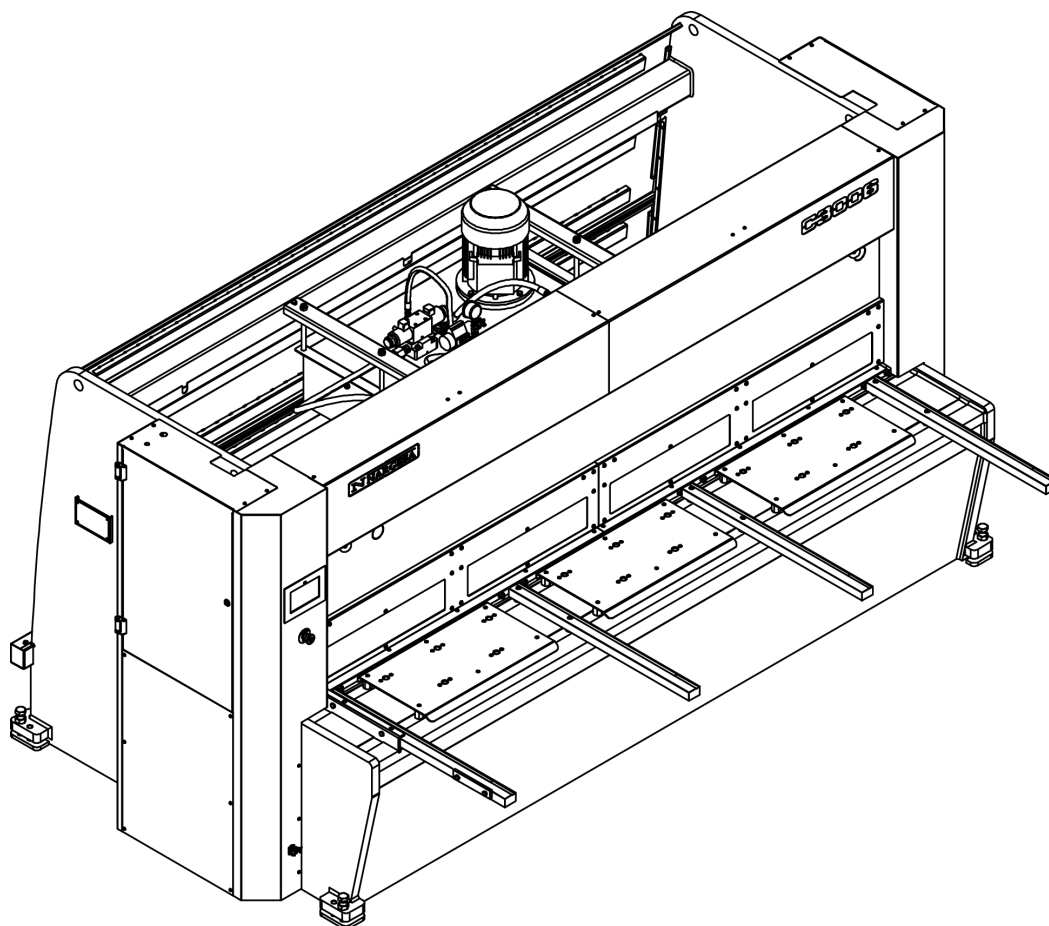


HYDRAULIC SHEAR

C3006CNC

NS: 2021-165



INSTRUCTIONS BOOK

PRADA NARGESA, S.L

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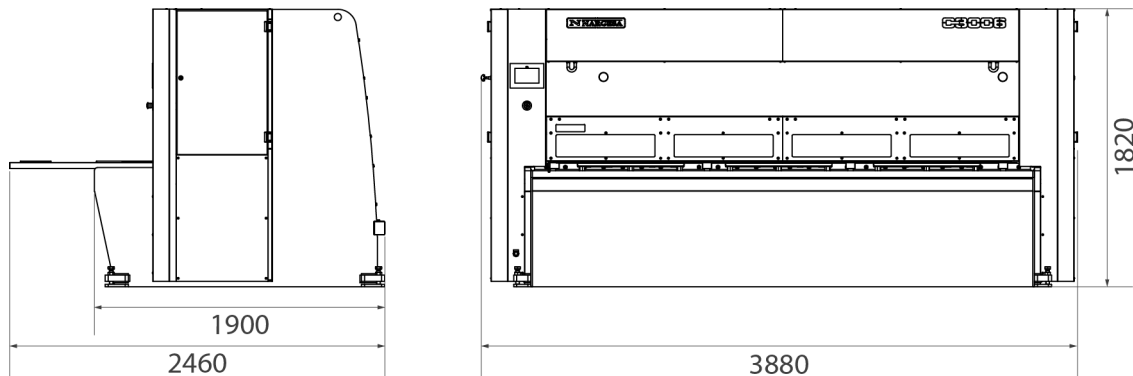
TECHNICAL ANNEXES

1. CHARACTERISTICS OF THE MACHINE

1.1. Identification of the machine

Trademark	Narges
Type	Hydraulic shear
Model	C3006

1.2. General dimensions



Picture 1. External dimensions of the machine

1.3. Description of the machine

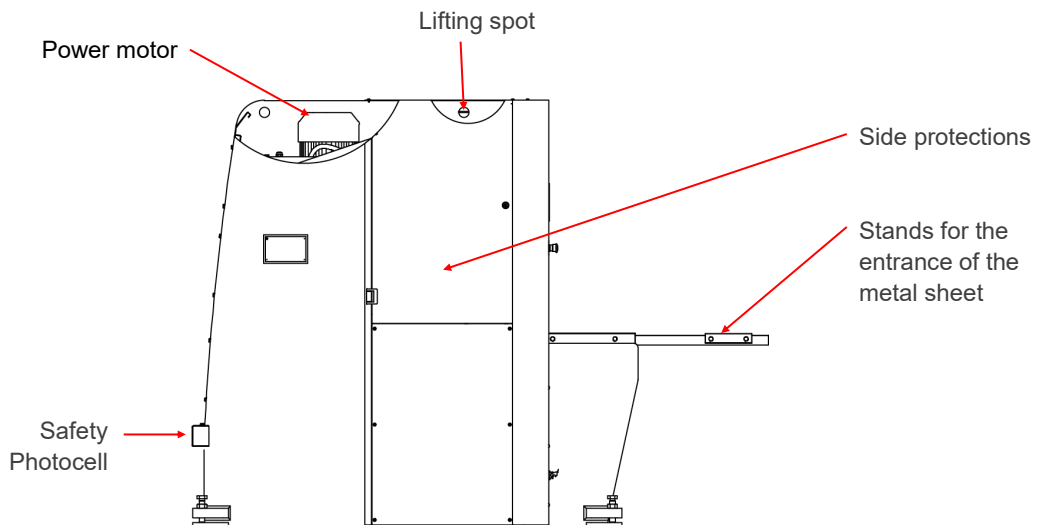
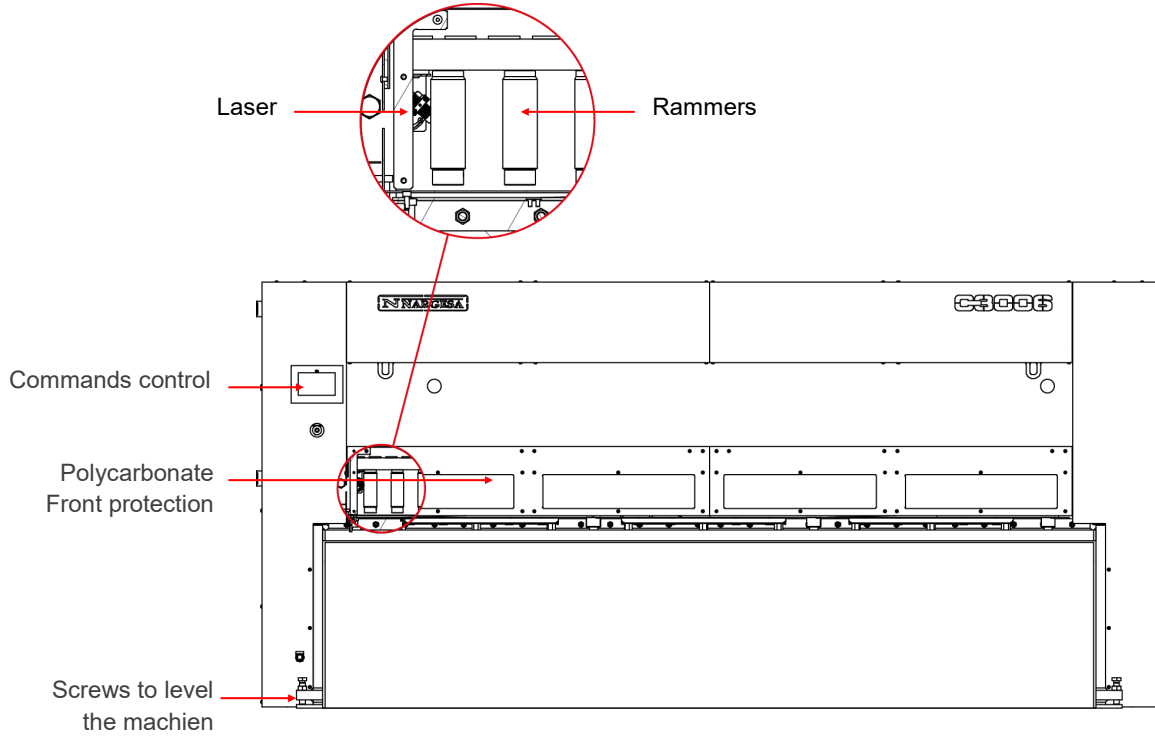
The guillotine C3006, has been designed specifically for cutting metal sheets.

The manufacturer will not take any responsibility for the damages caused to the machines or the operatives using it at any other operation different from the ones previously specified.

The C3006 is according to the European regulations and normative for the manufacturing of machinery.

PRADA NARGESA S. L is not liable for any damage that might occur due to misuse or failure by users to comply with the safety standards.

1.4. Identification of the machine





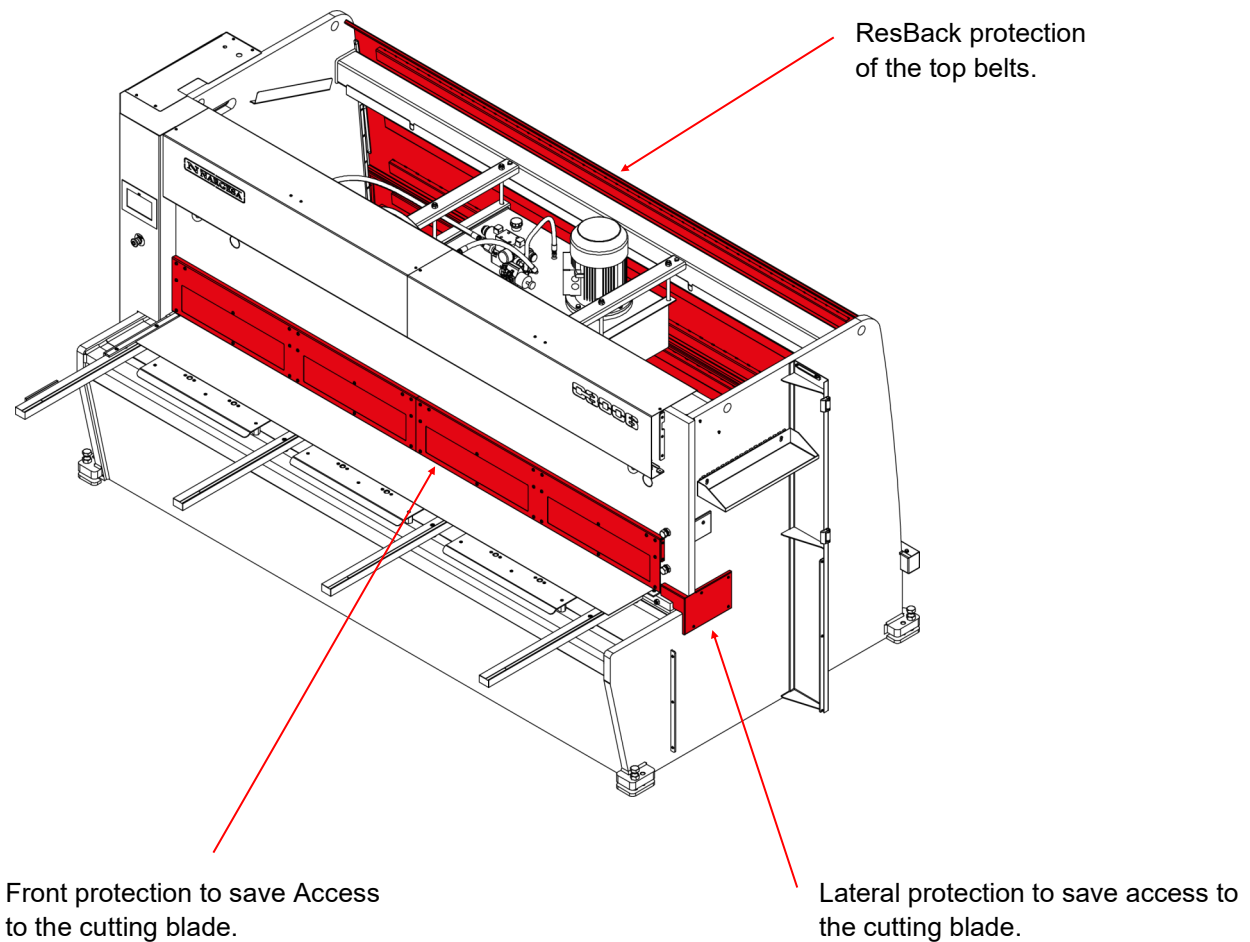
Picture 2. Nameplate

1.5. General features

Engine power	9,6 KW / 12,87CV
Tension	230/400V Three-Phase
Cutting Capacity: mild steel	6 mm
Cutting capacity: stailless steel	4 mm
Nº of hammers	15 units
Cutting length	3030 mm
Neck	173 mm
Gauge displacement	700 mm
Strokes per minute	12 strokes
Position accuracy and repeatability	+/- 0,1 mm
Dimensions	3880x2460x1820 mm
Weight	7500 Kg

1.6. Description of safety devices

The fixed safety devices the guillotine C3006 has are lateral to avoid any handling, the front protection avoids from acceding to the rammers side, Protections in the back side of the machine covering the belts and pulley of the back top, the outlet ramp for the material and the upper protection cover of the piston moveable part.



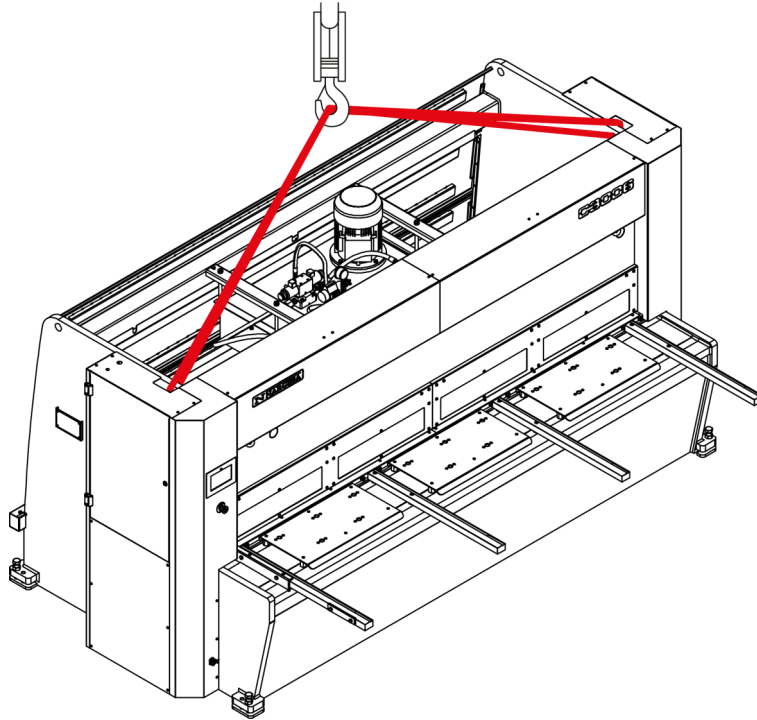
Picture 3. Safety devices

Protection covers must not be removed to do the maintenance works. This job must be carried out by highly qualified technicians. **PRADA NARGESA** will not accept any responsibility for the damages caused by not bearing in mind to what has been previously exposed on this book.

