Designed and Manufactured 100% in Italy

INSTALLATION GUIDELINE

Rev: 05_2020

Model: ACE 950 - DUAL 1200

ENG

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PRE INSTALLATION CHECKLIST

Follow these steps to successfully install the dryer:

- ☐ 1) VERIFY DOORS, BUILDING AND MACHINE DIMENSIONS
- ☐ 2) VERIFY WEIGHT AND EQUIPMENT FOR HANDLING (forklift needed)
- ☐ 3) VERIFIY EXHAUST CONNECTION (technician needed)
- ☐ 4) VERIFY ELECTRICAL REQUIREMENT (electrician needed)

Each step of the installation is described in depth in this document.

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IMPORTANT

READ CAREFULLY BEFORE USE

KEEP FOR FUTURE REFERENCE

1.1 ABOUT THIS DOCUMENT

• Make sure that this document is accessible at all times.

• The manufacturer does not provide warranties of any kind with regard to this manual. The data in this document were valid at the time of publication and may change without notice. The latest technical developments are constantly being incorporated into our documentation. Therefore illustrations and descriptions are subject to modification.

• Use of this manual takes place under the full responsibility of the user. The manufacturer shall not be held responsible for any errors contained within this document, nor for any accidental damage resulting from the supply or use of this manual.

1.2 PURPOSE AND TARGET GROUP

This document is part of the machine documentation and contains information about the site and enviroment conditions and requirements for a safe and successful commissioning and installation of the Dryer.

This document must be handed out to the customer prior to the installation.

The information of this document should be referred to the following personnel:
• Customers and trained customer technicians
• General service technicians (Distributor service technicians)
• Chiossi e Cavazzuti service technicians

1.3 EQUIPMENT REQUIRED

To properly install and maintain TETRIS dryer you will need this equipment in advance:

- cordless screwdriver/drill

- Phillips bit PH1

- Phillips bit PH2

- flat-blade screwdrivers

- Phillips screwdrivers n ° 1-2

- adjustable spanner wrench

- fork spanner set 7-8-10-13-17-19-24-30

- tube spanner set 7-8-10

- allen key set up to 10

- universal pliers

- clamp for tube housings up to 25mmq

- cutter

- spirit level

- ac / dc multimeter

- current clamp

- thermometer with wired probe

2.1 PACKAGING

• The machine is delivered inside a wooden cage over a pallet, closed on all sides.

• The machine is always covered with a heat shrinkable plastic sheet.

• If the transport is carried out by ship, the machine will be protected by a heavy-duty barrier bag. In addition salt minerals will be placed inside the packaging to minimize moisture exposure.

• The machine is attached to the pallet on several points. Some parts of the machine have been disassembled prior to shipment in order to avoid accidental damage and reduce overall space (indicator light, casters, inlet and outlet, etc). Refer to the Installation chapter for detailed instructions.

PACKING LIST

Dryer weight and overall size of the wooden cages and pallets are listed in the table below.
Note that the dryers are assembled when delivered inside the wooden cage. When delivered on pallet, inlet/outlet and belt conveyor are detached in a separate pallet.

CONTENT	GROSS WEIGHT	CAGE EXTERNAL SIZE
ACE 950 - 1390066	750 kg	4500 x 1470 x 2200 mm
DUAL 1200 - 1390052	1100 kg	4400 x 1780 x 2200 mm

CONTENT	GROSS WEIGHT	PALLET SIZE
ACE 950 - 1390066	750 kg	2250 x 1300 mm
DUAL 1200 - 1390052	1100 kg	2250 x 1600 mm
INLET/OULET EXTENSIONS	1100 kg	1500 x 750 mm

2.2 DRYER OVERALL SIZE

• For detailed dimension of the machines refer to the drawings at page 8.

DRYER MODEL	DRYER DIMENSIONS [LxWxH]
ACE 950 - 1390066	3800 x 1250 x h2163
DUAL 1200 - 1390052	4100 x 1500 x h2163

2.3 WEIGHT

• All values are excluding packaging parts.

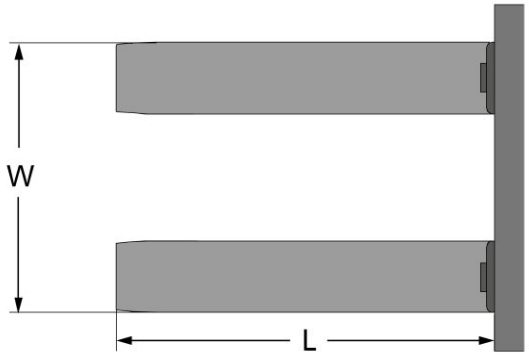
DRYER MODEL	NET WEIGHT
ACE 950 - 1390062	650 kg
DUAL 1200 - 1390052	780 kg

2.4 LIFTING AND HANDLING

• All necessary equipment to move the machine must be supplied by the customer.

• The lifting must be carried out with forklift. Do not use transpallets or hydraulic platforms.

• To handle the machine with any type of crane please contact Chiossi e Cavazzuti technical service since special equipment and instructions are needed.



