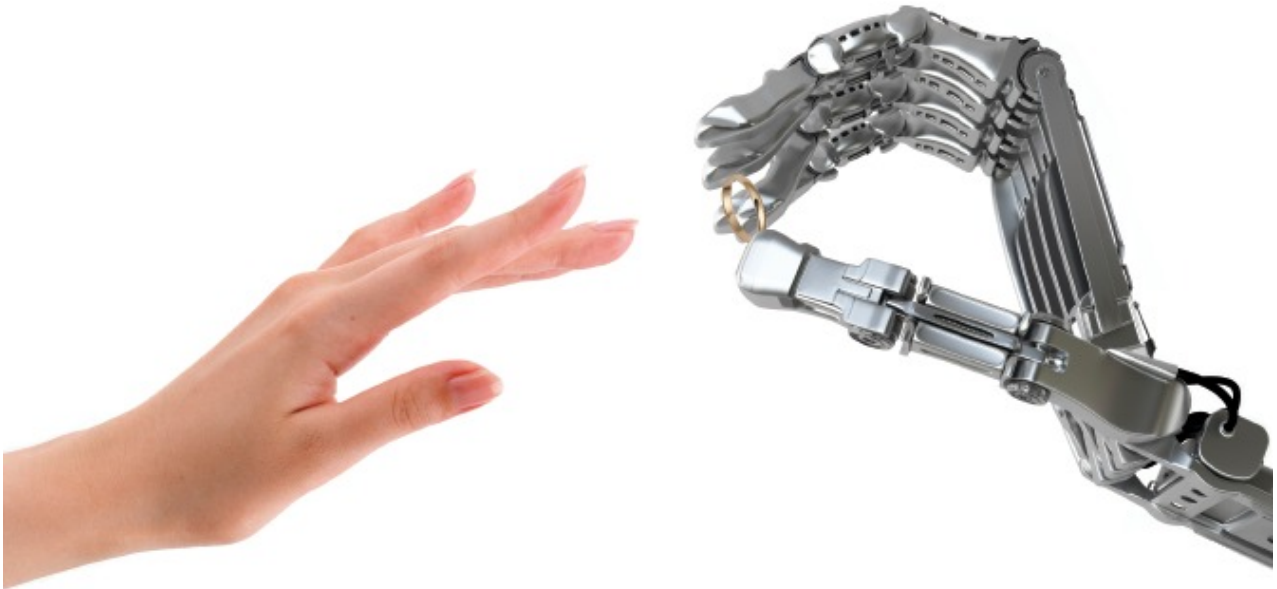




FUSING MACHINES
www.martingroup.it



Passion and technology...

 OPEN TOP SERIES

 X-SERIES

 M.E.P.P. SERIES

 STACKERS

Open Top 700/1000/1240/1400/1600/1800

Various configurations

The highest expression of our production. Highest flexibility together with high productivity.
Designed with modular solutions to be equipped with stackers feeding stations and return belt device.



The Control Unit :

Standard Control (SC)



- Standard control functions:
- Set/Actual temperature
 - On/Off button
 - Pressure indicator
 - Pressure regulator
 - Belt speed in mt/min and seconds
 - Running inversion button
 - Auto self Cooling button
 - Heating element diagnostic, compressed air supply, belt tracking and engine thermic
 - OUT button for total pressure exclusion

Touch Screen Control (ETC)



- Our ETC Touch screen control offers you the possibility to have all standard functions but in Touch version
- Touch Screen Control functions:
- Set/Actual temperature
 - On/Off button
 - Pressure indicator
 - Pressure regulator
 - Belt speed in mt/min and seconds
 - Running inversion button
 - Auto self Cooling button
 - Heating element diagnostic, compressed air supply, belt tracking and engine thermic
 - OUT button for total pressure exclusion
 - Error reports and suggested solutions

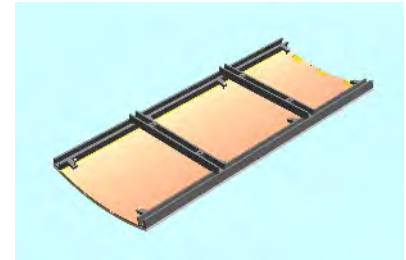
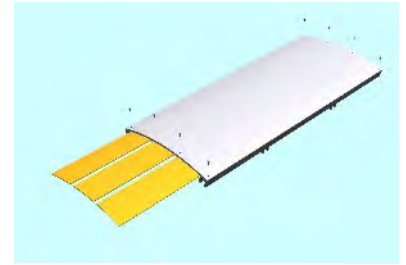
Touch Screen Control (TCX)



- Our TCX Touch screen control offers you the possibility to have all standard functions and programmable memories
- Touch Screen Control functions:
- Set/Actual temperature
 - On/Off button
 - Pressure indicator
 - Pressure regulator
 - Belt speed in mt/min and seconds
 - Running inversion button
 - Auto self Cooling button
 - Heating element diagnostic, compressed air supply, belt tracking and engine thermic
 - OUT button for total pressure exclusion
 - Error reports and suggested solutions
 - Fusing program storage with Easy Recall

Heating System

Open Top series has 1400 mm length heating area, this ensure the best and accurate heating for fusing all the materials using a fusing average speed of 6 mt/min.