2. TRANSPORTATION AND STORAGE

2.1. Transportation

The lifting of the machine will be carried out by a crane, using the clamping points indicated for that. The machine will be never lifted by any other side but the indicated one.



Picture 4. Transportation of the machine

2.2. Storage conditions

The machine will not be stored in a place that hasn't got the following requirements:

- * Humidity between 30% and 95% without water condensation.
- * Temperature from -25 to 55°C or 75°C for a length of time not exceeding 24h (these must be considered storage conditions)
- * It is advisable not to pile up machines or heavy objects on top of it

3. MAINTENACNE

3.1. General maintenance

The maintenance of the Shear implies four operations:

- Oil change
- Lubrication of bolts
- Lubrication of the guides
- Lubrication of the gauge spindles

3.1.1. Oil change

The oil container level must be checked every 1000 hours of work.

The oil level sight-glass is located at the side of the tank. If oil needs to be added, fill until the sight-glass is completely full.

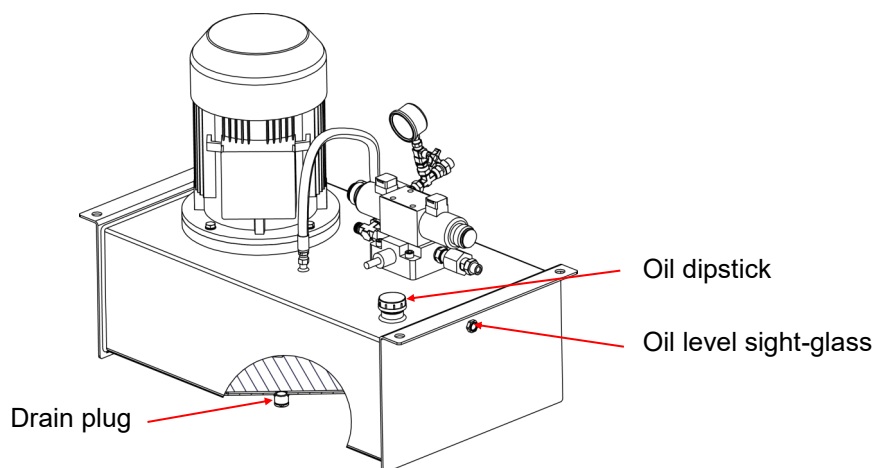
Replace the hydraulic oil container every 4000 hours of work or 60 months.

Container capacity: 96 liters.

Oil: CEPESA HYDRAULIC HM 68

WARNING: Stop the machine to make the maintenance.

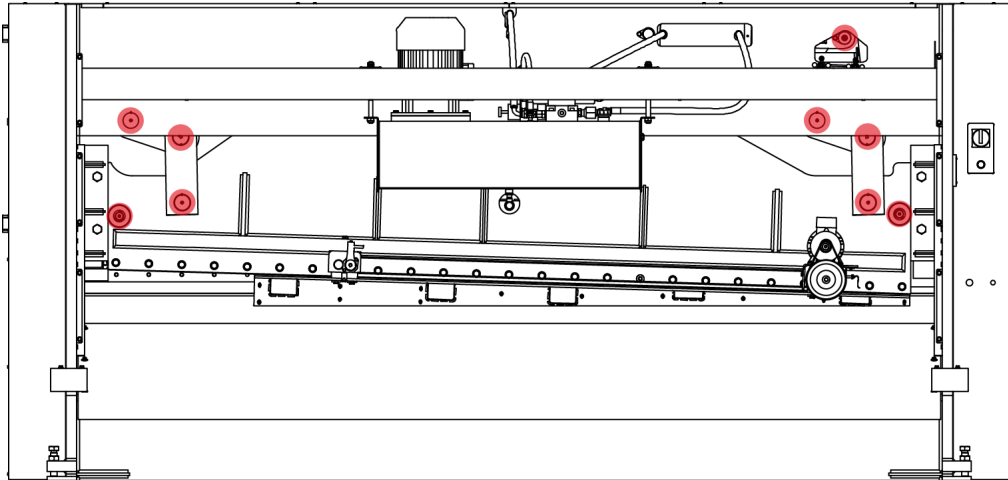
Once the oil has been changed, it is necessary to start up the machine and activate the pedal in intermittance by increasing the pressure time gradually until the circuit is full.



3.1.2. Lubrication of bolts

To carry out the maintenance in the later grease points of the machine, we put the folding group down to its lowest point. **We stop the machine** and proceed to the lubrication in the indicated points.

- 🕒 Grease up the bolts periodically according to the level of use.
If it is a steady and daily use, they must be greased every month.

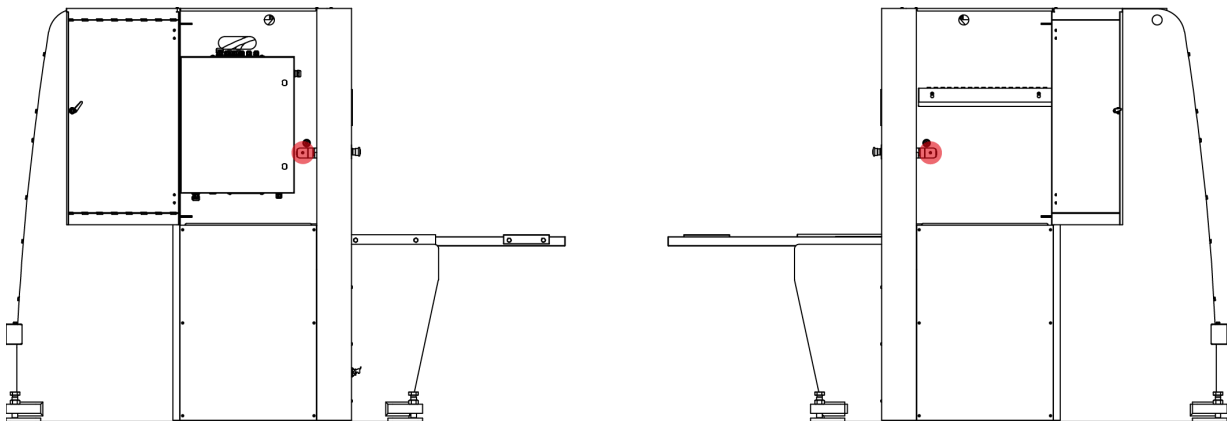


Rear view of the machine

3.1.3. Lubrication of the guides

In order to attain the maintenance in the lateral lubrication points of the machine, we raise the folding group to its highest point. **We stop the machine** and proceed to the lubricate the indicated parts.


- 🕒 Lubricate all guides greasers every month.

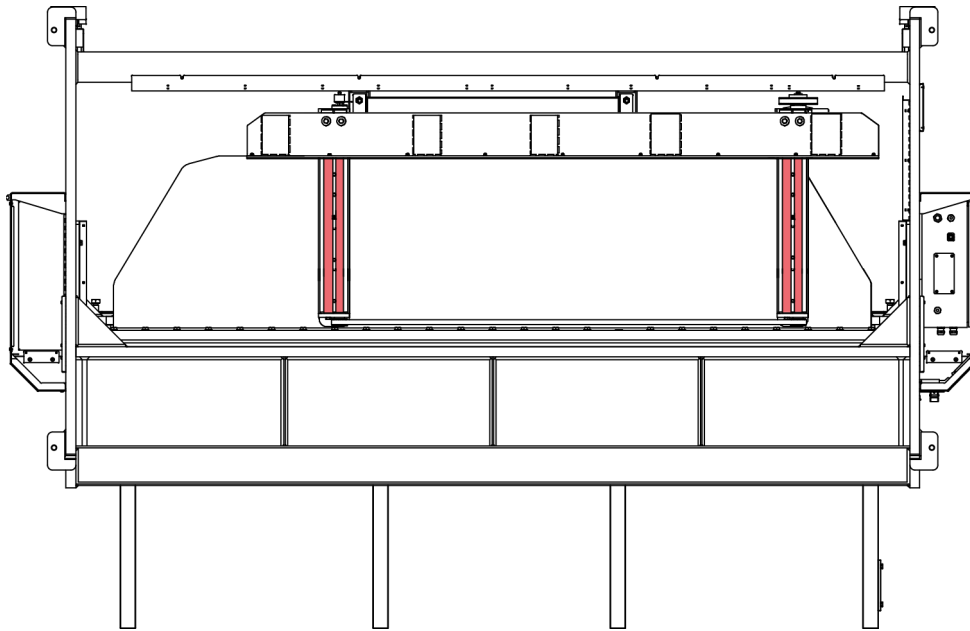


Side view of the machine

3.1.4. Lubrication of the gauge spindles

To lubricate the gauge spindles, we place it in its position farthest from the folding group. **We stop the machine** and proceed to lubricate the 2 spindles and the 2 guides. We put the machine in gear and place the gauge at its minimum height, then move it to its maximum height. Repeat these movements 2 or 3 times, until the grease covers the spindles uniformly.

 Lubricate the top spindles weekly with grease or oil.

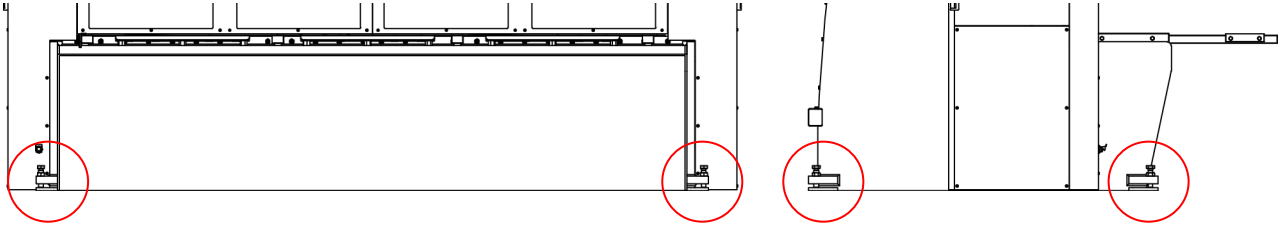


Lower view of the machine

4. INSTALLMENT AND START UP

4.1. Location of the machine

The machine will be placed properly so that it doesn't have to be moved, in case this was not possible then it is necessary to follow the rules described in the Transport section. It must be placed on a flat and levelled surface to avoid vibrations and any sort of movement while it's performing. It is possible to level the machine by using the screws at the bottom of the machine, at each corner.

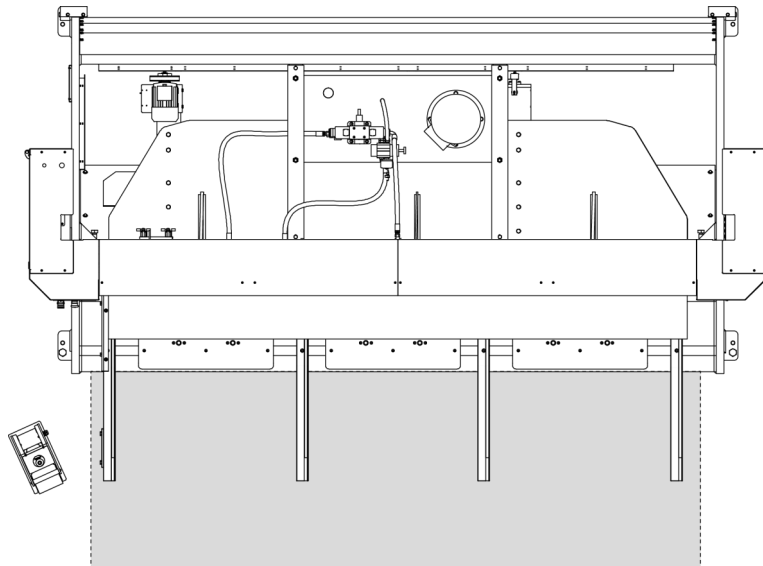


Picture 5. Anchor points of the machine

4.2. Dimensions and working site

The dimensions of the machine are to be considered when the machine is put down, as well as the operative working zone and the possible different sizes of the part to be worked.

The machine will be only used by one operative, who will be located at the front side of the machine and never in a lateral of it since he has to keep control over the whole set of the machine, moreover the main protection devices are designed for the frontal use of it.



Picture 6. Working site

4.3. Admissible outer conditions

It is advisable to work under the following atmospheric conditions:

- Room temperature between +5 °C and +40 °C without exceeding an average temperature of +35 °C within 24 hrs
- Humidity between 30% and 90% without water condensation

4.4 Connection to power supply

The C2006 shears are equipped with two three-phase 230/400 V motors: a 0.37 kW motor for the gauge, and a 5.5 kW star-connected motor which requires a single 240V or 400V power supply. If the line voltage is not as indicated, then the motor coil connection and the gauge motor variable frequency drive (VFD) connection shall be changed. The gauge VFD is NOT A MULTI-VOLTAGE VFD, so if the voltage needs to be changed, then the VFD should be replaced accordingly.



Picture 7. Change of engine connections

IMPORTANT

This machine must be connected to a power supply with ground wire.

5. HANDLING BOOK

5.1. Introduction

This manual is designed for the user of the Guillotine C3006, since it has got important information about the use of it and the peculiar features of the machine. Therefore it is advisable to follow step by step the points detailed in this book so a good understanding of its performance could be achieved.

5.2. Control panel



5.3. Feeding of the guillotine

In order to power on the machine, it is enough just by set the Go switch in the position of Connected. Then it will show up as below on screen as the one below:

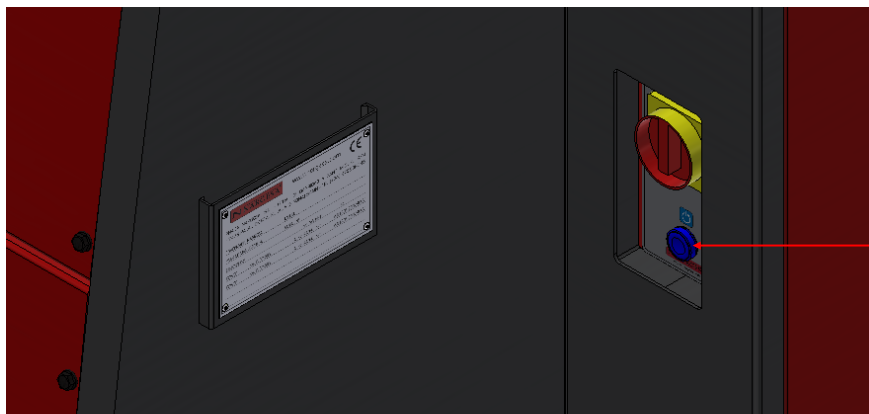


Picture 8. Message of activation of the machine



Right now the machine is in a StandBy mode, it happens when it is activated but in rest position awaiting any command the user orders.

5.4. Activating the machine

Press the reset button located in the electrical panel. This reset button must be pressed each time the machine is turned on, and after an emergency stop has been initiated by the photocell or by the emergency stop button.



Once the shears have started up and are in Stand-by mode, they are activated following the steps below in order to start operations.

To proceed properly press  . If the power source has recently been connected, the X and Y axes need to be synchronised by pressing  .

The machine will automatically synchronise the axes, after which the previous message disappears and the following is displayed:




The following message will appear once the Homing cycle has finalised.




Cuts can be done manually from this point on by simply entering the information on the required cut. To input the cut measurements, press the corresponding button and the following screen will appear.



Enter the gauge dimensions required using the number keys and then press **SET** . Next, follow the same procedure to enter the cut length, material and thickness data and press  . The machine will then position the X-axis at the required location and the following screen will appear.



The operational system (continuous or single) can also be selected during the manual mode, as can be observed in the previous image. The manual mode is selected by default.

The mode can be changed simply by pressing 

The single operational mode works in the following way:

The blade is lowered while the operator presses down on the pedal. If the pedal is released, the blade reverses and is raised until it reaches the upper rest position.

