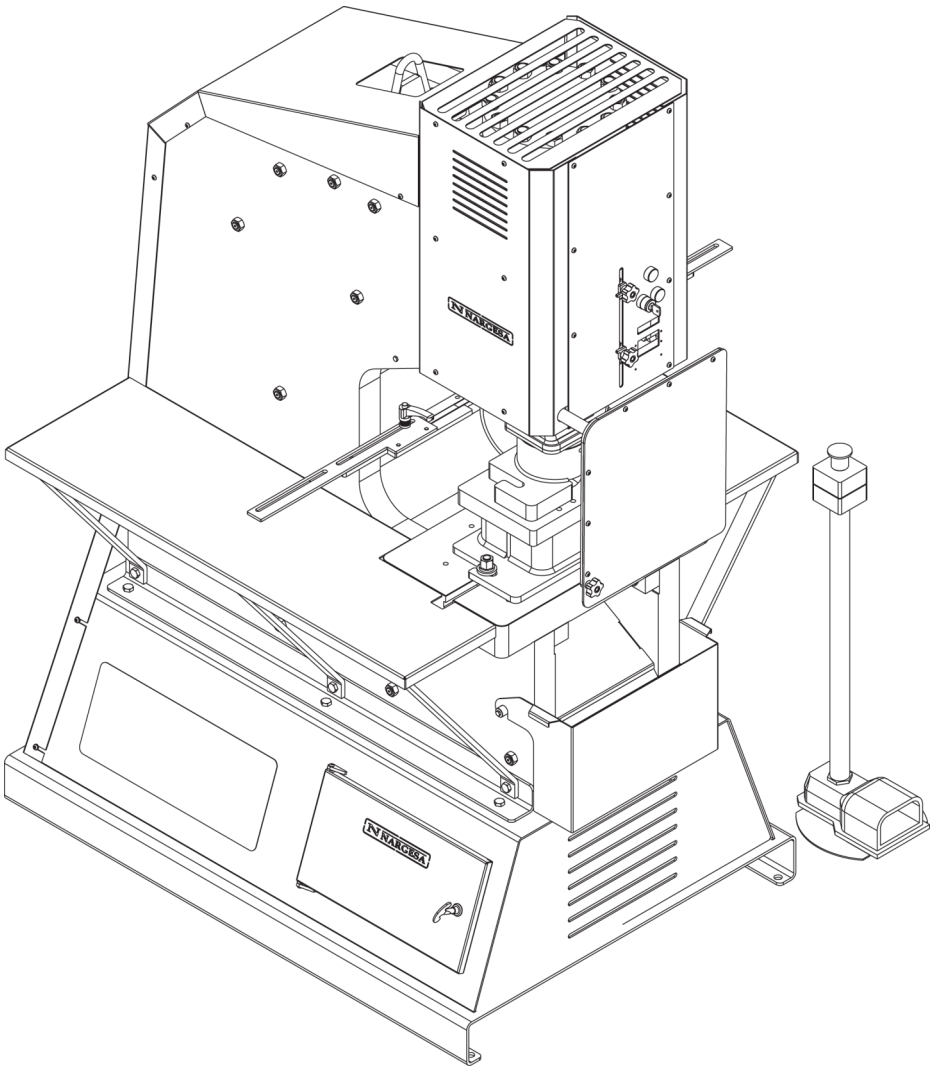
IRONWORKER MACHINE

MX700

NS: 2021-283



INSTRUCTIONS BOOK

PRADA NARGESA, S.L

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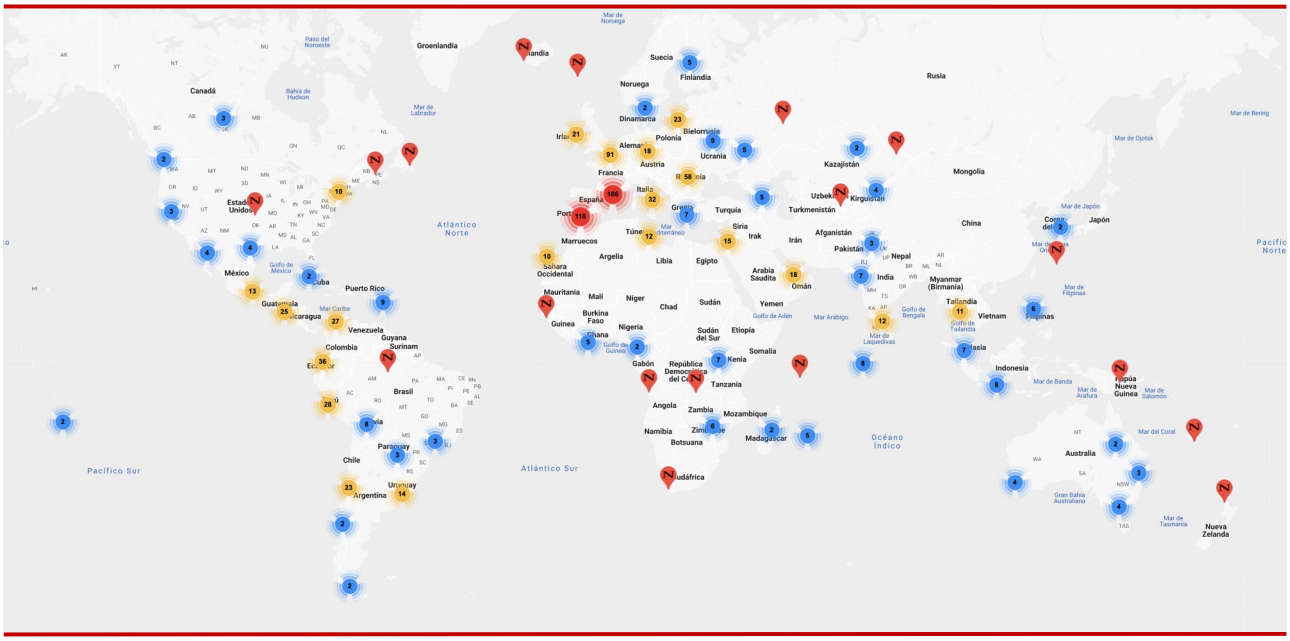
Prada Nargesa has more tan 8.000 customers around the world. Some of our clients, those who offer service to third parties with the Nargesa machinery in their workshops, have been pleased to be part of this network that aims to connect them with posible future clients. In this way, all those people or companies that have a need for any part or tool that can be manufactured by using the Nargesa range of machinery, will be able to find a solution in their área to be able to satisfy their production requirements by hiring their services.



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We want to encourage all those who haven't participated yet in this great comercial network!

Company name

CIF/Tax Code

City

Country

Machine or machines

PRADA NARGESA

Prada Nargesa S.L. is a family business fonuded in 1970 located near Barcelona, Spain, with more tan 50 years of experience in the sector of manufacturing of industrial machinery, and more tan 10.000m² of facilities. Nargesa is a symbol of quality, reliability, warranty and innovation.

Our whole range of machines and accessories is manufactured entirely in Nargesa. We have a constant stock of 400 machines, and we have more tan 16.800 machines sold all over the world.

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Ironworker Machines

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Non-mandrel Tube and Pipe Bender

Twisting / Scroll Bending Machines

Horizontal Press Brakes

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Hydraulic Press Brakes

Presses for Locks

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AUTHORIZED EXPORTER

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- Reduction of tariff documentation
- Tariff preferences according to geographical location

INNOVATIVE SME

- Development in innovation, design and manufacturing technologies
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R+D+I MANAGEMENT

- Manufacturing based on the R+D+I process
- Technological surveillance system

SUCCESS STORIES

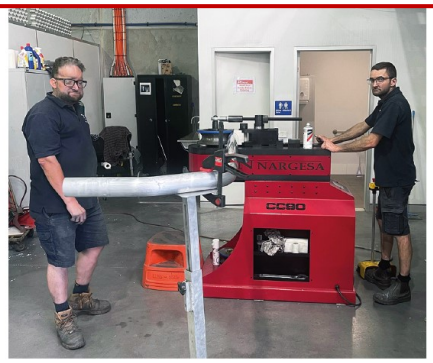
At Prada Nargesa we believe that the testimony of our clients is our best guarantee, and that is why we like to expose some of the success stories that we have witnessed around the world:

PORTUGAL

Capela & Filhos

AUSTRALIA

Manufactured Alloy Xtras

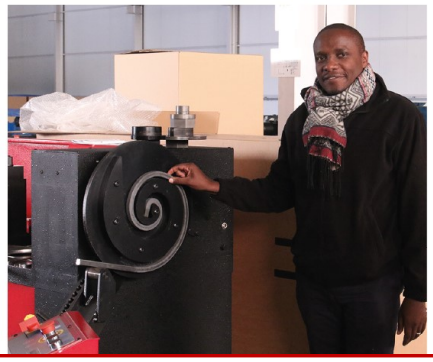


ESTADOS UNIDOS

Madison Environmental Resources

ESPAÑA

CBET Decoración SL



UGANDA

Steel Limited

RUMANIA

Gala Metal & Design SRL

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Company name

Testimonial name

Post in the Company

Country

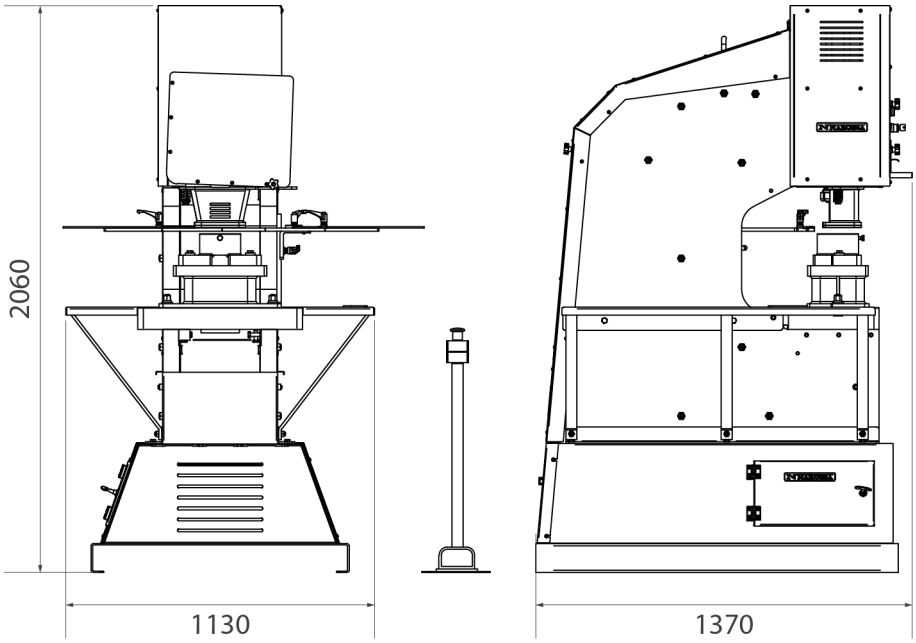
Descriptive text

Photography with the machine

INDEX

1. FEATURES OF THE MACHINE

1.1. General dimensions



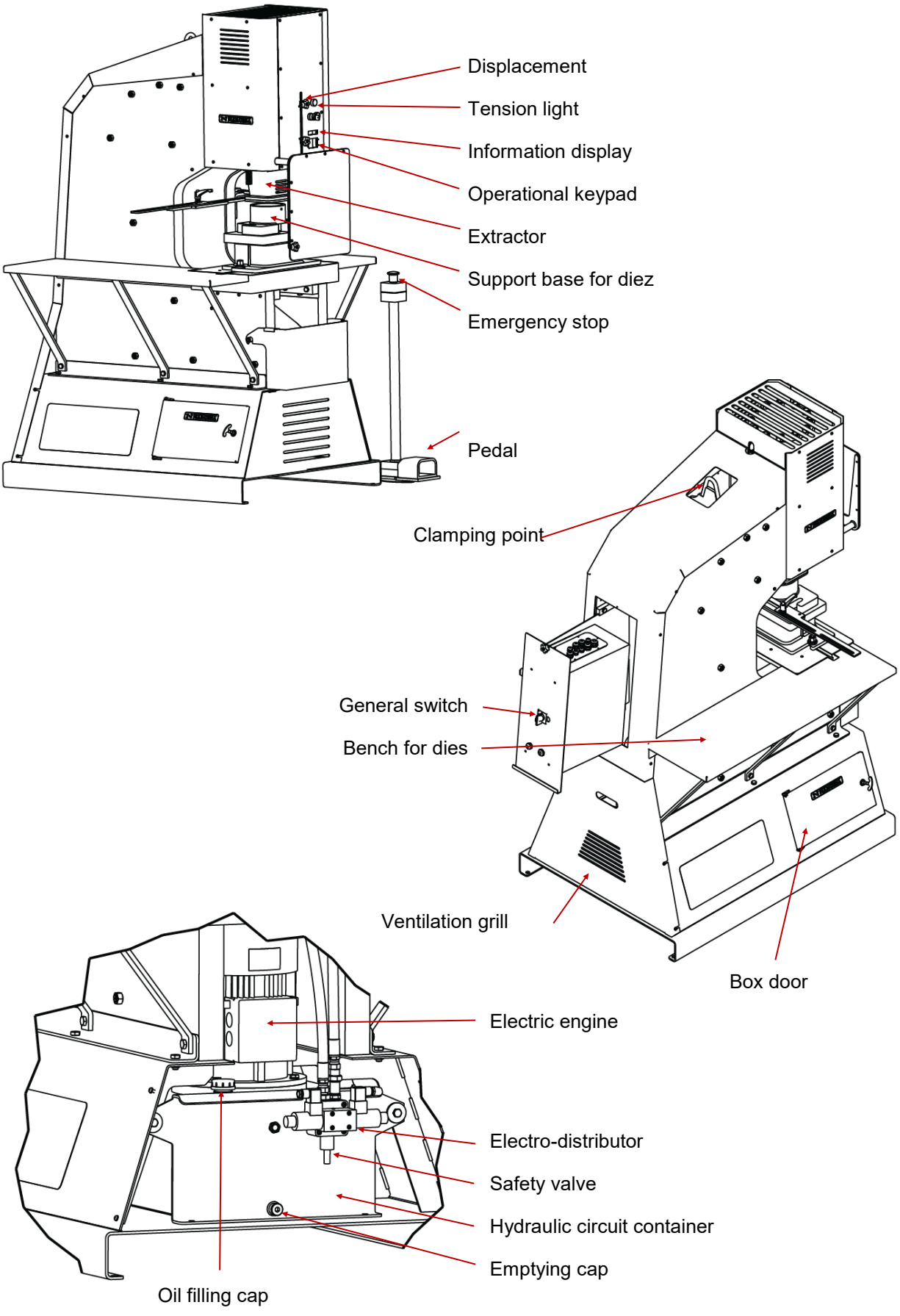
1.2. Description of the machine

The MX700, has been especially designed for punching metal parts with different shapes depending on the type of punch.

