

PM-609/160A-B/458

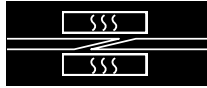
Heat press with air cooling





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0 Preface

Habasis thanks you for purchasing the

PM-609/160A-B/458 press.

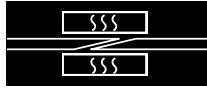
This press belongs to the air press range called PM-09/160A.

If you handle your PM-609/160A-B/458 press with care, it will guarantee joint reliability and quality for many years to come.

This document includes spare parts and product diagrams



Observing the instructions in this manual lets you work during: handling, installation, use and maintenance phases in safe conditions while guaranteeing good machine working order and economies of scale. HABASIT Italiana S.p.A. is not liable for damages due to negligence or failure to observe these instructions.

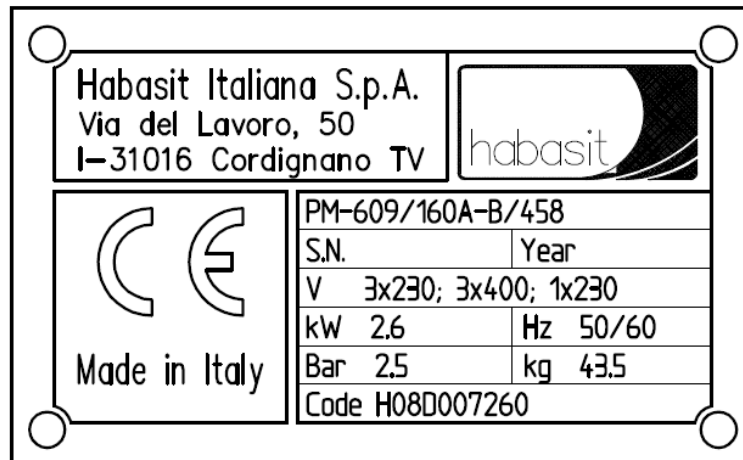


1 Machine identification data

Machine	Heat press
Type/Series	PM-609/160A-B/458
Serial number	See EC identification plate
Year of construction	See EC identification plate

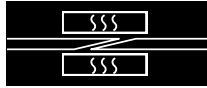
1.1 Identification plate and EC markings

The following identification plate was affixed to the press:



This plate SHOULD NOT BE REMOVED for any reason. If damaged, please request a copy.

If necessary, the plate data must be communicated for service or spare parts.



DICHIARAZIONE DI CONFORMITÀ

DECLARATION OF CONFORMITY

2006/95/CE



Noi We

HABASIT ITALIANA S.p.A.
Via del Lavoro, 50
I - 31016 Cordignano (TV) - ITALY

dichiariamo sotto la nostra esclusiva responsabilità *declare under our sole responsibility*
che l'apparecchiatura tipo: *that the device type:*

Pressa a caldo Hot press

Modello: *Series:*

PM-609/160A-B/458

Matricola: *Serial Number:*

è conforme alle seguenti direttive: *is in conformance with the following directives:*

2006/95/CE

Direttiva Bassa Tensione *Low Voltage Directive*

2004/108/CE

Direttiva Compatibilità Elettromagnetica *Electromagnetic Compatibility Directive*

ed è conforme alle disposizioni delle seguenti norme *and is in conformance with the rules of the*
armonizzate: *following harmonized standard:*

UNI EN ISO 12100/2010

CEI EN 60204-1/2006

Il Fascicolo Tecnico viene conservato presso: *The Technical File is stored at:*

HABASIT ITALIANA S.p.A.
Via del Lavoro, 50
I - 31016 Cordignano (TV) - ITALY

Cordignano,

Il Direttore Generale
General Manager

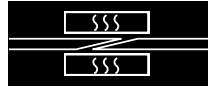
Ugo Passadore

Il Responsabile del Fascicolo Tecnico
Technical File Manager

Matteo Mapelli

.....

.....



DICHIARAZIONE DI INCORPORAZIONE

DECLARATION OF INCORPORATION

2006/42/CE – Allegato II - B



Noi We

HABASIT ITALIANA S.p.A.
Via del Lavoro, 50
I - 31016 Cordignano (TV) - ITALY

dichiariamo sotto la nostra esclusiva responsabilità che la quasi-macchina tipo: *declare under our sole responsibility that the partly completed machinery type:*

Pressa a caldo Hot press

Modello: *Series:*

PM-609/160A-B/458

Matricola: *Serial Number:*

è conforme ai requisiti essenziali della salute e sicurezza il cui elenco è riportato nella documentazione tecnica pertinente, secondo l'allegato VII – B della Direttiva 2006/42/CE, conservata presso: *is in conformance with the essential health and safety requirements, the list of such is reported in the relevant technical documentation, according with the annexed VII – B of 2006/42/EC directive, at:*

HABASIT ITALIANA S.p.A.
Via del Lavoro, 50
I - 31016 Cordignano (TV) - ITALY

ed è inoltre conforme alla Direttiva Bassa Tensione 2006/95/CE. *and is also in conformance with the 2006/95/CE Low Tension Directive.*

Ci impegnamo a trasmettere le informazioni pertinenti su richiesta adeguatamente motivata dalle autorità nazionali. *We strive to provide the relevant information on reasoned request by national authorities.*

E' comunque espressamente vietato procedere all'avviamento della quasi-macchina in oggetto prima che il sistema al quale è prevista la sua incorporazione sia dichiarato conforme alle vigenti direttive CE. *It is however expressly forbidden to proceed with the start up of the said partly completed machinery before the system which is intended for its incorporation is declared to be in conformity with the current EC directive.*

Cordignano,

Il Direttore Generale
General Manager

Ugo Passadore

Il Responsabile della documentazione tecnica
Technical documentation manager

Matteo Mapelli

.....

.....



2 Regulations and general warnings

2.1 Manual layout criteria

This manual observes the organizational rules and requirements of Directive 2006/42/, duly amended, being the Directive of the Council of the European Community, concerning the reconciliation of the laws of member states regarding machines, and also all the other Directives and Regulations referred to in the said Machine Directive, inspired by criteria which, in addition to illustrating the technical characteristics of the machine and its use, maintenance and troubleshooting methods, also clearly indicate the following:

- All the protection measures adopted on the machine, fully integrating design safety planning and construction safety
- All protection measures to be adopted to meet those risks that cannot be completely eliminated
- All indications for the training of personnel using the machine, while indicating where it is necessary to provide for individual safety protection devices.
- The manual is divided up into sections. Each section deals with a specific subject in which every aspect of safety is considered and clearly highlighted in the text.

2.2 Manual use criteria

HABASIT encourages the reader to fully read this manual when receiving the equipment it comes with and, in any case, before handling the equipment. This manual is designed to provide all the instructions, indications and warnings needed by the user to learn about the equipment, understand its main operating principles and be suitably informed for safe use.