PARAMETER	VALUE
Forklift Capacity	1400 kg / 3000 lbs
L = min. fork length	180 cm /70 in
W = min. fork distance	65 cm / 25 in

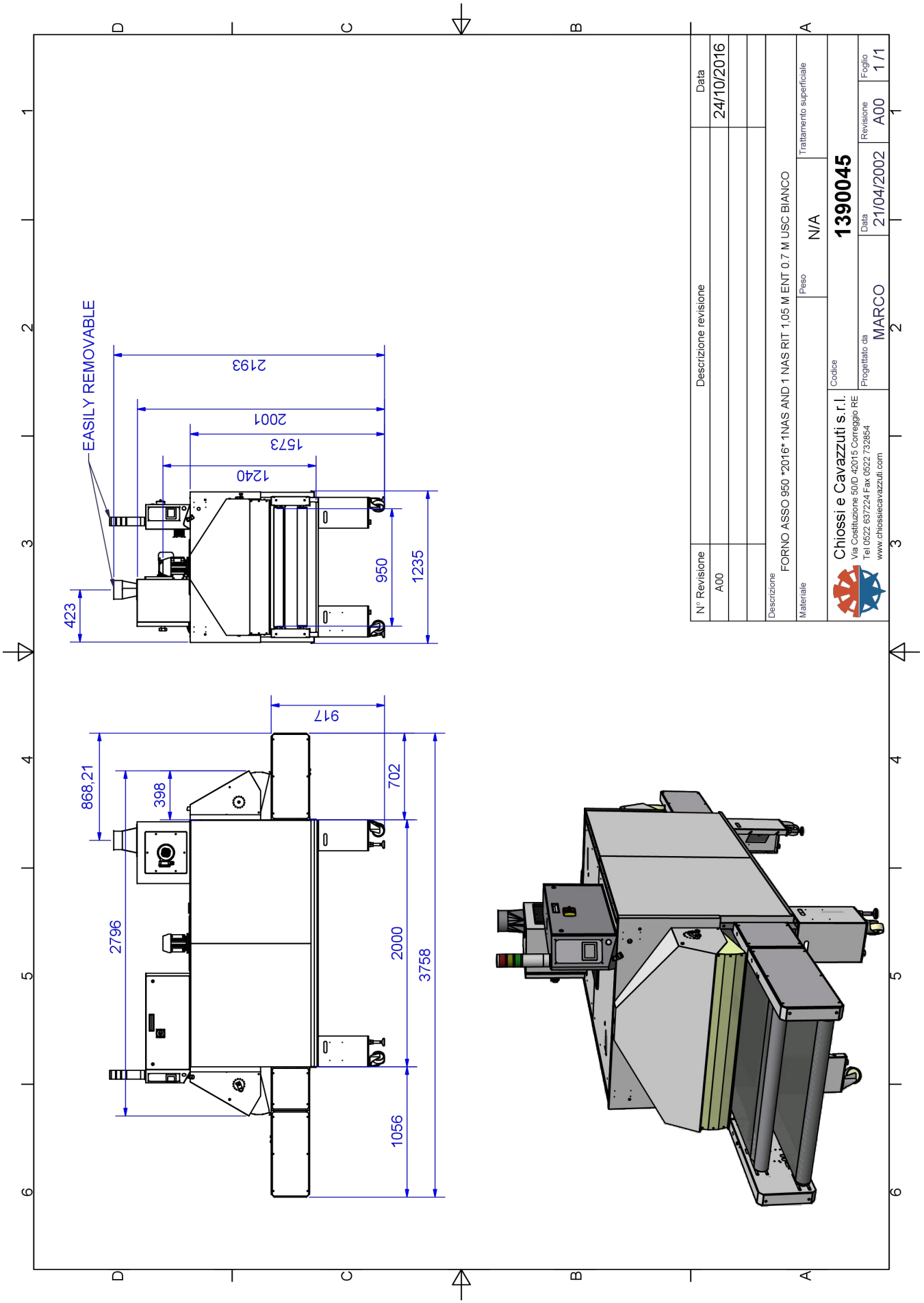
2.5 FORKS PLACEMENT

• The machine must be lifted only from the lateral side.

1) Spread the forks wide open and align them to the horizontal bars of the frame.

2) Verify that the edge of the forks exit on the other side of the dryer.