It may have other utilities by incorporating various accessories. It may be used for other purposes but always following the manufacturer's guidelines, which provide all dockable accessories to the machine.

MX700 is made according to the European regulations for the manufacturing of industrial machinery

1.3. Identification of the machine



1.4. General characteristics

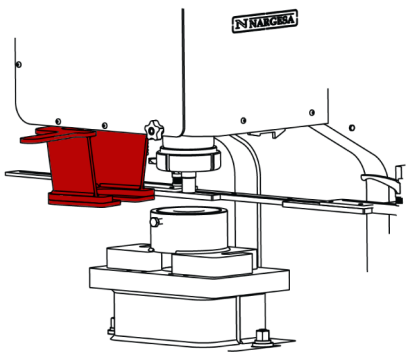
Engine power	5,5 KW / 7,5 CV
Tension	230/400V Three-Phase 230V Single-Phase
Hydraulic power	70 Tn
Hydraulic pressure	230kg/cm^2 (23 MPa)
Working speed	9 mm/s
Return speed	14 mm/s
Punch displacement	160 mm
Neck	350 mm
Tooling support table	600x350 mm
Dimensions	1130x1370x2060 mm
Weight	2000 Kg

1.5. Description of safety devices

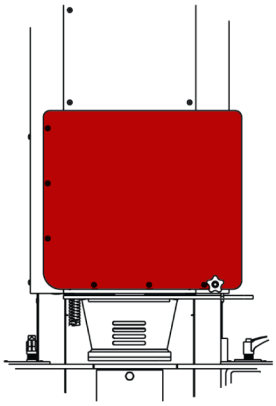
Protection devices of the MX700 are the extractor at the front of the machine to hold the material and avoid putting your hands between the punch and the workpiece.

It also has a screen to prevent fragments projections, this display has a security system to prevent the punch from descending if the screen is raised, only if the key to cancel safety is turned, then it coul be possible to work with with the hazard light. Picture 2

Picture 1



Picture 2



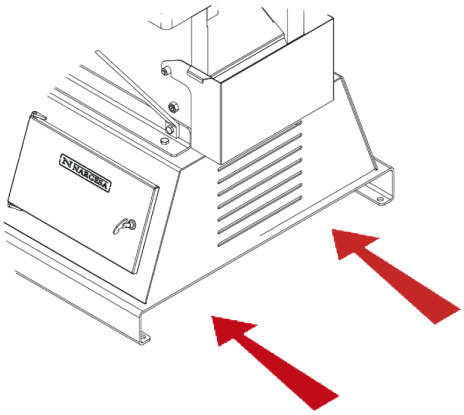
2. TRANSPORT AND STORAGE

2.1. Transport

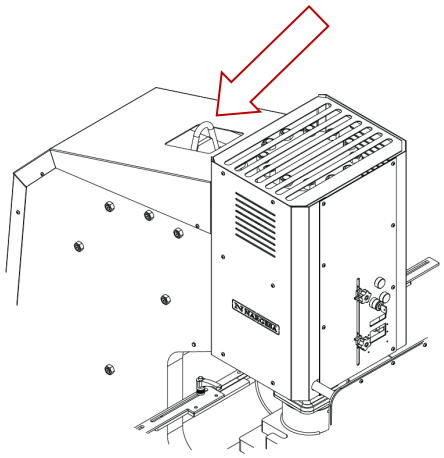
There are two ways of carrying out the transportation of the machine.

One of them is lifting it by its lower part using a forklifting truck as indicated in picture 3 and the other one is by using a crane of forklifting truck as well and grabbing it by the clamping spot on the upper side, as indicated in picture 4.

Picture 3



Picture 4



2.2. Storage conditions

The punch can never be stored in a place where it does not meet the following requirements:

* Humidity 30% to 95% non-condensing.

* Temperature -25 to 55 ° C or 75 ° C for periods not exceeding 24 hours (remember that these temperatures are in storage)

* It is advisable not to stack heavy objects or machines.

* Do not disassemble for storage.

3. MAINTENANCE

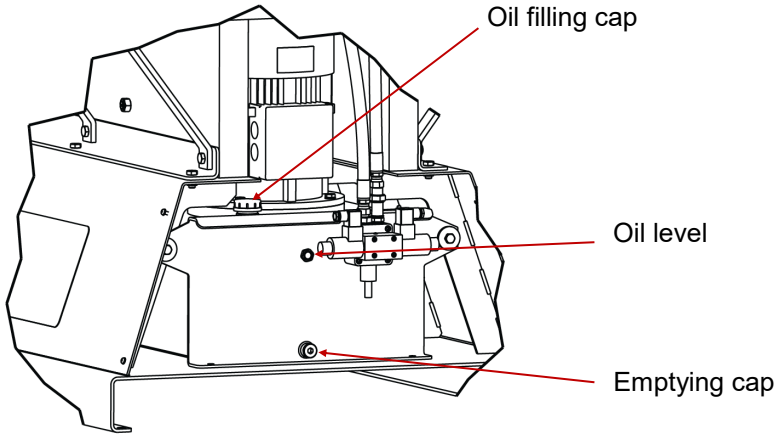
3.1. General maintenance

Every 500 hours of use, check the oil level in the tank.

At the top of the tank is the oil plug. In case you need to add oil, fill to cover the peephole in the front of the tank. (Picture 5)

- Replace every 2000 hours or every 5 years the hydraulic oil tank. Oil Type: CEPSA HYDRAULIC HM 68. The tank has a capacity of 60 liters

Picture 5



WARNING:

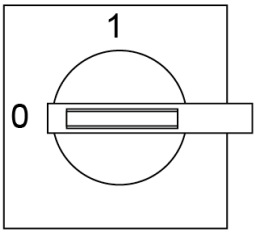
Stop the machine and press the emergency stop to perform the oil change.

After replacing the oil, put up the machine and press the pedal in intermitencies increasing time pressure gradually until the circuit fill up. Make sure the machine will perform normally.

- Lubricate punches periodically depending on use.
- If the use is daily and continuous, grease them every day.
- If the use is sporadic during the day then oil each week.
- If the use is sporadic, grease once a month.

Picture 6

1- Stop the machine

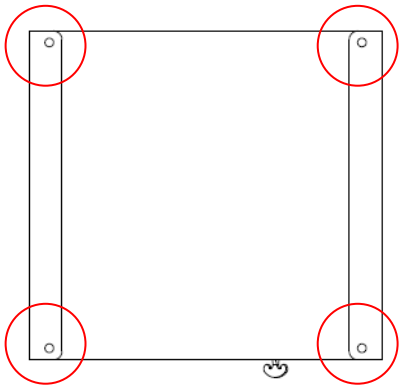


4. INSTALLMENT AND STARTING UP

4.1. Location of the machine

Efforts will be made to locate the machine properly to avoid having to move, otherwise the user must follow the guidelines described in section transport (nº2). It should be placed on a flat, level surface to prevent vibration and movement of the joint while performing. It is possible to fix the machine by bolts as is provided with a lower base or foot with four holes as shown in Picture 7.

Picture 7

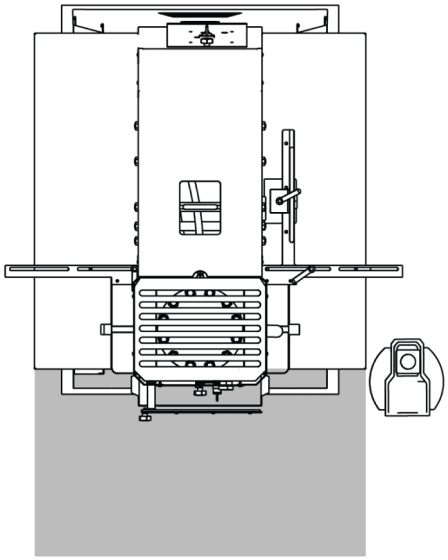


4.2. Dimensions and working site

When the machine is placed on site its dimensions, the workspace of the operator and the possible lengths of the workpiece are to be taken into account.

The machine must be used by a single operator, which is to be placed frontally to the machine, never in a lateral area because he has to control the whole machine and also main protections are designed to use the front of it.

Picture 8



4.3. Admissible outer conditions

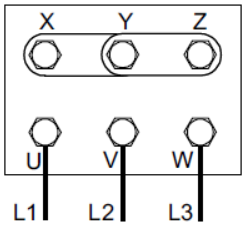
- Temperature betwee +5ºC and +40ºC without exceeding an average temperature of +35ºC during 24h
- Humidity between 30% and 90% with no water condensation.

4.4 Connection to power supply

IMPORTANT: This machine must be connected to a single outlet with earthing

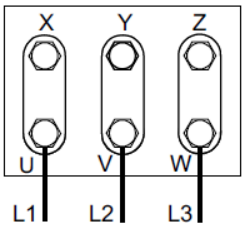
The MX700 is equipped with a three phased engine 230V / 400V with 5,5Kw connected on a star shape to connect into a power supply of 400V. It should be connected to an only power supply with the indicated requirements. If the line tension is not the indicated one then there must be carried out a change of connection of the motor bobins and the inverter as indicated in the following pictures:

Picture 9



Star picture
(preset)
For tension 400V

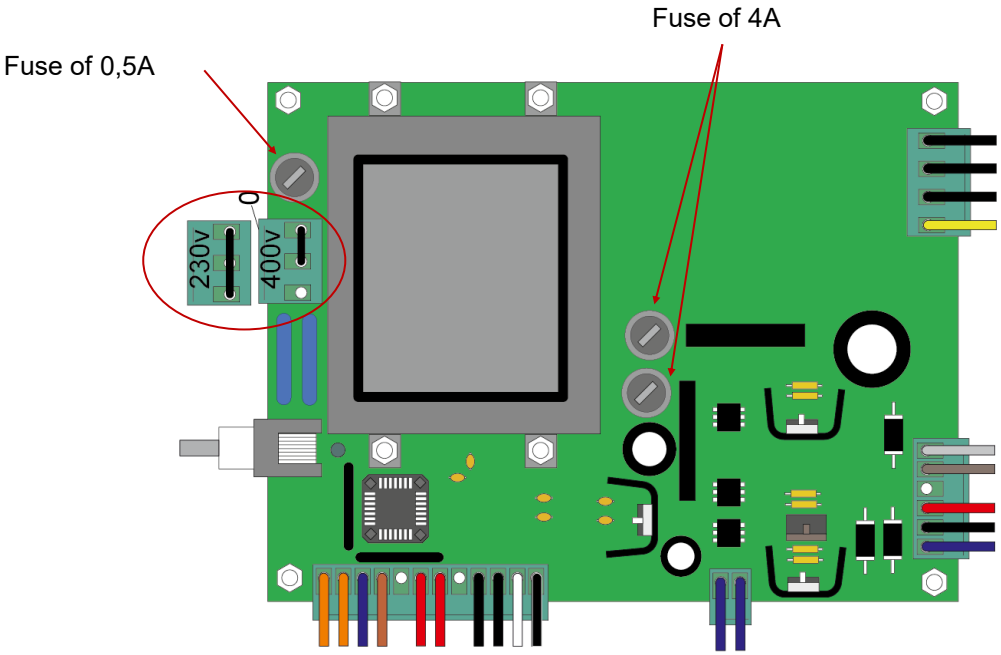
Picture 10



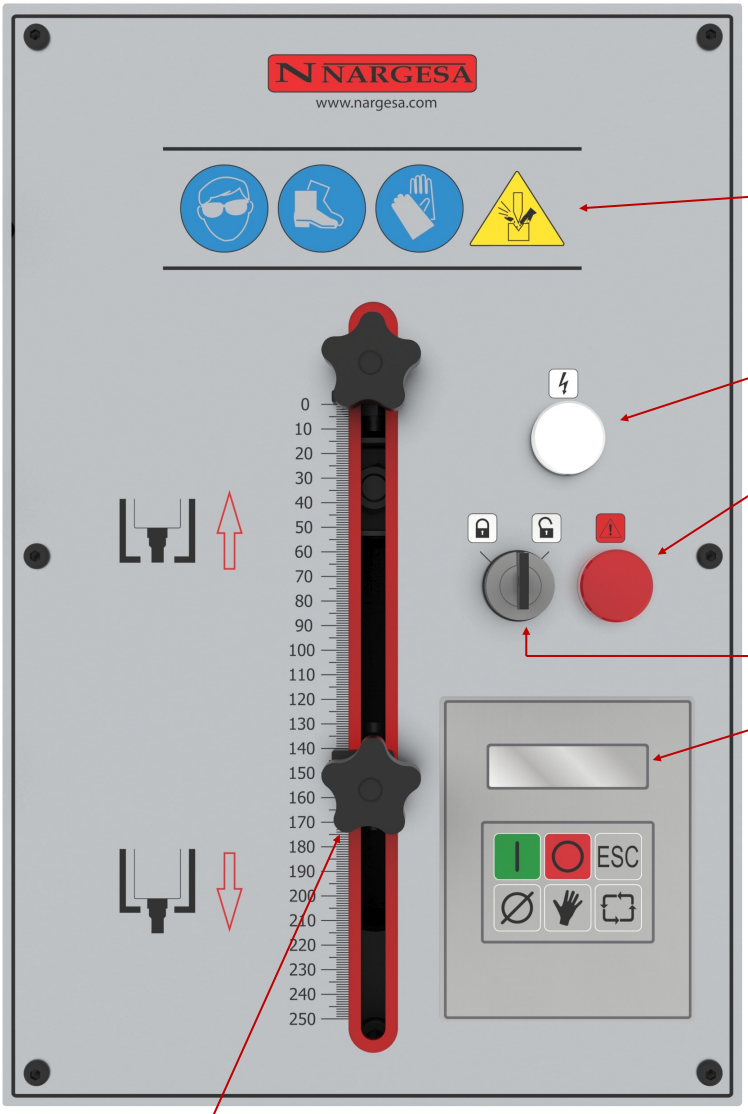
Triangle picture
For tension 230V

In case of change of tension from 400V to 230V, change terminal 6 from 400V and put it in terminal 230V.