The heating Element

Aluminium folded sheet welded

The heating System

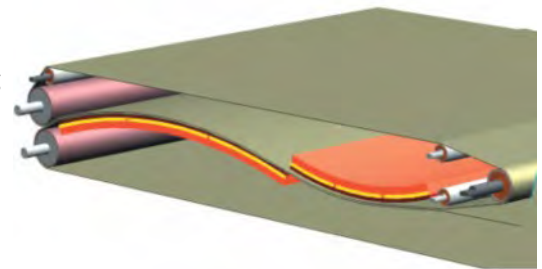
Aluminium heating insert in an aluminium plate 10 mm tick in ANTICORODAL ALUMINIUM with TEFLON protection.

The Heating Zone Configuration

Top/Bottom configuration.

Pre-heating in the first section with top heating plate it allow to start the melting of interlining. Final heating with long heating plate to fix the interlining on fabric by gravity force before pressing section.

Our curved plate system allow to fuse smooth also without pressure.



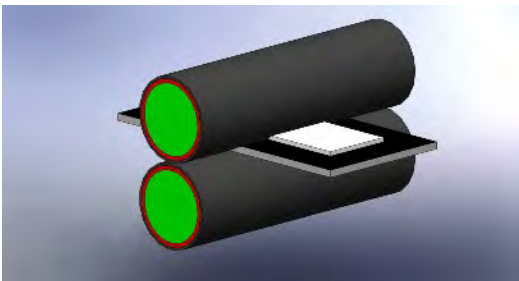
The Pressure System

Martin Group in all fusing machine uses the same pressure system.

Double roller pressure system with lever action to allow "ZERO" pressure fusing with "OUT" system.

The various configurations:

ADAPTIVE (AD)

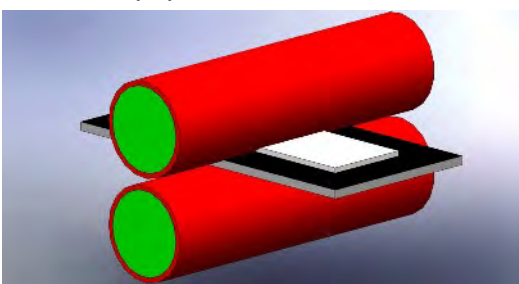


C40 inner core body with 2 different vulcanized silicon hardness covers.

2 Vulcanized Silicon Pressure rollers.

This system ensure a more accurate fusing also with fabric with different tickness in the same working line and also for pressure sensitive fabrics.

STANDARD (ST)

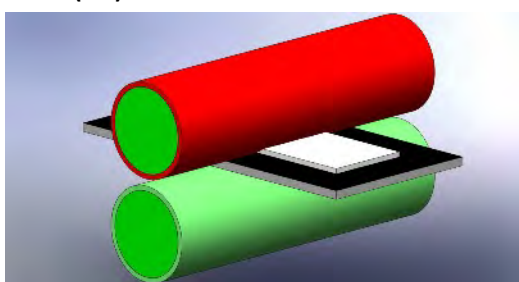


C40 inner core body with vulcanized silicon covers.

2 Vulcanized Silicon Pressure rollers.

Applicable for all jacket production and outwear

HARD (HA)



C40 inner core body with vulcanized Silicon covers.

1 Vulcanized Silicon Pressure roller

1 Hrad Stell body roller

Applicable on shirt industry and hard interlinings

Laminating and Decatising accessories

Laminating System - LAMINATOR 1600/1800-2-3

Complete Laminating system can be applied to our OPEN TOP 1600-1800.



Our Laminating system can be equipped with:
3 Position Unwinding = FABRIC + FILM + FABRIC
2 Position Unwinding = FABRIC + INTERLINING

This system is the ideal accessory for the customers that require to fuse the whole roll of fabric with the whole roll of interlining, or double face producers.

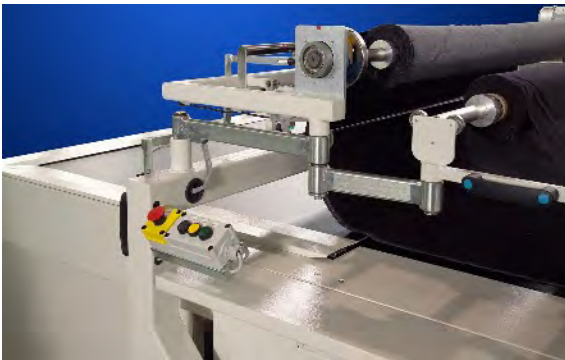
Machine has a meter/counter with automatic cut.

The laminating system is equipped with a rewinding device that allow to collect fabric fused Up to 50 mm diameter.

Decatising System + Mechanical fusing device SP1600 AD-BR

The latest development of fabric producers require frequently a decatising procedure before fusing.

Decatising procedure can be made also inside customer factory with a 1600 Open Top fusing machine equipped with our Decatising system.



Fully mechanical device SP1600

Version with simple mechanical bars and cones also available



X - Series 600/1000/1400/1600 K-L



High flexibility.
Suitable for sportswear, jacket and shirts.
Designed with modular solutions to be equipped with stackers feeding stations and return belt device.