3) Always check the overall balance of the machine when moving the machine.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Descrizione revisione
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Materiale
Peso
N/A
Trattamento superficiale
Codice
1390045
Chiossi e Cavazzuti s.r.l.
Via Costituzione 50/D 42015 Correggio RE
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Progettato da
MARCO
Data
21/04/2002
Revisione
A00
Foglio
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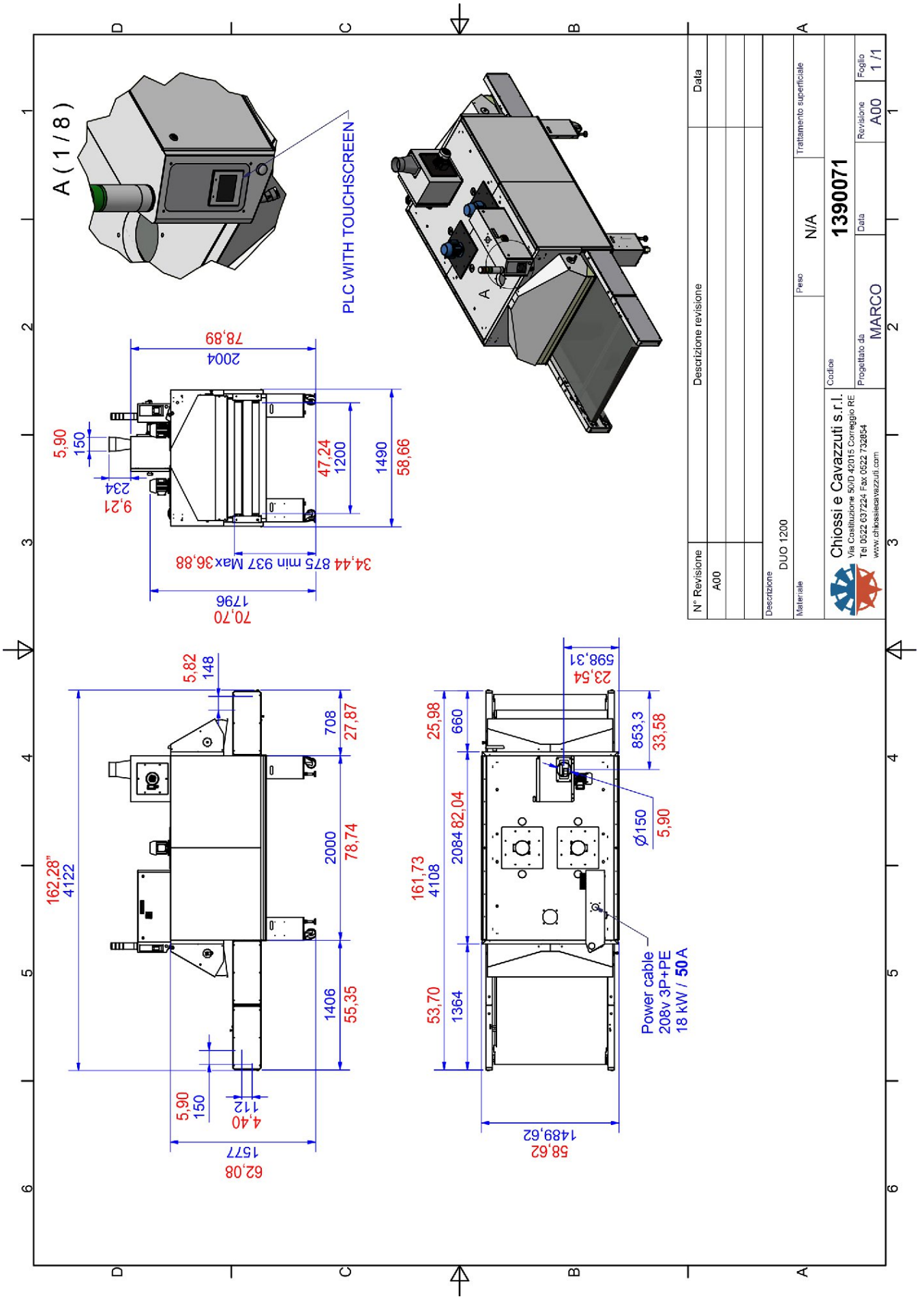
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PLC WITH TOUCHSCREEN
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9,21
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1490
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70,70
1796
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1390071
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MARCO
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Revisione
A00
Foglio
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4.1 EXHAUST CONNECTION

• The exhaust pipeline installation must be carried out by an authorized local technician (mandatory).

• Exhaust tubes and pipes are not supplied with the machine and must be organized by the customer.

• Connect the exhaust pipeline to the outside. Thermo-insulation of the exhaust pipes is recommended.

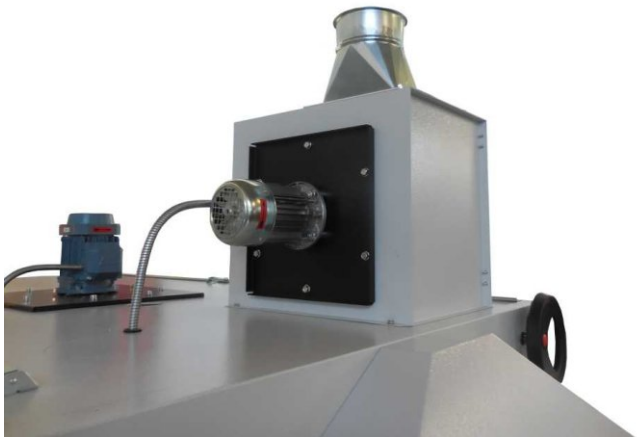
• The maximum length of the pipeline is 10 meters. For longer piping it is necessary to increase the diameter of the pipe or install a suitable aspirator.

• Limit the number of curves and horizontal sections. Curved tubes must have a max. angle of 45 °.

• The exhaust extractor fan for the dryer is built inside the machine.

• An oily liquid will form in the ducting from the condensation of the vapors. It is necessary to seal all joints with special oil-resistant silicone, and ensure that the path of the pipes does not overhang an area where falling drops can cause damage.

PARAMETER	VALUE
Exhaust flow rate	180 m^3/h
Connection diameter	150 mm (max 10 meters with 2 curves; for longer lengths or twisty pipeline, increase the diameter)
Location of the connection	Top of the machine. Flange is delivered with the machine
Material type	Galvanized Iron



5.1 ELECTRICAL CONNECTION

• The Manufactuer does not provide the power cord or plug. All the needed cables and connection parts must be supplied by the customer. All power cords must match the national electrical safety regulations.