Picture 11



5. OPERATION MANUAL



Compulsory safety devices when using the MX700

Tension light

Safety cancelling light

Key of cancelling safety screen

Control screen

Wing for setting the lower and upper limits stop the punchn.

ON key for starting up the machine

OFF key to stop the machine

ESC Key for cancelling one operation

Key for deleting the counter of punching operations

Key for turning on to manual mode

Key for changing on to automatic mode

5.1. Introduction

This manual is intended to be useful to the user of the MX700, as it contains important information about the use and features of the machine. It is for this reason that it is recommended to follow step by step the points in this manual in order to understand the correct operation of the machine.

5.2. Feeding up of MX700

To give power to the machine, put the March switch in the Connected position. When proceeding, a message like this will be displayed

Picture 12. Message for activation of the Hydraulic Press

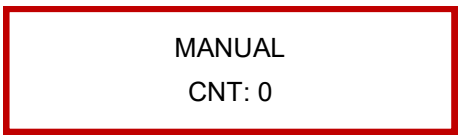
The situation in which the punching machine is currently called StandBy, a state in which the machine is turned on but remains idle waiting to perform any function.

5.3. Activation of the machine

With the machine already initialized and in StandBy, you can work with it by following the steps detailed below.

To proceed properly, please press the ON key. When doing so, it will appear on the display

LCD messages like this.

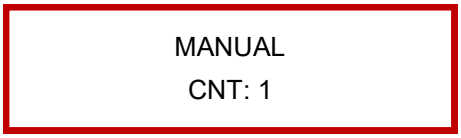


Picture 13. Message of activated Hydraulic Pres

The information represented in the picture above shows, in the top row of the LCD display, the current mode of punching (Manual or Automatic). In the bottom row there is the counter which is incremented each time the pedal is pressed down.

5.4. Working at manual mode

In MANUAL mode, the way we work is as follows. Press the pedal to make the punching operation. By proceeding as described here, see how the counter of the machine shown in the LCD display will be increased in one piece.



Picture 14. Information about manual punching

Picture 14 shows how the counter now dial 1 punching operation. Once it is complete you can lift off the foot the pedal.

You should note that this mode of operation allows you to go by descending the rod slowly as you have more or less time down on the pedal. Upon reaching the inductive Lower displacement or when you lift your foot off the pedal , stem movement stops.

Considering this mode of operation, you can adjust the setting of the Lower inductive to regulate the stem descention while pressing the pedal , so you can be seeing as the machine continued its going down until said inductive limit switch is activated.

Finally, it is important to remember that in this mode the punching rod moves ever upward , so that if you need this up, shall proceed as detailed in the following section.

5.5. Working at automatic mode

To switch from work mode MANUAL into AUTOMATIC work mode, all you have to do is press the AUTO key. When doing so, the stem is activated in ascending displacement. This movement continues until the machine has reached the Stroke. Moreover, the automatic mode is quite close to the one mentioned in section 6.4. However, as there are some differences, let's take a look at them:

Press the pedal to punch. By proceeding as described here, see how the counter on the machine shown in the LCD display will be incremented by one.

Picture 15. Information of the Automatic Punching

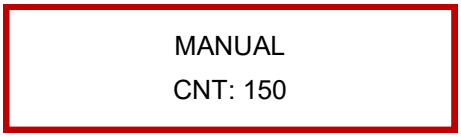
Once that punching is complete, you can lift the foot off the pedal. However, in this mode of operation, unlike the above, the piston rod returns back to its rest position, starting the climb to the Superior FC is activated.

You should note that this mode also allows you to go work by lowering the rod slowly to adjust the descent, by positioning the Lower inductive. Whenever you hold the pedal rod takes a downward movement will be stopped only when the above inductive l Final Race is activated. When you lift your foot off the pedal, the rod movement reverses and begins the ascent.

5.6. Meter deletion

The MX700 has a counter as you know, if you have carefully read the foregoing sections. This can be very favorable in case you need to count the punching operations, this requires a certain part, or the ones a third user has made with your machine a third part with your machine.

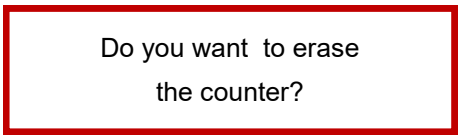
Obviously this counter can be deleted. In order to proceed properly and supposing it shows up on the LCD a message like this one below in which for example, you have done 150 operations, just follow the instructions indicated below.



Picture 16.Information of the number of operations made

It is important to say that the counter can be always erased whenever the machine is about to work (in state of StandBy it is not possible), but without performing any operation, the user may proceed thus, in MANUAL mode or AUTO mode.

The only thing you should do is press the COUNTER key If it does, the message shown on the LCD will change to this one.



Picture 17. Message with the information of the counter deletion

Logically, if you press the ESCAPE key, the counter will not be affected, and return to the previous screen. If instead you want to clear the counter to the question put to him in the previous message, press the COUNTER key again. The new message is displayed like this on screen.

Picture 18. Information of the deleted counte

5.7. Desactivation of the machine

At any time the machine is turned on and it´s on rest position, you can turn it off. If this is what you want, please press the OFF button and the machine will be disabled, going to standby (refer to Section 6.2)

5.8. Unusual performance situations

At any time an abnormal operating condition, a situation which by its description implies the stop of any operation that was performed at that time may occur.

Abnormal situations are divided into two groups, the Emergency Situations and Error. The specific situations that lead to each of these two groups are shown below

Emergency:

Activating the Emergency Stop button

Picture 19. Information about Emergency Stop

Error situations:

Error on the Upper Displacement of the machine.

Picture 20. Information about Error on the upper Displacement

Error on lower displacement

Picture 21. Information of Error on Lower displacement

Thus, the result of the situations mentioned above, the MX700 goes into such a state that aborts any operation being performed at that time, indicating on screen the anomalous situation that has occurred message.

For security reasons the new activation of the punching machine is not allowed until you have removed the abnormal situation. In case of Emergency can solve this anomalous situation by restoring the Emergency Stop button. Once solved the corresponding anomalous situation , the punching machine restarts and enters standby mode (for later activation refer to paragraph 6.3. Activation of MX700).

If an error situation occurs, with intent to prevent further damage or dangerous situations for users, the punching machine is locked, screen showing the relevant message. In this case, you can only unlock the machine by disconnecting the voltage, and then reconnecting I again. However,at the occurrence of any error conditions, please do not hesitate to contact Technical Support and effect so that the problem will be solved as soon as possible.

6. WARNINGS

The MX700 is equipped with a safety screen to prevent projected elements from causing any damage to the machine operator. This screen can only be raised for the preparation of tools, dies or punches, the machine can operate whenever the key is in "ON" position, this key is always to be controlled by the person responsible for the section or area in which the machine is located.

When the key is set to "On" a red light warning lights on the front indicating that security is bypassed.

-Do not touch any part of the machine running.

-Do not use the machine for other purposes but the ones described in this manual.

-Use gloves when handling and machine components during punching processes

-Wear safety glasses and protective boots approved by the EC.

-Hold the material at the ends, never by the part of the punching.

-Do not work without the protections fitted to the machine. (Never punch without the extractor)

-Maintain a safe distance between the machine and the operator during the time the machine is running.

-Do not use punches or tooling that are not provided by Nargesa.

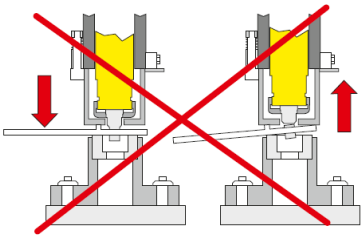
-The tools to be attached to the machine must always be attached to the base and the piston.

-In case of accident by negligence of the operator, not to follow the safety and operating standards set out in the handbook NARGESA will not take any responsibility.

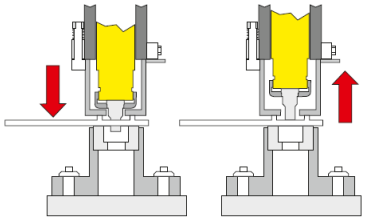
WARNING

No parts can never put that can not be supporting both sides of the EXTRACTOR, nor extremely narrow and flexible parts could be punched, as there is a risk they can fold towards the extractor

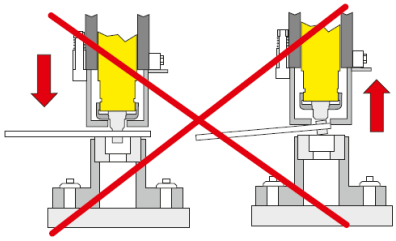
- Do not punch parts that cannot stand symmetricaly supported on the extractor.
- do not punch the part if it doesn't stand on both sides of the extractor.



When going backwards
the punchwill break down



When going backward,
the correct extraction is



When going backwards
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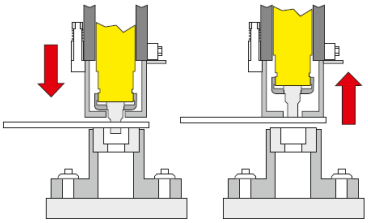


When going backward,
the correct extraction is

7. ACCESSOIRES

The main element for which the machine has been designed is the punch. The punch and base are treated, which ensure their reliability and strength in normal use. Punches and their bases have different sizes and shapes (round, square, rectangular, oblong). There are also other accessories or dies coupled to the piston to cut, bend pipe, blunt, folding, etc.

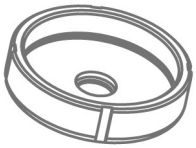
The MX700, has got a wide range of punches and dies which allows to make all kinds of jobs such as folding, punching, cutting, etc.

All Nargesa Hydraulic Punching Machines are equipped with the punching tool that include the fitting nut for punches and the base holder for dies. The rest of accesories are optional, which means each customer equips his machine as desired.

Dimensions calculated with material of 45Kg

Material thickness	Round punch	Square punch
25mm	26mm	19mm
10mm	60mm	47mm
8mm	70 mm	55mm
5mm	100mm	70mm

Fitting nuts for punches MX700

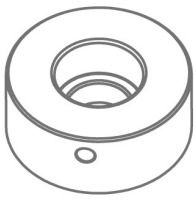


TAP

Type	Fitting nuts for punches
TAP28	Fitting nuts for punches N28 *Standard*
TAP40	Fitting nuts for punches N40
TAP50	Fitting nuts for punches N50
TAP60	Fitting nuts for punches N60
TAP75	Fitting nuts for punches N75
TAP100	Fitting nuts for punches N100
ATAP	Fitting part for TAP100

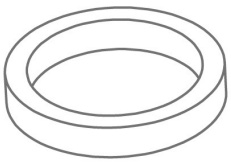
ATAP

Fitting parts for dies MX700



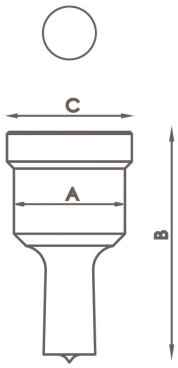
CAB

Type	Fitting for dies
N46	Fitting for dies N46 *Standard*
N60	Fitting for dies N60
N78	Fitting for dies N78
N85	Fitting for dies N85
N100	Base holder for dies N100
N125	Base holder for dies N125



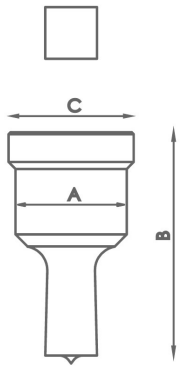
CAB N125

Standard round punches MX700



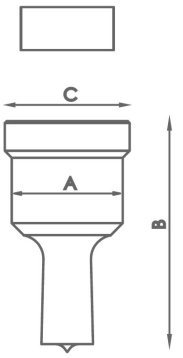
Type	Available sizes in mm Ø	A	B	C
N28	3/3'5/4/4'5/5/5'5/6/6'5/7/7'5/8/8'5 9mm up to 28mm de 0'5 in 0'5mm	28 mm	58 mm	31,5 mm
N40	29/30/31/32/33/34/35/36/37/38/39/40mm	40 mm	64 mm	43,5 mm
N50	41/42/43/44/45/46/47/48/49/50mm	50 mm	58 mm	54 mm
N60	52/54/56/58/60mm	60 mm	58 mm	64 mm
N75	62/64/66/68/70/72/74mm	75 mm	58 mm	79 mm
N100	76/78/80/82/84/86/88/90/92/94/96/98/100mm	100 mm	58 mm	104 mm
For different sizes, please ask the manufacturer.				

Standard square punches MX700



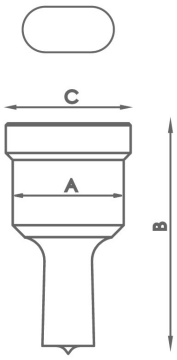
Type	Available sizes in mm Ø	A	B	C
N28	4/5/6/7/8/9/10/11/12/13/14/15/16/17/18/19/20mm	28 mm	58 mm	31,5 mm
N40	21/22/24/26/28mm	40 mm	64 mm	43,5 mm
N50	31/33/35mm	50 mm	58 mm	54 mm
N75	40/44/48/53mm	75 mm	58 mm	79 mm
N100	58/64/70mm	100 mm	58 mm	104 mm
For different sizes, please ask the manufacturer.				