Advantages:

- Compact design
- **Longest and more comfortable loading belt**
- Long heating area
- Fast warm-up
- High reliability and accurate pressure and temperatures settings

The Control Unit :

Standard Control (SC)

Standard control functions:

- Set/Actual temperature
- On/Off button
- Pressure indicator
- Pressure regulator
- Belt speed in mt/min and seconds
- Auto self Cooling button
- Belt tracking diagnostic
- OUT button for total pressure exclusion



Touch Screen Control (ETC)

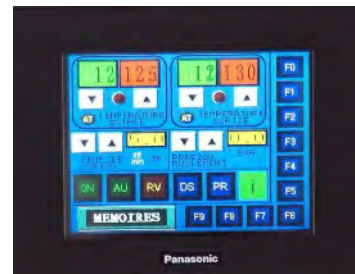


Our ETC Touch screen control offers you the possibility to have all standard functions but in Touch version

Touch Screen Control functions:

- Set/Actual temperature
- On/Off button
- Pressure indicator
- Pressure regulator
- Belt speed in mt/min and seconds
- Running inversion button
- Auto self Cooling button
- Heating element diagnostic, compressed air supply, belt tracking and engine thermic
- OUT button for total pressure exclusion
- Error reports and suggested solutions

Touch Screen Control (TCX)



Our TCX Touch screen control offers you the possibility to have all standard functions and programmable memories

Touch Screen Control functions:

- Set/Actual temperature
- On/Off button
- Pressure indicator
- Pressure regulator
- Belt speed in mt/min and seconds
- Running inversion button
- Auto self Cooling button
- Heating element diagnostic, compressed air supply, belt tracking and engine thermic
- OUT button for total pressure exclusion
- Error reports and suggested solutions
- Fusing program storage with Easy Recall

Heating System

X-Series has 900 mm length heating area, this ensure the best and accurate heating for fusing all the materials using a fusing average speed of 6 mt/min.

The heating Element

Anodized Aluminium molded extrusion

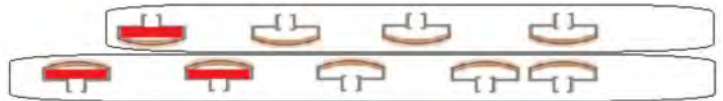
The heating System

Aluminium heating insert in an aluminium molded extrusion 5 mm tick.

The Heating Zone Configuration

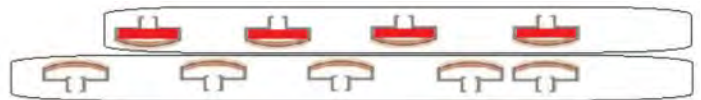
Pre-Heating + Final Heating

Pre-heating in the first section (first 3 elements) managed by 1 thermoregulator. Final heating (other 6 elements) managed by 1 thermoregulator. This is the optimal configuration for high sensitive fabrics.



Continuous Top/Bottom configuration.

The four upper heating element managed by a single Thermoregulator. The five lower heating element managed by a single thermoregulator. This is the optimal configuration for difficult melting interlinings.

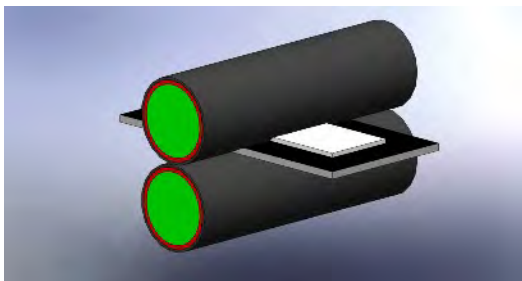


The Pressure System

Martin Group in all fusing machine uses the same pressure system. Double roller pressure system with lever action to allow "ZERO" pressure fusing with "OUT" system.

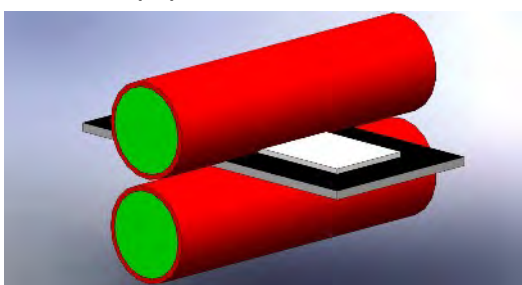
The various configurations:

ADAPTIVE (AD)



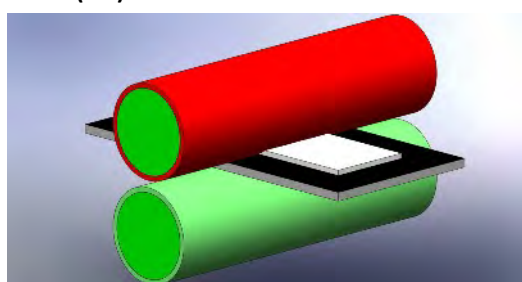
C40 inner core body with 2 different vulcanized silicon hardness covers.
2 Vulcanized Silicon Pressure rollers.
This system ensure a more accurate fusing also with fabric with different tickness in the same working line and also for pressure sensitive fabrics.