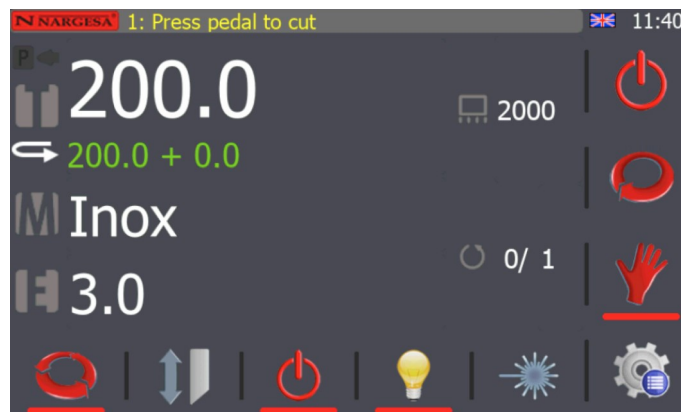
To cut a sheet in this operational mode, the pedal is pressed down until the blade moves to the lowest position of the vertical cut. Once in this position, the sheet has been cut and the blade has reached the base. However, the blade will not be raised until the operator releases the pedal. If the operator releases the pedal, the blade will move vertically until it reaches the upper rest position.




The continuous operational mode works in the following way:

The pedal can be pressed and released in this operational mode. Once the pedal is pressed, the blade moves to the lower vertical position, cutting the sheet. It is then raised automatically until it reaches the upper rest position. The blade will stay in this position until the pedal is pressed again. If various cuts need to be made at the same position, simply press the pedal and keep it pressed as long as required. In this case, the cuts will be made sequentially, and the operator simply enters the sheets to be cut into the machine.

The cut counter will increase by one each time the pedal is pressed, or each time the shear blade makes a cut and returns to the upper position if operating in continuous mode.

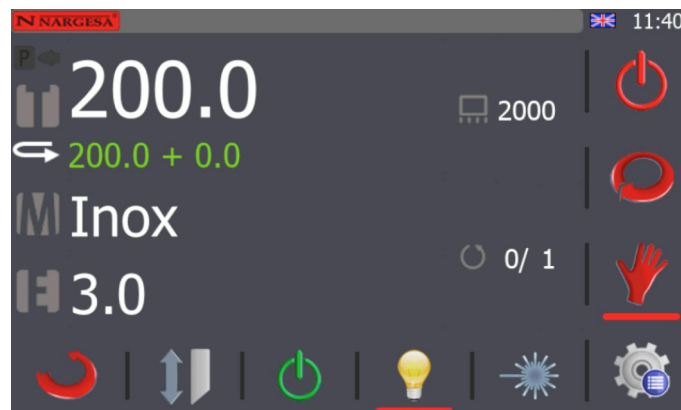


5.5. Gauge retraction

The gauge retraction is mainly used to prevent the sheets from being damaged when they are cut. This function can be activated by pressing . The image will change to white, indicating that the function has been enabled. The function is disabled by pressing (X) again, and the image will go back to being transparent.

Once activated, the machine will behave as follows:

After entering all the cut data and activating this function.



The gauge retraction can be enabled in both single and continuous mode.

The hold-down plates are lowered by pressing the machine pedal. Once the sheet is fixed in place between the hold-down plates and the machine table, the gauge will retract a few millimetres. Next, the blade is lowered and cuts the sheet. In this way the sheet is not subjected to unnecessary friction during the cutting operations and the sheet can be released so it can fall to the extraction ramp by gravity. Once the cut has been made, the machine will order the blade and the hold-down plates to be raised. Once the blade is in the rest position, the gauge will automatically return to the programmed position.

This function can be enabled or disabled in both the manual (single and continuous) and automatic modes.


5.6. Light

The cutting area has an LED light to significantly improve visibility when operating the machine.


Press the  button to turn it on.

The light bulb icon is activated when doing so, as shown in the following screen shot.



Press the  button to turn the light off.

5.7. Laser

The laser line is activated by pressing . The laser light is turned on and generates a laser cutting line. The laser is very useful for cutting parts that are not square, or when making cuts that do not reach the end position.

Press the  button to turn the laser off.

5.8. Calculator

The calculator tool is very useful when complex calculations need to be done that can affect the sheet cutting dimensions for example. Press the **Calc** button to activate it.



Once the required calculations have been done, the resulting value can be confirmed as the new cutting dimension by pressing the **SET** key.

The result is now displayed on the main operating screen.



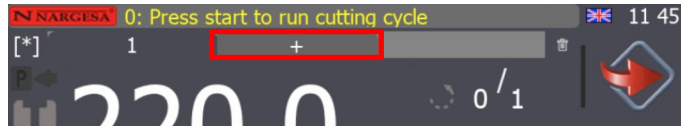
5.9. Automatic mode

Press the **Auto** key that appears on the screen to active automatic mode. On doing so, the information displayed on the screen changes.



Automatic mode is similar to manual mode, with the option of specifying various operational steps with different cut dimensions. These specifications are saved within a program.


A program only contains one step by default when it is created, but more steps can be added by selecting the following tab:

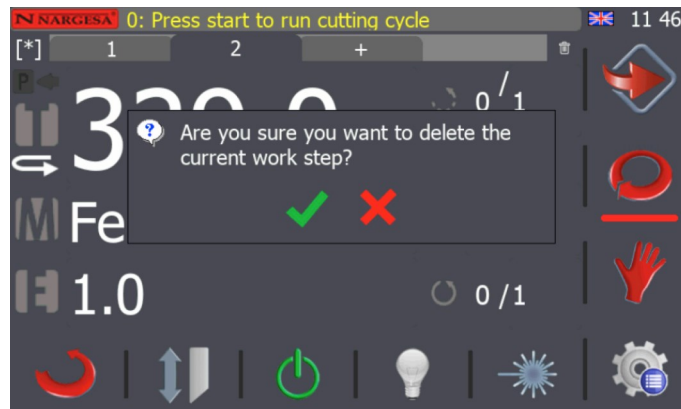




By doing so a screen appears with a new step and a new cut dimension (0.0 by default) which can be modified and set to the desired value. An example is displayed in the following figure:




Follow the same procedure to add more steps.

To remove a step, first select it by clicking on the corresponding tab. Then press the  icon which is displayed in the top right corner of the window. The information on the screen changes to the following:




Confirm the command to delete the current step by pressing  or cancel the operation by pressing .

If we want to do several cuts with the same dimensions, then we can specify the number of repetitions required instead of creating several successive steps with the same dimensions. To do so, press

 0 / 1 and specify the number of repetitions for the current step.



We can also specify the number of repetitions for the current program. To do so press

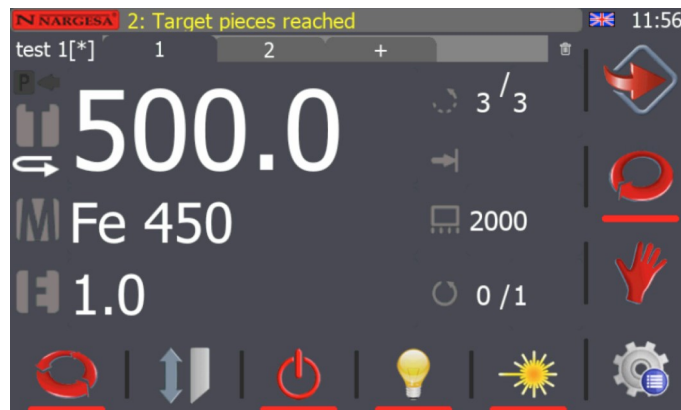
 0 / 1 and specify the number of repetitions for the program.

Once we are satisfied with the program created, it needs to be saved. To do so, press [*] and the on-screen keyboard appears, as shown below




Enter the program number and press the **Enter** button to confirm.

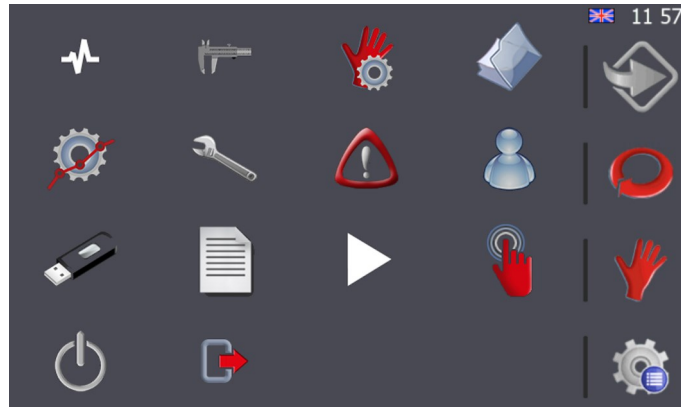
We can now operate in automatic mode with the program created beforehand. The hydraulic pump needs to be activated in order to do so, by pressing the  button. Then start the cycle by placing the gauge at the cut dimension defined for the current step. This is done by pressing the  button. When the gauge is in position, press the cutting pedal as instructed on screen. The machine will start to do the first 500 mm cut as specified in step 1. Then it will move on to step 2. After pressing down the pedal it will make the specified cuts and continue the sequence up to the end of the program. A message will then appear on the screen noting that the part has been finished.




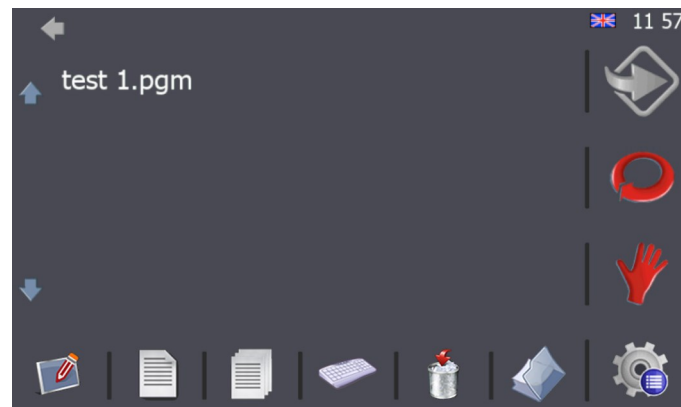
5.10. Program management



Numerical control of the shears allows multiple programs to be defined which can be used in automatic mode. These programs are saved in the memory and can be loaded, changed and deleted when required.







Press the  button to access the program management screen. The shear menu screen appears when doing so.



The program management menu is selected by pressing the  button. The following window will appear:




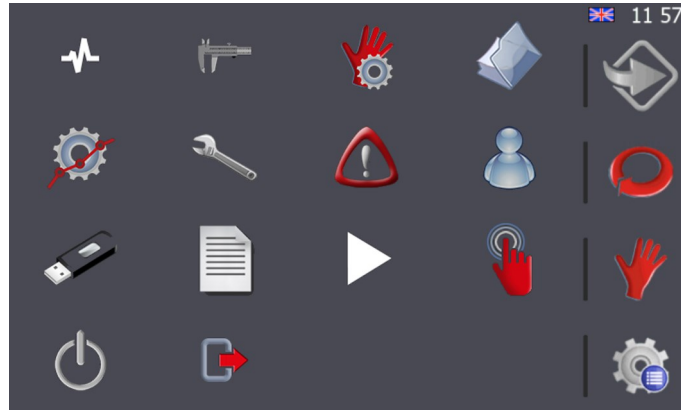
The information is displayed as a list of existing programs (use the  and  arrows to navigate through the list), and management icons which are located at the bottom of the screen. The corresponding functions are described below.


-  Create a new program.
-  Edit the selected program.
-  Create a copy of the selected program and save it with a different file name.
-  Rename the selected program.
-  Delete the selected program.
-  When it has been activated, the system operates using folders, not programs.

5.11. Gauge adjustment


The shear gauge is adjusted perfectly at the factory. However, over it time the gauge may need to be re-adjusted. This happens when there is a difference between the size of the part created and the specified cut dimensions.

Press the  button to adjust the gauge. A menu window appears on the screen with the following diagram.




Now press the  button to access the gauge management window which is shown below.

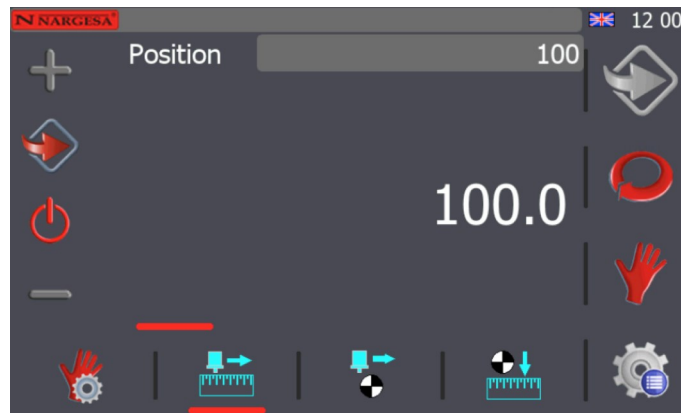


We should select the following icon  from those displayed at the bottom of the screen.

On doing so, the information displayed on the screen changes to the following.




At this point, enter a value for the cut dimension that can be measured easily. 100 mm is a good option for example. Then, press the  button to position the gauge at the specified location.



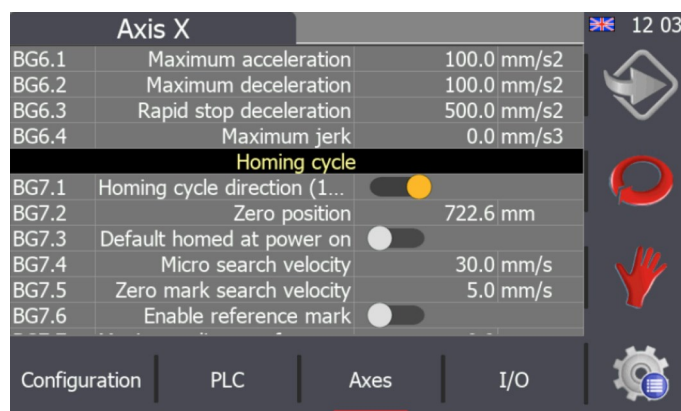
Next, use vernier callipers or a screw gauge to check that the distance between the gauge and the cut line marked out by the laser beam is 100 mm (or the value that was entered in the previous step).

If the measured distance is greater than the specified level, then this difference should be added to the gauge “Zero Position”. If the distance is less than the specified level, then the difference should be subtracted.

For example, if we have specified a cut level of 100 mm and the actual measurement is 102.4 mm, 2.4 mm should be added to the gauge “Zero Position”. If, however the actual distance measured is 99.3 mm, subtract 0.7 mm from the gauge “Zero Position”.

This information can then be used to correct the gauge “Zero Position”. To do so, press the  button again and when the menu window appears, press .

The window displayed is as follows:



Select the “Axes” option from this window. Once selected, look for the line displayed below.

BG7.2	Zero position	722.6 mm
-------	---------------	----------

Select the level that has been set as the homing cycle zero position and add or subtract the difference obtained in the previous step. In this case the resulting level is that displayed below.

Axis X			12 04
BG6.1	Maximum acceleration	100.0 mm/s ²	
BG6.2	Maximum deceleration	100.0 mm/s ²	
BG6.3	Rapid stop deceleration	500.0 mm/s ²	
BG6.4	Maximum jerk	0.0 mm/s ³	
Homing cycle			
BG7.1	Homing cycle direction (1...)	<input checked="" type="checkbox"/>	
BG7.2	Zero position	723.200 mm	
BG7.3	Default homed at power on	<input type="checkbox"/>	
BG7.4	Micro search velocity	30.0 mm/s	
BG7.5	Zero mark search velocity	5.0 mm/s	
BG7.6	Enable reference mark	<input type="checkbox"/>	
Configuration PLC Axes I/O			

Repeat the same process to check that the new zero-gauge position is correct.

5.12. Blade adjustment

The blades are adjusted perfectly at the factory; however, they may need to be replaced after numerous cutting operations due to wear. In order to ensure efficient cutting, the blades must be adjusted accordingly once they have been changed. Follow the procedure detailed in the corresponding section to do so, after enabling the blade adjustment mode.

During this operating mode, the upper blade is lowered when the pedal is pressed. When the pedal is released, the blade stays in the same position. The pedal can therefore be used to lower the upper blade in a controlled way, and it can be adjusted as required once in position.