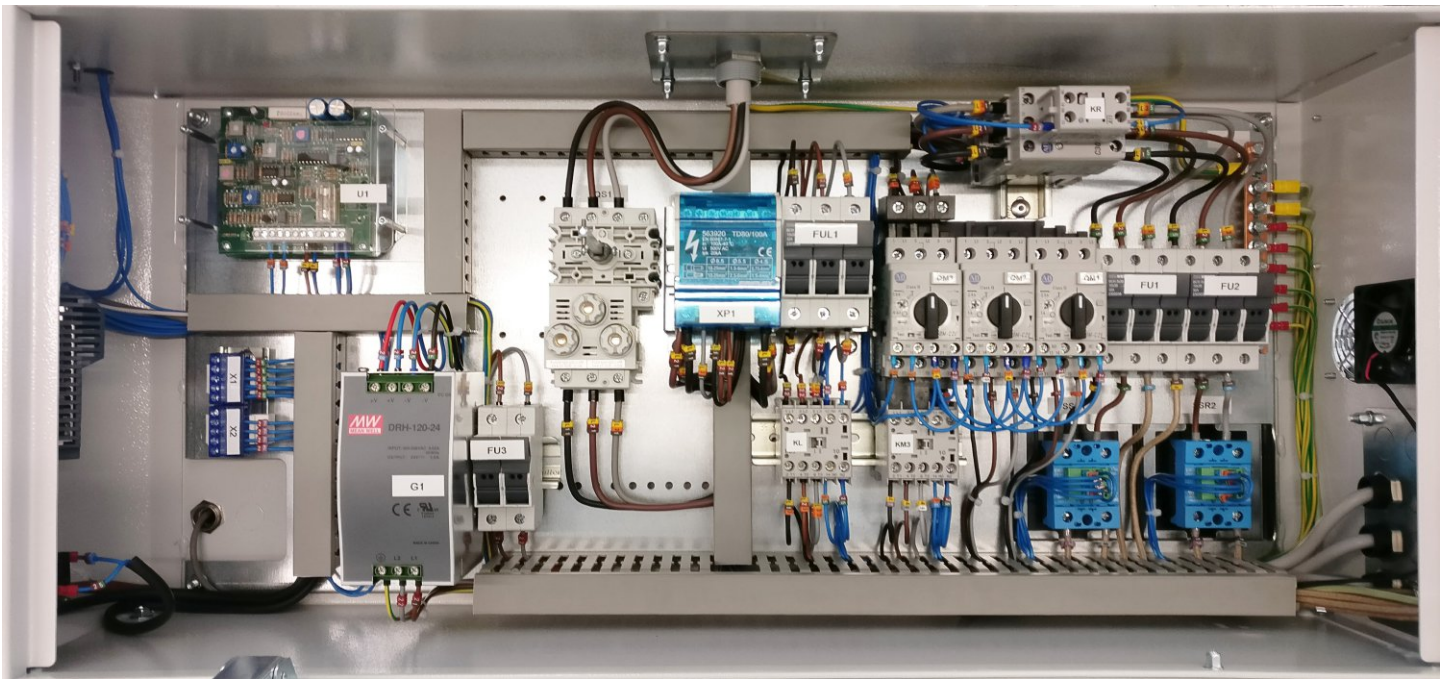
• Use 4 core cable (3Ph+Pe) of an adequate cross-section and connect to a thermal magnetic switch protected by a 30mA Residual Current Device (RCD).

• The connection to the main power must be carried out by an authorized local electrician (mandatory).

• The electrician responsible of the connection must verify that the power plant conditions match the national electrical safety regulations and are suitable for the machine requirements.

• The machine is built for fixed main connection only. The power cords must enter the electrical cabinet from the top.

ELECTRICAL DATA	ACE 950 - 1390066	DUAL 1200 - 1390052
Phases	3P + PE	3P + PE
Voltage [V]	208 ± 10%	208 ± 10%
Frequency [Hz]	50 Hz	50 Hz
Max Consumption [kW]	14 kW	19 kW
Current [A]	42 A	50 A



6.1 UNPACK THE DRYER

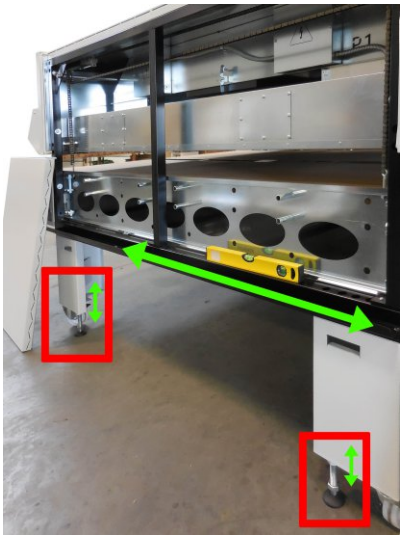
• The machine is attached to the pallet on several points. Some parts of the machine have been disassembled prior to shipment in order to avoid accidental damage and reduce overall space (indicator light, casters, inlet and outlet, etc).

Note that the dryers are fully assembled when delivered inside the wooden cage. When delivered on pallet, inlet/outlet and belt conveyor are detached in a separate pallet.