STANDARD (ST)



C40 inner core body with vulcanized silicon covers.
2 Vulcanized Silicon Pressure rollers.
Applicable for all jacket production and outwear

HARD (HA)



C40 inner core body with vulcanized Silicon covers.
1 Vulcanized Silicon Pressure roller
1 Hrad Stell body roller
Applicable on shirt industry and hard interlinings

X600 SH-E/R/P (Shirt version)



High Performances.
Specifically designed for Shirt collar and cuffs fusing.
Available with Exit belt, Return belt or Stacker device.
Also available with cooling system.



Illuminated Area help you during interlining positioning

The Options :

Return Belt device



Space saving return belt, and collection box on operator side.

Collars and Cuffs Stacker



This simple stacker allow to collect collar and cuffs after fusing, this system will be perfect also without cooling system because the parts will have their time to cool on the stacker skid.

Fan Cooling System (FC)



Fan cooling system energy saving and easy installation, allow to handle by hands material fused

Active Cooling System (AC)



Active cooling system is a powerful active cooling fridge group separate from fusing machine, with this system you can also regulate the cooling temperature.

Options and Accessories for all models

Return belt system

Return belt allow to work with one single operator that will charge and collect parts.



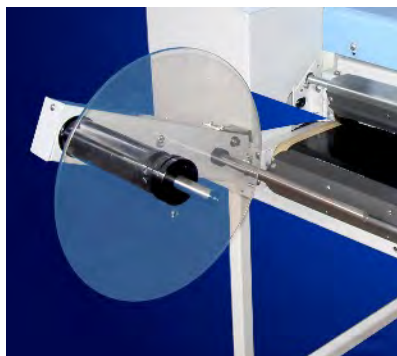
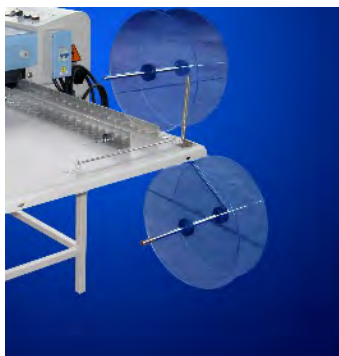
Feeding/Return belt system

This system give you the possibility to prepare very delicate fabrics on a coll feeding belt. Customer can work also with 4 person with this system, lenght of feeding belt 1400 mm. Return belt allow to collect part from operator side.



Waistband Fusing Device (WS)

This system allow you to fuse trousers waistbands and also other roll to roll parts.
This system include also collecting device.



Cooling Devices

Sometimes is required a cooling system at the exit of fusing machines.
Martin group provide 2 solutions:

Fan Cooling System (FC)



Fan cooling system energy saving
and easy installation,
allow to handle by hands
material fused

Active Cooling System (AC)



Active cooling system is a powerful
active cooling fridge group separate
from fusing machine, with this system
you can also regulate the cooling
temperature.

Loading extension and Feeding belts

Feeding belt (FB)

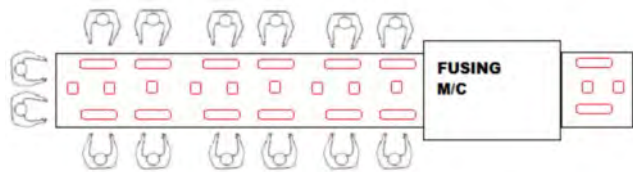
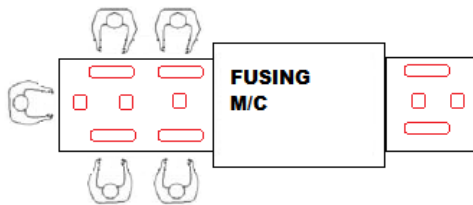
Standard feeding belt is 1400 mm length. Upon customer request we can produce this belt also 4200 mm length.

Start/Stop with pedal, and possibility to run synchronized with fusing machine.

On standard feeding belt, possibility to work with 5 persons, 2 each side and 1 in front, and also 6 persons on wider fusing machines.



DIFFERENT SIZES AND SHAPES AVAILABLE



Double Feeding Belt (DFB)

Double Feeding belt allow to increase the productivity. The system has 4 belts.

First 2 belts on preparation start at double speed of fusing machine and transfer the parts on the second belts. This ensure to make free very fast the loading station.