The blade adjustment mode can be accessed from both the manual and automatic operating modes. To do so, press the button. On doing so, the icon changes to , indicating that the machine is in the blade adjustment mode.

Once the blades have been adjusted, press the button again to disable the blade adjustment mode and return to the standard operating mode .

Note that on doing so, the shears automatically return to the previous position by raising the upper blade up to the maximum machine opening position.

5.13. Lateral length of the cut

The maximum lateral length of a cut to be made on a sheet is specified at the factory and cannot be changed, as this parameter is implicitly related to the machine structure and dimensions. However, the width or lateral length of a cut can be specified within these minimum and maximum levels.

This parameter can be changed in both manual and automatic operating modes and is identified with the  icon. Press the numerical value displayed on the right and the following window will appear:



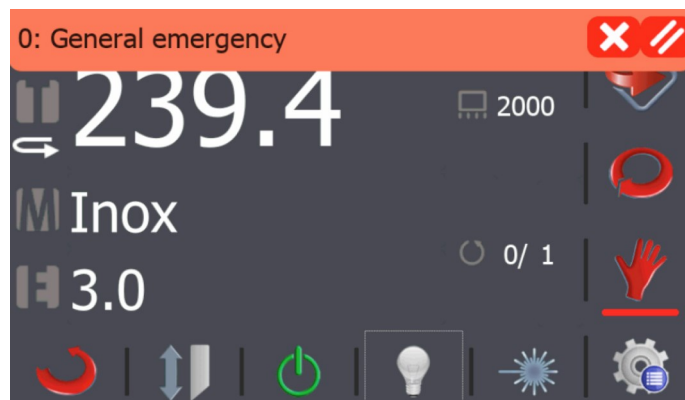
Now enter a new width value for the side of the sheet, between the minimum of 0 and the maximum lateral measurement specified at the factory.


By changing this value, the upper shear blade will only be lowered to the position required to cut the sheet at the specified width, thereby reducing the vertical displacement of the machine to the minimum amount required.

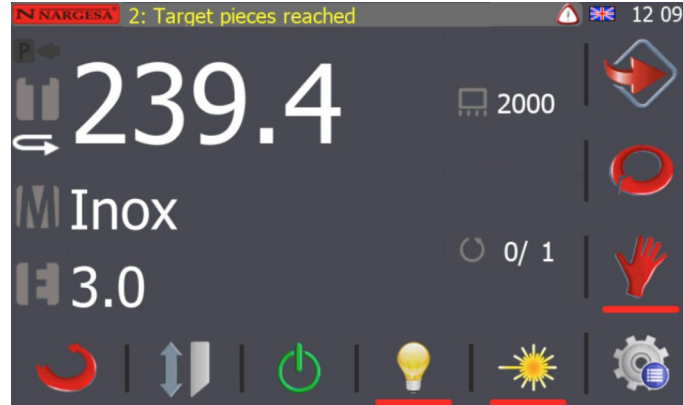
The advantage of this is that it reduces the time to make each of the sheet cuts, optimising the operations in an efficient way.

5.14. General emergency

The shears have two emergency stop buttons: one on the front, below the control touch screen, and another in the area above the cutting pedal. When one or both of the buttons are pressed, the machine stops immediately. The following pop-up message appears on the screen during an emergency stop situation.



The hydraulic pump and gauge movement are stopped in order to prevent any potential hazards. Once the situation returns to normal and the emergency stop buttons are released, this message can be removed by pressing . The pop-up window will then disappear, but a warning icon will appear in the upper right corner of the screen, similar to the one displayed below.

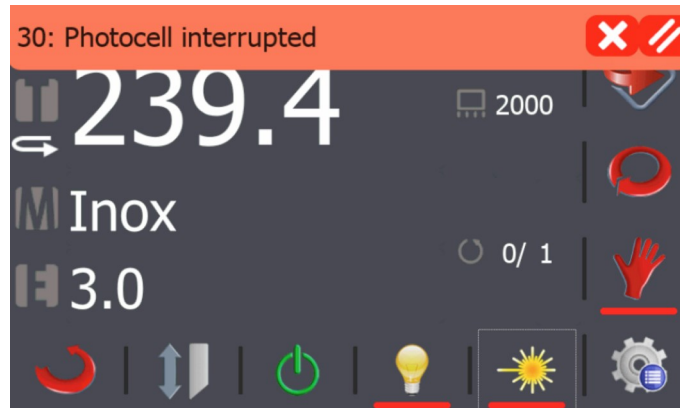


The machine cannot start operating again while this icon is present. The warning triangle indicates that the shears need to be reset, as a safety precaution. To do so, press the blue reset button and the warning icon will be removed from the notifications bar.





5.15. Photocell interruption

A safety photocell is located at the back of the machine to prevent hazardous situations such as accessing the gauge when the shears are in operation. Under such a situation, the photocell is interrupted and an emergency stop is carried out, which automatically stops the pump and the gauge movement. A pop-up window will also be displayed on the screen as shown below.





This warning message details the cause of the emergency situation, and the message alternates every few seconds with the general emergency message.

We can also remove the pop-up message by pressing  but as with the general emergency situation, the warning icon  is displayed in the notifications bar to the right until the blue reset button is pressed. On doing so, the aforementioned icon will disappear, and the shears can return to normal operations.

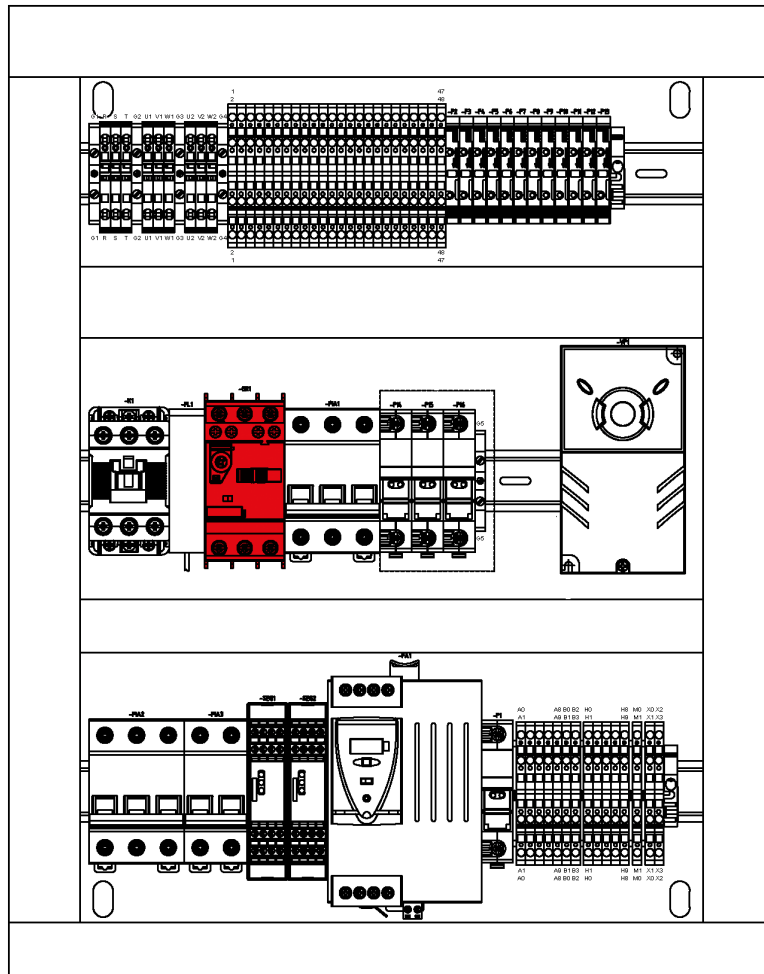
5.16. Pump thermal protection

The hydraulic pump has a thermal protection element to prevent motor damage due to overheating. A pop-up message is displayed on the screen when the thermal protection has been activated.



This message warns that the pump thermal protection needs to be reset before operating the shears. As with the previous two situations, press  to remove the message. The warning icon  will be displayed in the notifications bar to the right until the pump thermal protection is manually reset.

Given the nature of the message, the blue reset button does not need to be pressed in this case; the shears will be ready to operate once the pump thermal protection located inside the machine electrical panel is reset.



5.17. Alarm management

A new entry is recorded in the alarm log whenever there is an emergency situation due to an emergency stop, photocell interruption, the pump thermal protection is activated, or whenever there is a problem with the shear operations.

The details of each of the alarms related to the shear operations can be checked in the history log.

Press the  button to do so and then  when the menu window appears.

Category	Code	Alarm	Date
PLC alarms	30	Photocell interrupted	26/4/2001 12:11:17
PLC alarms	0	General emergency	26/4/2001 12:11:16
PLC alarms	0	General emergency	26/4/2001 12:8:29
PLC alarms	30	Photocell interrupted	26/4/2001 9:36:24
PLC alarms	0	General emergency	26/4/2001 9:36:23



from To Category
26 / 4 / 2001 26 / 4 / 2001 All

The machine alarm log can be viewed in this screen, and they can be filtered by date and category in order to create a detailed list of each of the incidents.

Category	Code	Alarm	Date
PLC alarms	30	Photocell interrupted	26/4/2001 12:11:17
PLC alarms	30	Photocell interrupted	26/4/2001 9:36:24

from To Category
26 / 4 / 2001 26 / 4 / 2001 All

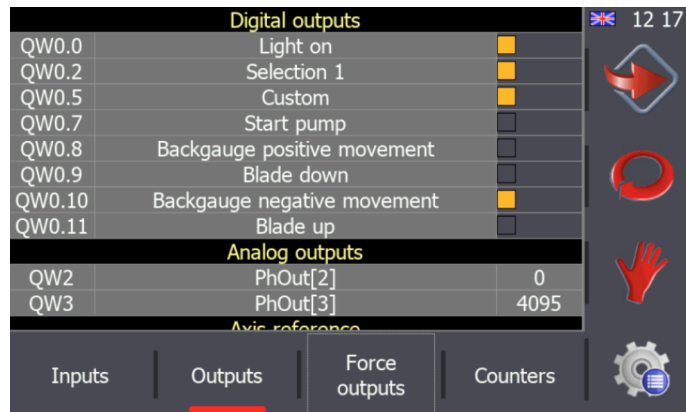
5.18. Input/output monitoring

The machine has a useful tool which can be used to monitor the status of each of the inputs and outputs to and from the shears, in order to carry out a self-diagnosis. Access the monitoring menu by pressing the  button and then the  icon.

Digital inputs		
IW0.0	Blade up switch	<input type="checkbox"/>
IW0.1	Blade down switch	<input checked="" type="checkbox"/>
IW0.2	Backgauge positive limit	<input checked="" type="checkbox"/>
IW0.4	Custom	<input type="checkbox"/>
IW0.6	Cutting pedal	<input type="checkbox"/>
IW0.7	Emergency	<input checked="" type="checkbox"/>
IW0.12	Custom	<input checked="" type="checkbox"/>
Analog inputs		
IW2	PhIn[2]	143
IW3	PhIn[3]	144
IW4	PhIn[4]	147
IW5	PhIn[5]	0

Inputs | Outputs | Force outputs | Counters



View the inputs to the shears in real time from this window.

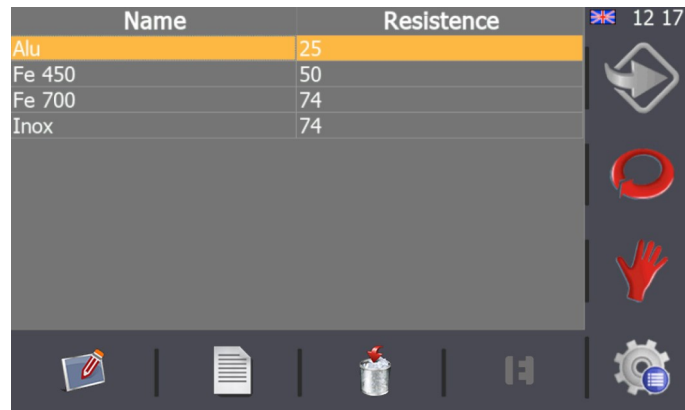


View the outputs from the shears in real time from this window.

5.19. Material management

The shears are able to cut various materials with different widths. They can all be defined in a specific table to manage them suitably.

Press the  button and then  when the menu window appears. On doing so the window below is displayed:



The shears are supplied from the factory with a standard materials table. Materials can be added, changed and removed from this table. Use the icons located at the bottom of the screen to do so.




Create a new material by specifying the name and its resistance.



The material name and resistance can be changed by selecting it from the table.



The selected material can be removed from the table.

Use  to access the table to manage the material selected.

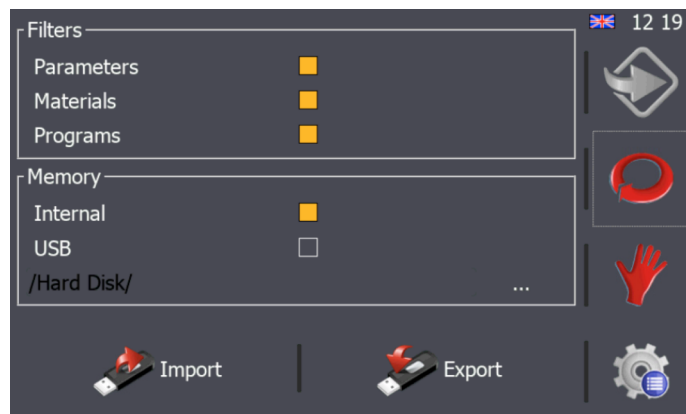
Alu			
Thickness	Blade Gap	Angle	Backgauge correction
0.70	0.10	0.2	0.0
1.00	0.10	0.2	0.0
1.20	0.10	0.2	0.0
1.50	0.10	0.2	0.0
2.00	0.10	0.2	0.0
2.50	0.10	0.2	0.0
3.00	0.10	0.2	0.0
4.00	0.10	0.2	0.0
5.00	0.10	0.2	0.0
6.00	0.10	0.2	0.0



The material management option allows various thicknesses, angles, blade separations and gauge corrections to be added, changed and removed for each of the table entries.



The blade separation and blade angle are set at the factory to precise values and changing these values in the table will not affect how the shears are used.


5.20. Import/export parameters, materials and programs

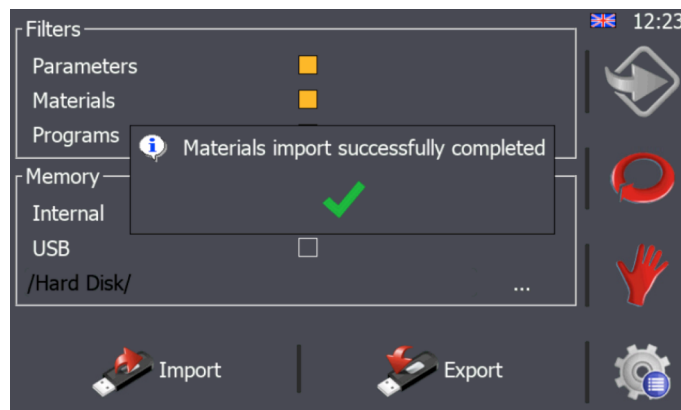
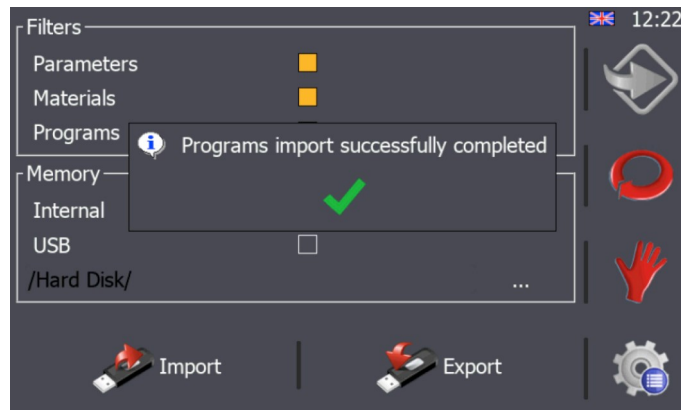
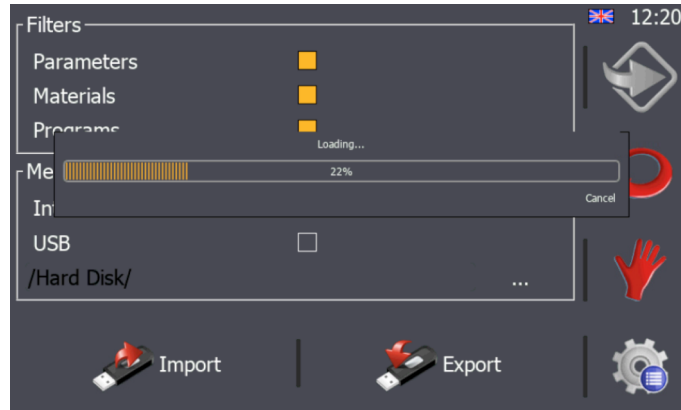
All the shear settings, predefined material parameters and programs created can be imported and exported to create back-ups.