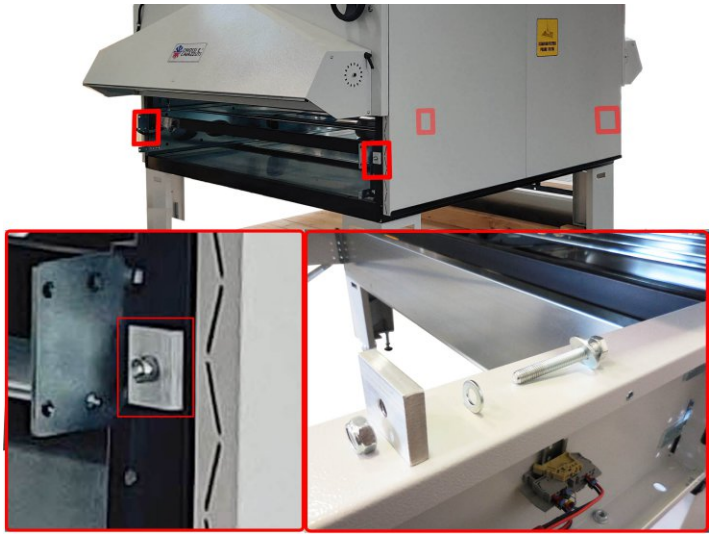
• After the unloading operation, free all parts from the packaging. The tunnel and inlet/outlet are fixed on the pallet with screws. All the auxillary parts (screws, belt conveyor, exhaust tube flage, etc..) are placed inside the tunnel of each corresponding machine.

• Place the tunnel in the desired position. Unlock the hoock on top of the roof to open all lateral panels.

• Level the tunnel, check the 4 sides of the chassis and regulate the adjustable feet accordingly. If levelling is not successful, the conveyor belt will not remain alligned correctly.



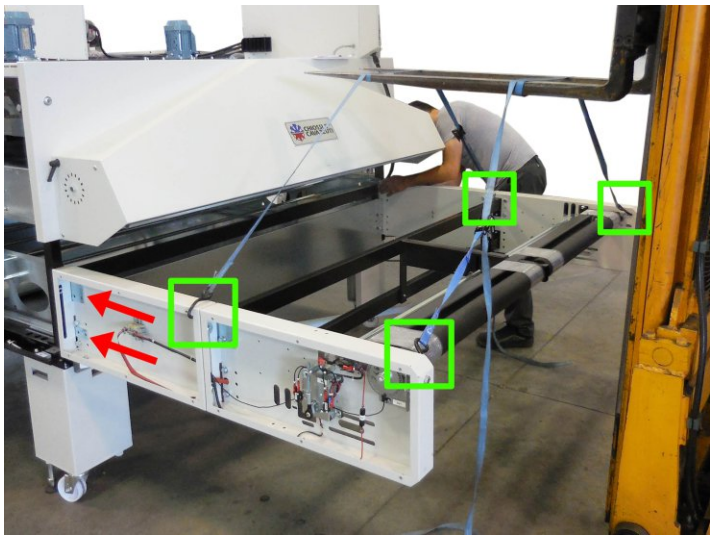
6.2 CONNECT THE INLET AND THE OUTLET TO THE TUNNEL



• At first remove the squared metal plates in every corner of the tunnel (4 total). The belt conveyor is on moving railings, these plates are firmly screwed to avoid accidental moving of the belt conveyor lifting system.

• Do not dispose the plates. After the inlet and the outlet have been connected, these plates will be eventually screwed in the same position again.

CONNECT THE INLET

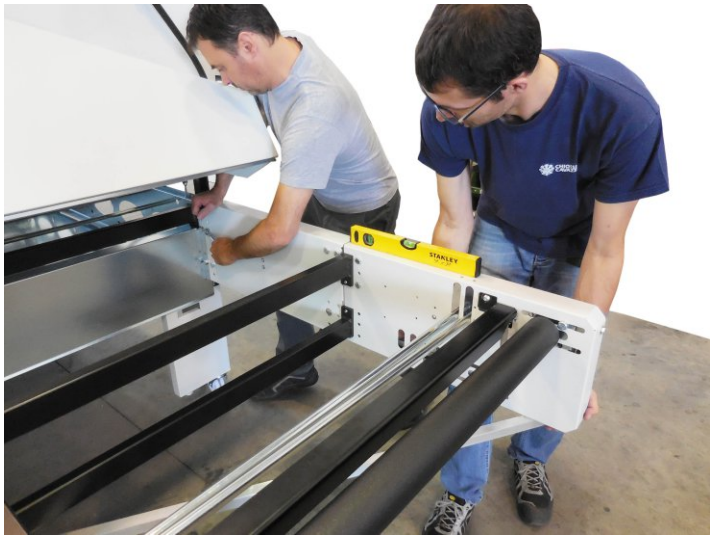


• Identify the inlet by the label, usually it's longer and heavier than the oulet.

• To lift the inlet in position secure it to a suitable forklift with anchor straps in the corners. Alternatively 3 or more Operators are needed to manually lift the structure.

• Align the inlet to the plates of the tunnel as shown in the picture.

• Insert 6 screws from the inside to attach the plates for each side. Do not tight completely yet in order to suspend the structure and be able to level it.



• 2 or more operators are needed to level the structure, one adjust the height and tilt of the inlet while the other tigthen the screws to fix it in position, refer to the picture. Measure the level on both sides and on the roller of the belt.