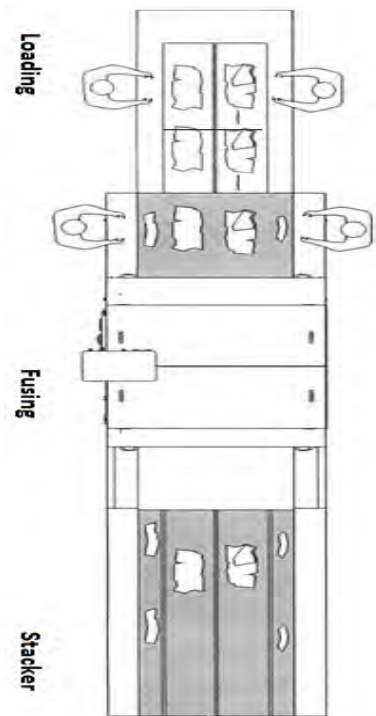
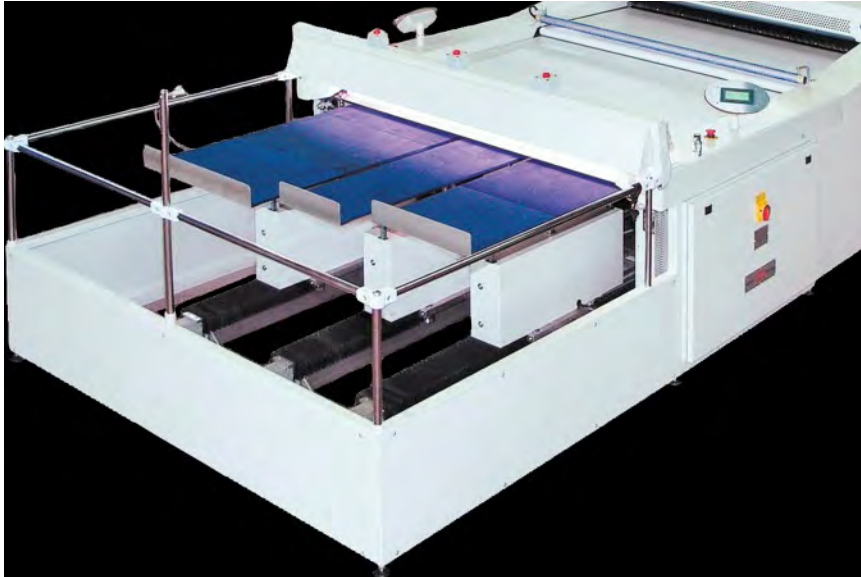


Stackers

SC-Y Stacker System

All Martin Group fusing machines can be equipped with stacker with 1-2-3-4-5 unloading lines.
From 450 mm wide to 1800 mm wide.

All our stackers can also fit all other brands of fusing machines worldwide.



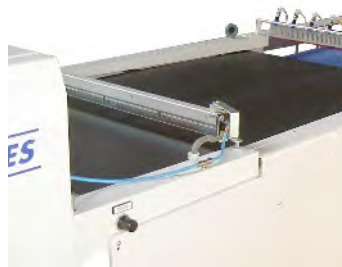
Stacker Optionals and others

TVCC



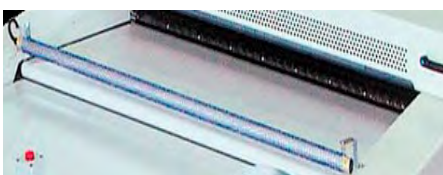
All our stackers can be equipped with a TVCC system, including colour camera and colour LCD TV.

Air Blowing Electrostatic Bar



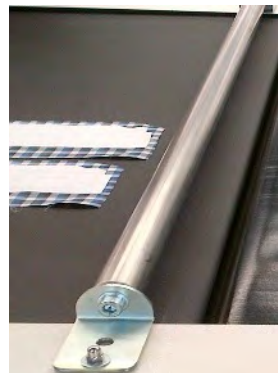
This special Bar flows an ionized air flow against the fused fabric, this option is useful in very thin and acrylic fabrics.

Standard Electrostatic Bar



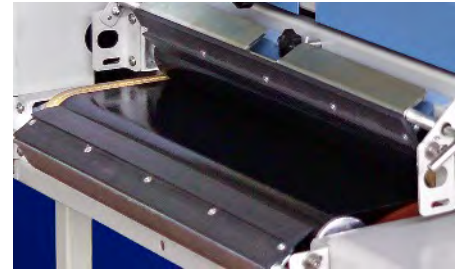
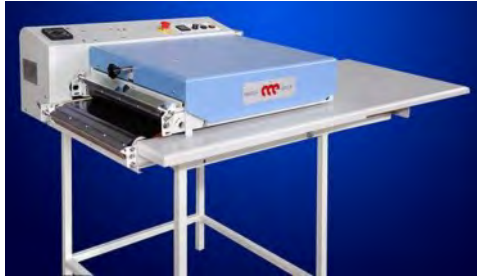
This electrostatic bar takes off the electrostatic charge from fabric by fabric proximity.

Magnetic Bar



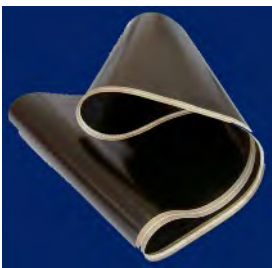
This very high power magnetic bar allows to stop any metallic object that may enter in the fusing machine.

CONT.45 - 60 (Table-Fusing machine)

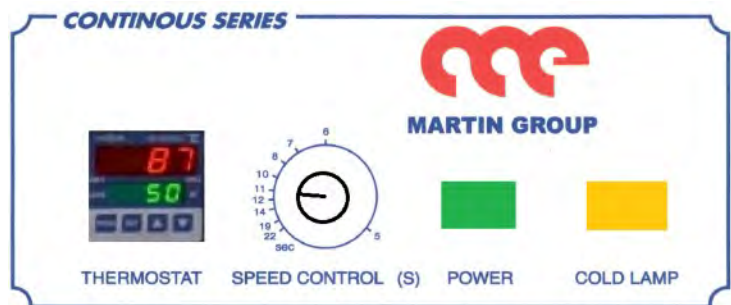


Mini fusing press machine, suitable for little laboratories and for low production. Easy maintenance and low electrical consumption. 220Volt Monophase. 3 Kw/h max consumption.