Press the  button to access the window displayed in the previous figure. Once the menu screen appears, press the  button.

By default, all the filters are active as well as the internal memory option. Press  to save all the parameters, materials and programs in the machine's internal memory, creating a back-up copy. A back-up copy can also be saved to an external USB by selecting the USB option and pressing  again.


It is important that back-up copies are created frequently so that parameters, materials and the programs created are not lost. If all or part of this information needs to be recovered, simply select where the information can be found (internal memory or external USB), and press . The sequence of information that appears on the screen by doing so is as follows:




5.21. Remote service

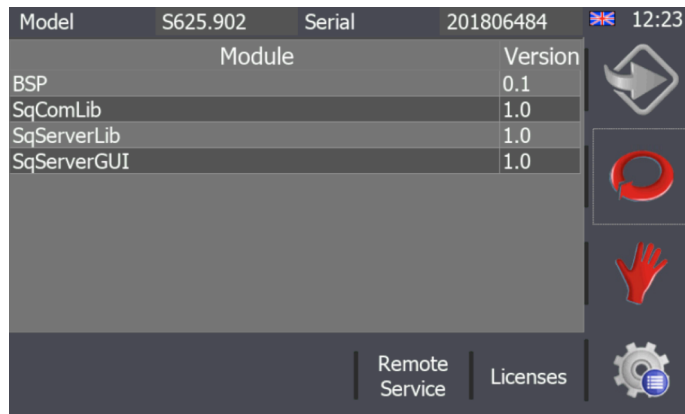
The shears can be connected to the Ethernet using a cable supplied for this purpose. The IP address within the local area network is 10.10.51.110, which has been set at the factory. This also allows the machine to be serviced remotely.

The remote service allows Nargesa, as the manufacturer, to remotely connect the machine in order to resolve technical incidents and to provide training courses to the end client.


Press the  button to activate the remote service and to access the menu window.



Once within the menu, press the  button. The following screen will appear:





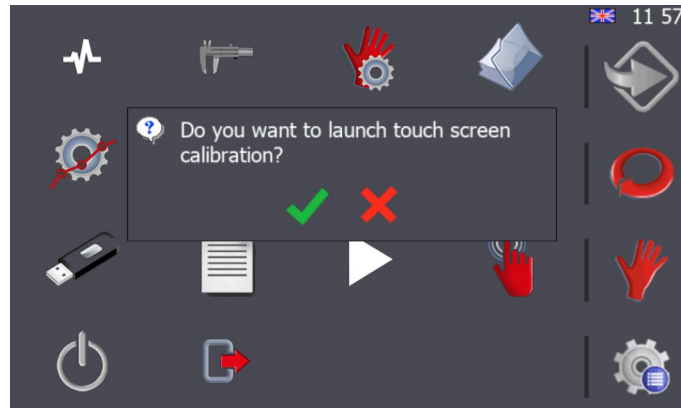
The information displayed in the previous image refers to the shear model and serial number, as well as the various IT system versions used in the user interface.


Press  to activate the remote service so that the Nargesa technical support department can connect to the machine to resolve any incidents and/or provide training courses.

5.22. Touch screen calibration

The touch screen has been correctly calibrated at the factory. However, it may need to be re-calibrated if it does not seem to respond correctly to the operator's actions.

Press the  button to access the menu window. Once within the menu, press the  button. The message displayed below will appear on doing so:



To accept, press  , and the touch screen calibration process will start. At this point, the information displayed on the screen changes to the following:



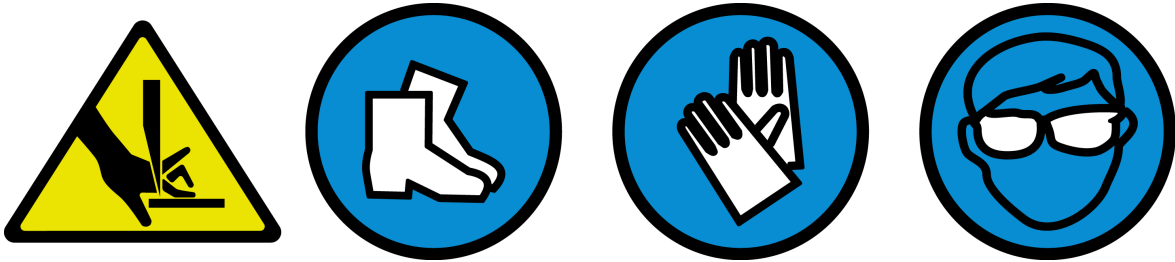
There is a cross in the centre of the screen which should be pressed for a few moments until it moves to a new position. This process is repeated at various points on the screen until the calibration process is complete.

6. WARNINGS

- Do not handle any component with the machine activated.
- Do not use the machine for any other purpose but the ones described in this manual.
- Wear safety gloves for handling the machine components during the cutting processes.
- Wear safety glasses and safety shoes homologated by CE.
- Do not work without the protections provided by the machine.
- Do not use cutting tools that are not provided by NARGESA.
- Do not cancel any protection device provided by the machine.
- NARGESA SL will not accept any responsibility if an accident occurs due to a negligent use of the machine on the operative's side or for not bearing in mind the usage and safety rules described in this manual.

Description of the machine signals.

- Prohibition of placing hands.
- Compulsory wearing of safety shoes.
- Compulsory wearing of protection gloves.
- Compulsory wearing of protection glasses.



7. THE BLADES

The main element for which this machine has been designed is the cutting of different kinds of metal sheet.

The blades are treated by various processes, which reinforces its liability and resistance at a normal use condition.

The guillotine C3006 has an upper blade and a lower blade each of them has got four exchangeable cutting corners.

The adjustment between the two blades should be 0.1 mm.

8. ACCESSORIES

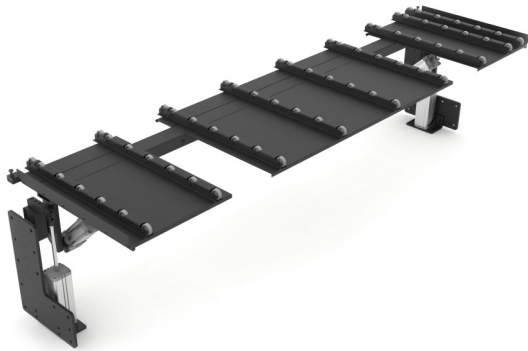
Sheet metal back support C3006 CNC

The C3006 CNC sheet metal back support is a holder to prevent sheet metal bending, thus ensuring that it has good contact with the stop.

It is equipped with 70 wheels placed in 10 rows at different distances. These are specifically distributed to provide optimum support on sheets of different sizes.

The support also offers two options to take the material off. In the first choice, when it has performed the support function, it descends and tilts to be able to extract the sheet metal from the rear of the machine. In the second option, after cutting, the support rises and the stop pushes the sheet for its extraction from the front of the machine.

- Pneumatic operation through an external air supply.
- Pressure switch and pressure regulator supplied with the accessory
- Integrated pneumatic system
- Ball recirculation guide for up and down movement



Reference	140-06-02-00002
Work pressure	4/7 Kg.
Dimensions	3260x913x760 mm
Weight	250 Kg.

Technical annex

Hydraulic shear C3006CNC

General exploded view

Detail of treaders

Detail of guided gauge

Detail of dirving gauge

Detail of activation triangular connecting rod

Detail of triangular rod

Detail of cylinder

Parts listing of the folding block

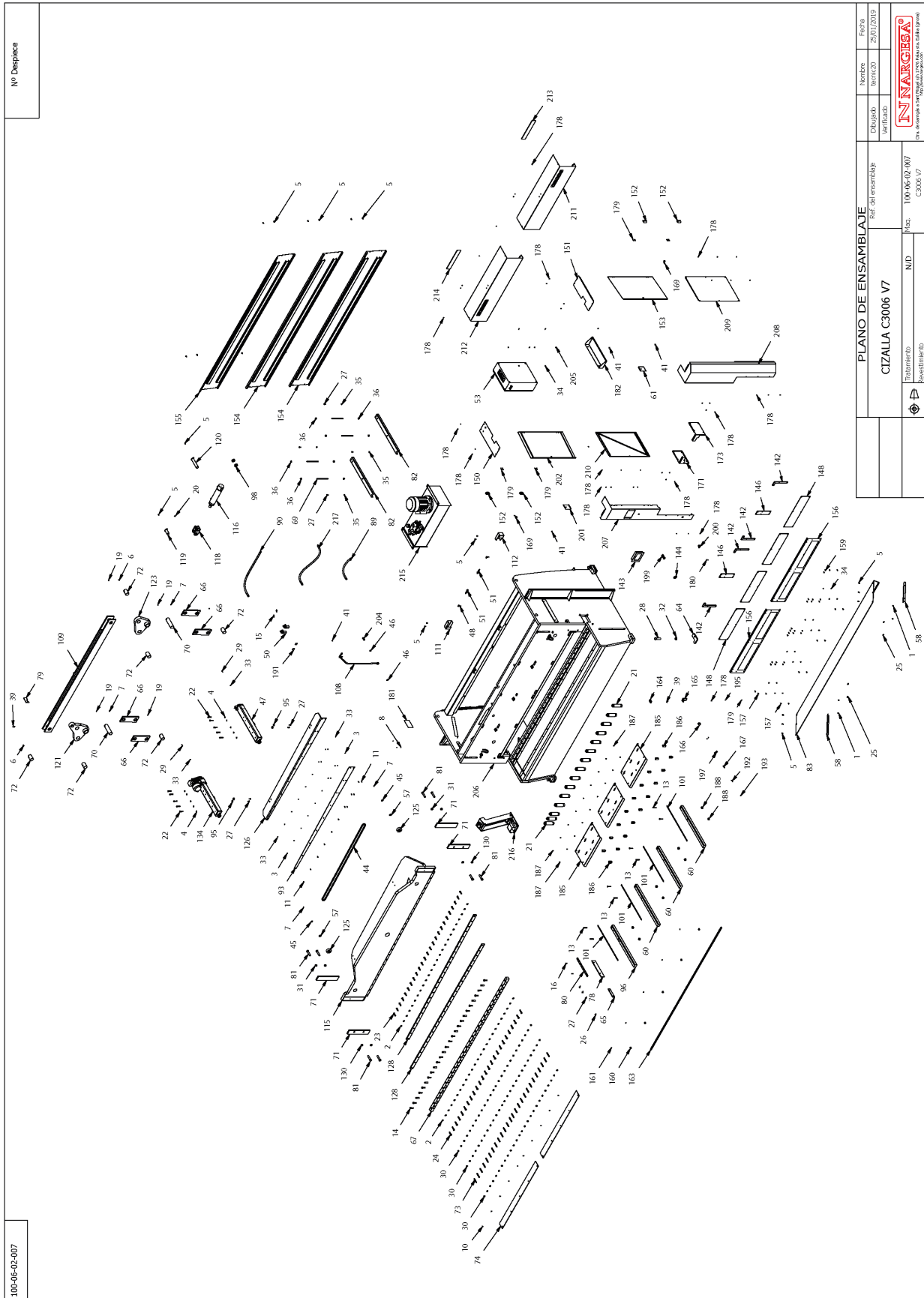
Detail of Hydraulic kit

Electric box

Electric maps

Hydraulic map

A1. List of parts



HYDRAULIC SHEAR C3006CNC

ELEMENTO	DESCRIPCION	N° PLANO	PIEZAS POR MAQUINA
1	ARANDELA DIN 125 B M10	020-D125B-M10	4
2	ARANDELA DIN 125 1B M14	020-D125B-M14	50
3	ARANDELA DIN 125 B M6	020-D125B-M6	13
4	ARANDELA GLOWER DIN 127 M12	020-D127-M12	10
5	TORNILLO HEXAGONAL DIN 6921 M8X16	020-D6921-M8X16	24
6	ENGRASADOR DIN 71412 M8 CODO	020-D71412-00001	4
7	ENGRASADOR DIN 71412 M8 RECTO	020-D71412-00002	9
8	REMACHE DE CLAVO DIN 7337 DE AL D3X8	020-D7337-3X8	4
10	TORNILLO ALLEN DIN 7991 M6X16	020-D7991-M6X16	10
11	TORNILLO ALLEN DIN 7991 M6X20	020-D7991-M6X20	12
13	TORNILLO ALLEN DIN 912 M10X60	020-D912-M10X60	8
14	TORNILLO ALLEN DIN 912 M16X50	020-D912-M16X50	26
15	TORNILLO ALLEN DIN 912 M4X30	020-D912-M4X30	4
16	TORNILLO ALLEN DIN 912 M8X20	020-D912-M8X20	2
19	ESPARRAGO ALLEN DIN 913 M8X10	020-D913-M8X10	10
20	ESPARRAGO ALLEN DIN 913 M8X16	020-D913-M8X16	1
21	CONJUNTO PISOR CARRERA 22 MM	130-06-01-00508	15
22	TORNILLO HEXAGONAL DIN 931 M12X60	020-D931-M12X60	10
23	TORNILLO HEXAGONAL DIN 931 M14X50	020-D931-M14X50	25
24	TORNILLO HEXAGONAL DIN 931 M14X65	020-D931-M14X65	25
25	TORNILLO HEXAGONAL DIN 933 M10X16	020-D933-M10X16	4
26	TORNILLO HEXAGONAL DIN 933 M10X20	020-D933-M10X20	2
27	TORNILLO HEXAGONAL DIN 933 M10X25	020-D933-M10X25	10
28	TORNILLO HEXAGONAL DIN 933 M24X100	020-D933-M24X100	4
29	TORNILLO HEXAGONAL DIN 933 M6X25	020-D933-M6X25	2
30	TUERCA DIN 934 M14	020-D934-M14	78
31	TUERCA HEXAGONAL DIN 934 M22 PASO 150	020-D934-M22X1C5	4
32	TUERCA DIN 934 M24	020-D934-M24	4
33	TUERCA DIN 934 M6	020-D934-M6	14

34	TUERCA DIN 934 M8	020-D934-M8	12
35	TUERCA AUTOBLOCANTE DIN 985 M10	020-D985-M10	4
36	TUERCA DIN 985 M16	020-D985-M16	8
38	TORNILLO ISO 7380 M6X10	020-I7380-M6X10	1
39	TORNILLO ISO 7380 M6X12	020-I7380-M6X12	4
41	TORNILLO ALLEN ISO 7380 M8X10 8.8 PAVONADO	020-I7380-M8X10	5
44	CORREA DENTADA HTD 3808-8M-20	030-CD-00010	1
45	CIRCLIP DIN 471 EJE DE Ø30	030-D471-00004	2
46	JUNTA METAL GOMA 1/2"	040-JMG-00001	2
47	TOPE CONDUCCION C3006	130-06-02-00501	1
48	CONECTOR M12 ACODADO 5 MTS	050-CNT-00001	1
49	CONECTOR M12 ACODADO CABLE 10 MTS	050-CNT-00002	1
50	FINAL DE CARRERA CON RUEDA	050-FC-RUEDA	2
51	DETECTOR FOTOCELULA 3H PNP ENF. RECTO CONECT	050-FT-00001	1
53	INSTALACION ELECTRICA C3006 V6	050-KIE-0602-003	1
57	ARANDELA GRUESO PATIN 42X30X1	120-06-01-00130	2
58	ANGULO SOPORTE CHAPA SALIDA	120-06-01-00523	2
60	PASAMANO SOPORTE CHAPAS DERECHO	120-06-01-00558	3
61	TAPA CABLES DERECHA	120-06-01-00570	1
64	SOPORTE PIE CIZALLA	120-06-01-00578	4
65	PASAMANO TRASERO GUIA ENTRADA	120-06-01-00721	1
66	BIELA	120-06-02-00310	4
67	PASAMANO SOPORTE CUCHILLA	120-06-02-00311	1
69	VARILLA SUSTENTACION GRUPO HIDRAULICO	120-06-02-00330	4
70	BULONES ARTICULACION BIELAS Ø60X205	120-06-02-00334	2
71	PASAMANO GUIA TRANCHA	120-06-01-00738	4
72	BULONES ARTICULACION BIELAS 94 MM	120-06-02-00336	6
73	VARILLA REGULACION CUCHILLA	120-06-02-00339	26
74	CHAPA DELANTERA MESA	120-06-02-00340	2
78	PASAMANO LATERAL GUIA ENTRADA	120-06-02-00372	1
79	TOPE POSICION TRANCHA	120-06-02-00395	1
80	SEPARADOR	120-06-02-00412	1