Standard rectangular punches MX700



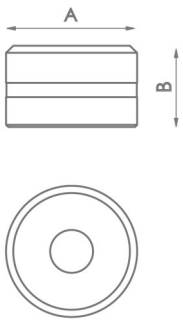
Type	Available sizes in mm Ø	A	B	C
N28	7x10/7x15/9x13/9x19/11x17/11x23 13x19/15x21mm	28 mm	58 mm	31,5 mm
N40	13x25/15x27/17x25/19x30/20x34mm	40 mm	64 mm	43,5 mm
N50	25x43mm	50 mm	58 mm	54 mm
N75	25x70mm	75 mm	58 mm	79 mm
N100	25x96mm	100 mm	58 mm	104 mm
For different sizes, please ask the manufacturer.				

Standard oval punches MX700



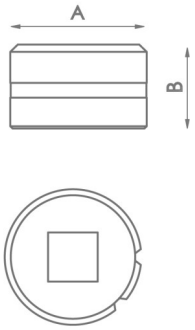
Type	Available sizes in mm Ø	A	B	C
N28	7x10/7x15/7x20/9x13/9x19/11x17/11x23/13x18 13x22/13x27/15x20/15x24/15x27/17x22/17x26 19x26/21x27mm	28 mm	58 mm	31,5 mm
N40	13x31/15x31/17x31/17x40/19x31 19x40/21x31/21x40mm	40 mm	64 mm	43,5 mm
N50	25x45/25x50mm	50 mm	58 mm	54 mm
N75	27x63/27x75mm	75 mm	58 mm	79 mm
N100	30x87/30x100mm	100 mm	58 mm	104 mm
For different sizes, please ask the manufacturer.				

Standard round dies MX700



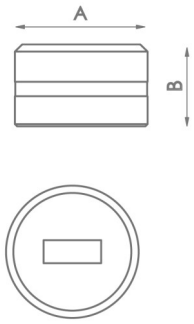
Type	Available sizes in mm	A	B
N46	3/3,5/4/4,5/5/5,5/6/6,5/7/7,5/8/8,5 9mm up to 28mm de 0,5 en 0,5mm	46 mm	28,5 mm
N60	29/30/31/32/33/34/35/36/37/38/39/40mm	60 mm	32 mm
N78	41/42/43/44/45/46/47/48/49/50mm	78 mm	28,5 mm
N100	52/54/56/58/60/62/64/66/68/70/72/74mm	100 mm	28,5 mm
N125	76/78/80/82/84/86/88/90/92/94/96/98/100mm	125 mm	28,5 mm
For different sizes, please ask the manufacturers.			

Standard square dies MX700



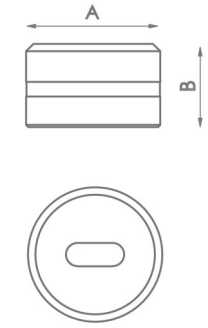
Type	Available sizes in mm	A	B
N46	4/5/6/7/8/9/10/11/12/13/14/15/16/17/18/19/20mm	46 mm	28,5 mm
N60	21/22/24/26/28mm	60 mm	32 mm
N78	31/33/35mm	78 mm	28,5 mm
N100	40/44/48/53mm	100 mm	28,5 mm
N125	58/64/70mm	125 mm	28,5 mm
For different sizes, please ask the manufacturers.			

Standard rectangular dies MX700



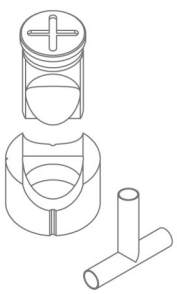
Type	Available sizes in mm	A	B
N46	7x10/7x15/9x13/9x19/11x17/11x23/13x19/13x25/ 15x21mm	46 mm	28,5 mm
N60	15x27/17x25/19x30/20x34mm	60 mm	32 mm
N78	25x43mm	78 mm	28,5 mm
N100	25x70mm	100 mm	28,5 mm
N125	25x96mm	125 mm	28,5 mm
For different sizes, please ask the manufacturers.			

Oval dies MX700



Type	Available sizes in mm	A	B
N46	7x10/7x15/7x20/9x13/9x19/11x17/11x23/13x18/13x22/13x27 15x20/15x24/15x27/17x22/17x26/19x26/21x27mm	46 mm	28,5 mm
N60	13x31/15x31/17x31/17x40/19x31/19x40/21x31/21x40mm	60 mm	32 mm
N78	25x45/25x50mm	78 mm	28,5 mm
N100	27x63/27x75mm	100 mm	28,5 mm
N125	30x87/30x100mm	125 mm	28,5 mm
For different sizes, please ask the manufacturers.			

Tube notching tooling MX700

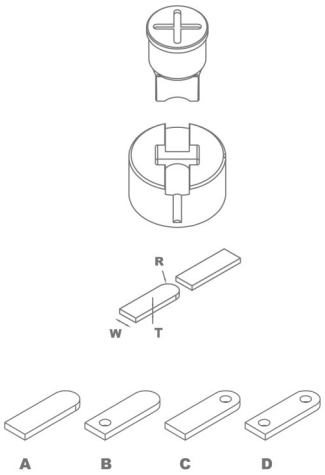


Refference	Available sizes in mm	Required fitting	
MAN28	Tube from 16 to 28mm	TAP 28	CAB 46
MAN40	Tube from 28,5 to 40mm	TAP 40	CAB 60
MAN50	Tube from 40,5 to 50mm	TAP 50	CAB 78
MAN60	Tube from 50,5 to 60mm	TAP 60	CAB 85
For different sizes, please ask the manufacturers.			

Corner rounding tooling MX700

Refference	Radius in mm	Required fitting	
MRE28	Radius from 3 to 15mm	TAP 28	CAB 46
MRE40	Radius from 16 to 22mm	TAP 40	CAB 60
MRE50	Radius from 23 to 30mm	TAP 50	CAB 78
For different sizes, please ask the manufacturers.			

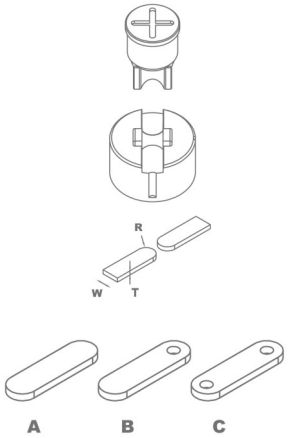
Flat bar round end tooling R1



Refference	Model	Width size	Required fitting
MOR1-35A	A	From 20 to 35mm	TAP28 / TAP40
MOR1-35B	B	From 20 to 35mm	TAP28 / TAP40
MOR1-35C	C	From 20 to 35mm	TAP28 / TAP40
MOR1-35D	D	From 20 to 35mm	TAP28 / TAP40
MOR1-50A	A	From 40 to 50mm	TAP50 / TAP60 with ATAP
MOR1-50B	B	From 40 to 50mm	TAP50 / TAP60 with ATAP
MOR1-50C	C	From 40 to 50mm	TAP50 / TAP60 with ATAP
MOR1-50D	D	From 40 to 50mm	TAP50 / TAP60 with ATAP

For different sizes, please ask the manufacturer · When placing order it must be specified the REFFERENCE, MODEL, R (radius), W (flat bar width), T (flat bar thickness) · In models B, C and D specify diemeter of the hole · The ear shaped legth is always adjustable · Production capacity: 450 to 600 parts per hour.

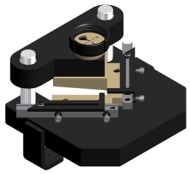
Flat bar round end tooling R2



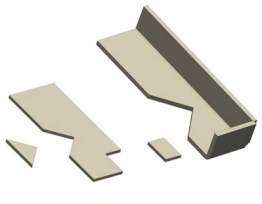
Refference	Model	Width size	Required fitting
MOR2-35A	A	From 20 to 35mm	TAP28 / TAP40
MOR2-35B	B	From 20 to 35mm	TAP28 / TAP40
MOR2-35C	C	From 20 to 35mm	TAP28 / TAP40
MOR2-50A	A	From 40 to 50mm	TAP50 / TAP60 with ATAP
MOR2-50B	B	From 40 to 50mm	TAP50 / TAP60 with ATAP
MOR2-50C	C	From 40 to 50mm	TAP50 / TAP60 with ATAP

For different sizes, please ask the manufacturer · When placing order it must be specified the REFFERENCE, MODEL, R (radius), W (flat bar width), T (flkat bar thickness) · In models B and C specify hole diameter · The ear shaped legth is always adjustable · Production capacity: 450 to 600 parts per hour.

Stripping Tooling 90º Adjustable 150x150 MX700 · REF. 140-02-02-00001



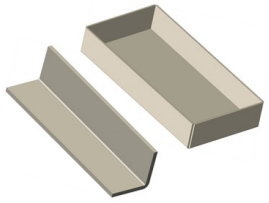
Stripping tooling for metal sheet, angle, etc...Adjustable up to 150x150mm to 90º fixed.



Units per machine	Max. Cutting capacity	Weight
1	150x150x8	38 Kg

Folding Tooling 170mm. MX700 · REF. 140-02-02-00034

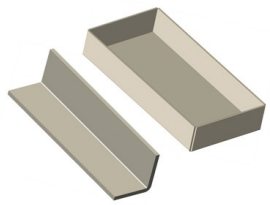
Tooling for folding sheet and flat bar up to 170mm. 88º punch. Dies with V for 56mm and V for 26m.



Units per machine	Max. Folding Length	Max. Folding Thickness	Weight
1	170mm	8 a 12mm	13 Kg

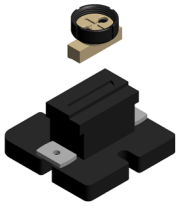
Folding Tooling 350mm. MX700 · REF. 140-02-02-00043

Tooling to fold metal sheet and flat bar up to 350mm. Punch: 88º. Die with adjustable V of 120mm, 80mm, 40mm and 16mm.

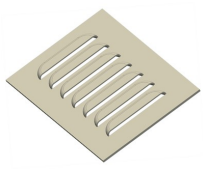


Units per machine	Max. Folding Length	Max. Folding Thicknesss	Weight
1	350mm	20mm	45 Kg

Ventilation Grip Tooling MX700 · REF. 140-02-02-00031

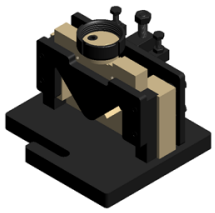


Tooling to make ventiolation grips in metal sheet. Adjustable amount of punchings which are to be made one by one.

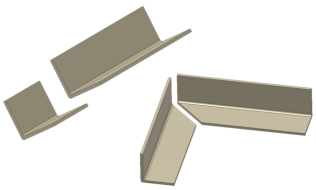


Units per machine	Punching size	Max. Thickness.	Weight
1	100x20mm	2mm	21Kg

Angle Cutting Tooling. MX700 · REF. 140-02-02-00036



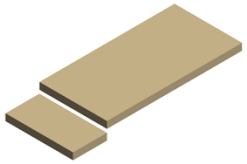
Tooling for cutting angles from 90º up to 45º.



Units per machine	Max cutting capacity Straight cut	Max. Cutting capacity Miter cut	Weight
1	80x80mm	50x50mm	32 Kg

Flat bar Cutting Tooling 100 x 12. MX700 · REF. 140-02-02-00037

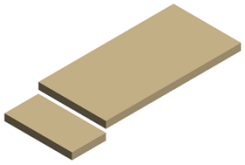
Tooling for cutting metal sheet or flat bar from 0.8mm up to 12mm thickness.



Units per machine	Max. Cutting capacity	Weight
1	100x12mm	29 Kg

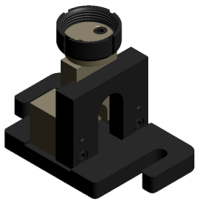
Flat Bar Cutting Tooling 200 x 20. MX700 · REF. 140-02-02-00002

Tooling for cutting flat bar or metal sheet from 0.8mm up to 20mm Thickness.

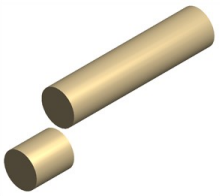


Units per machine	Max. Cutting Capacity	Weight
1	200x20mm	54 Kg

Round Bar Cutting Tooling MX700 · REF. 140-02-02-00038

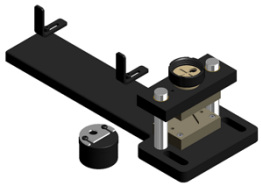


Tooling for cutting round bar from 3mm up to 35mm.

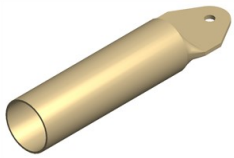


Units per machine	Max. Cutting diameter	Min. Cutting diameter	Weight
1	35mm	3mm	16 Kg

Fence Post End Tooling MX700 · REF 140-02-02-00039

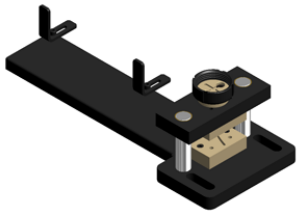


Tooling to flatten and punch the pipe for fences. It admits different pipe diameters. Exchangeable hole size.

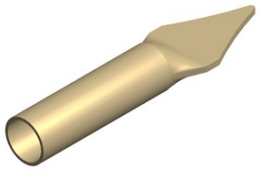


Pieces by tooling	Pipe Max. Diameter	Min. Pipe diameter	Hole Diameter	Weight
2	50mm	10mm	Exchangeable	24 Kg

Arrow Tooling for Pipes MX700 · REF. 140-02-02-00040



Tooling for flattening and cutting pipes in arrow shapes. Suitable for different diameters.



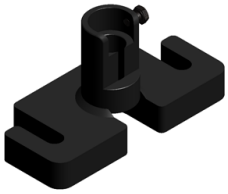
Units per machine	Max. Pipe Diameter	Min. Pipoe Diameter	Weight
1	30x2mm	10x2mm	20 Kg

Arrow tooling for Metal Sheet MX700 · REF. 140-02-02-00041

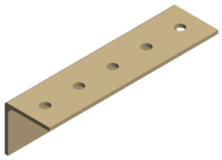
Tooling for punching metal sheet in arrow shapes for fences.