In addition to the instructions in this manual, we would ask users to observe any specific current laws.

This manual must be considered as an essential part of the equipment. Its contents must be made known to the entrusted maintenance persons and users.

The purpose is to provide all the information required for good, correct use of the equipment.

The manuals must be kept throughout the equipment's life and must be updated in the event of modifications aimed at improving the equipment's performance.

The manuals must be available to qualified personnel.

Consultation of this manual is facilitated by the general index on the first page, which makes it possible to immediately find the subject of interest.

If the subject dealt with is particularly important it is highlighted with references to the type of technical personnel required to intervene.

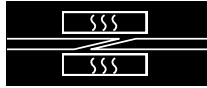
All updates HABASIT considers necessary to improve the quality of the equipment will be communicated by way of sending of further specific documentation or a new manual to replace the previous one.

Should the equipment be transferred to another customer, manuals must be included and HABASIT informed in order to provide future modifications or updates.

A copy of this manual, delivered with the equipment, is meant for the maintenance operators, who shall read and keep it near the equipment, and consult it before undertaking any action on the equipment.

The PM-609/160A-B/458 press has been specifically developed for hot joining of HABASIT drive and conveyor parts using the Flexproof process.

It was exclusively designed for the applications described hereto. Other or unsuitable applications are prohibited. Habasit shall not be liable for unintended application consequences. The PM-609/160A-B/458 press was professionally manufactured in accordance with EC safety instructions. All assembly, maintenance and repair work, as well as the operation of the equipment, is expected to be carried out by qualified personnel or staff under the supervision of responsible specialists and experts.



For space reasons, these instructions for use cannot cover all possible operating, maintenance and repair aspects. The indications provided concern normal machine use by qualified personnel. In the event of doubt or in need of further information, always contact the manufacturer.



3 Technical specifications

3.1 Electrical specifications

Power	2 x 1300W = 2600W
Supply voltage	230V ~
Frequency	50-60 Hz

3.2 Pneumatic characteristics

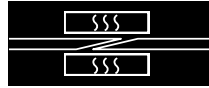
Fluid characteristics	Filtered, non-lubricated air
Maximum working pressure	2.5 bar (0.25MPa or 2.5Kg/cm ²) +/- 0.2 bar (0.3MPa or 3 Kg/cm ²) / 36.25 psi
Min. supply diameter	Rapid connector of 1/4"

3.3 Dimensions and environmental characteristics

Dimensions (LengthxWidthxHeight) (including handles)	1080 x 315 x 300 mm 42.5 x 12.4 x 11.8 in
Total Weight	43.5 kg / 95 lbs
Upper part weight	18 kg / 39.7 lbs
Lower part weight	22.5 kg / 49.6 lbs
Noise level	< 70 db
Working temperature	Between 15°C – 38°C / 59°F – 100.4°F
Humidity tolerance	Between 45 – 70%

3.4 Production specifications

Max length of belt/tape	600 mm / 23.2 in
Max width of belt/tape	10 mm / 0.4 in
Minimum length of belt/tape	940 mm / 37 in
Heating plate width	160 mm / 6.3 in
Max. working temperature	2.5 bar / 36.25 psi
Max. working temperature	199° C / 390° F
Temperature interval	+ 2° / - 4° C + 3.6° / - 7.2° F
Maximum heating plate temperature deviation from nominal value	+/- 2°C / 3.6° F
Mean heating time at 180° C	3 min (230V~) 4 min (400V~)
Cooling time from 180° C to 80° C	15 min



3.5 Dimensions

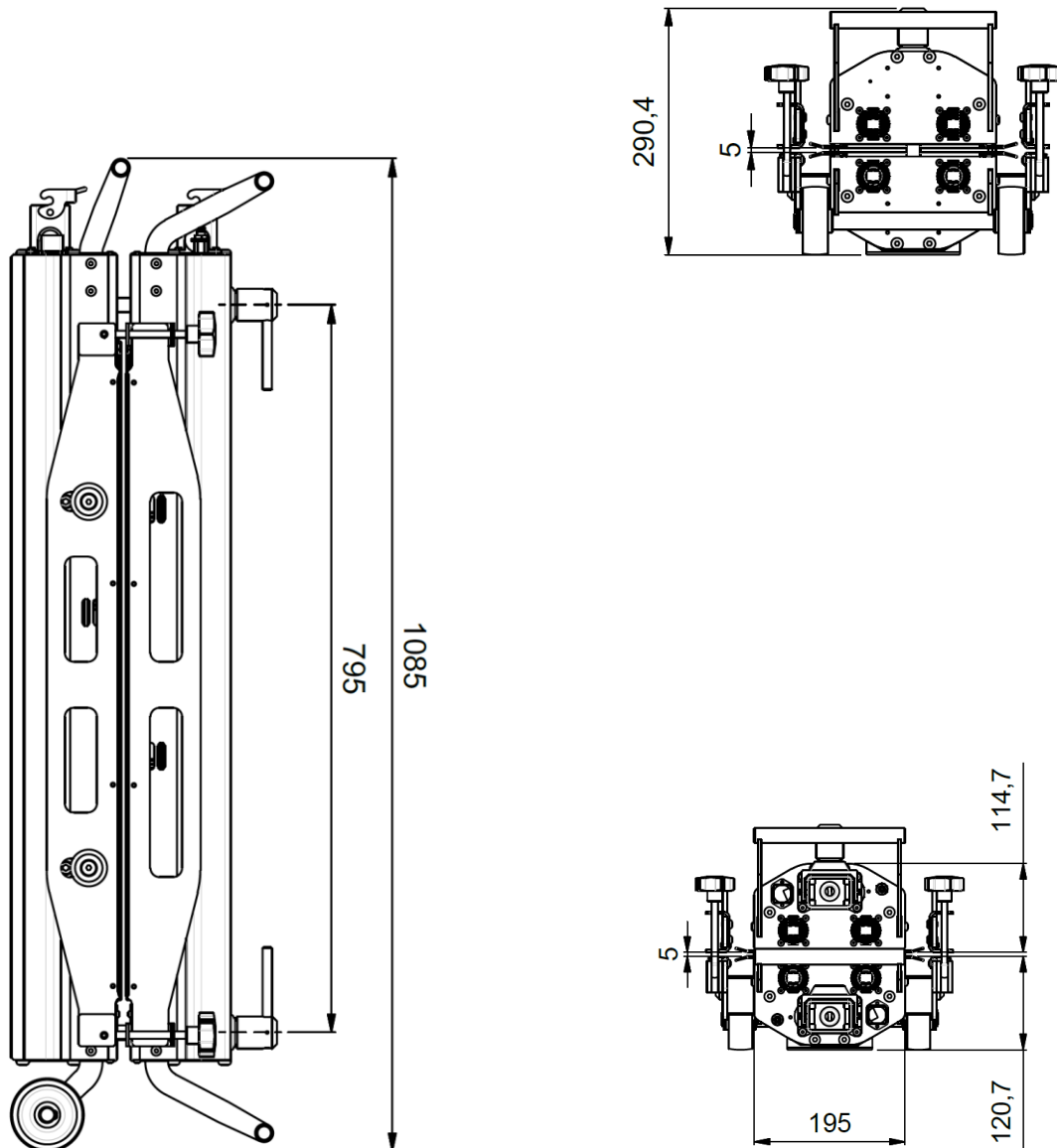
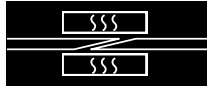