Double detaching PTFE Antistatic Blades



Special long lasting PTFE Antistatic SEAMLESS belts with Kevlar Tracking cord



Heating System

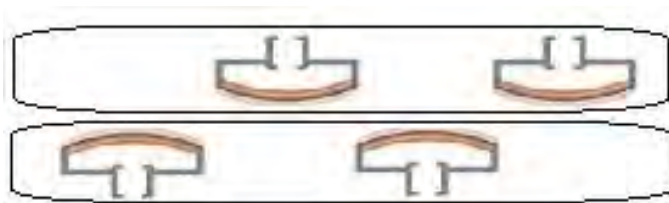
CONT 45 and 60 has a 50 cm heating area length, continuous top and bottom heating ensure a perfect temperature uniformity in all the heating length.

The heating Element

Anodized Aluminium molded extrusion

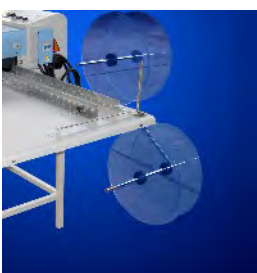
The heating System

Aluminium heating insert in an aluminium molded extrusion 5 mm tick.



Waistband Fusing Device

This system allow you to fuse trousers waistbands and also other roll to roll parts. This system include also collecting device.

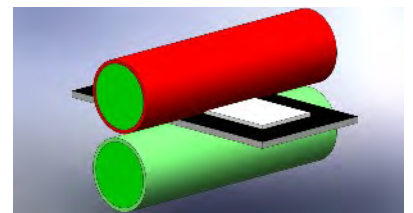


Standard control functions:

- Set/Actual temperature
- On/Off button
- Belt speed in mt/min and seconds
- Auto self Cooling button

Pressure System

HARD



C40 inner core body with vulcanized silicon covers.

1 Vulcanized Silicon Pressure roller
1 Hard Stel body roller.

Applicable on shirt industry and hard interlinings

Technical Datasheet

Continuous Fusing Machines								
Model	Fusing width mm (inch)	Belt speed m/min (ft/min)	Air Press Volume Ø=8 mm bar	Electrical Volt/Hz/kW	Dimensions: L x W x H mm (inch)	Weight Kg (lb)	Air Consumption l/min	
CONT45	450 (18)	1.0 – 10 (3.4 – 34)	NO	2X220/50-56/3	700X800X1100 (27X31X43)	140 (308)	NO	
CONT60	600 (24)	1.0 – 10 (3.4 – 34)	NO	3x380+N /50-56/4	800X800X1100 (31X31X43)	190 (418)	NO	
OT70	700 (28)	1.0 - 10 (3.4 - 34)	6,5	3x380+N/50-60/15	3840x1300x1450 (150x50x57)	705 (1554)	50	
OT100	1000 (40)	1.0 - 10 (3.4 - 34)	6,5	3x380+N/50-60/18	3840x1600x1450 (150x63x57)	995 (2193)	50	
OT124	1240 (49)	1.0 - 10 (3.4 - 34)	6,5	3x380+N/50-60/21	4340x1840x1450 (170x72x57)	1190 (2623)	50	
OT140	1400 (56)	1.0 - 10 (3.4 - 34)	6,5	3x380+N/50-60/23	4340x2000x1450 (170x78x57)	1420 (3130)	50	
OT160	1600 (64)	1.0 - 10 (3.4 - 34)	6,5	3x380+N/50-60/27	4340x2200x1450 (170x86x57)	1710 (3769)	50	
OT180	1800 (71)	1.0 - 10 (3.4 - 34)	6,5	3x380+N/50-60/32	4340x2400x1450 (170x94x57)	1930 (4254)	50	
X600SH	600 (24)	1.0 - 10 (3.4 - 34)	6,5	3x380+N/50-60/9	2800x1150x1300 (110x45x51)	315 (694)	50	
X600KE-L	600 (24)	1.0 - 10 (3.4 - 34)	6,5	3x380+N/50-60/9	3220x1120x1300 (126x44x51)	315 (694)	50	
X1000KE-L	1000 (40)	1.0 - 10 (3.4 - 34)	6,5	3x380+N/50-60/12	3220x1520x1300 (126x60x51)	600 (1322)	50	
X1400KE-L	1400 (56)	1.0 - 10 (3.4 - 34)	6,5	3x380+N/50-60/18	3220x1920x1300 (126x75x51)	750 (1653)	50	
X1600KE-L	1600 (64)	1.0 - 10 (3.4 - 34)	6,5	3x380+N/50-60/22	3220x2120x1300 (126x83x51)	950 (2094)	50	
Feeding Belts								
FB600	600 (24)	1.0 - 10 (3.4 - 34)	-	3x380+N/50-60/1	1600x1200x960 (63x47x38)	200 (440)	-	
FB1000	1000 (40)	1.0 - 10 (3.4 - 34)	-	3x380+N/50-60/1	1600x1600x960 (63x63x38)	270 (595)	-	
FB1240	1240 (49)	1.0 - 10 (3.4 - 34)	-	3x380+N/50-60/1	1600x1830x960 (63x72x38)	350 (771)	-	
FB1400	1400 (56)	1.0 - 10 (3.4 - 34)	-	3x380+N/50-60/1	1600x2000x960 (63x78x38)	390 (859)	-	
FB1600	1600 (64)	1.0 - 10 (3.4 - 34)	-	3x380+N/50-60/1	1600x2200x960 (63x86x38)	450 (992)	-	
FB1800	1800 (71)	1.0 - 10 (3.4 - 34)	-	3x380+N/50-60/1	1600x2400x960 (63x94x38)	500 (1102)	-	
Stackers								
Model	Working width mm (inch)	Belt speed m/min (ft/min)	Air Press Volume Ø=8 mm bar	Electrical Volt/Hz/kW	Dimensions: L x W x H mm (inch)	Weight Kg (lb)	Air Cons l/min	Lanes
SCY450	450 (18)	20 (68)	-	3x380+N/50-60/3	2950X1000X850 (116x40x33)	200 (440)	-	1
SCY600	600 (24)	20 (68)	-	3x380+N/50-60/3	2950X1150X850 (116x45x33)	240 (529)	-	1-2
SCY700	700 (28)	20 (68)	-	3x380+N/50-60/3	2950X1250X850 (116x49x33)	270 (595)	-	1-2
SCY1000	1000 (40)	20 (68)	-	3x380+N/50-60/3	2950X1550X850 (116x61x33)	300 (661)	-	2-3-4
SCY1240	1240 (49)	20 (68)	-	3x380+N/50-60/3	2950X1790X850 (116x70x33)	380 (837)	-	2-3-4
SCY1400	1400 (56)	20 (68)	-	3x380+N/50-60/3	2950X1950X850 (116x76x33)	450 (992)	-	2-3-4
SCY1600	1600 (64)	20 (68)	-	3x380+N/50-60/3	2950X2150X850 (116x85x33)	480 (1058)	-	2-3-4
SCY1800	1800 (71)	20 (68)	-	3x380+N/50-60/3	2950X2350X850 (116x93x33)	510 (1124)	-	3-4-5