Units per machine	Sheet Max. Thickness	Weight
1	3mm	22 Kg

Angle and U Profile Punching Machine MX700 · REF. 140-02-01-00031



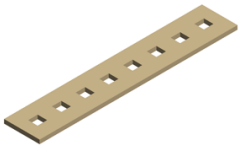
Base holder for punching angles. The punches and dies of different diameters are exchangeable.



Units per machine	Max. Hole Diameter	Min. Hole Diameter	Weight
1	28mm	2mm	7 Kg

Flattening Tooling MX700 · REF. 140-02-02-00042

It's an extractor which acts as the flat bar holder at the punching time to prevent the flat bar from deformation while being punched.

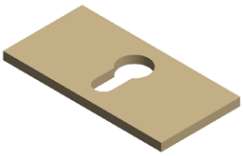


Pieces per tooling	Bar or flat bar max. thickness	Weight
1	15mm	15 Kg

Locks Punch and Die MX700 · REF. 140-02-01-00036

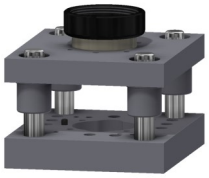
Set of punch and die to make the locks punching in metal sheet.

Necessary complements: CAB60 and TAP40



Pieces per set	Max. Thickness	Weight
2	6mm	1 Kg

Set of cuting and shaping die holders for MX700

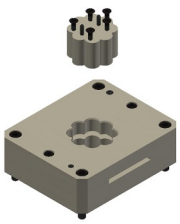


Reference: 140-02-02-00045

Set of die holders to be adapted cutting and shaping tooling for decorative flower elements.

Pieces per set	Weight
2	52,5 Kg

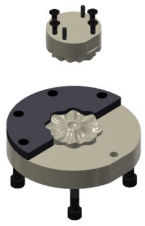
Flower cutting die D65 8 petals MX700



Reference: 140-02-01-00043
Die for cutting 8 petals flower shaped metal sheet, D65mm.
For its use, it is required the die holder for cutting and shaping MX700. Ref. 140-02-02-00045
For any other different designs, ask the manufacturer

Pieces per set	Thickness	Weight
2	1 - 1,5 - 2mm	10,5 Kg

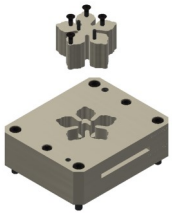
Flower inlaying tooling D65 8 petals MX700



Reference: 140-02-01-00044
Die for molding 8 petals flower shaped metal sheet, D65mm.
For its use, it is required the die holder for cutting and shaping MX700. Ref. 140-02-02-00045 and cutting die Ref. 140-02-01-00043
For any other different designs, ask the manufacturer

Pieces per set	Thickness	Weight
2	1 - 1,5 - 2mm	4,9 Kg

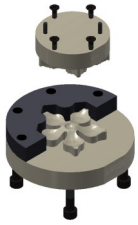
Flower cutting die D85 5 petals MX700



Reference: 140-02-01-00045
Die for cutting flower shaped metal sheet, 5 petals with diameter 85mm.
For its use, it is required the die holder for cutting and shaping MX700. Ref. 140-02-02-00045
For any other different designs, ask the manufacturer

Pieces per set	Thickness	Weight
2	1 - 1,5 - 2mm	10,4 Kg

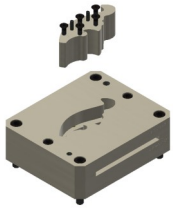
Flower inlaying tool D85 5 petals MX700



Reference: 140-02-01-00046
Tooling for molding 5 petal flower shaped metal sheet, diameter 85mm.
For its use, it is required the die holder for cutting and shaping MX700. Ref. 140-02-02-00045 and cutting die Ref. 140-02-01-00045
For any other different designs, ask the manufacturer

Pieces per set	Thickness	Weight
2	1 - 1,5 - 2mm	6,2 Kg

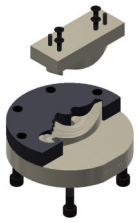
Leaf cutting die 108X42 MX700



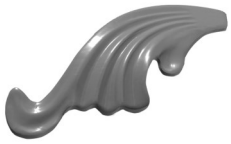
Reference: 140-02-01-00047
Tooling for cutting leaf shaped, 108x42mm
For its use, it is required the die holder for cutting and shaping MX700. Ref. 140-02-02-00045
For any other different designs, ask the manufacturer

Pieces per set	Thickness	Weight
2	1 - 1,5 - 2mm	10,2 Kg

Flower inlaying tool 108X42 left MX700

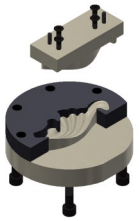


Reference: 140-02-01-00048
Tooling for molding 108x42mm leaf shaped metal sheet, left.
For its use, it is required the die holder for cutting and shaping MX700. Ref. 140-02-02-00045 and cutting die Ref. 140-02-01-00047
For any other different designs, ask the manufacturer

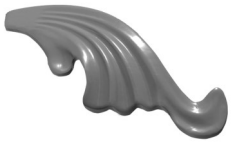


Pieces per set	Thickness	Weight
2	1 - 1,5 - 2mm	6,2 Kg

Leaf inlaying tool 108X42 right MX700



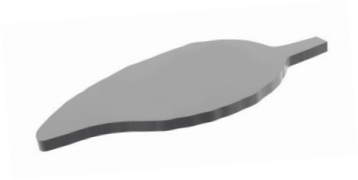
Reference: 140-02-01-00049
Tooling for molding 108x42mm leaf shaped metal sheet, right.
For its use, it is required the die holder for cutting and shaping MX700. Ref. 140-02-02-00045 and cutting die Ref. 140-02-01-00047
For any other different designs, ask the manufacturer



Pieces per set	Thickness	Weight
2	1 - 1,5 - 2mm	6,2 Kg

Serrated-edges leaf cutting die MX700

Reference: 140-02-01-00052
Die for cutting serrated-edges leaf 115x50mm.
For its use, it is required the die holder for cutting and shaping MX700. Ref. 140-02-02-00045
For any other different designs, ask the manufacturer



Pieces per set	Thickness	Weight
2	1 - 1,5 - 2mm	10,2 Kg

Serrated-edges leaf inlaying tool MX700

Reference: 140-02-01-00055
Tooling for molding serrated-edges leaf 115x50mm.
For its use, it is required the die holder for cutting and shaping MX700. Ref. 140-02-02-00045 and cutting die Ref. 140-02-01-00052
For any other different designs, ask the manufacturer

Pieces per set	Thickness	Weight
2	1 - 1,5 - 2mm	16,4 Kg

Bifoliate leaf cutting die MX700

Reference: 140-02-01-00051
Die for cutting bifoliate leaf shaped 70x65mm.
For its use, it is required the die holder for cutting and shaping MX700. Ref. 140-02-02-00045
For any other different designs, ask the manufacturer

Pieces per set	Thickness	Weight
2	1 - 1,5 - 2mm	10,5 Kg

Bifoliate leaf inlaying tool right MX700

Reference: 140-02-01-00053
Tooling for molding bifoliate leaf 70x65mm, right.
For its use, it is required the die holder for cutting and shaping MX700. Ref. 140-02-02-00045 and cutting die Ref. 140-02-01-00051
For any other different designs, ask the manufacturer

Pieces per set	Thickness	Weight
2	1 - 1,5 - 2mm	17,3 Kg

Bifoliate leaf inlaying tool right left MX700

Reference: 140-02-01-00054
Tooling for molding bifoliate leaf 70x65mm, left.
For its use, it is required the die holder for cutting and shaping MX700. Ref. 140-02-02-00045 and cutting die Ref. 140-02-01-00051
For any other different designs, ask the manufacturer

Pieces per set	Thickness	Weight
2	1 - 1,5 -2mm	17,3 Kg

Technical annex

Hydraulic punching machine MX700

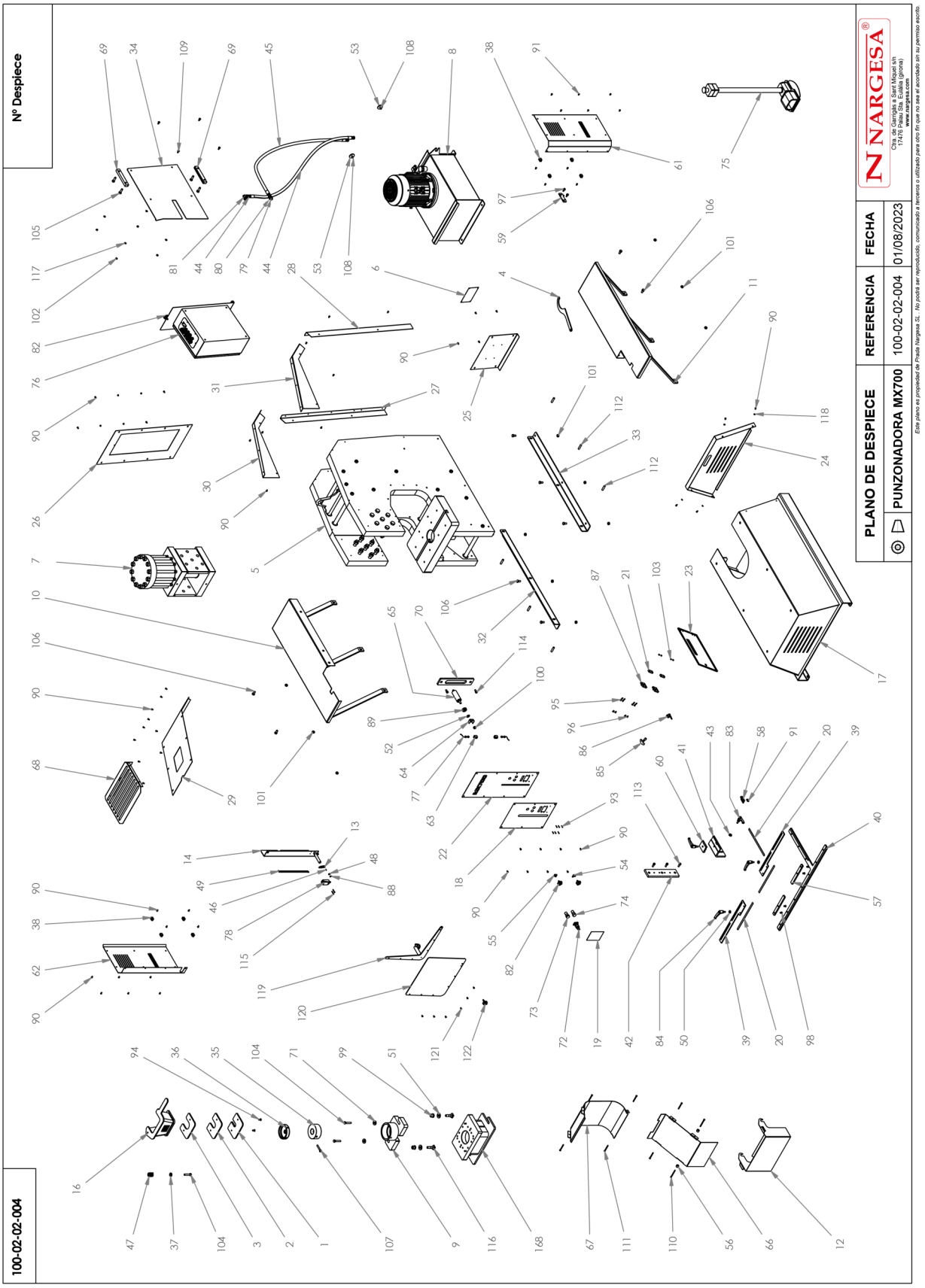
List of parts

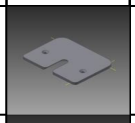
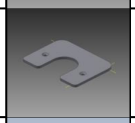
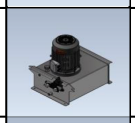
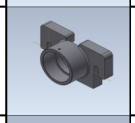
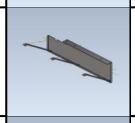
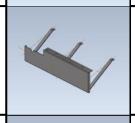
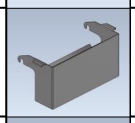
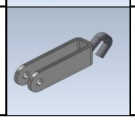
Hydraulic map

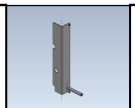
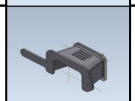
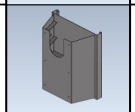
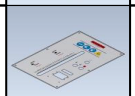
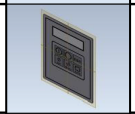
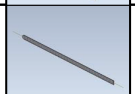
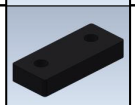
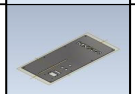
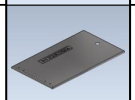
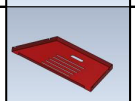
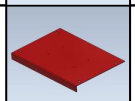
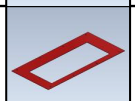
Electric maps · THREE PHASE MACHINE

Electric maps · SINGLE PHASE MACHINE

A1. List of parts



Elemento	Miniatura	Nº de pieza	Descripción	CTDAD
1		140-02-02-00022	GRUESO EXTRACTOR D20	1
2		140-02-02-00021	GRUESO ESTRACTOR D50	1
3		140-02-02-00020	GRUESO ESTRACTOR D70	1
4		140-02-02-00006	Llave Gancho Con Uña 125 MX700	1
5		130-02-02-00050	Conjunto Estructura Principal MX700	1
6		122-PLC-0000-001	Placa Caracteristicas General	1
7		130-02-02-00051	CONJUNTO PINSTÓN HIDRAULICO	1
8		130-02-02-00028	GRUPO HIDRAULICO MX700	1
9		130-02-02-00033	MESA PUNZONADO	1
10		130-02-02-00026	MESA LATERAL IZQUIERDA	1
11		130-02-02-00025	MESA LATERAL DERECHA	1
12		130-02-02-00024	CAJON RECOGEDOR	1
13		130-02-02-00022	CONJUNTO HORQUILLA	1