Fig. 1 –PM-609/160A-B/458 press general dimensions



4 Drawings and spare parts list

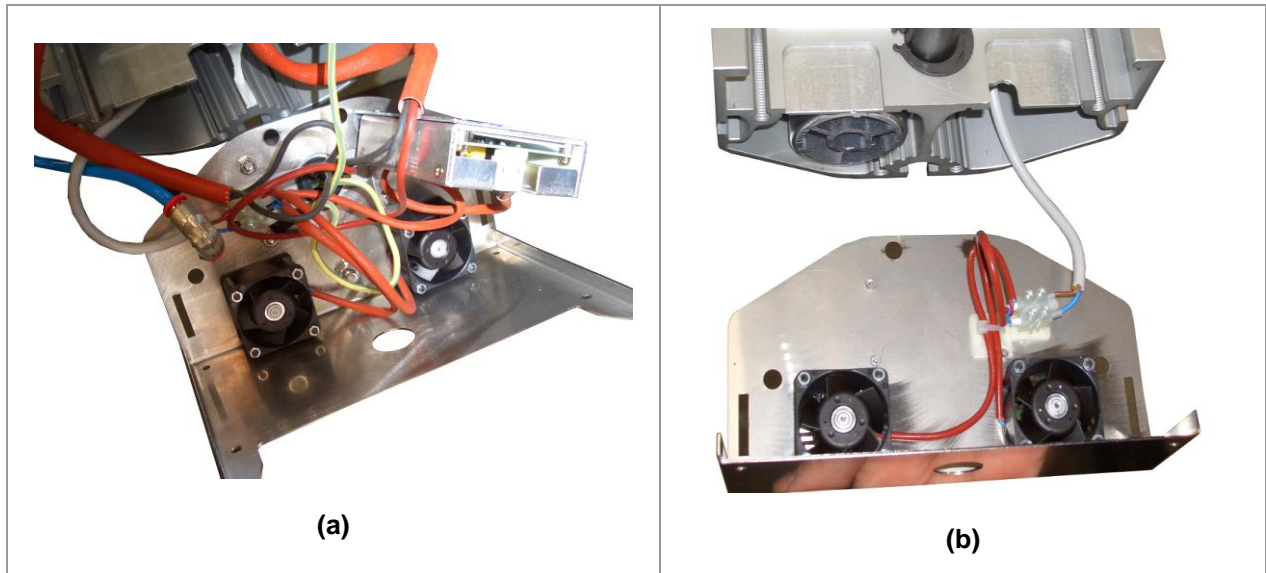
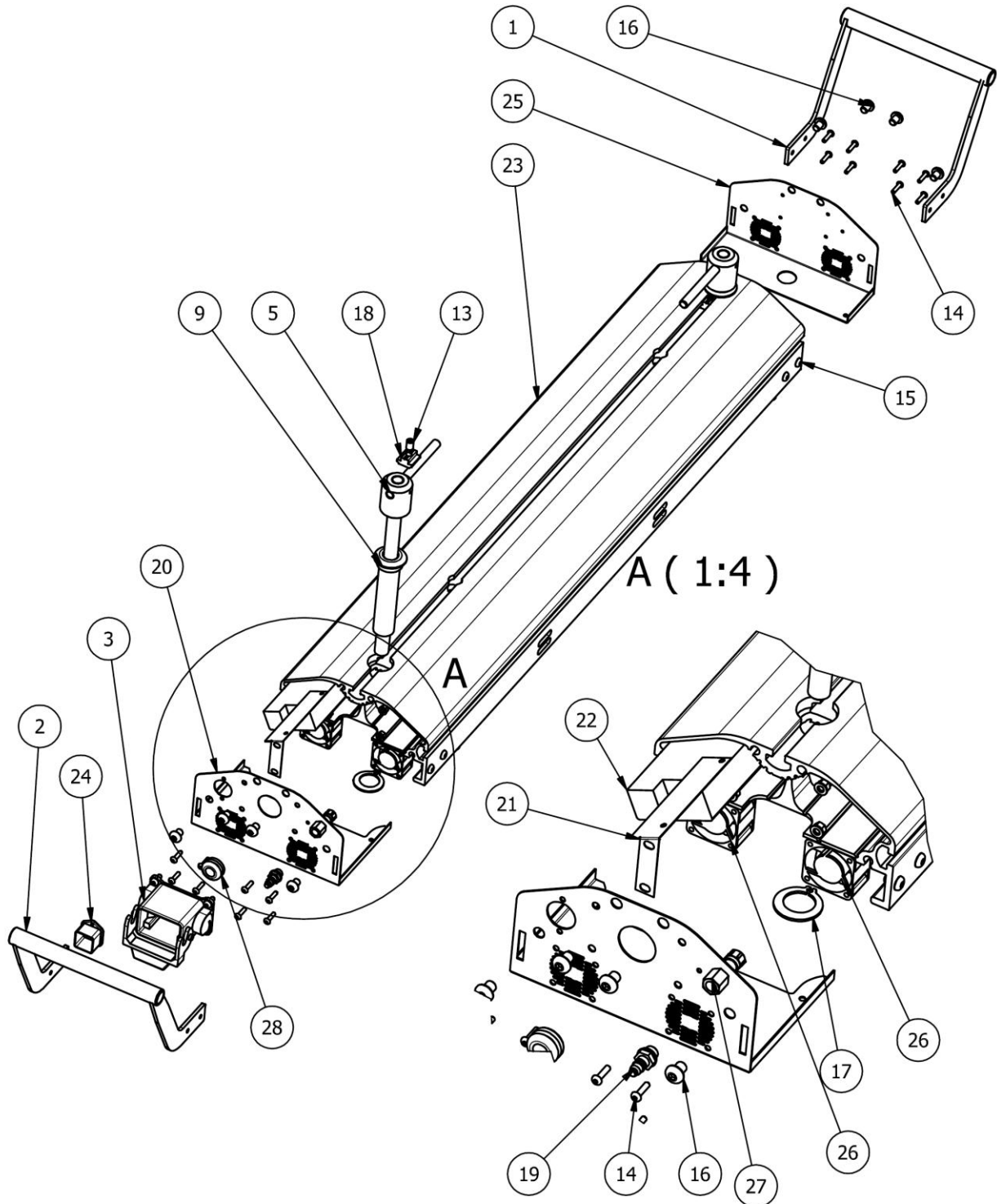


Fig. 2 – Internal PM-609/160A-B/458 press connection, electrical connector (a) and opposite side (b).

