

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 togheter with high productivity. Designed with modular solutions to be equipped with stackers feeding stations and return belt device.



The Control Unit :

Touch Screen Control (TCX)

MO	M1 M2	2 M3 M4 M5 M6 M7 M8 M Set M
ON	OFF	ENTER SECTION 1 1 6 C° 1 2 1 C°
AU	RV	160 C° 160 C°
DS	PR	1 2 sec. 0.0 BAR 4 . 4 m/min. 0.0 cm

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

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

Touch Screen Control (TCX) 4.0



Our TCX 4.0 Touch screen control offers you the possibility to have all standard functions and programmable momories, all System can be connected to LAN.

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
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Heating System

Open Top series has 1500 mm lenght 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)



STANDARD (ST)



HARD (HA)









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.

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

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

X - Series 600/1000/1400/1600/1800 K-L

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

Advantages:

Compact design, **longest and more confortable loading belt**, long heating area, fast warm-up, high reliability and accurate pressure and temperature settings



The Control Unit :

Touch Screen Control (TCX)



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

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
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- Error reports and suggested solutions
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Touch Screen Control (TCX) 4.0



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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 1100 mm lenght 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)



STANDARD (ST)



HARD (HA)



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.

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

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



Collars and Cuffs Stacker



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

This simple stacker aloow 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.

OLX 600N- 1000N

Technical characteristics

Universal fusing machine, suitable for jackets, shirts and leather garments.

Pneumatic pressure from 0 to 60 Newton/sqcm, self belt adjustement, seamless antistatic belts.

Low electrical absorbtion from 4,4 to 5,5 Kw/h at 230-380V+N, upper and lower heating elements, heating surface lenght 800 mm, with 7 heating elements.

Antistatic graphite scraper blades, 4 internal and external cleaning systems, high temperature bearings and Viton pneumatic material, 7" Touch Screen control panel.





Optional: FB - Feeding Belt





Optional: E - Exit belt





Technical characteristics

Model	OLX600N	OLX1000N		
Voltage	3X230V – 3X380V+N	3X230V – 3X380V+N		
Speed	4-27 sec. / 1,6 a 11 mt.min	4-27 sec. / 1,6 a 11 mt.min		
Pressure	0-60 Newton/cmq	0-60 Newton/cmq		
Temperature	0-200 °C	0-200 °C		
Useful belt	620 mm	1020 mm		
Dimensions	2400X1100X1300 mm	2400X1500X1300 mm		
Weight	Kg. 330	Kg. 470		
Air consumption	2,5 Lt./min	2,5 Lt./min		
Air Pressure	7 Bar	7 Bar		
Electric consumption	Max 7Kw - Average 4,5 Kw/h	Max 9 Kw - Average 5,5 Kw/h		

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

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 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 + Fusing system SP1600 AD-BR/2 with 2 unwinding devices

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





Options and Accessories for all models

Return belt system

Return belt allow to work with one signle 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 Fan Cooling System (AFC)



Active cooling system is a powerful active cooling exit belt made in open mesh material that allow air circulation, inside the belt are placed cooling fans

Loading extension and Feeding belts

Feeding belt (FB)

Standard feeding belt is 1400 mm lenght. Upon customer request we can produce This belt also 4200 mm lenght. Start/Stop with pedal, and possibility to run syncronized 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 for fusing machines and dryers

SC-Y Stacker System and SCY-T stacker

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 and even dryers with SCY-T version





Stacker Optionals and others

тусс



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

Standard Electrostatic Bar



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

Air Blowing Electrostatic Bar



This special Bar flows an ionized air flow against the fused fabric, this otion is usefull in very thin and acrilic fabrics.

Magnetic Bar



This very high power magnetic bar, allow to stop any metalic object that may enter in the fusing machine.