14		130-02-02-00021	CONJUNTO SOPORTE PROTECCION	1
16		130-02-02-00017	ESTRACTOR	1
17		130-02-02-00036	ESTRUCTURA DE LA BASE	1
18		122-02-02-CAL-008	CALCA FRONTAL	1
19		122-02-02-cal-007	CALCA TECLADO MX700	1
20		122-02-02-CAL-005	REGLA TOPE	3
21		120-12-02-00125	GRUESO PUERTA	2
22		120-02-02-00335	PLACA FRONTAL	1
23		120-02-02-00331	PUERTA ACCESORIOS	1
24		120-02-02-00330	TAPA GRUPO HIDRAULICO	1
25		120-02-02-00329	TAPA TRASERA INFERIOR CUADRO ELECTRICO	1
26		120-02-02-00328	TAPA TRASERA CUADRO ELECTRICO	1
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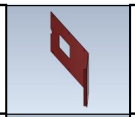
28		120-02-02-00326	LATERAL DERECHO TAPA CUADRO	1

29		120-02-02-00325	TAPA SUPERIOR	1
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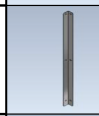
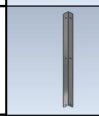
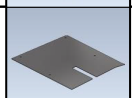
32		120-02-02-00322	ANGULO DE FIJACION IZQUIERDO	1
33		120-02-02-00321	ANGULO DE FIJACION DERECHO	1
34		120-02-02-00320	SOPORTE CUADRO ELECTRICO	1
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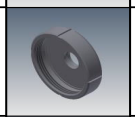
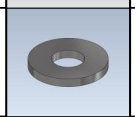
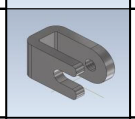
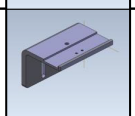
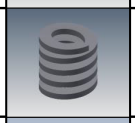
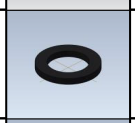
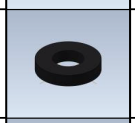
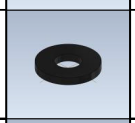
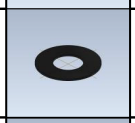
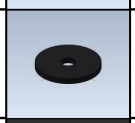
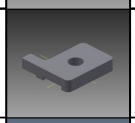
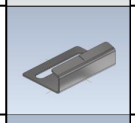
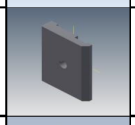
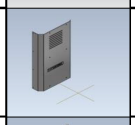
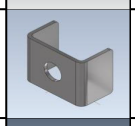
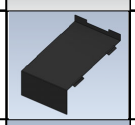
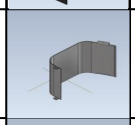
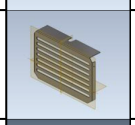
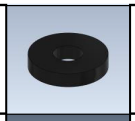
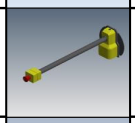
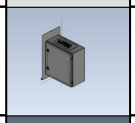
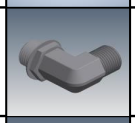
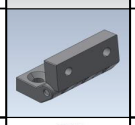
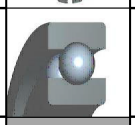
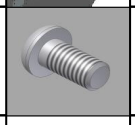
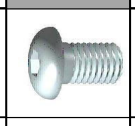
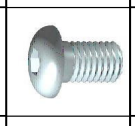
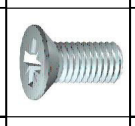
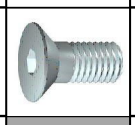
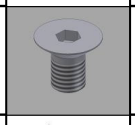
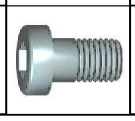
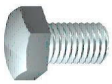
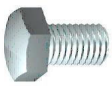
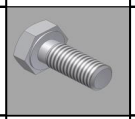
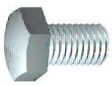
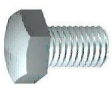
36		120-02-02-00312	TUERCA ACOPLAMIENTO PUNZON Ø28 TAP7-N28	1
37		120-02-02-00309	ARANDELA MUELLE ESTRACTOR D30XD12.5X4	1
38		120-02-02-00307	SOPORTE TAPAS LATERALES	8
39		120-02-02-00303	TOPE TRANSVERSAL	2
40		120-02-02-00302	TOPE POSICIONADOR FONDO	1
41		120-02-02-00301	SOPORTE VERTICAL TOPE	1
42		120-02-02-00300	GUIA VERTICAL TOPE	1

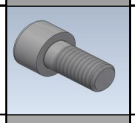
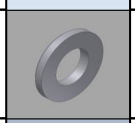
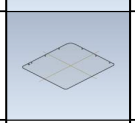
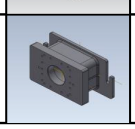
43		120-02-02-00290	ARANDELA FIJACION VERTICAL TOPE D25XD10.5X5	1
44		120-02-02-00284	MANGUERA FLEXIBLE 1/2" TUERCA GIRATORIA/TUERCA GIRATORIA DE 1800 mm	1
45		120-02-02-00283	MANGUERA FLEXIBLE 1/2" TUERCA GIRATORIA/TUERCA GIRATORIA DE 2100 mm	1
46		120-02-02-00282	EJE HORQUILLA TAPA	1
47		120-02-02-00281	MUELLE ESTRACTOR	1
48		120-02-02-00279	ARANDELA FIJACION PROTECCION D16xD10.2x2	1
49		120-02-02-00278	MUELLE PROTECCION	1
50		120-02-02-00269	ARANDELA DE GRUESO TOPE D22XD10.5X5	2
51		120-02-02-00268	ARANDELA MESA PUNZONADO D40XD16.5X6	2
52		120-02-02-00267	ARANDELA SEPARACION D27XD12.5X1	1
53		120-02-02-00266	ARANDELA FIJACION GRUPO HIDRAULICO D45XD10.5X5	2
54		120-02-02-00265	POSICIONADOR INFERIOR	1
55		120-02-02-00264	POSICIONADOR SUPERIOR	1
56		120-02-02-00262	SEPARADOR 16.5 PASANTE	2

57		120-02-02-00260	PASAMANO TOPE	2
58		120-02-02-00258	INDICADOR POSICION TOPE	1
59		120-02-02-00256	TOPE FIJACION ESPULSOR	1
60		120-02-02-00255	FIJACION TOPE	1
61		120-02-02-00237	TAPA FRONTAL DERECHA	1
62		120-02-02-00236	TAPA FRONTAL IZQUIERDA	1
63		120-02-02-00234	PIEZA PORTA INDUCTIVO	2
64		120-02-02-00233	POSICIONAMIENTO DEL VASTAGO	1
65		120-02-02-00232	EJE ANTIGIRO	1
66		120-02-02-00231	RAMPA CAIDA	1
67		120-02-02-00230	TAPA ESCOTE	1
68		120-02-02-00228	REJILLA SUPERIOR	1
69		120-02-02-00224	GUIA CUADRO ELECTRICO	2
70		120-02-02-00022	GUIA ANTIGIRO	1

71		120-02-01-00017	ARANDELA D35XD13X8	2
72		050-SLL-00001	Selector Llave 2 Posiciones. Rb2Bg2	1
73		050-PL-00002	Piloto De D22 mm 24Vac Blanco	1
74		050-PL-00001	Piloto De D22 mm 24Vac Rojo	1
75		050-PED-002	PEDAL SIMPLE CON PARO DE EMERGENCIA	1
76		050-KIE-0202-002		1
77		050-IND-00001	Detector Inductivo Diell M8 Npn-1030Vd	2
78		050-FC-XCKP	FINAL DE CARRERA	1
79		040-RMM-00004	Racor 1/2" Macho Macho	1
80		040-JMG-00001	Junta Metal Goma 1/2' Gas	1
81		040-CGMM-00001	CODO ORIENTABLE MACHO-MACHO 1/2"	1
82		031-POMM-00002	POMO MACHO ESTRELLA MATE Ø28 M6X10	3
83		031-MAG-00002	MANETA GRADUABLE MACHO M10x25	2
84		031-MAG-00001	MANETA GRADUABLE MACHO M10x20	2

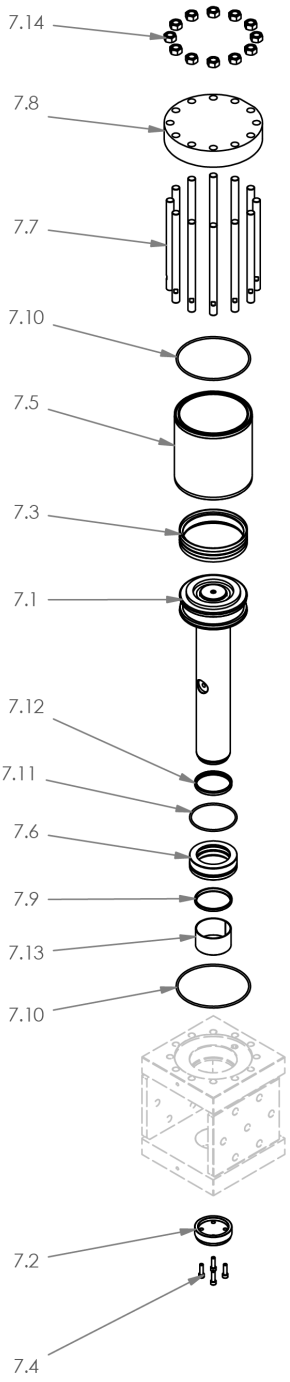
85		031-LLT-00001	LLAVE PARA CIERRE TRIANGULO DE 8 FLOTANTE NIQUELADA	1
86		031-CLT-00001	CIERRE DE LENGÜETA CON TRIANGULO 8 M20	1
87		031-BP-00001	BISAGRA DE PLASTICO 30 ENTRE CENTROS	2
88		030-D471-00001	Circlip de Eje DIN 471 D10	1
89		030-CJ-00015	Rodamiento De Bolas 6301 D12XD37X12	1
90		020-I7380-M6X12	Tornillo Allen Abombado ISO7380 M6X12	50
91		020-I7380-M6X10	Tornillo Allen Abombado ISO 7380 M6X10	10
92		020-I7380-M6X6	Tornillo Allen Abombado ISO7380 M6X6	4
93		020-I7046-1Z-M3X20	Tornillo Cabeza Conica Philips M3x20 Zincado	6
94		020-D7991-M8X20	TORNILLO ALLEN AVELLANADO DIN7991 M8X20	2
95		020-D7991-M6x30	Tornillo Allen DIN 7991 M6X30	4
96		020-D7991-M6X12	Tornillo Allen Avellanado DIN7991 M6X12	4
97		020-D6921-M8X20	TORNILLO HEXAGONAL CON BRIDA M8X20	2
98		020-D6912-M8X12	TORNILLO ALLEN CABEZA REDUCIDA DIN 6912 M8 X 12	4

99		020-D6331-M16	TUERCA ALTA CON ALA M16 DIN 6331	2
100		020-D985-M12	Tuerca Autoblocante DIN 985 M12	1
101		020-D934-M12	Tuerca DIN 934 M12	12
102		020-D934-M8	TUERCA HEXAGONALI DIN934 M8	4
103		020-D934-M6	Tuerca Hexagonal DIN934 M6	4
104		020-D933-M12X60	TORNILLO DIN 933 M12X60	3
105		020-D933-M12X40	TORNILLO HEXAGONAL DIN 933 M12x40	4
106		020-D933-M12X25	Tormillo Hexagonal DIN933 M12X25	10
107		020-D933-M10X65	TORNILLO HEXAGONAL DIN 933 M10x65	1
108		020-D933-M10X25	TORNILLO HEXAGONAL DIN 933 M10X25	2
109		020-D933-M8X16	TORNILLO HEXAGONAL DIN 933 M8x16	4
110		020-D933-M6X80	TORNILLO HEXAGONAL DIN 933 M6X80	2
111		020-D933-M6X65	Tornillo Hexagonal DIN 933 M6X65	6
112		020-D913-M12X50	ESPARRAGO ALLEN DIN 913 M12X50	6

113		020-D912-M10X25	Tornillo Allen DIN912 M10X25	3
114		020-D912-M10X20	Tornillo Allen DIN912 M10X20	2
115		020-D912-M4X30	TORNILLO ALLEN DIN 912 M4x30 PAVONADO	2
116		020-D787-00003	TORNILLO T DIN 787 M16 REGATA 18 ALTURA 63	2
117		020-D125B-M8	Arandela Biselada DIN125B Para M8	4
118		020-D125B-M6	ARANDELA BISELADA DIN125B PARA M6	4
119		130-02-02-00032	CONJUNTO SOLDADURA PROTECCION FRONTAL	1
120		120-02-02-00271	PROTECCION FRONTAL	1
121		020-I7380-M6X10	Tornillo Allen Abombado ISO 7380 M6X10	6
122		031-POMM-00003	POMO MACHO ESTRELLA MATE D40 M8X20	1
168		130-02-02-00034	MESA INTERMEDIA	1

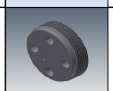
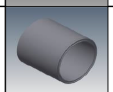
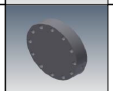
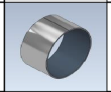
A2. Hydraulic cylinder exploded view