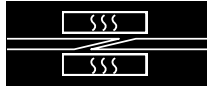


4.1 H08D007262 – Upper press beam unit

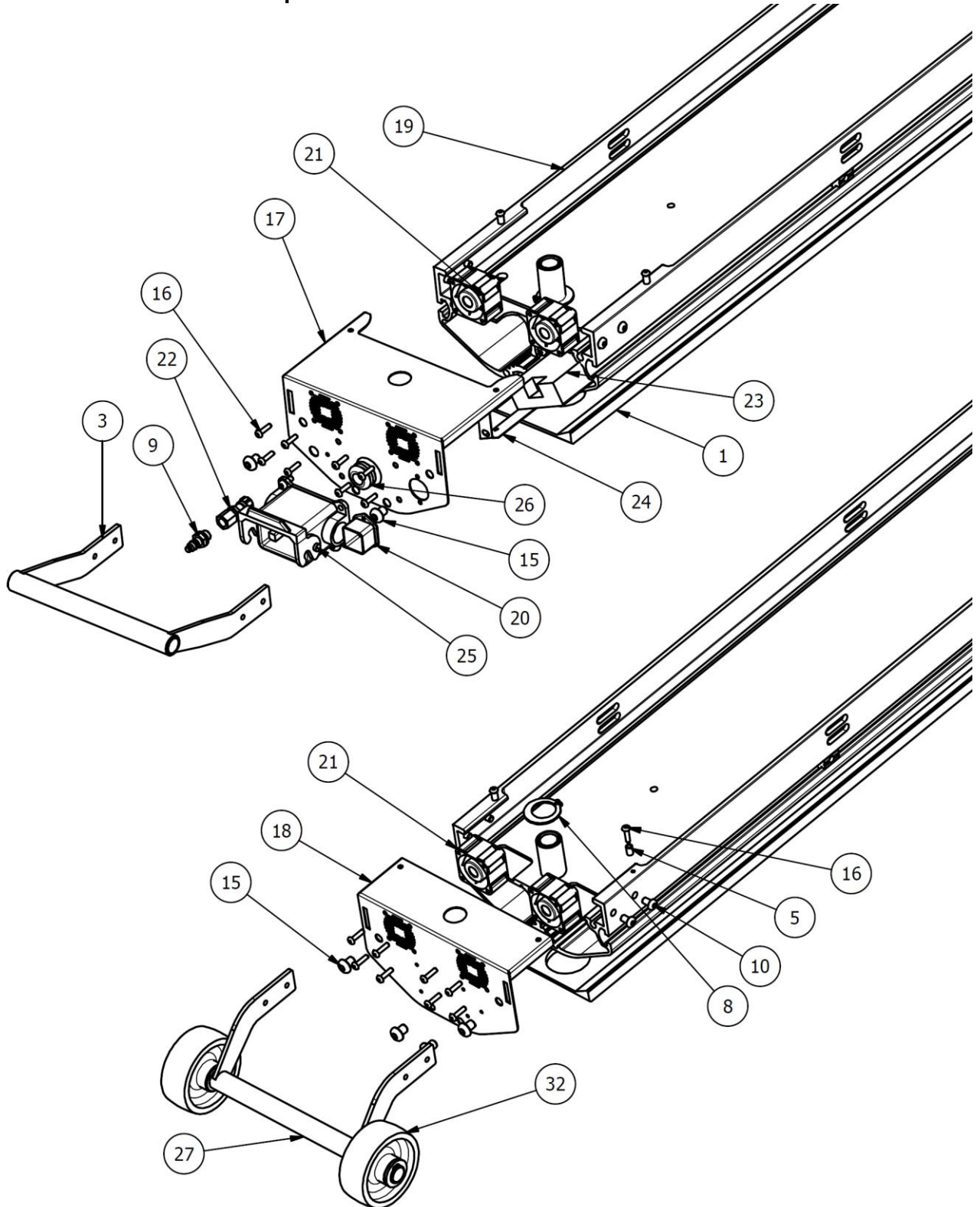




PM-609/160A-B/458 Press		H08D007262 – Upper press beam unit	
Position	Q.ty	Code	Description
1	2	H08D005755	UPPER BEAM SIMPLE HANDLE
2			
3	1	H08D007299	FIXED CASE WITH LEVER ILME - CHP 06 L
5	2	H08D002868	CLOSING SCREW
9	2	H08D005773	UPPER BUSHING V2
13	2	H08N011536	FLAT-TIPPED GRUB SCREW ISO 4026 M8x12
14	20	H08N012122	VTBEI UNI-ISO 7380-M4x16 GALVANIZED SCREW
15	8	H08N011451	VTBEI UNI-ISO 7380-M6x10 GALVANIZED SCREW
16	8	H08N012005	VTBEI UNI-ISO 7380-M8x10 STEEL SCREW
17	2	H08N010408	SELF-LOCKING STOP RING WA-G 24 GANDINI
18	2	H08N010958	DAT0810 MECHANICAL NUT
19	1	H08N020953	MALE COUPLING 11 mini 1/8" cod. 0102011
20	1	H08D005756	FAN CONNECTION SIDE HEAD
21	1	H08D007211	TRANSFORMER SUPPORT PLATE
22	1	H08N040432	AIMTEC AMEC 15-24 SMAZ TRANSFORMER
23	1	H08D007268	DRAWN PROFILE BEAM PM-609A
24	1	H080704506	RECESSED CASE CKA 03 I - ILME
25	1	H08D005771	FAN NEUTRAL SIDE HEAD
26	4	H08N040418	AXIAL FAN 24VDC - 412 JHH - 40X40X25 - EBMPAPST
27	1	H08N020951	FESTO 9425 QCK-1/8-PK-4-B
28	1	H08N040434	Legrand pitch code 098093