Technical Datasheet

Continuou							-	
Model	Fusing width mm	Belt speed m/min (ft/min)	Air Press Volume Ø=8 mm	Electrical Volt/Hz/kW	Dimensions: L x W x H mm	Weight Kg (Ib)	Consu	ir mption nin
	(inch)	(101111)	bar		(inch)		""	
CONT45	450	1.0 – 10	NO	2X220/50-56/3	700X800X1100	140	N	0
	(18)	(3.4 – 34)			(27X31X43)	(308)		
OT70	700	1.0 - 10	6,5	3x380+N/50-60/15	3840x1300x1450	705	5	0
	(28)	(3.4 - 34)			(150x50x57)	(1554)		
OT100	1000	1.0 - 10	6,5	3x380+N/50-60/18	3840x1600x1450	995	5	0
OT124	(40)	(3.4 - 34)	6,5	3x380+N/50-60/21	(150x63x57) 4340x1840x1450	(2193) 1190	5	0
0	(49)	(3.4 - 34)	0,0		(170x72x57)	(2623)		•
OT140	1400	1.0 - 10	6,5	3x380+N/50-60/23	4340x2000x1450	1420	5	0
OT160	(56)	(3.4 - 34)	6,5	3x380+N/50-60/27	(170x78x57) 4340x2200x1450	(3130) 1710	5	0
01100	(64)	(3.4 - 34)	0,5	3X300+11/30-00/27	(170x86x57)	(3769)		U
OT180	1800	1.0 - 10	6,5	3x380+N/50-60/32	4340x2400x1450	1930	5	0
Vegeo	(71)	(3.4 - 34)	0.5	0.000.01/50.00/0	(170x94x57)	(4254)		0
X600SH	600 (24)	1.0 - 10 (3.4 - 34)	6,5	3x380+N/50-60/9	2800x1150x1300 (110x45x51)	315 (694)	5	0
X600KE-L	600	1.0 - 10	6,5	3x380+N/50-60/9	3220x1120x1300	315	5	0
	(24)	(3.4 - 34)			(126x44x51)	(694)		-
X1000KE-L	1000 (40)	1.0 - 10 (3.4 - 34)	6,5	3x380+N/50-60/12	3220x1520x1300 (126x60x51)	600 (1322)	5	0
X1400KE-L	1400	1.0 - 10	6,5	3x380+N/50-60/18	3220x1920x1300	750	5	0
	(56)	(3.4 - 34)			(126x75x51)	(1653)	_	-
X1600KE-L	1600	1.0 - 10	6,5	3x380+N/50-60/22	3220x2120x1300	950	5	0
X1800KEL	(64)	(3.4 - 34)	6,5	3x380+N/50-60/26	(126x83x51) 3220x2420x1300	(2094) 1100	5	0
ATOUNEL	(71)	(3.4 - 34)	0,5	3X300+N/30-00/20	(126x95x51)	(2425)		0
Feeding Be	elts			,		<u> </u>	•	
FB600	600	1.0 - 10	-	3x380+N/50-60/1	1600x1200x960	200		-
ED4000	(24)	(3.4 - 34)		22200101/00 00/4	(63x47x38)	(440)		
FB1000	1000 (40)	(3.4 - 34)	-	3x380+N/50-60/1	1600x1600x960 (63x63x38)	270 (595)		-
FB1240	1240	1.0 - 10	-	3x380+N/50-60/1	1600x1830x960	350		-
	(49)	(3.4 - 34)			(63x72x38)	(771)		
FB1400	1400 (56)	1.0 - 10 (3.4 - 34)	-	3x380+N/50-60/1	1600x2000x960 (63x78x38)	390 (859)	· ·	-
FB1600	1600	1.0 - 10	-	3x380+N/50-60/1	1600x2200x960	450		-
	(64)	(3.4 - 34)			(63x86x38)	(992)		
FB1800	1800	1.0 - 10	-	3x380+N/50-60/1	1600x2400x960	500	· ·	-
	(71)	(3.4 - 34)			(63x94x38)	(1102)		
Stackers		1		1	1		1	1
Model	Working width	Belt speed m/min	Air Press Volume	Electrical Volt/Hz/kW	Dimensions: L x W x H	Weight	Air Cons	Lanes
	mm	(ft/min)	Ø=8 mm	VOIUHZ/KVV	mm	Kg (lb)	l/min	
	(inch)		bar		(inch)			
SCY450	450	20	-	3x380+N/50-60/3	2950X1000X850	200	-	1
SCY600	(18) 600	(68)	-	3x380+N/50-60/3	(116x40x33) 2950X1150X850	(440) 240	-	1-2
001000	(24)	(68)	-	0.000 11/00-00/0	(116x45x33)	(529)	-	1-2
SCY700	700	20	-	3x380+N/50-60/3	2950X1250X850	270	-	1-2
0.0)/4000	(28)	(68)		0.000.01/50.00/0	(116x49x33)	(595)		0.0.4
SCY1000	1000 (40)	20 (68)	-	3x380+N/50-60/3	2950X1550X850 (116x61x33)	300 (661)	-	2-3-4
SCY1240	1240	20	-	3x380+N/50-60/3	2950X1790X850	380	-	2-3-4
	(49)	(68)			(116x70x33)	(837)		
SCY1400	1400	20	-	3x380+N/50-60/3	2950X1950X850	450	-	2-3-4
SCY1600	(56) 1600	(68)	-	3x380+N/50-60/3	(116x76x33) 2950X2150X850	(992) 480	-	2-3-4
0011000	(64)	(68)			(116x85x33)	(1058)		
SCY1800	1800	20	-	3x380+N/50-60/3	2950X2350X850	510	-	3-4-5
	(71)	(68)			(116x93x33)	(1124)		

M.E.P.P. XTP 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. XTP M.E.P.P. XTP 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.