HYDRAULIC SHEAR C3006CNC

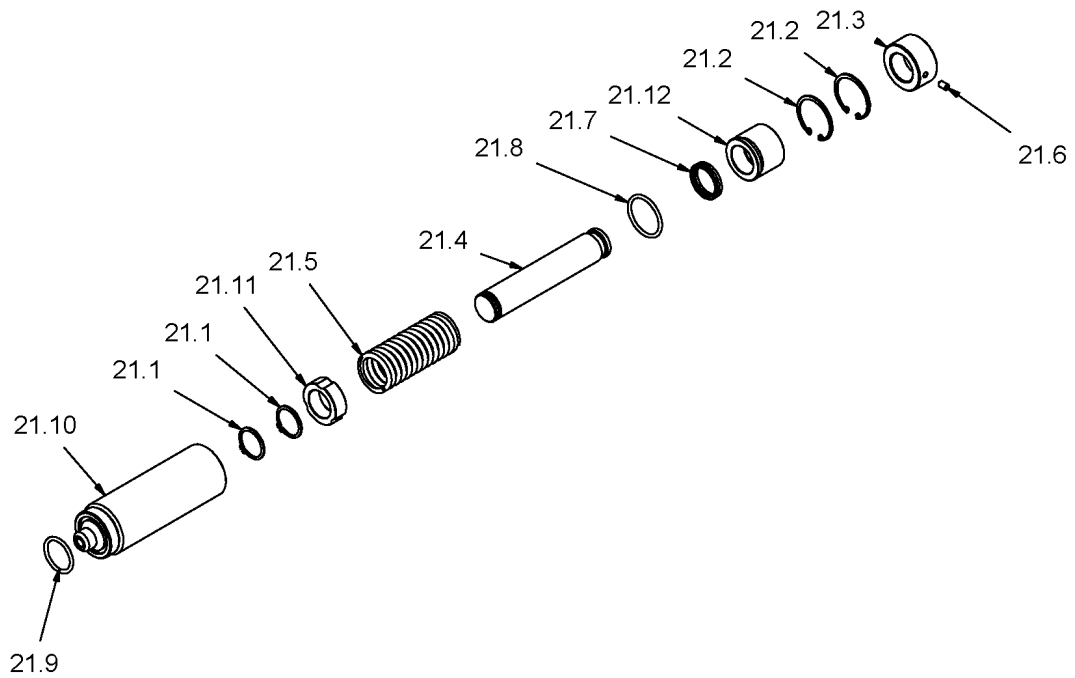
81	TORNILLO AJUSTE TRANCHA	120-06-02-00425	8
82	SOPORTE GRUPO HIDRAULICO	120-06-02-00505	2
83	RAMPA DE CAIDA	120-06-02-00529	1
89	MANGUERA FLEXIBLE 1/2" TG 1/2"-CODO 90° TG 1/2" LONGITUD 730 MM	120-06-02-00575	1
90	MANGUERA FLEXIBLE DE 1/2 " TG-TG DE 1/2" LONGITUD 950	120-06-02-00577	1
93	CHAPA FRONTAL TOPE C3006	120-06-02-00715	1
95	ARANDELA INFERIOR CHAPA TOPE D35XD10.5X6	120-06-02-00720	4
96	PASAMANO CON CINTA METRICA SOPORTE CHAPAS	120-06-02-00721	1
98	SEPARADOR EXTERIOR TRASERO CILINDRO HIDRAULICO D55X40.5X15	120-06-02-00723	2
101	REGLA MILIMETRADA DELANTERA	122-06-01-00001	4
108	TUBO PISONES	130-06-01-00514	1
109	CONJUNTO BIELA TRANSMISION	130-06-02-00301	1
111	CONJUNTO PROTECCION CELULA SEGURIDAD DERECHA	130-06-02-00323	1
112	CONJUNTO PROTECCION CELULA SEGURIDAD IZQUIERDA	130-06-02-00324	1
115	TRANCHA	130-06-02-00450	1
116	CONJUNTO CILINDRO HIDRAULICO C-3006	130-06-02-00455	1
118	HORQUILLA CIZALLA	130-06-02-00461	1
119	CONJUNTO BULON DELANTERO CILINDRO	130-06-02-00463	1
120	CONJUNTO BULON TRASERO CILINDRO	130-06-02-00466	1
121	BIELA TRIANGULAR DE ACCIONAMIENTO	130-06-02-00400	1
123	BIELA TRIANGULAR	130-06-02-00401	1
125	CONJUNTO PATIN	130-06-02-00504	2
126	CONJUNTO CHAPA TOPE C-3006	130-06-02-00505	1
128	CUCHILLA DE CORTE	140-06-02-00001	2
130	TUERCA BAJA DIN 936 M22X1.5	020-D936-M22X1_5	4
134	TOPE MOTRIZ C3006	130-06-01-00716	1
142	SOPORTE LATERAL CHAPA FRONTAL	120-06-01-00746	4
143	PANTALLA ESA S625	PANTALLA ESA S625	1
144	PLACA SEÑALIZACION PARO EMERGENCIA	050-APE-00001	1
146	SOPORTE CENTRAL CHAPA FRONTAL	120-06-01-00747	2
148	POLICARBONATO FRONTAL	120-06-02-00751	4
150	TAPA SUPERIOR LATERAL IZQUIERDA	120-06-01-00821	1

151	TAPA SUPERIOR LATERAL DERECHA	120-06-01-00825	1
152	BISAGRA	050-BIS-00002	4
153	CONJUNTO PUERTA DERECHA C3006	130-06-02-00516	1
154	CONJUNTO TAPA TRASERA	130-06-02-00519	2
155	CONJUNTO TAPA TRASERA SUPERIOR	130-06-02-00518	1
156	CONJUNTO TAPA FRONTAL INFERIOR	130-06-02-00520	2
157	TORNILLO ALLEN ISO 7380 M8X16	020-I7380-M8X16	24
158	ARANDELA DIN 125 B M8	020-D125B-M8	8
159	TORNILLO ALLEN ISO 7380 M8X20	020-I7380-M8X20	12
160	SOPORTE PERFIL LED	050-GEN-00022	5
161	TORNILLO ALLEN DIN 7991 M3X8	020-D7991-M3x8	10
163	CONJUNT LED CIZALLA 3006	LEDS C3006 V6	1
164	SOPORTE INICIAL LASER LINEA	120-06-01-00793	1
165	SOPORTE PRINCIPAL LASER LINEA	120-06-01-00790	1
166	SOPORTE GIRATORIO LASER LINEA	120-06-01-00791	1
167	SOPORTE LASER LINEA	120-06-01-00792	1
169	CIERRE DE LENGÜETA CON TRIANGULO 8 M20	031-CLT-00001	2
171	TAPA LATERAL IZQUIERDA	120-06-02-00759	1
173	TAPA LATERAL DERECHA	120-06-02-00760	1
178	TORNILLO ALLEN CABEZA REDONDA ISO 7380 M6X8	020-I7380-M6X8	63
179	TORNILLO ISO 7380 M5X10	020-I7380-M5x10	17
180	TORNILLO DIN 7985 M3X10 NEGRO CABEZA ALOMADA PHILIPS	020-D7985-M3X10-N	2
181	PLACA CARACTERISTICAS GENERAL	122-PLC-0000-001	1
182	ESTANTERIA LATERAL	120-06-01-00761	1
185	CONJUNTO MESA C3006	130-06-02-00521	3
186	SUPLEMENTO MESA CHAPAS	120-06-01-00765	18
187	TORNILLO ALLEN DIN 7991 M6X12	020-D7991-M6X12	10
188	GRUESO SOPORTE INFERIOR SOPORTE CHAPA	120-06-01-00732	8
191	CHAPA ROSCADA FINAL DE CARRERA CIZALLAS	120-06-01-00706	2
192	TORNILLO ALLEN DIN 912 M3X25	020-D912-M3X25	2
193	ESPARRAGO ALLEN DIN 913 M4X5	020-D913-M4X5	1
194	TORNILLO ISO 7380 M4X6	020-I7380-M4X6	2

HYDRAULIC SHEAR C3006CNC

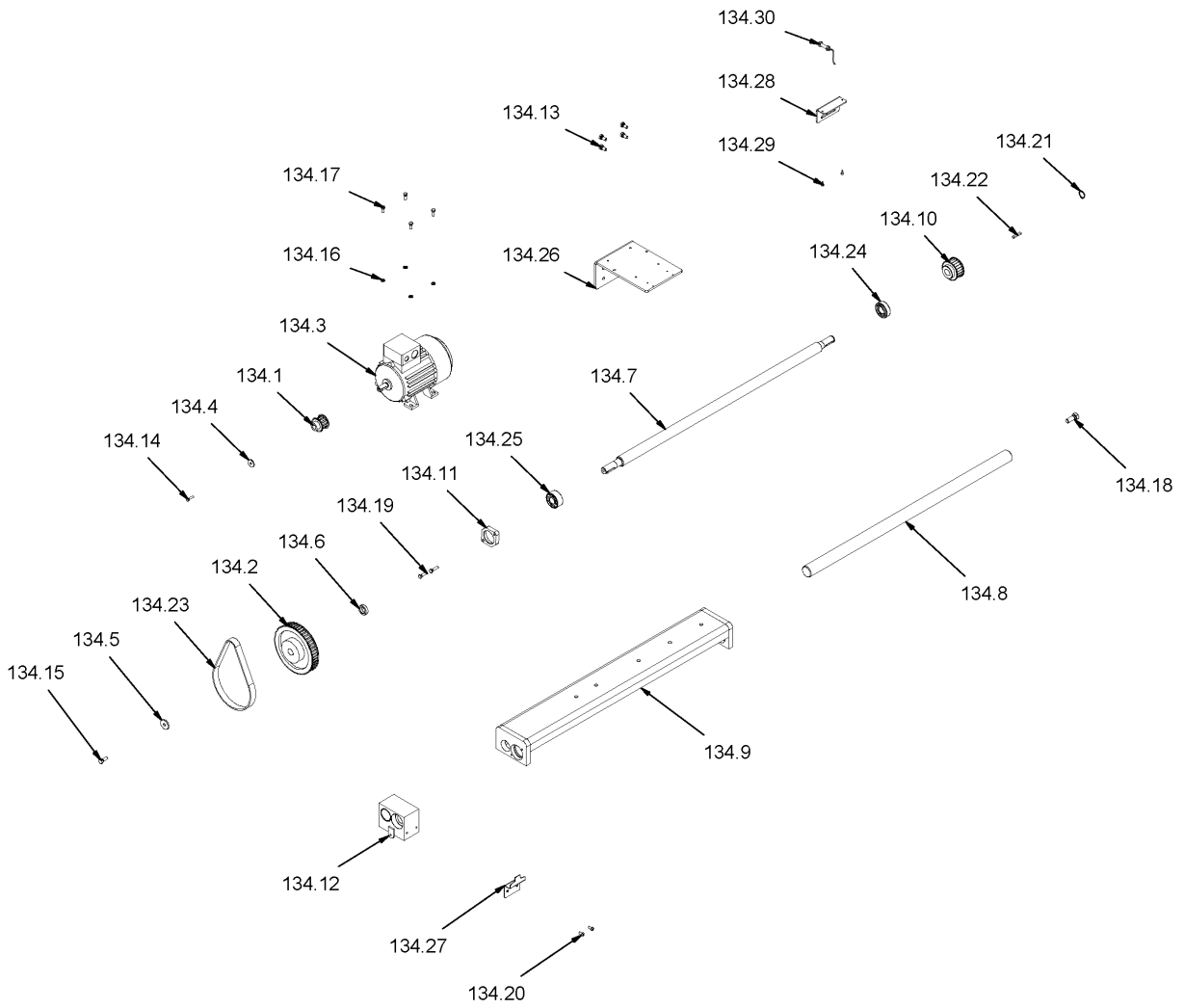
195	ARANDELA DIN 125 B M5	020-D125B-M5	1
197	LASER VERDE LINEA CIZALLA	050-LSR-00002	1
199	PARO EMERGENCIA D22	050-PEM-22	1
200	ZOCALO RECTO CK03I	050-BE-00003	1
201	TAPA CABLES IZQUIERDA	120-06-01-00569	1
202	CONJUNTO PUERTA IZQUIERDA C3006	130-06-02-00517	1
204	TORNILLO PARA ESFERA DE 1/2"	040-TES-00001	1
205	ESPARRAGO ALLEN DIN 913 M8X20	020-D913-M8X20	4
206	ESTRUCTURA CIZALLA C-3006	130-06-02-00552	1
207	CONJUNTO TAPA FRONTAL IZQUIERDA C3006	130-06-02-00550	1
208	CONJUNTO TAPA FRONTAL DERECHA C3006	130-06-02-00551	1
209	CONJUNTO TAPA LATERAL INFERIOR DERECHA C3006	130-06-02-00527	1
210	CONJUNTO TAPA LATERAL INFERIOR IZQUIERDA C3006	130-06-02-00529	1
211	TAPA FRONTAL SUPERIOR MODELO C3006	120-06-02-00824	1
212	TAPA FRONTAL SUPERIOR NARGESA C3006	120-06-02-00825	1
213	POLICARBONATO MODELO	120-06-02-00784	2
215	CONJUNTO GRUPO HIDRAULICO	130-06-02-00530	1
216	PIE PEDAL CIZALLA	130-06-02-00532	1
217	MANGUERA FLEXIBLE DE 1/2" TG 1/2" - TG DE 1/2" LONGITUD 860 mm	120-06-02-00786	1

A2. Detail of treaders



Nº ORDEN	DESCRIPCION	Nº PLANO	PIEZAS POR MAQUINA
21.1	CIRCLIP DIN 471 EJE DE D30	030-D471-00004	30
21.2	CIRCLIP DIN 472 PARA AGUJERO D45	030-D472-00002	30
21.3	BASE PISOR	120-06-01-00051	15
21.4	VASTAGO PISOR	120-06-01-00057	15
21.5	MUELLE 5X42X100X10 ESPIRAS	120-06-01-00054	15
21.6	ESPARRAGO DIN 913 M6X10	020-D913-M6X10	15
21.7	COLLARIN D30XD38X7	040-BA-00003	15
21.8	JUNTA TORICA D39X3,5 90 SHORE	040-JT-00014	15
21.9	JUNTA TORICA D32X3,5 90 SHORE	040-JT-00012	15
21.10	CONJUNTO SOLDADURA CAMISA PISOR	130-06-01-00510	15
21.11	GUIA INTERIOR PISOR	120-06-01-00544	15
21.12	DOLLA BRONCE PISOR	120-06-01-00545	15