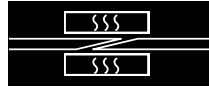


4.2 H08D007264 – Lower press beam unit

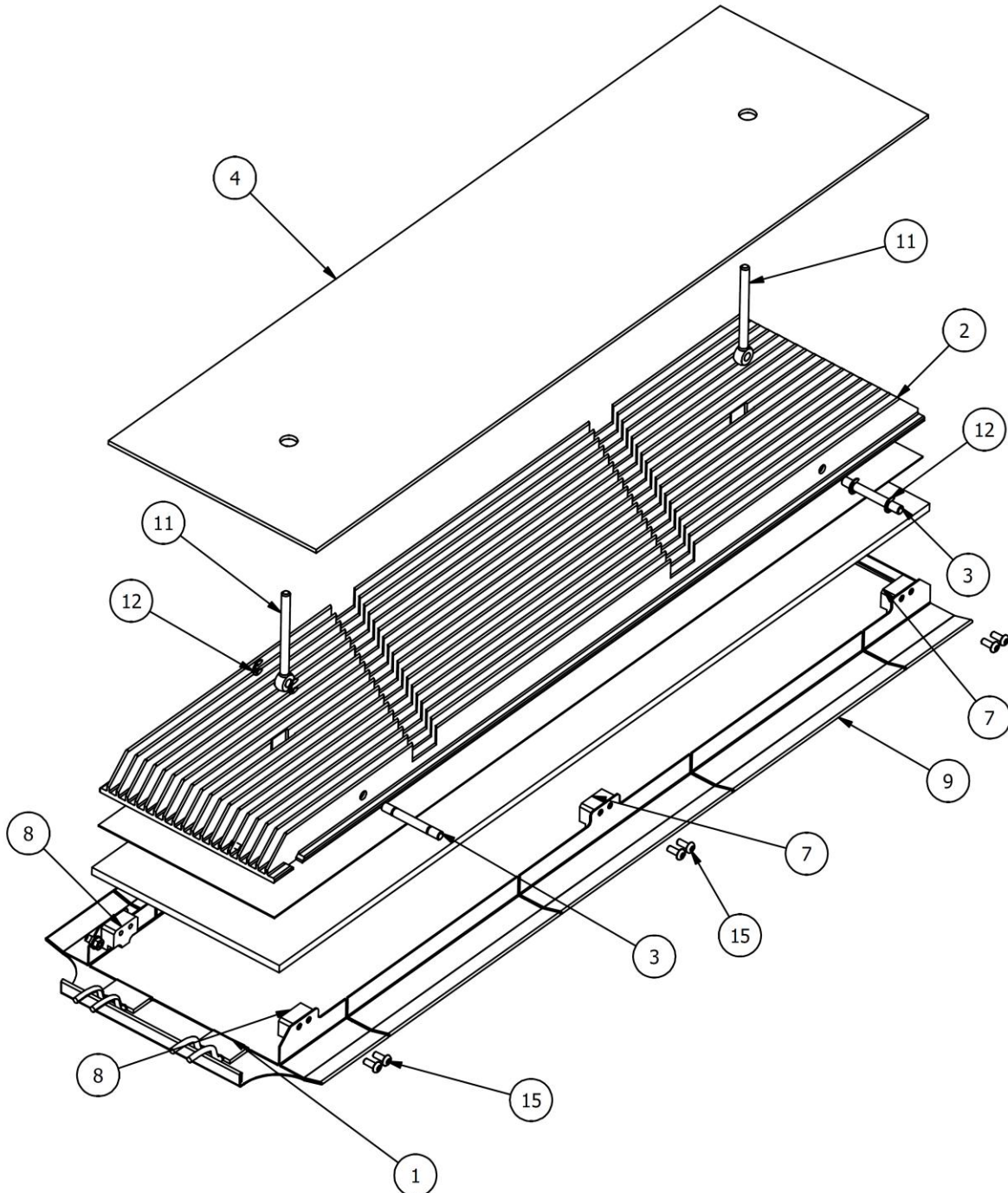




PM-609/160A-B/458 Press		H08D007264 – Lower press beam unit	
Position	Q.ty	Code	Description
1	1	H08D007275	PEDESTAL PM-609A
3	1	H08D005758	LOWER BEAM SIMPLE HANDLE
5	4	H08D005772	CALIBRATED ELECTRO-WELDED TUBE Ø6X1
8	2	H08N010408	SELF-LOCKING STOP RING WA-G 24 GANDINI
9	1	H08N020953	MALE COUPLING 11 mini 1/8" cod. 0102011
10	8	H08N011451	VTBEI UNI-ISO 7380-M6x10 GALVANIZED SCREW
15	8	H08N012005	VTBEI UNI-ISO 7380-M8x10 STEEL SCREW
16	20	H08N012122	VTBEI UNI-ISO 7380-M4x16 GALVANIZED SCREW
17	1	H08D005756	FAN CONNECTION SIDE HEAD
18	1	H08D005771	FAN NEUTRAL SIDE HEAD
19	1	H08D007268	DRAWN PROFILE BEAM PM-609A
20	1	H080704506	RECESSED CASE CKA 03 I - ILME
21	4	H08N040418	Axial fan 24vdc 19m3/h code414J code RS 250-836
22	1	H08N020951	QCK-1/8-PK-4-B THROUGH CONNECTOR cod.9425 FESTO
23	1	H08N040432	AIMTEC AMEC15-24SMAZ TRANSFORMER
24	1	H08D007211	TRANSFORMER SUPPORT PLATE
25	1	H08D007299	PERFORATED FIXED CASE WITH LEVER ILME - CHP 06 L
26	1	H08N040434	Legrand pitch code 098093
27	1	H08D005757	HANDLE COMPLETE WITH WHEELS
32	2	H08N012246	POLYAMIDE WHEEL 6 D-80 PASS THROUGH ART. 4021 LAG