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

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 7" 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 tick with 12 cilinder 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 inflate with air and can cover different tickness during pressing. This special membrane has 2 layers, one for mechanical force and one for temperature resistance.



Technical Datasheet

Model	Useful area mm (inch)	Working Plate	Air Press Volume Ø=8 mm bar	Electrical Volt/Hz/kW	Dimensions: L x W x H mm (inch)	Weight Kg (lb)	Air Cons I/min
MEPP130-XTP	1300X550 (51X21)	2	6 Bar	3x400/50-60/8 Kw/h 5	1650x1390x1500 (65x54x59)	600 (1322)	50
MEPP150- XTP	1500x750 (59x30)	2	6 Bar	3x400/50-60/9	1850x1790x1500 (73x70x59)	800 (1763)	50
MEPP160-XTP	1600x750 (63x30)	2	6 Bar	3x400/50-60/9	1950x1790x1500 (77x70x59)	900 (1984)	50
MEPP160XL-XTP	1600x900 (63x35)	2	6 Bar	3x400/50-60/10	1950x2090x1500 (77x82x59)	980 (2160)	50
MEPP170-XTP	1700x750 (67x30)	2	6 Bar	3x400/50-60/11	2050x1790x1500 (81x70x59)	1000 (2204)	50
MEPP170XL-XTP	1700x900 (67x35)	2	6 Bar	3x400/50-60/12	2050x2090x1500 (81x82x59)	1200 (2645)	50
MEPP150X100-XTP	1500x1000 (59x39)	2	6 Bar	3x400/50-60/13	1850x2090x1500 (73x82x59)	1300 (2866)	50
MEPP160X100-XTP	1600x1000 (63x39)	2	6 Bar	3x400/50-60/14	1950x2090x1500 (1950x2090x1500)	1380 (3042)	50
MEPP180X100-XTP	1800x1000 (71x39)	2	6 Bar	3x400/50-60/14	2150x2090x1500 (84x82x59)	1400 (3086)	50

75/2c/5 - Plate Top Fusing machine

This little plate fusing machine allow to fuse shirts collar and cuffs, Due to its very high power pressure system up to 5 Kg./Sq.cm 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 and POLMONE patented pressure system.

The Control Unit



- Set/Actual temperature
- On/Off button
 - Pressure indicator
 - Pressure regulator

 - Fusing time in seconds

Heating System

75/2c/5 Series has an aluminium heating plate 70 mm tick with 6 cilinder heating elements inside.

The heating Element

Nichel/Chrome filament insert in ceramic tubes



The Pressure System

Martin Group has a patented pressure system in 75/2c/5 Series.

Is made by a special membrane that inflate with air and can cover different tickness during pressing. This special membrane has 2 layers, one for mechanical force and one for temperature resistance.



75/2C/5 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
75/2C/5	750X550 (30X21)	2	6 Bar	3X 400/50-60/8 Kw/h 5	1500x1000x1500 (59x39x59)	600 (1322)	50

SH240-P - IDRAULIC Fusing machine

This little plate fusing machine allow to fuse shirts collar and cuffs, Due to its very high power **IDRAULIC** pressure system up to 6 Kg./Sq.cm Gives you the possibility to cover an huge range of various productions also if Huge pressure is required.





- Electronic control of whole instruments - High Pressure (Up to 6 Kg/cmq.) Which

guarantees a very high quality even for heavier pructions

- Two working plates to avoid dead times

Application fields

SHIRT FACTORY: SINGLE, DOUBLE, TRIPLE LAYER FUSING WORKING CLOTHES GENERAL FUSING AND STRASS APPLICATION

SH240-P Technical Data							
Model	Useful press area Mm (inch)	Working Plate	Idraulic Pressure Force	Electrical Volt/Hz/Kw	Dimensions: LxWxH Mm (inch)	Weight Kg (lb)	Air Consumption I/min
SH240-P	600X400 (24X16)	2	60 Newton	3X 400/50-60/8 Kw/h 5	1200x920x1500 (47x36x59)	400 (881)	NO

E.M.S. 120 Plate transfer / fusing machine



This little magnetic tensfer / fusing machine allow to fuse jacket Parts and sportwears, 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 I/min
EMS 120	1200X550 (47X21)	1	0	2X 220/50-60/3 Kw/h 2	1200X900X550 (47x35x21)	200 (440)	0



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