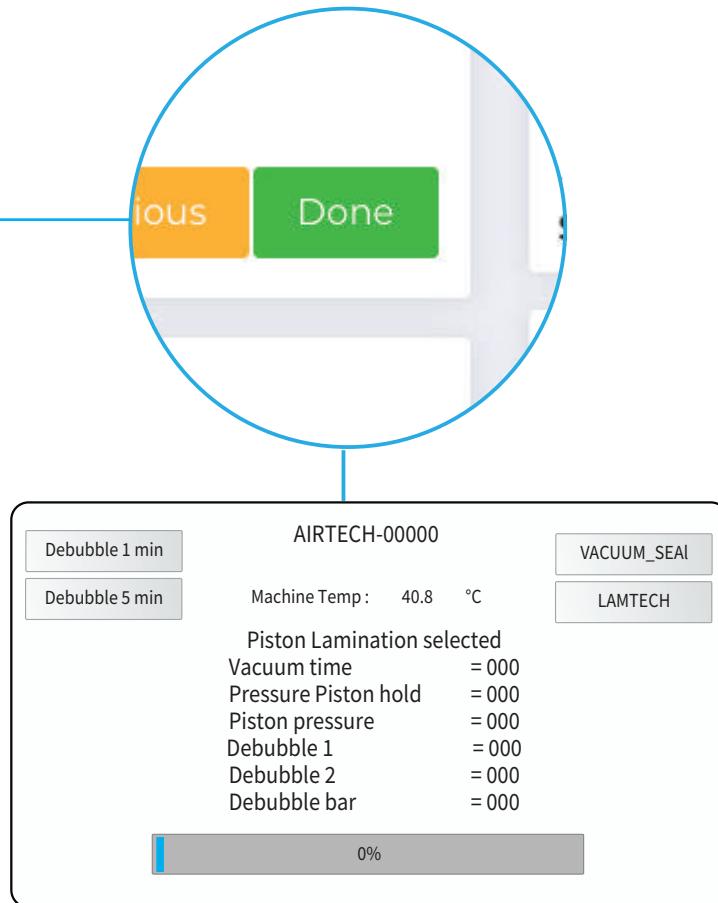
CURRENT REPAIR TASK #4300 Started

Information Images Machine jobs Comments

REPAIR #3013 Repair Type: Repair Screen Status: New

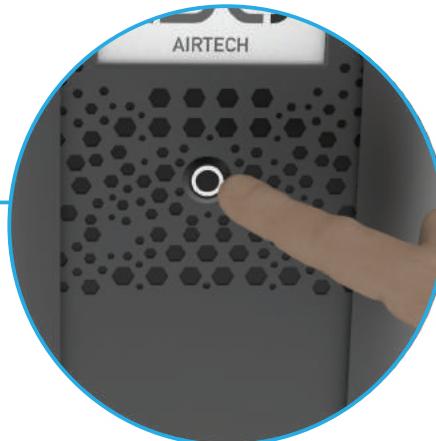
REPAIR ORDER #4300 Customer: Nabil Kebabs Model: iPhone - iPhone X [glass-black] Reference Number: Status: New

29



30

Process will start as button gets pressed



The screenshot shows the IoT ScreenTech Platform interface. On the left, a sidebar includes 'MY DETAILS', 'CREDITS', 'MY PRODUCTS', 'MY MACHINES', and 'REPAIRS' (which is selected). The main area displays a 'STEPS' section with '18/24' completed and a progress bar at 19%. A message says 'Machine Processing, please wait ...'. Below this is a 'CURRENT REPAIR TASK' section for 'AAZHO Started' with tabs for 'Information', 'Images', 'Machine jobs', and 'Comments'. To the right, a 'TASK' section details the repair: 'OLED Lamination', 'Progress: 18/24 Pending', 'Repair Type: Repair Screen Status: New'. It also lists the repair order: 'Customer: Nabil Kabbas', 'Model: iPhone - iPhone X [glass-black]', and 'Reference Number: status: New'.

31

Process has now completed.
The LID will automatically open
Stand Clear



This screenshot shows the same platform interface as above, but the 'STEPS' section now shows '19/24' completed. A message in the center says 'Process finished. Stand clear Lid will begin to open'. A green 'Done' button is visible in the bottom right corner of the main task area. The rest of the interface remains the same, showing the task details and repair order information.

SCREENTECH STRIVES TO IMPROVE ITS PRODUCTS AT ALL TIMES. BOTH THE DESIGN SPECIFICATIONS AND THESE USER INSTRUCTIONS ARE THUS SUBJECT TO CHANGE WITHOUT NOTICE.

POWER

INPUT VOLTAGE	Single Phase 110VAC/220VAC
OUTPUT VOLTAGE	24VDC
FREQUENCY	50-60Hz
WATTAGE	<= 40 WATTS

FEATURES

AIRBAG	LATEX
PNEUMATIC PISTON	150MM X 200MM
LINEAR ACTUATORS	300MM X 35MM
PRESSURE BARS MAXIMUM	10 BARS
PRESSURE VACUUM MAXIMUM	Ultimate vacuum(Pa) 6*10 ⁻²
CHAMBER TEMPERATURE	40C
CONNECTION IOT	ETHERNET LAN

GENERAL

WEIGHT	42.4kg
DIMENSIONS	450MM x 355MM x 255MM

REGION	COUNTRY	CUSTOMER CARE CENTRE
EUROPE	GERMANY	
	GREECE	
	FRANCE	
	ITALY	
ASIA PACIFIC	HONG KONG	
AFRICA	SOUTH AFRICA	
LATIN AMERICA		

FCC Warning

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.