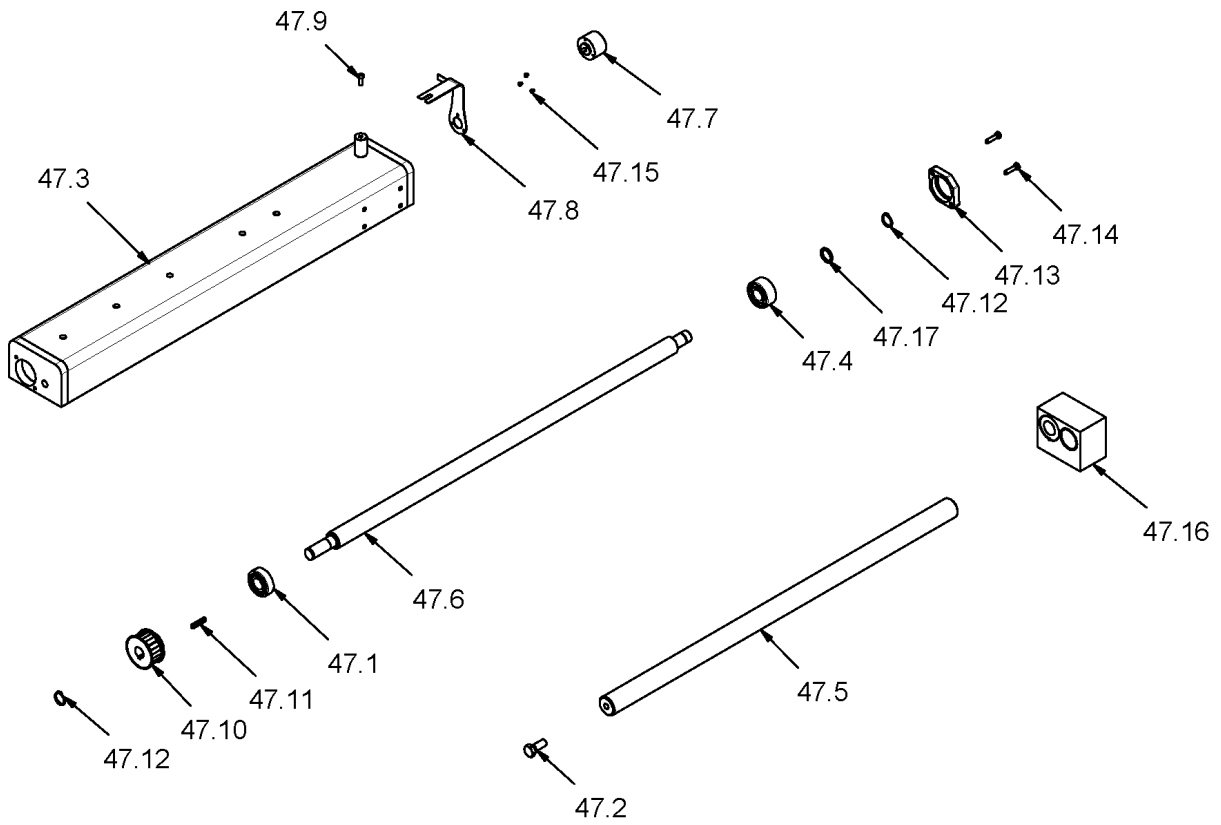
A3. Detail of guided gauge



N° ORDEN	DESCRIPCION	N° PLANO	PIEZAS POR MAQUINA
134.1	POLEA ACCIONAMIENTO MOTOR	120-06-01-00187	1
134.2	POLEA ACCIONAMIENTO TOPE	120-06-01-00198	1
134.3	MOTOR ELECTRICO D 0.37KW A 1400 RPM CON PATAS B3	050-ME-00012	1
134.4	ARANDELA DE GRUESO D23XD5.5X3	120-06-01-00188	1
134.5	ARANDELA DE GRUESO D30XD8.5X4	120-06-01-00197	1
134.6	SEPARADOR POLEA DELANTERA TOPE MP1400	120-05-03-00617	1
134.7	HUSILLO MOTRIZ TOPE C3006	120-06-02-00700	1
134.8	GUIA TOPE C3006	120-06-02-00705	1
134.9	ESTRUCTURA SOLDADA TOPE MOTRIZ	130-06-02-00503	1
134.10	POLEA DENTADA TOPE	120-06-02-00707	1
134.11	FIJACION COJINETE FRONTAL C3006	120-06-02-00711	1
134.12	CONJUNTO SOPORTE TUERCA TOPE	130-06-02-00508	1
134.13	TORNILLO HEXAGONAL DIN 933 M8X16	020-D933-M8X16	4
134.14	TORNILLO HEXAGONAL DIN 933 M5X20	020-D933-M5X20	1
134.15	TORNILLO HEXAGONAL DIN 933 M8X20	020-D933-M8X20	1
134.16	ARANDELA DIN 125 B M6	020-D125B-M6	4
134.17	TORNILLO HEXAGONAL DIN 933 M6X16	020-D933-M6X16	4
134.18	TORNILLO HEXAGONAL DIN 933 M12X30	020-D933-M12X30	1
134.19	TORNILLO HEXAGONAL DIN 933 M6X25	020-D933-M6X25	2
134.20	TORNILLO ISO 7380 M6X12	020-I7380-M6X12	2
134.21	CIRCLIP DIN 471 EJE DE Ø20	030-D471-00010	1
134.22	CHAVETA PARALELA DIN 6885A 5X5X32	030-D6885A-00023	2

N° ORDEN	DESCRIPCION	N° PLANO	PIEZAS POR MAQUINA
134.23	CORREA DENTADA 225 L 075	030-CD-00001	1
134.24	COJINETE DE BOLAS 6204 2RS	030-CJ-00012	1
134.25	COJINETE 3204 D20XD47X20.6	030-CJ-00004	1
134.26	SOPORTE MOTOR TOPE CIZALLA	120-06-02-00735	1
134.27	ACCIONAMIENTO FINAL DE CARRERA TOPE	120-06-01-00741	1
134.28	SOPORTE INDUCTIVO TOPE CIZALLA	120-06-01-00742	1
134.29	TORNILLO ALLEN DIN 912 M4 X8 PAVONADO	020-D912-M4X8	2
134.30	DETECTOR INDUCTIVO DIELL M8 NPN-1030VD	050-IND-00001	1

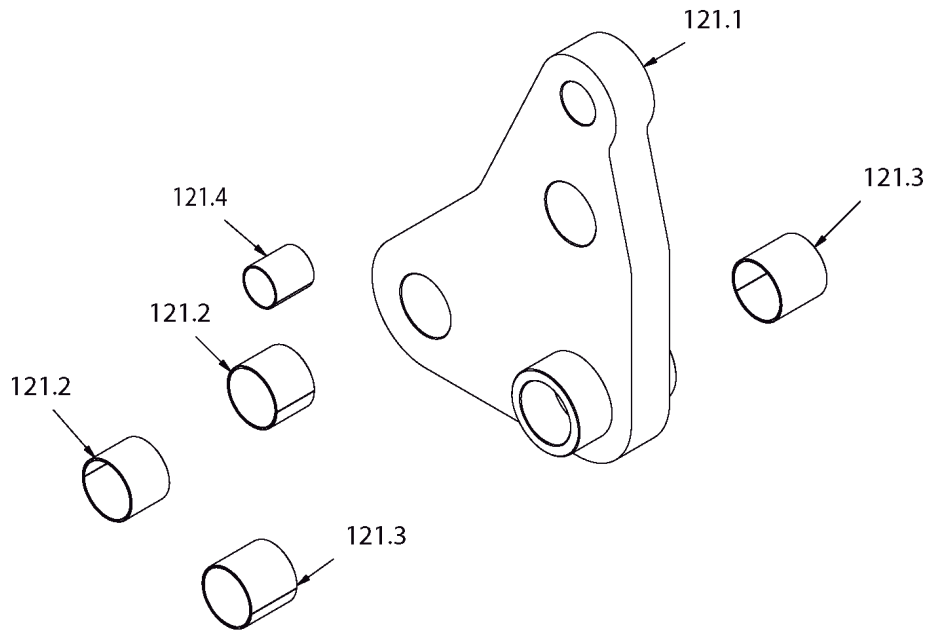
A4. Detail of dirving gauge



HYDRAULIC SHEAR C3006CNC

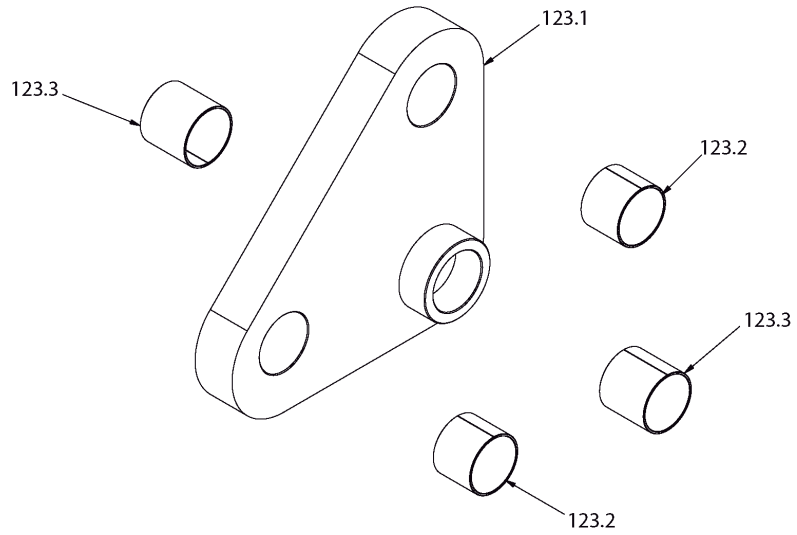
Nº ORDEN	DESCRIPCION	Nº PLANO	PIEZAS POR MAQUINA
47.1	COJINETE DE BOLAS 6204 2RS	030-CJ-00012	1
47.2	TORNILLO HEXAGONAL DIN 933 M12X30	020-D933-M12X30	1
47.3	ESTRUCTURA SOLDADA TOPE CONDUCCION	130-06-02-00502	1
47.4	COJINETE 3204 D20XD47X20.6	030-CJ-00004	1
47.5	GUIA TOPE C3006	120-06-02-00705	1
47.6	HUSILLO CONDUCCION C3006	120-06-02-00701	1
47.7	ENCODER POSICION TOPE	050-ENC-00002	1
47.8	CHAPA SOPORTE ENCODER	120-06-01-00202	1
47.9	TORNILLO ISO 7380 M6X16	020-I7380-M6X16	1
47.10	POLEA DENTADA TOPE	120-06-02-00707	1
47.11	CHAVETA PARALELA DIN 6885A 5X5X32	030-D6885A-00023	1
47.12	CIRCLIP DIN 471 EJE DE Ø20	030-D471-00010	2
47.13	FIJACION COJINETE FRONTAL C3006	120-06-02-00711	1
47.14	TORNILLO HEXAGONAL DIN 933 M6X25	020-D933-M6X25	2
47.15	TORNILLO DIN 7985 M3X4 PHILIPS	020-D7985-M3X4	3
47.16	CONJUNTO SOPORTE TUERCA TOPE	130-06-02-00508	1
47.17	ARANDELA FIJACION HUSILLO CONDUCCION	120-06-02-00730	1
47.18	ESPARRAGO ALLEN DIN 913 M5X8	020-D913-M5X8	1

A5. Detail of activation triangular connecting rod



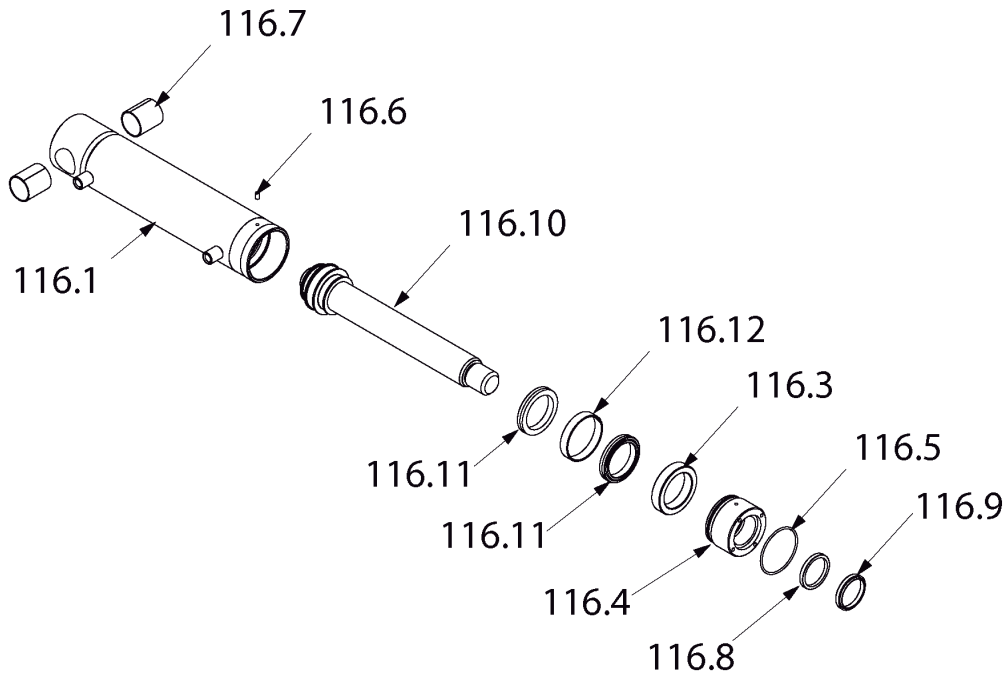
Nº ORDEN	DESCRIPCION	Nº PLANO	PIEZAS POR MAQUINA
121.1	MECANIZADO BIELA TRIANGULAR ACCIONAMIENTO	130-06-02-00400-FM2	1
121.2	DOLLA PARTIDA-60-65-50	030-DP-00028	2
121.3	DOLLA PARTIDA-60-65-60	030-DP-00029	2
121.4	DOLLA PARTIDA D40XD44X50	030-DP-00017	1

A6. Detail of triangular rod



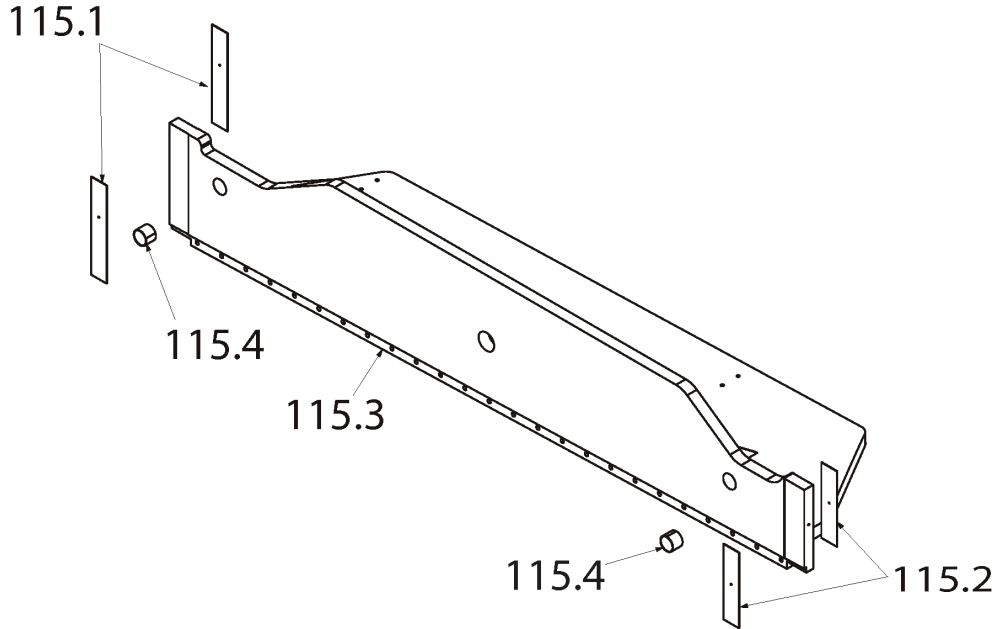
Nº ORDEN	DESCRIPCION	Nº PLANO	PIEZAS POR MAQUINA
123.1	BIELA TRIANGULAR MECANIZADO	130-06-02-00401-FM2	1
123.2	DOLLA PARTIDA-60-65-50	030-DP-00028	2
123.3	DOLLA PARTIDA-60-65-60	030-DP-00029	2