M.E.P.P. 130/150/160/170/180

Multi Purpose Fusing/Transfer machine

This is the first fusing machine produced from Martin Group in 1960.
Since 1960 Martin Group produced over 3000 M.E.P.P.
M.E.P.P. PATENTED PRESSURE SYSTEM unic in the market
Gives you the possibility to cover an huge range of various productions.



Double working panel available in various dimensions, POLMONE patented pressure system.

Available in 2 Versions:

M.E.P.P. , Suitable for fusing application on jacket and sportswear, leather on bags and pockets and not formal shirts

M.E.P.P. XTP , Suitable heat transfer applications, sublimation, strass application and high pressure and high temperature jobs.

The Control Unit

Respect of fusing parameters is the most important part of the process,
For this reason all M.E.P.P. Machines are equipped with a TOUCH SCREEN control panel.



Touch Screen Control functions:

- Set/Actual temperature
- On/Off button
- Pressure indicator
- Pressure regulator
- Fusing time in seconds
- Heating element diagnostic, compressed air supply
- Error reports and suggested solution

Heating System

M.E.P.P. Series has an aluminium heating plate 70 mm thick with 12 cylinder heating elements inside.

The heating Element

Nichel/Chrome filament insert in ceramic tubes

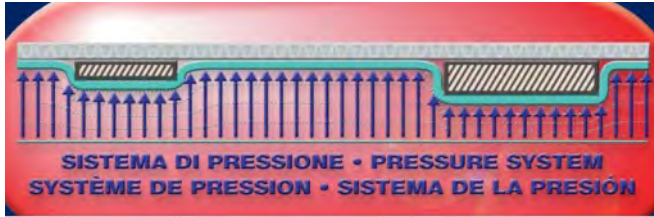


The Pressure System

Martin Group has a patented pressure system in M.E.P.P. Series.

Is made by a special membrane that inflates with air and can cover different thickness during pressing.

This special membrane has 2 layers, one for mechanical force and one for temperature resistance.



Technical Data

Plate Fusing machines M.E.P.P. SERIES

Model	Useful press area Mm (inch)	Working Plate	Air Pressure Volume Ø=8 mm	Electrical Volt/ Hz/ Kw	Dimensions: LxWxH Mm (inch)	Weight Kg (lb)	Air Consumption l/ min
MEPP 130 2 WORKPLATES	1300X550 (51X21)	2	6 Bar	3X400/50-60/8 Kw/h 5	1650x1390x1500 (65x54x59)	600 (1322)	50
MEPP 150 2 WORKPLATES	1500X750 (59X30)	2	6 Bar	3X400/50-60/9 Kw/h 6	1850x1790x1500 (73x70x59)	800 (1763)	50
MEPP 160 2 WORKPLATES	1600X750 (63X30)	2	6 Bar	3X400/50-60/9 Kw/h 6	1950x1790x1500 (77x70x59)	900 (1984)	50
MEPP 170 2 WORKPLATES	1700X750 (67X30)	2	6 Bar	3X400/50-60/11 Kw/h 8	2050x1790x1500 (81x70x59)	1000 (2204)	50
MEPP 170 XL 2 WORKPLATES	1700X900 (67X35)	2	6 Bar	3X400/50-60/12 Kw/h 9	2050x2090x1500 (81x82x59)	1200 (2645)	50
MEPP 180 2 WORKPLATES	1800X1000 (71X39)	2	6 Bar	3X400/50-60/14 Kw/h 11	2150x2090x1500 (84x82x59)	1400 (3086)	50