100-02-02-004	Nº Despiece

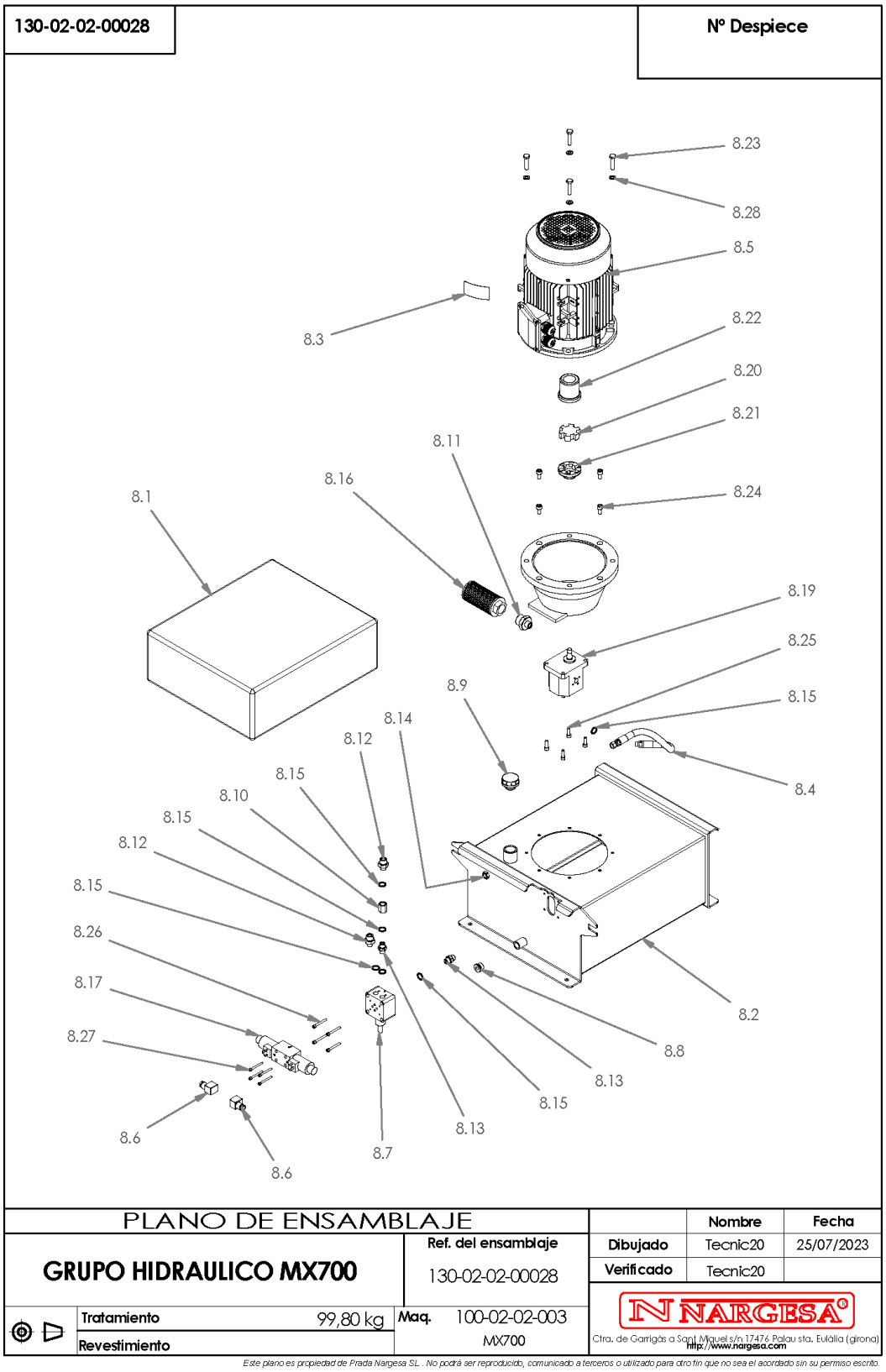


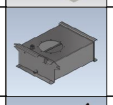
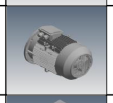
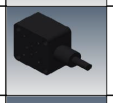
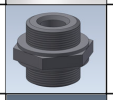
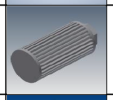
PLANO DE DESPIECE	REFERENCIA	FECHA
PUNZONADORA MX700	100-02-02-004	01/08/2023

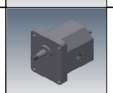
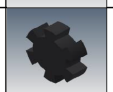
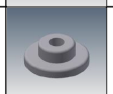
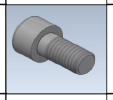
NARGESA®
Ctra. de Garrigàs a Sant Miquel s/n
17476 Palau Sta. Eulàlia (girona)
www.nargesa.com

Elemento	Miniatura	Nº de pieza	Descripción	CTDAD
7.1		130-02-02-00035	CONJUNTO VASTAGO	1
7.2		120-02-02-00216	ACOPLAMIENTO ROSCADO	1
7.3		040-DPS-00004	JUNTA DPS D200XD180X31.5	1
7.4		020-D912-M10X35	TORNILLO ALLEN DIN912 M10X35	4
7.5		120-02-02-00226	CAMISA CILINDRO	1
7.6		120-02-02-00217	Dolla Cierre Vástago	1
7.7		120-02-02-00205	VARILLA CILINDRO	12
7.8		120-02-02-00203	TAPA SUPERIOR CILINDRO	1
7.9		040-RAS-00001	RASCADOR 100X110X7/10	1
7.10		040-JT-00008	JUNTA TORICA D208.92X5,34 90 Shore	2
7.11		040-JT-00004	JUNTA TORICA D130X5 90 Shore	1
7.12		040-BA-00001	COLLARIN 100x110x11.4	1
7.13		030-DP-00002	DOLLA PARTIDA D100XD105X60	1
7.14		020-D934-M22	TUERCA DIN 934 M22	12

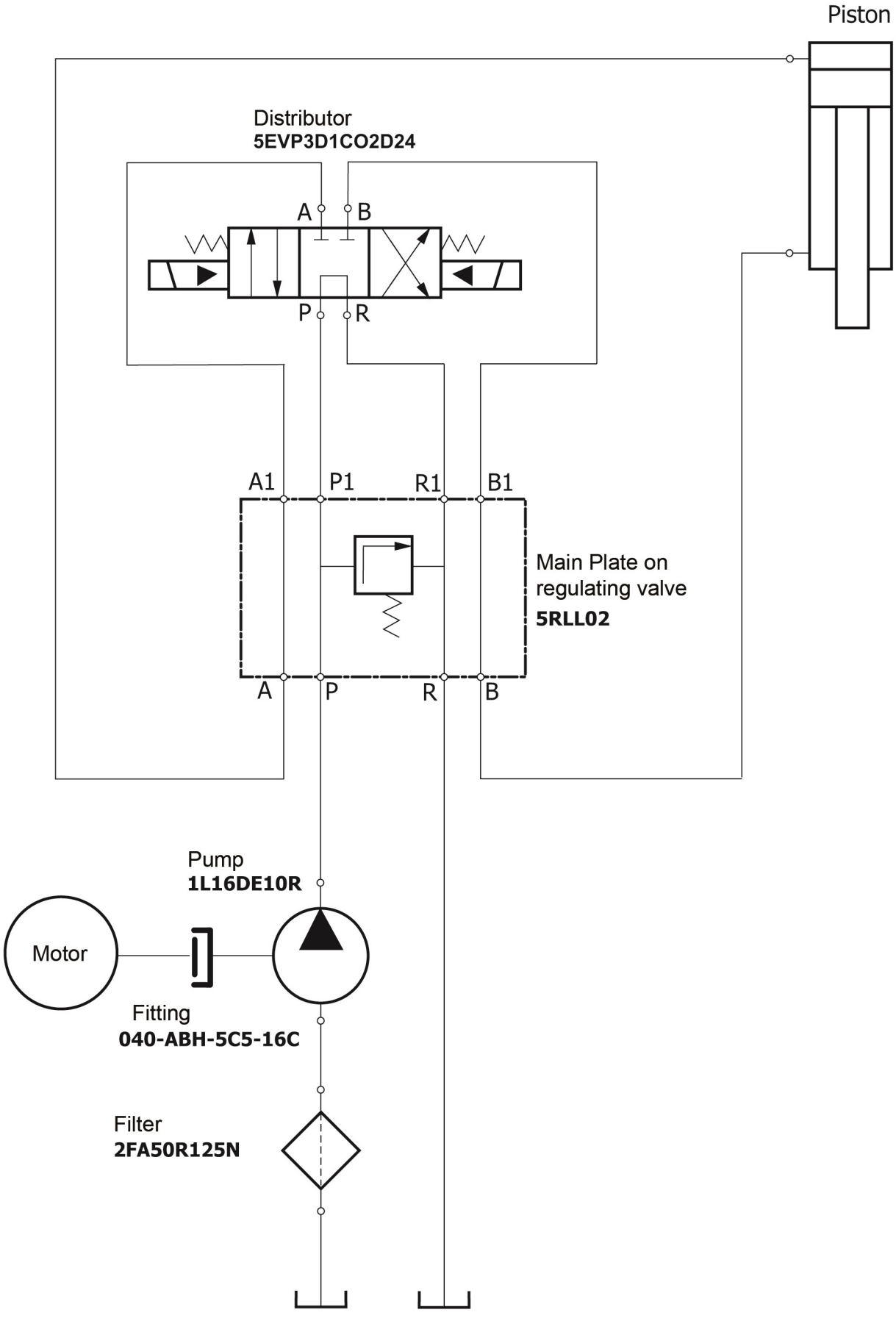
A3. Exploded view of the hydraulic group



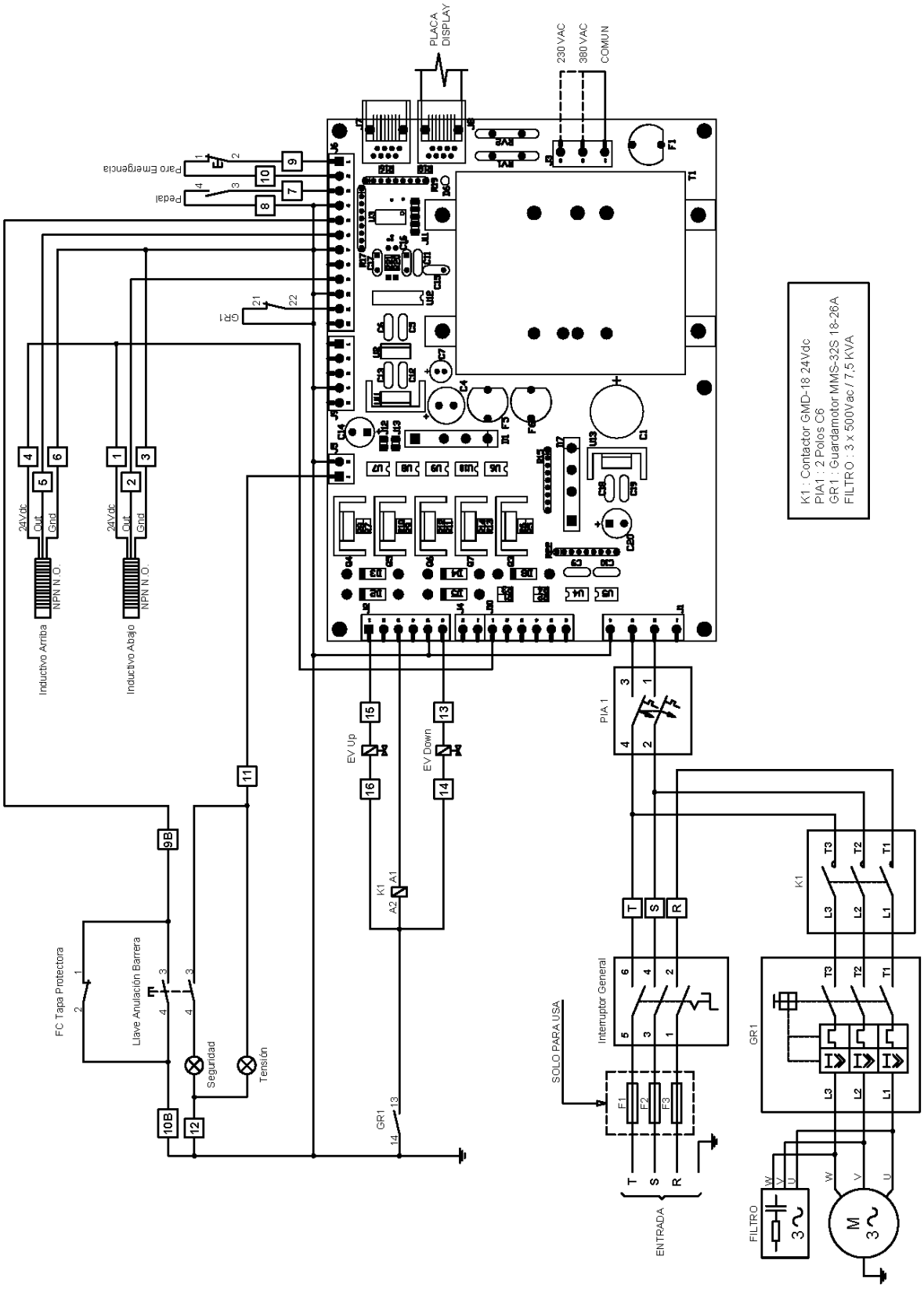
Elemento	Miniatura	Nº de pieza	Descripción	CTDAD
8.1		ACEITE MX700	ACEITE HIDRAULICO MX700 48 LITROS	1
8.2		130-02-02-00029	DEPOSITO GRUPO HIDRAULICO	1
8.3		122-ADH-00007	Calca Sentido de Giro	1
8.4		120-02-02-00285	MANGUERA DEPOSITO 3/8" MACHO/HEMBRA GIRATORIA LONG 430 mm	1
8.5		050-ME-00021	Motor Electrico 5.5 Kw 1500 Rpm 50-60Hz 240/400V IE3 B5	1
8.6		050-CEV-24V	CONECTOR ELECTROVALVULA 24 V	2
8.7		040-VLP-00002	Valvula Limitadora Presion 5Rll02P2F/03 -T210 tarada a 210 Bares	1
8.8		040-TVA-00001	Tapon Allen 1/2'	1
8.9		040-TLL-00001	Tapon De Llenado 1' Con Filtro	1
8.10		040-SHF-00001	SUPLEMENTO HEMBRA FIJO 3/8	1
8.11		040-RRMM-00009	Racor Reducido 1'-1/2' Macho Macho	1
8.12		040-RRMM-00004	Racor Reducido 1/2-3/8 Macho Macho	2
8.13		040-RMM-00003	Racor 3/8" Macho Macho	2
8.14		040-NA-00001	Visor Nivel Aceite De 3/8' Gas	1
8.15		040-JMG-00004	Junta Metal Goma 3/8' Gas	6
8.16		040-FL-00003	Filtro De Aspiracion 1'	1
8.17		040-ELV-00012	Electrovalvula Doble Bobina 5EVP3D1C02D24	1