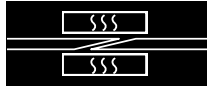


4.3 H08D007263 – Heating unit

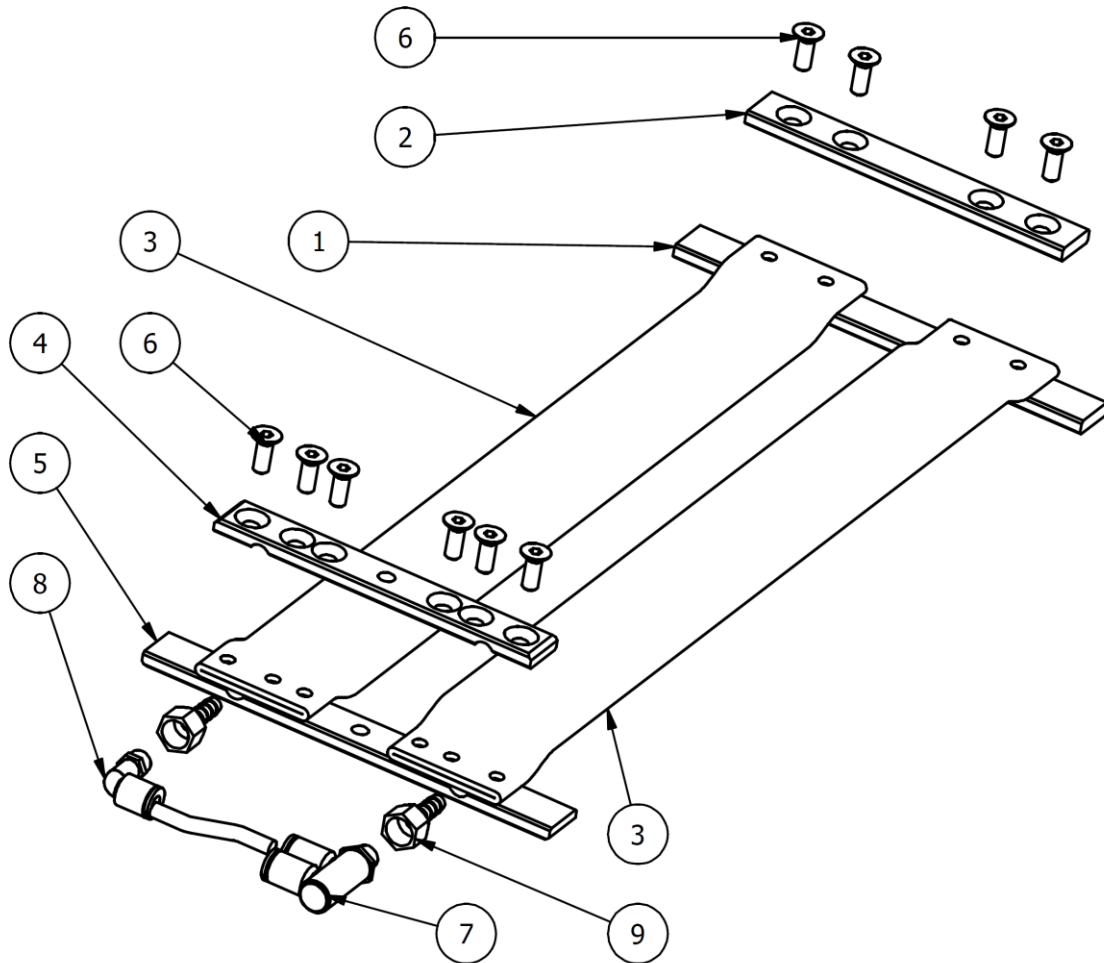




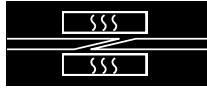
PM-609/160A-B/458 Press		H08D007263 - Heating unit	
Position	Q.ty	Code	Description
1	1	H08D007270	HEATER etched foil cod. 1KEITJ389001 PM-609/A 230V
2	1	H08D007269	CHANNELLED RADIATOR 680 - OMAR 2118
3	2	H08D005764	TIE FASTENING PIN
4	1	H08D007271	MULTILAYER BEACH SEPARATOR
7	4	H08D005762	INSULATING SPACER BLOCK
8	2	H08D005763	LOCKING INSULATING SPACER BLOCK
9	1	H08D007272	WIDE WELDING PLATE MOD. 1080 SILICON S.6
11	2	H08N011786	GN.12504 DIN444-M6-75 ELESA EYE SCREW
12	4	H08N012125	UNI 7434-d5 DIN 6799 elastic lock ring
15	12	H08N012126	VTBEI UNI-ISO 7380-M4x10 GALVANIZED SCREW