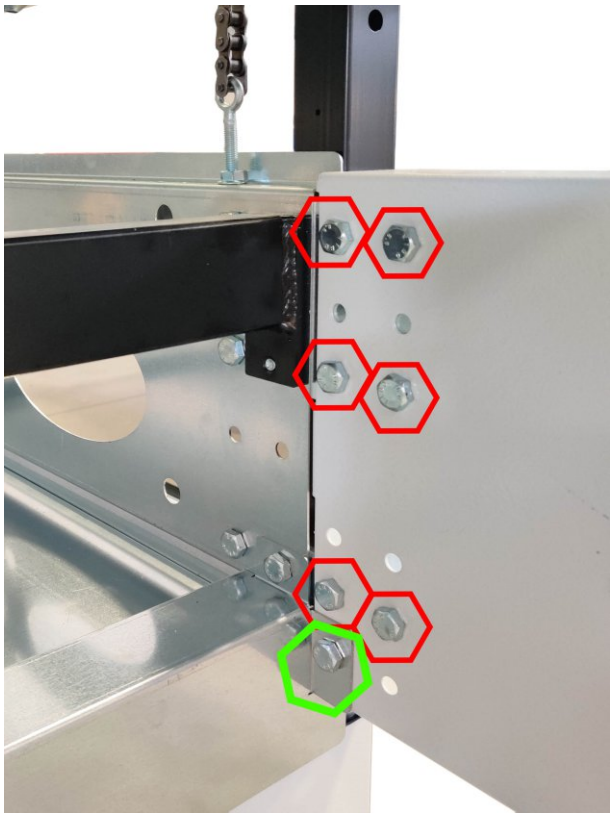
• When the roller and all sides and of the inlet are leveled, firmly tight all screws with nuts to secure it in place.

The screw highligthed in green in the side picture is needed to secure the lower metal sheet.

Place all the nuts in the closed side of the inlet.

• Insert again the square metal plate on both sides. Insert the long screw and the washer from the inside of the tunnel. The second whasher stays between the frame and the inlet as a spacer while the sware plate and nut are on the other side of the inlet. Refer to image.

Do not tighten the plate in order to be able to raise or lower the belt conveyor system with the handwheel.



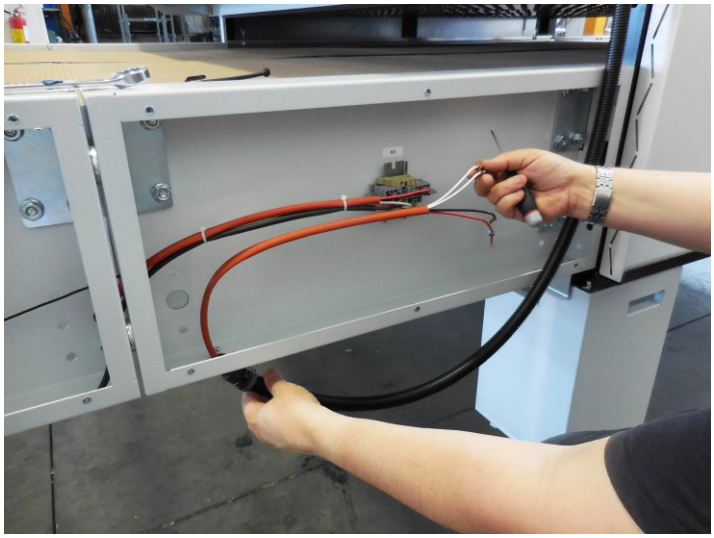
CONNECT THE OUTLET

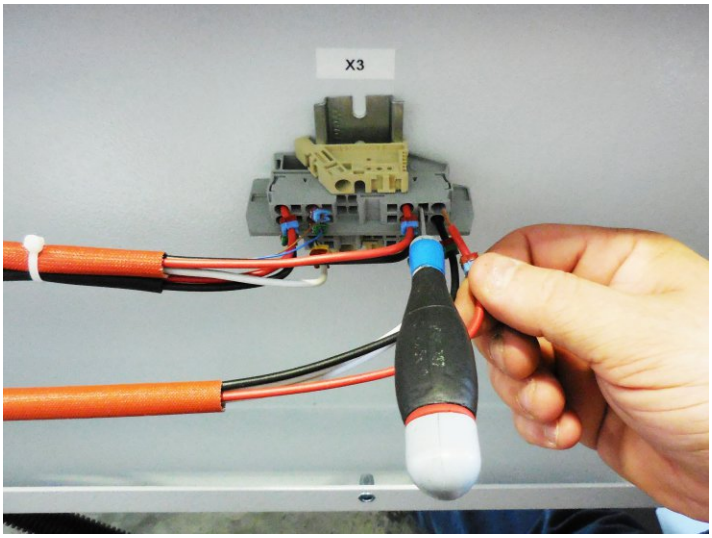
Follow the same instruction as for the inlet. The outlet should be easier since it is smaller and lighter.

6.3 ELECTRICAL CONNECTION

INLET

• Insert the cable duct in the lower part of the inlet through the holes. Secure the cables with the quick joint connection.