Plate Fusing machines M.E.P.P. XIP SERIES

Model	Useful press area Mm (inch)	Working Plate	Air Pressure Volume Ø=8 mm	Electrical Volt/ Hz/ Kw	Dimensions: LxWxH Mm (inch)	Weight Kg (lb)	Air Consumption l/ min
MEPP 130 XIP 2 WORKPLATES	1300X550 (51X21)	2	6 Bar	3X400/50-60/8 Kw/h 5	1650x1390x1500 (65x54x59)	600 (1322)	50
MEPP 150 XIP 2 WORKPLATES	1500X750 (59X30)	2	6 Bar	3X400/50-60/9 Kw/h 6	1850x1790x1500 (73x70x59)	800 (1763)	50
MEPP 160 XIP 2 WORKPLATES	1600X750 (63X30)	2	6 Bar	3X400/50-60/9 Kw/h 6	1950x1790x1500 (77x70x59)	900 (1984)	50
MEPP 170 XIP 2 WORKPLATES	1700X750 (67X30)	2	6 Bar	3X400/50-60/11 Kw/h 8	2050x1790x1500 (81x70x59)	1000 (2204)	50
MEPP 170 XL XIP 2 WORKPLATES	1700X900 (67X35)	2	6 Bar	3X400/50-60/12 Kw/h 9	2050x2090x1500 (81x82x59)	1200 (2645)	50
MEPP 180 XIP 2 WORKPLATES	1800X1000 (71X39)	2	6 Bar	3X400/50-60/14 Kw/h 11	2150x2090x1500 (84x82x59)	1400 (3086)	50

E.M.S. 120

Plate transfer / fusing machine



This little magnetic tenser / fusing machine allow to fuse jacket Parts and sportswears, it allow also to make transfer and sublimation. This machine doesn't need air comprimed.



The Control Unit

Respect of fusing parameters is the most important part of the process, EMS 120 fusing machine control panel includes:



- Set/Actual temperature
- On/Off button
- Pressure indicator
- Pressure regulator
- Fusing time in seconds
- Double safety starting button

Heating System

EMS 120 Series has an aluminium heating plate 20 mm tick with 3 snake heating element inside.

The heating Element

Nichel/Chrome

The Pressure System

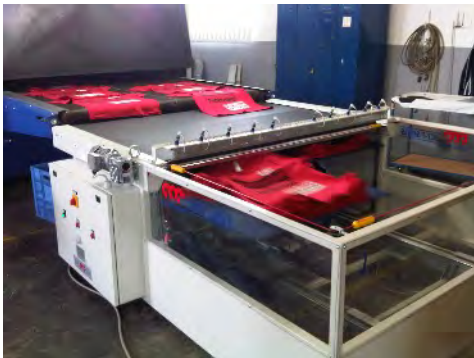
Ems 120 has a magnetic pressure system. The pressure can reach 1 Kg. Sq/cm

E.M.S. 120 Technical Data

Model	Useful press area Mm (inch)	Working Plate	Air Pressure Volume Ø=8 mm	Electrical Volt/Hz/Kw	Dimensions: LxWxH Mm (inch)	Weight Kg (lb)	Air Consumption l/min
EMS 120	1200X550 (47X21)	1	0	2X 220/50-60/3 Kw/h 2	1200X900X550 (47x35x21)	200 (440)	0

SCY / T 800 / 1000 / 1400 / 1800 Dryer Stackers

This fully electronic stacker allow to save 1, 2 or 3 operators at the end of the drying process in Screen printing.



Features:

- Effective belt width 800 / 1000 / 1400 / 1800
- Depending on width we can supply in 1-2-3 stacking lines
- Belt speed 20 mt/min
- Stacking length 1200 mm. max
- Stacked parcel height 350 mm
- PLC for running and machine functions
- PVC conveyor belt
- Optical Sensors
- Perimetral safety system protection
- Automatic lifting of completed parcel when stacked
- Structure height on demand, adjustable to existing dryers
- Total machine length 2400 mm aprox
- Machine width, aprox like dryers width
- Weight from 400 to 800 Kg.
- Alimentation 380 Volt. + Neutral
- No air comprimed required
- Electrical absorbtion from 1 to 4 Kw.



MARTIN GROUP SRL

Via Orme 300-302-304 Fraz. Martignana, 50025 Montespertoli (FI) - Italy -

Tel. +39 0571 676018/9 Fax. +39 0571 676146

Email: martin@martingroup.it <http://www.martingroup.it>