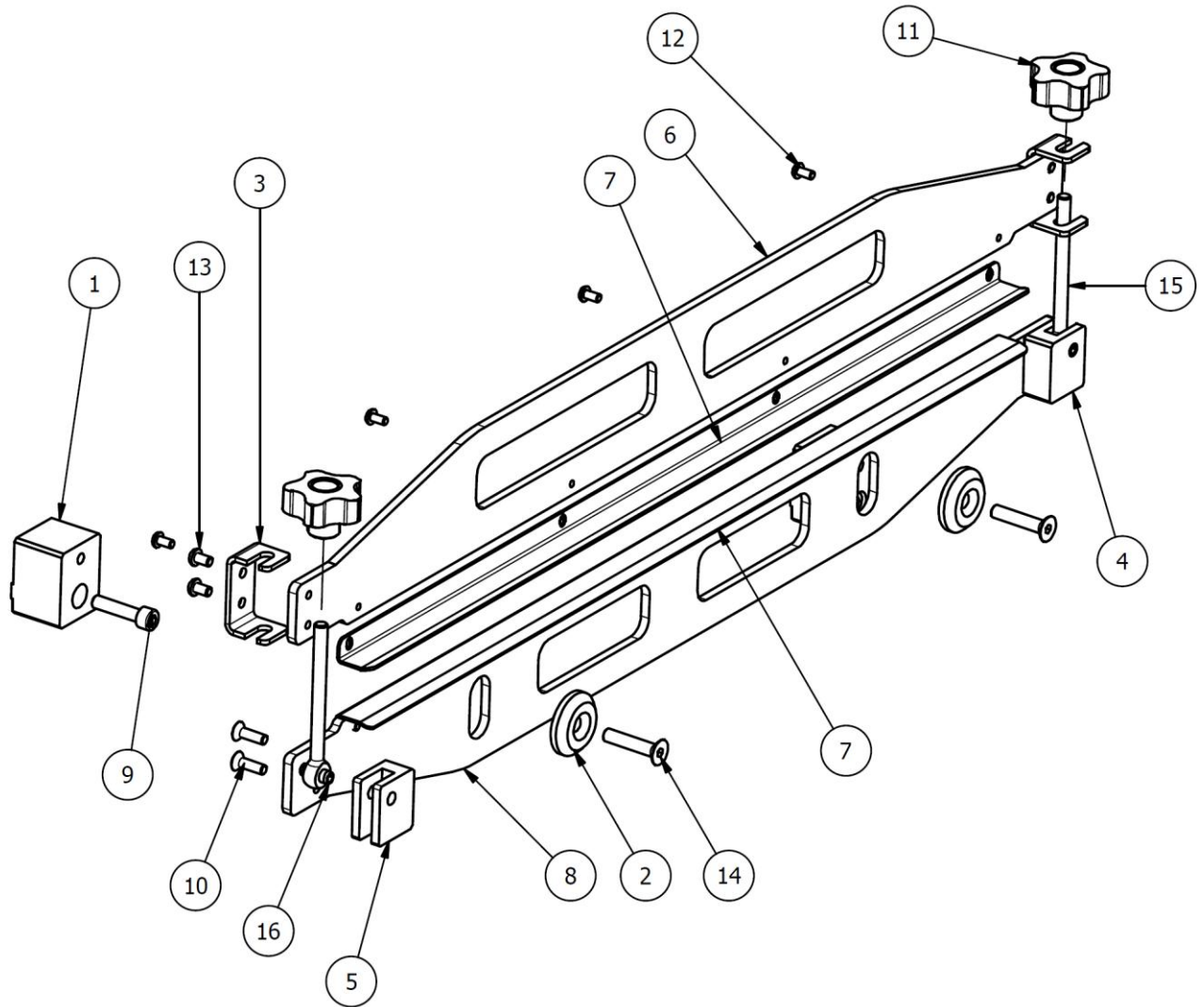
4.4 H08D007261 – Pressure pad unit



Position	Q.ty	Code	Description
PM-609/160A-B/458 Press		H08D007261 – Pressure pad unit	
1	1	H08D005767	CUSHION RESTRAINING THREADED PLATE
2	1	H08D005770	CUSHION RESTRAINING COUNTERSUNK PLATE
3	2	H08D007266	FLATTENING TUBE øi 32 Code1640860 IVG COLBACHINI
4	1	H08D005769	CUSHION RESTRAINING COUNTERSUNK PLATE – Connections
5	1	H08D005768	CUSHION RESTRAINING THREADED PLATE – Connections
6	10	H08N010003	OHH UNI 5933-M6x16 GALVANIZED SCREW
7	1	H08N020875	1/8" D. 6-KQ2VD06-01S-SMC DOUBLE ELBOW COUPLING
8	1	H08N020538	1/8" D. 6 - KQ2L-06-01S-SMC ELBOW COUPLING
9	2	H08N021242	HOSE-END ACCESSORY 7X1/4"

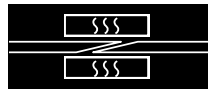


4.5 H08D007265 – Belt lock bar unit





PM-609/160A-B/458 Press		H08D007265 – Belt lock bar unit	
Position	Qty	Code	Description
1	2	H08D005795	PRESSER SUPPORT BLOCK
2	2	H08D005796	PRESSER LOCK WASHER
3	2	H08D007213	PRESSER CLOSING ROD
4	1	H08D007214	RH PRESS LOCK BLOCK L=20
5	1	H08D007215	LH PRESS LOCK BLOCK L=20
6	1	H08D007276	PM-609A UPPER PRESSER PANEL
7	2	H08D007277	PM-609A BELT PRESSURE PROFILE
8	1	H08D007278	PM-609A LOWER PRESSER PANEL
9	2	H08N010126	VTCEI UNI 5931-M8x35 GALVANIZED SCREW
10	4	H08N010266	VTSEI UNI 5933-M6X20 GALVANIZED SCREW
11	2	H08N011407	VCT.50 FP-M8 code 69956 LOBE HAND WHEEL
12	8	H08N011450	VTBEI UNI-ISO 7380-M5x10 GALVANIZED SCREW
13	4	H08N011451	VTBEI UNI-ISO 7380-M6x10 GALVANIZED SCREW
14	2	H08N012028	VTSEI UNI 5933-M8x40 GALVANIZED SCREW
15	2	H08N012248	DIN 444 B M8x100 A4 type STAINLESS STEEL EYE SCREW
16	2	H08N012249	ISO 8752 8x20 STAINLESS STEEL Elastic plug



4.6 H08008E100 – Pneumatic connection

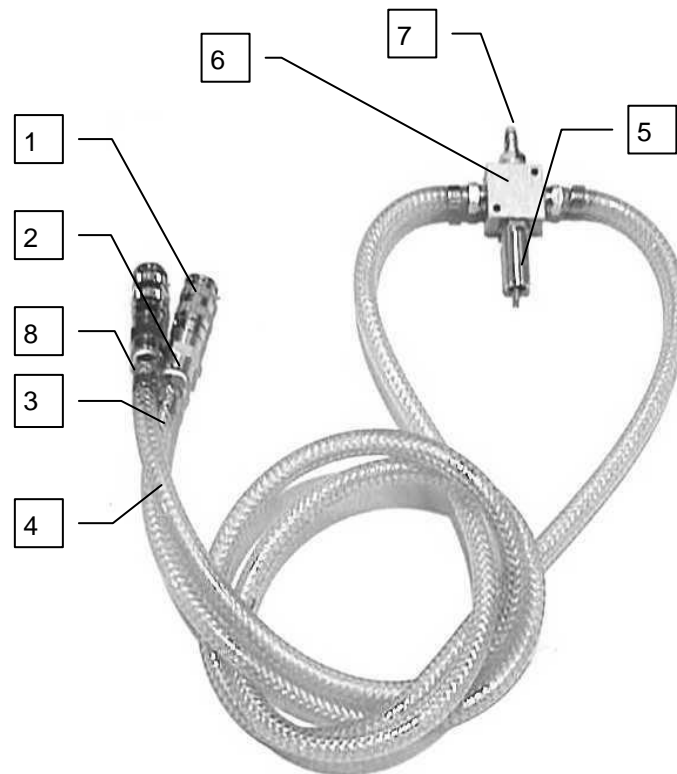
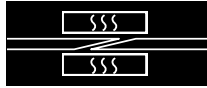
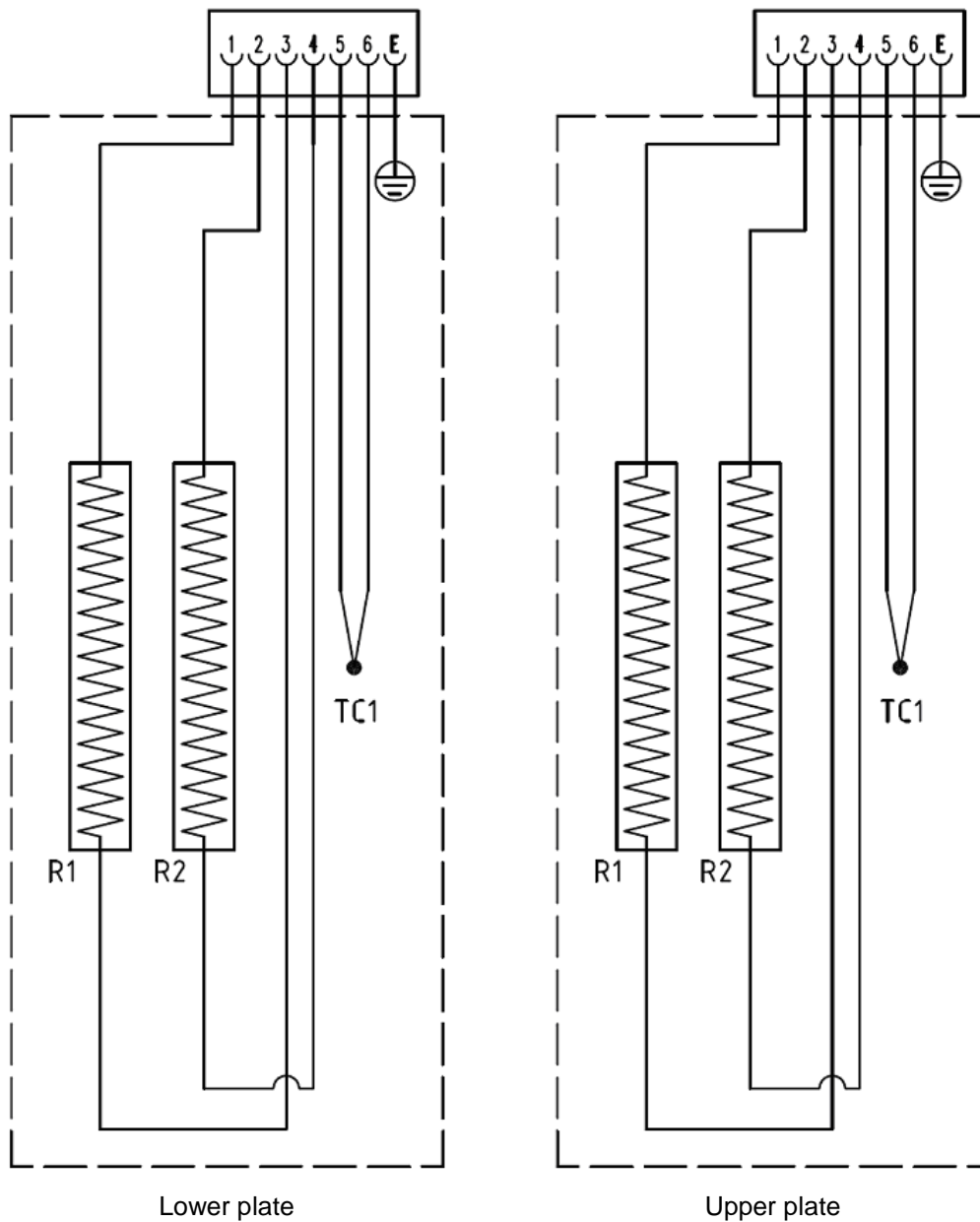