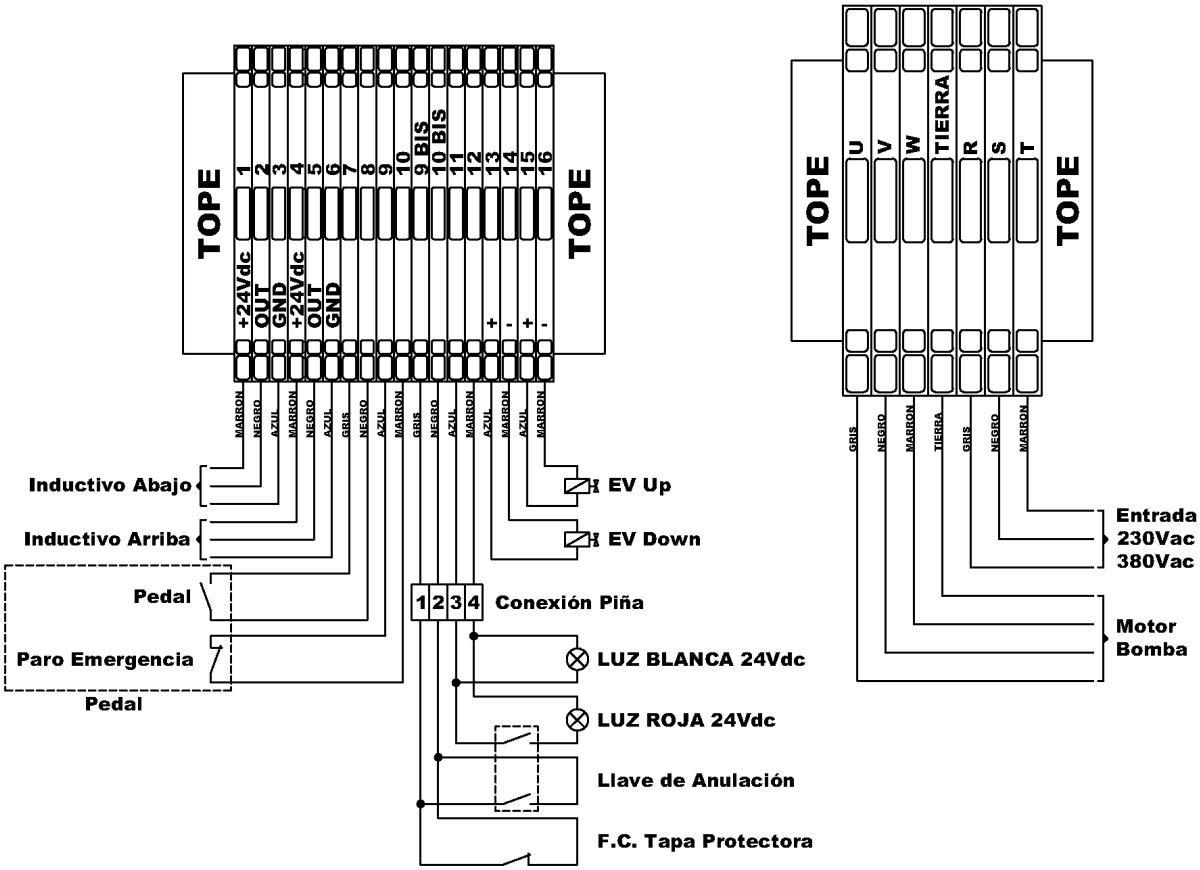
8.18		040-CA-00001	Campana Acoplamiento Bomba Tipo L Motor 7.5/10/12	1
8.19		040-BH-00003	Bomba Hidraúlica 16 Litros Carcasa Aluminio	1
8.20		040-AE-00004	Estrella Acoplamiento 7.5/10/12 Cv	1
8.21		040-AE-00003	Acoplamiento Lado Bomba Tipo L 7.5/10/12 Cv	1
8.22		040-AE-00002	Acoplamiento Lado Motor 7.5/10/12 Cv	1
8.23		020-D931-M10X45	TORNILLO HEXAGONAL DIN 931 M10x45 PAVONADO	4
8.24		020-D912-M10X20	Tornillo Allen DIN912 M10X20	4
8.25		020-D912-M8X25	TORNILLO ALLEN DIN 912 M8 x25	4
8.26		020-D912-M6X50	TORNILLO ALLEN DIN912 M6X50	4
8.27		020-D912-M5X50	Tornillo Allen DIN912 M5X50	4
8.28		020-D125B-M10	Arandela Biselada DIN125B Para M10	4

A4. Hydraulic map

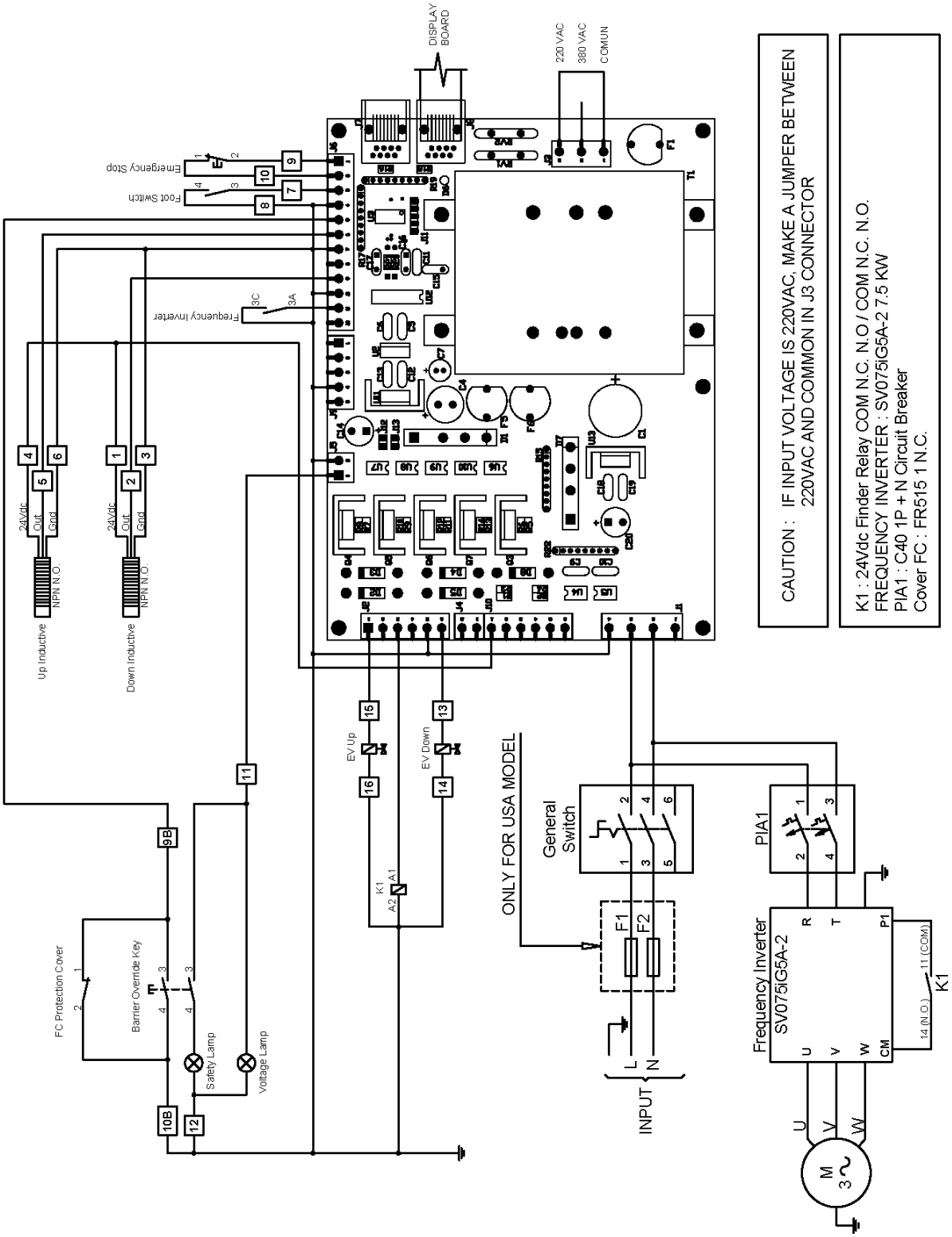


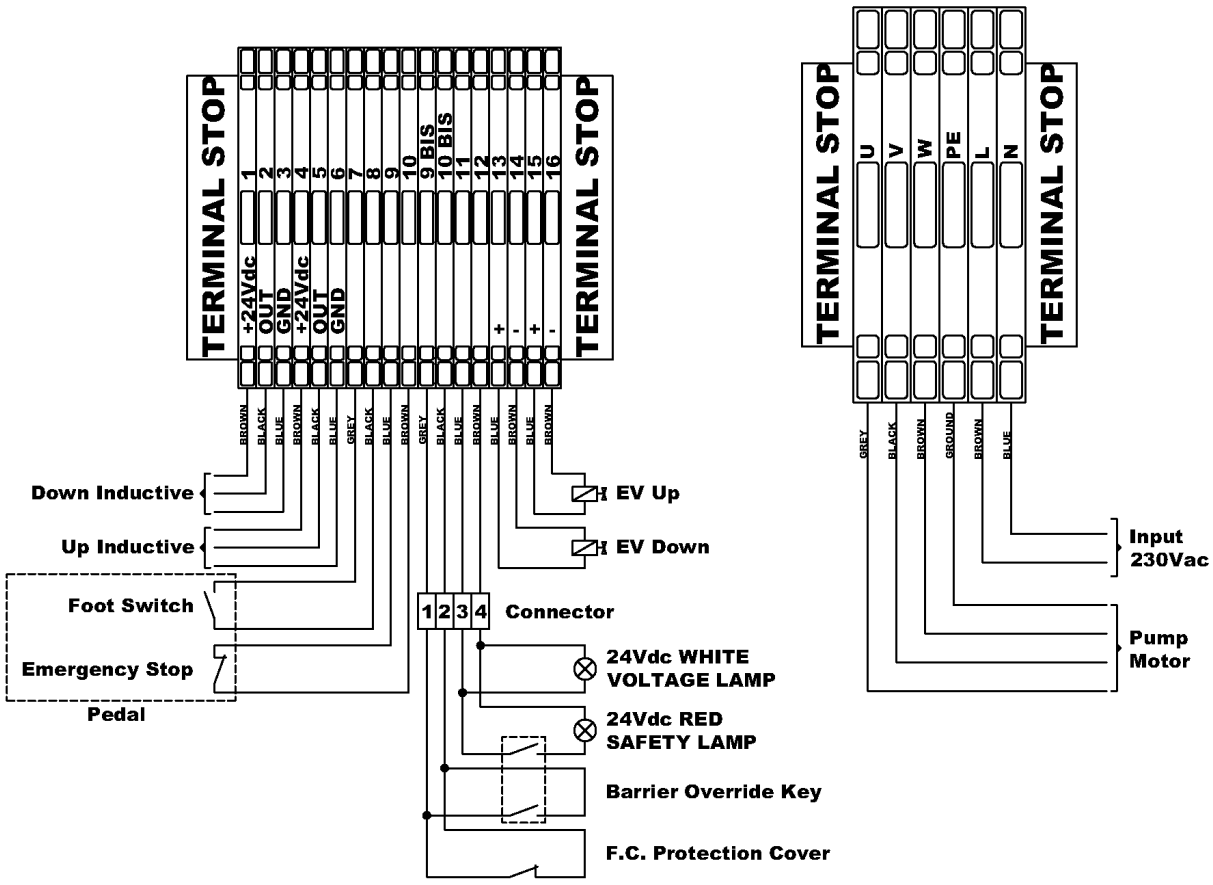
A5. Electric maps · THREE PHASE MACHINE




TOPE
1
2
3
4
5
6
7
8
9
10
9 BIS
10 BIS
11
12
13
14
15
16
+24Vdc
OUT
GND
+24Vdc
OUT
GND
+
-
+
-
TOPE
MARRON
NEGRO
AZUL
MARRON
NEGRO
AZUL
GRIS
NEGRO
AZUL
MARRON
GRIS
NEGRO
AZUL
MARRON
MARRON
AZUL
MARRON
Inductivo Abajo
Inductivo Arriba
Pedal
Paro Emergencia
Pedal
EV Up
EV Down
1 2 3 4
Conexión Piña
LUZ BLANCA 24Vdc
LUZ ROJA 24Vdc
Llave de Anulación
F.C. Tapa Protectora
TOPE
U
V
W
TIERRA
R
S
T
TOPE
GRIS
NEGRO
MARRON
TIERRA
GRIS
NEGRO
MARRON
Entrada
230Vac
380Vac
Motor
Bomba

A6. Electric maps · SINGLE PHASE MACHINE




TERMINAL STOP
1
2
3
4
5
6
7
8
9
9 BIS
10 BIS
11
12
13
14
15
16
+24Vdc
OUT
GND
+24Vdc
OUT
GND
+
-
+
-
TERMINAL STOP
BROWN
BLACK
BLUE
BROWN
BLACK
BLUE
GREY
BLACK
BLUE
BROWN
GREY
BLACK
BLUE
BROWN
BLUE
BROWN
BLUE
BROWN
Down Inductive
Up Inductive
Foot Switch
Emergency Stop
Pedal
EV Up
EV Down
1 2 3 4
Connector
24Vdc WHITE
VOLTAGE LAMP
24Vdc RED
SAFETY LAMP
Barrier Override Key
F.C. Protection Cover
TERMINAL STOP
U
V
W
PE
L
N
TERMINAL STOP
GREY
BLACK
BROWN
GROUND
BROWN
BLUE
Input
230Vac
Pump
Motor

OUR RANGE OF MACHINERY

IRON WORKERS

SECTION BENDING MACHINES

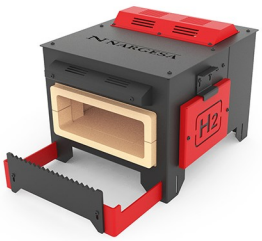
NON-MANDREL PIPE BENDER

HORIZONTAL PRESS BRAKE

TWISTING/SCROLL BENDING MACHINES

HYDRAULIC PRESS BRAKES

HYDRAULIC SHEAR MACHINES



GAS FORGES

IRON EMBOSSING MACHINES

END WROUGHT IRON MACHINES

BROACHING MACHINES

POWER HAMMERS

PRESSES FOR LOCKS