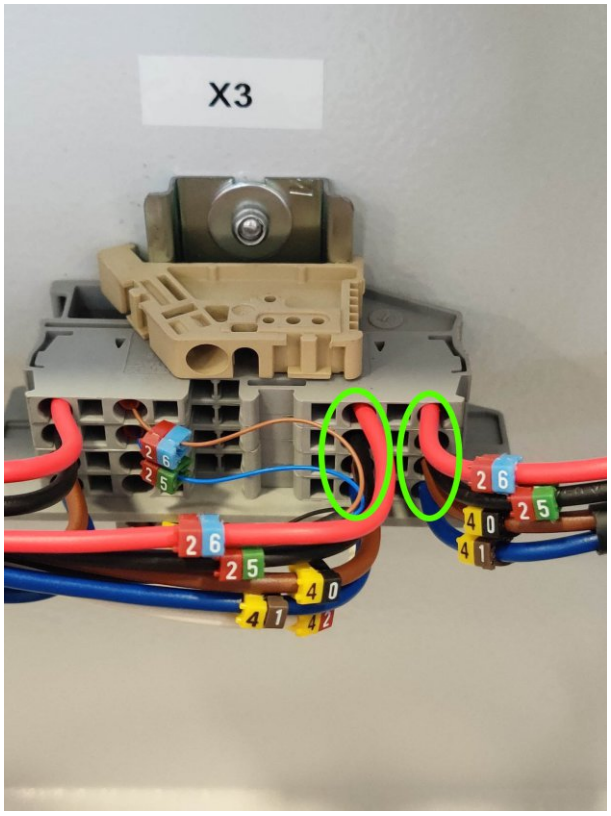




• Identify the terminal block X3: refer to the numbers of the wires and plug in accordingly.

• Insert a small flat screwdriver and tilt it slightly to open the connector. Plug in the wire, remove the screwdriver and try to pull out the wire to verify the hold of the connection.

• Double check that all the wires are coupled correctly.



WIRE SEQUENCE FROM ABOVE

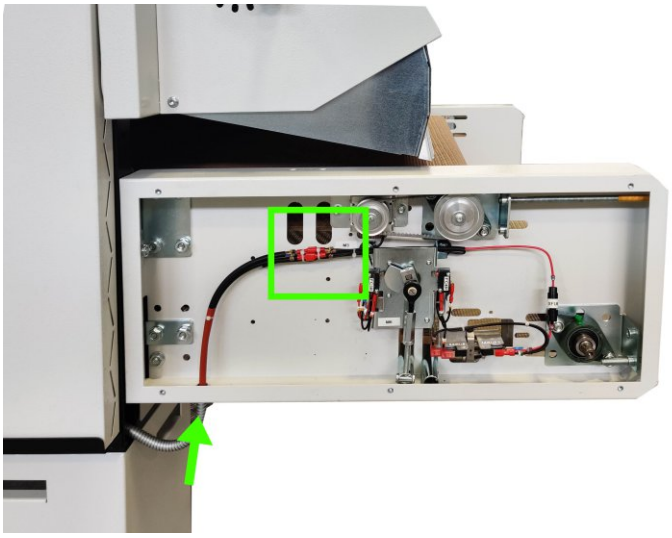
LEFT BLOCK:
26 RED
25 BLACK
40 BROWN
41 BLUE
42 WHITE

RIGHT BLOCK:
26 RED
25 BLACK
40 BROWN
41 BLUE

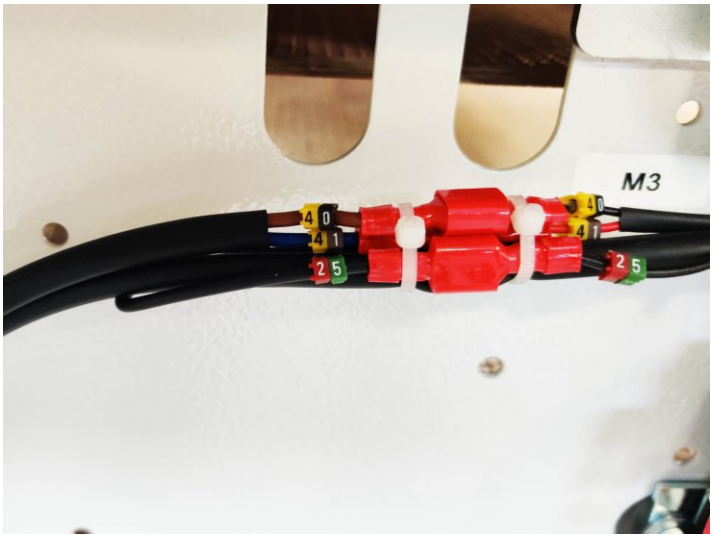
6.3 ELECTRICAL CONNECTION

OUTLET

• Insert the cable duct in the lower part of the inlet through the holes. Secure the cables with the quick joint connection.



• Identify the terminal block of belt motor M3: refer to the numbers of the wires and plug in accordingly.



• Double check that all the wires are coupled correctly.