FIGURE 4-1 - PNEUMATIC CONNECTION SPARE PARTS

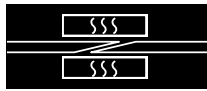
Position	Code	Description	U.M.	Q.ty
	H08008E100	PNEUMATIC CONNECTION	NR	1
1	H08N020655	¼" mini 04 QUICK COUPLING	NR	2
2	H08N020407	HOSE-END ACCESSORY 6x¼"	NR	4
3	H08N020410	PLASTIC TUBE PVC 6x12	NR	1
4	H08N020410	PLASTIC TUBE PVC 6x12	NR	1
5	H08N020406	SAFETY VALVE MAX PRESSURE 3BAR ¼"	NR	1
6	H08N020950	¼" 4-WAY AIR DISTRIBUTOR	NR	1
7	H08N020656	¼" mini 12 MALE QUICK COUPLING	NR	1
8	H08N020412	2-EAR 11X13 HOSE CLAMP COLLAR	NR	4



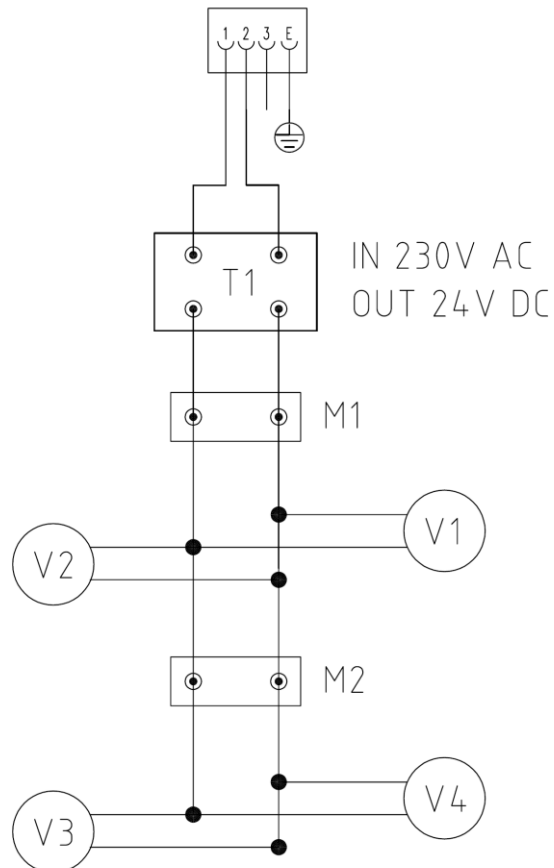
5 Press wiring diagram



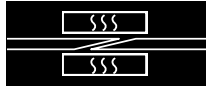
Code		Description
R1	H08D007270	230V 650W resistance
TC1	H08N040431	Thermocouple



5.1 Fan connection diagram



T1	H08N040434	230V ac / 24V dc transformer AIMTEC AMEC15-24SMAZ
V1, V2, V3, V4	H08N040432	Fan coil 24VDC - 412 JHH - 40X40X25 - EBMPAPST
M1, M2		Wire clamps



6 Product and product use liabilities

For any further clarifications, contact Habasis Italiana S.p.A. customer service at the following address:

Habasis Italiana S.p.A.

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Fax: + 39 0438 912374

E_mail : info@habasis.it

Internet : www.habasis.com

Product liability, application considerations

The proper selection and application of Habasis products, including the related area of product safety, is the responsibility of the customer.

All indications / information are recommendations and believed to be reliable, but no representations, guarantees, or warranties of any kind are made as to their accuracy or suitability for particular applications. The data provided herein are based on laboratory work with small-scale test equipment, running at standard conditions, and do not necessarily match product performance in industrial use. New knowledge and experiences can lead to modifications and changes within a short time without prior notice.

BECAUSE CONDITIONS OF USE ARE OUTSIDE OF HABASIT'S AND ITS AFFILIATED COMPANIES CONTROL, WE CANNOT ASSUME ANY LIABILITY CONCERNING THE SUITABILITY AND PROCESS ABILITY OF THE PRODUCTS MENTIONED HEREIN. THIS ALSO APPLIES TO PROCESS RESULTS / OUTPUT / MANUFACTURING GOODS AS WELL AS TO POSSIBLE DEFECTS, DAMAGES, CONSEQUENTIAL DAMAGES, AND FURTHER-REACHING CONSEQUENCES

This use and maintenance manual and its attachments are translated from original language (Italian).