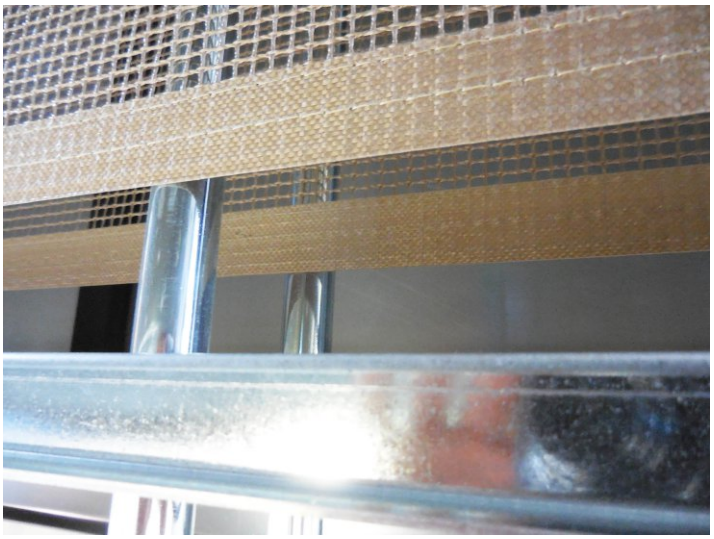
WIRE SEQUENCE FROM ABOVE

FEEDING MOTOR M3:
40 BROWN
41 BLUE

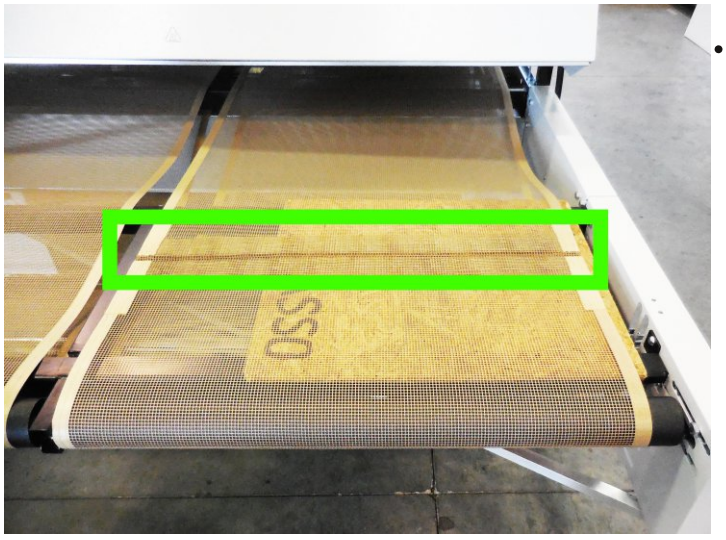
FEEDING BELT CENTERING DEVICE:
25 BLACK

6.4 BELT CONVEYOR

• The belt conveyor must pass above every tube, both lower and upper tubes, refer to pictures below.



• Use a board or a flat surface as a working table and bring the joints of the belt conveyor close to each other.



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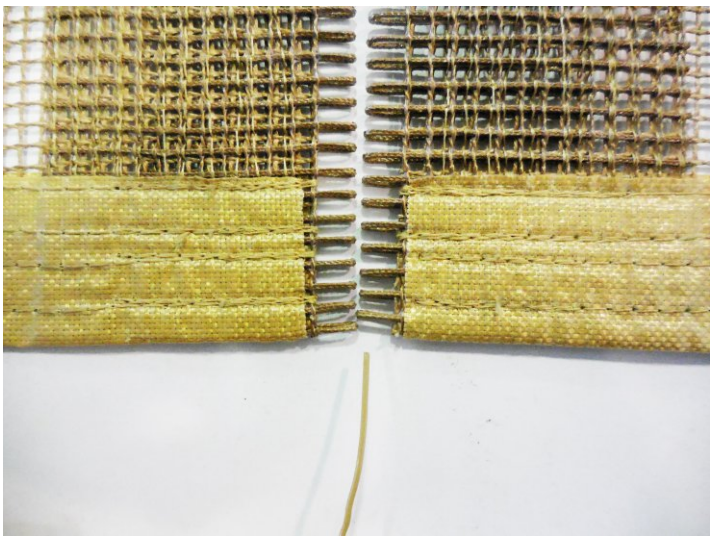
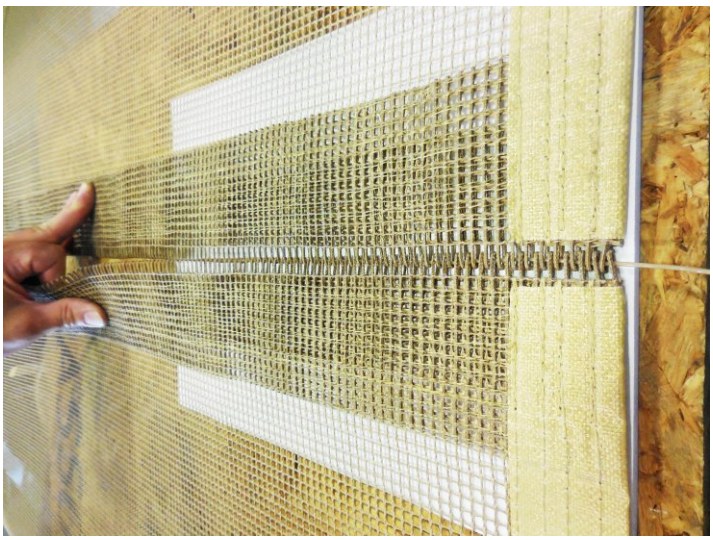
6. INSTALLATION

• Align the edges of the belt and insert the provived thread.



• Be careful to joint the belt in the correct position without losing any hooks. The edge must be flat and without any indent.



• Finally fold inside the thread to secure the closure.