A7. Detail of cylinder



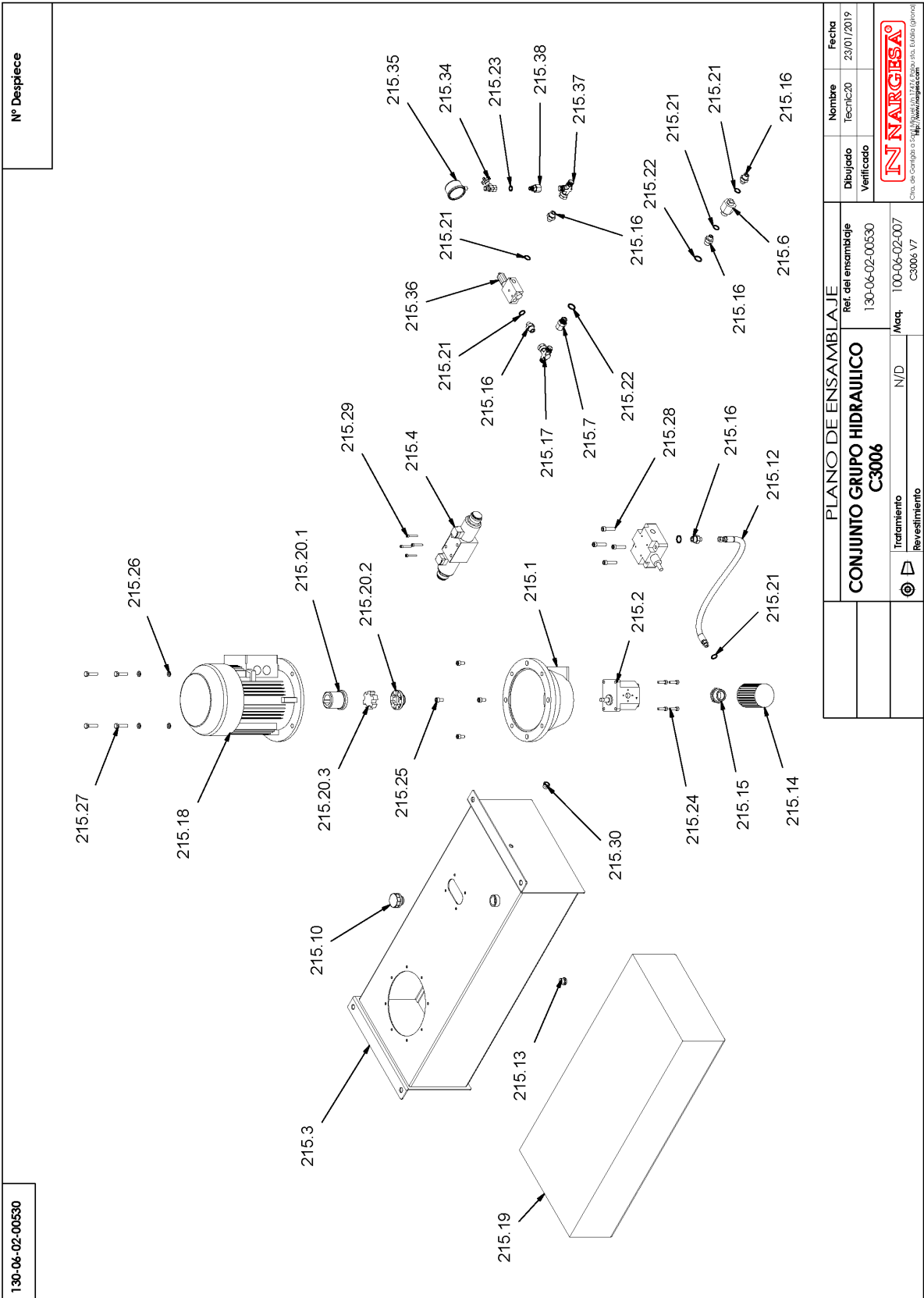
Nº ORDEN	DESCRIPCION	Nº PLANO	PIEZAS POR MAQUINA
116.1	CONJUNTO FINAL CAMISA CILINDRO CIZALLA	130-06-02-00307	1
116.3	TOPE DELANTERO CILINDRO HIDRAULICO	120-06-02-00375	1
116.4	DOLLA DE BRONCE	120-06-02-00732	1
116.5	JUNTA TORICA D74X4 90 SHORE	040-JT-00021	1
116.6	ESPARRAGO DIN 913 M6X10	020-D913-M6X10	1
116.7	DOLLA PARTIDA D40XD44X50	030-DP-00017	2
116.8	COLLARIN BA D50XD60X7.3	040-BA-00007	1
116.9	RASCADOR D50XD60X7/10	040-RAS-00004	1
116.10	CONJUNTO VASTAGO SOLDADO	130-06-02-00311	1
116.11	GUIA 80-75-15	040-GUI-00001	1
116.12	JUNTA DE CILINDRO D80XD60X12	040-JC-00001	2

A8. Parts listing of the folding block



Nº ORDEN	DESCRIPCION	Nº PLANO	PIEZAS POR MAQUINA
115.1	REGLA BIPLAST 435X80X2	120-06-02-00328	2
115.2	REGLA BIPLAST 335X80X2	120-06-02-00329	2
115.3	MECANIZADO TRANCHA C-3006	130-06-02-00450-FM2	1
115.4	DOLLA PARTIDA-60-65-50	030-DP-00028	2

A9. Detail of Hydraulic kit

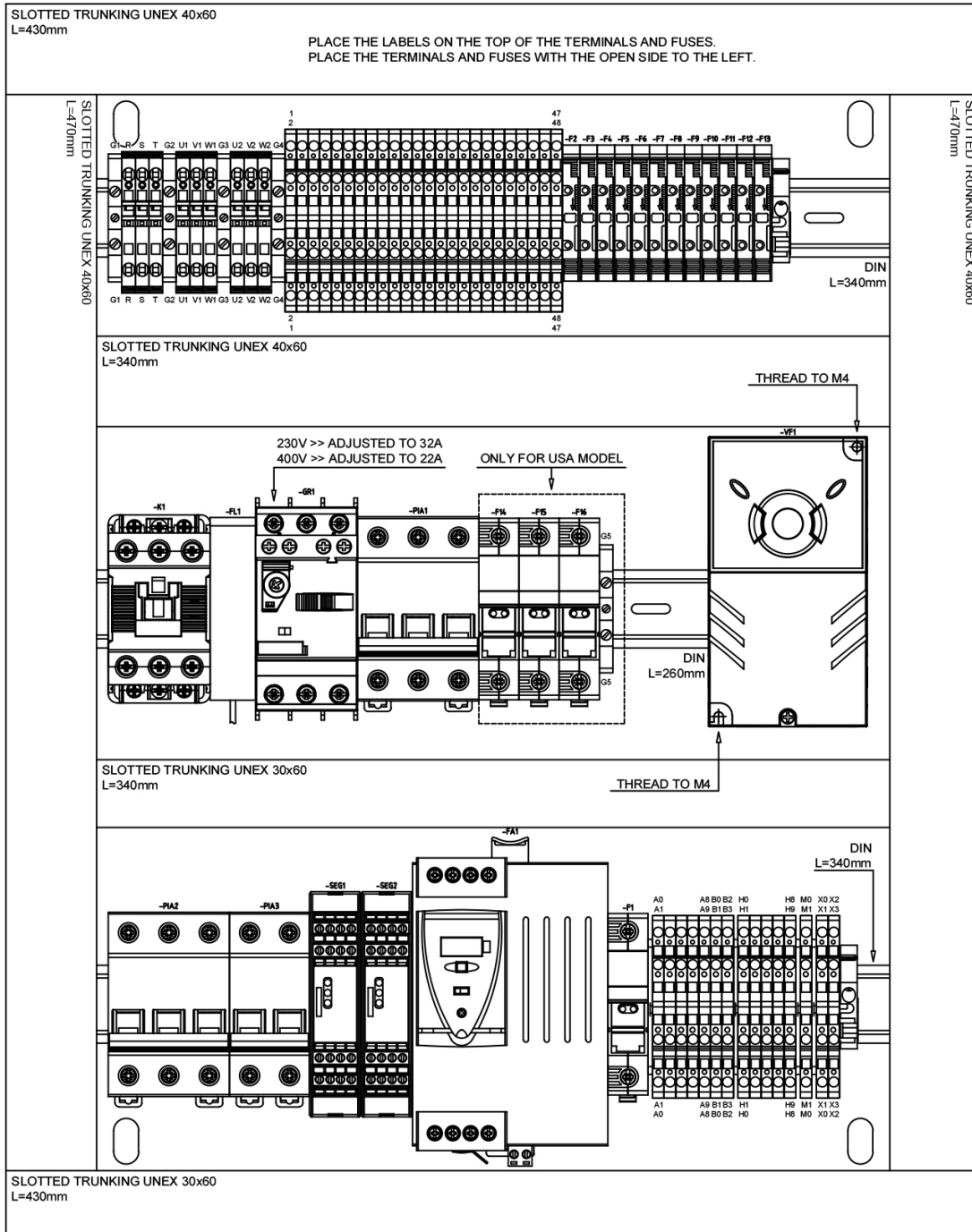


HYDRAULIC SHEAR C3006CNC

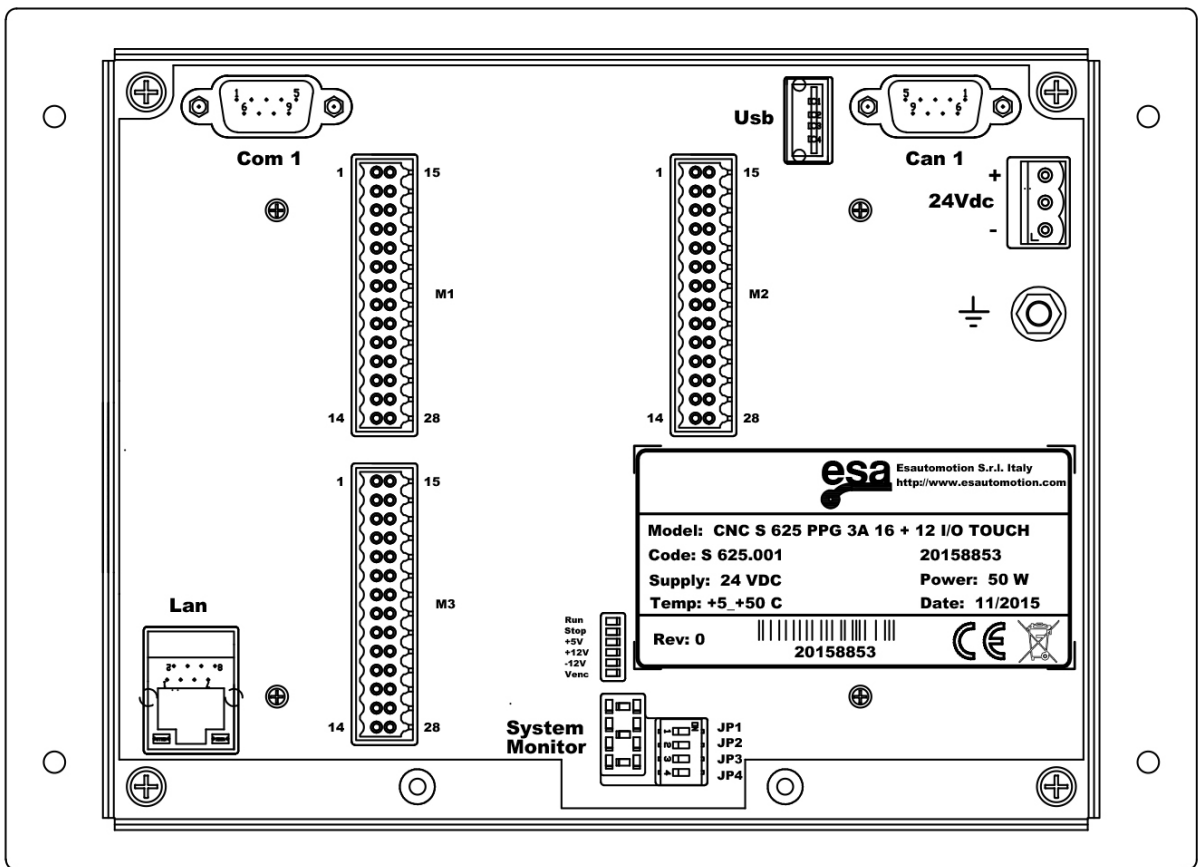
Nº ORDEN	DESCRIPCION	Nº PLANO	PIEZAS POR MAQUINA
215.1	CAMPANA ACOPLAMIENTO BOMBA TIPO L MOTOR 7.5/10/12	040-CA-00001	1
215.2	BOMBA HIDRAULICA DE 22 LITROS CARCASA DE ALUMINIO	040-BH-00001	1
215.3	DEPOSITO GRUPO HIDRAULICO C3006	130-06-02-00531	1
215.4	ELECTROVALVULA TN10 CETOP 5	040-ELV-00001	1
215.5	VALVULA LIMITADORA DE PRESION	040-VLP-00001	1
215.6	REGULADOR DE CAUDAL UNIDIRECCIONAL EN LINEA 3/8"	040-RC-00001	1
215.7	RACOR GIRATORIO MACHO HEMBRA 1/2"	040-RG-00001	1
215.10	TAPON DE LLENADO 1" CON FILTRO	040-TLL-00001	1
215.12	MANGUERA HIDRAULICA 3/8" MACHO 3/8" TUERCA GIRATORIA 3/8" L=640 MM	120-06-02-00369	1
215.13	TAPON ALLEN 1/2"	040-TVA-00001	1
215.14	FILTRO DE ASPIRACION 1 1/4"	040-FL-00001	1
215.15	RACOR REDUCIDO 1 1/4-1/2 MACHO MACHO	040-RRMM-00011	1
215.16	RACOR REDUCIDO 1/2-3/8 MACHO MACHO	040-RRMM-00004	5
215.17	FIGURA "T" TUERCA GIRATORIA CENTRAL 1/2"	040-TGC-00001	1
215.18	MOTOR ELECTRICO DE 9.2 KW A 1400 RPM BRIDA B5	050-ME-00004	1
215.19	ACEITE HIDRAULICO C-3006 96 LITROS	ACEITE C-3006	1
215.20.1	ACOPLAMIENTO LADO MOTOR 7.5/10/12 CV	040-AE-00002	1
215.20.2	ACOPLAMIENTO LADO BOMBA 7.5/10/12 CV	040-AE-00003	1
215.20.3	ESTRELLA ACOPLAMIENTO 7.5/10/12 CV	040-AE-00004	1
215.21	JUNTA METAL GOMA 3/8"	040-JMG-00004	5
215.22	JUNTA METAL GOMA 1/2"	040-JMG-00001	3

Nº ORDEN	DESCRIPCION	Nº PLANO	PIEZAS POR MAQUINA
215.23	JUNTA METAL GOMA 1/4"	040-JMG-00002	3
215.24	TORNILLO ALLEN DIN 912 M8X30	020-D912-M8X30	4
215.25	TORNILLO ALLEN DIN 912 M10X20	020-D912-M10X20	4
215.26	ARANDELA DIN 125 B M10	020-D125B-M10	4
215.27	TORNILLO HEXAGONAL DIN 933 M10X45	020-D933-M10X45	4
215.28	TORNILLO ALLEN DIN 912 M10X45	020-D912-M10X45	4
215.29	TORNILLO ALLEN DIN 912 M6X40	020-D912-M6X40	4
215.30	NIVEL DE ACEITE 3/8"	040-NA-00001	1
215.34	GRIFO DE MANOMETRO 1/4" ROSCA GAS 1/4" HEMBRA	040-VDP-00002	1
215.35	MANOMETRO 0-300 BARS D63 1/4 INFERIOR	040-MAN-00003	1
215.36	VALVULA DE SECUENCIA RA03R2B-S	040-VS-00002	1
215.37	FIGURA "T" TUERCA GIRATORIA LATERAL 1/2"	040-TGL-00004	1
215.38	REDUCCION MACHO 1/4" TUERCA GIRATORIA 1/2"	040-RMTG-00009	1

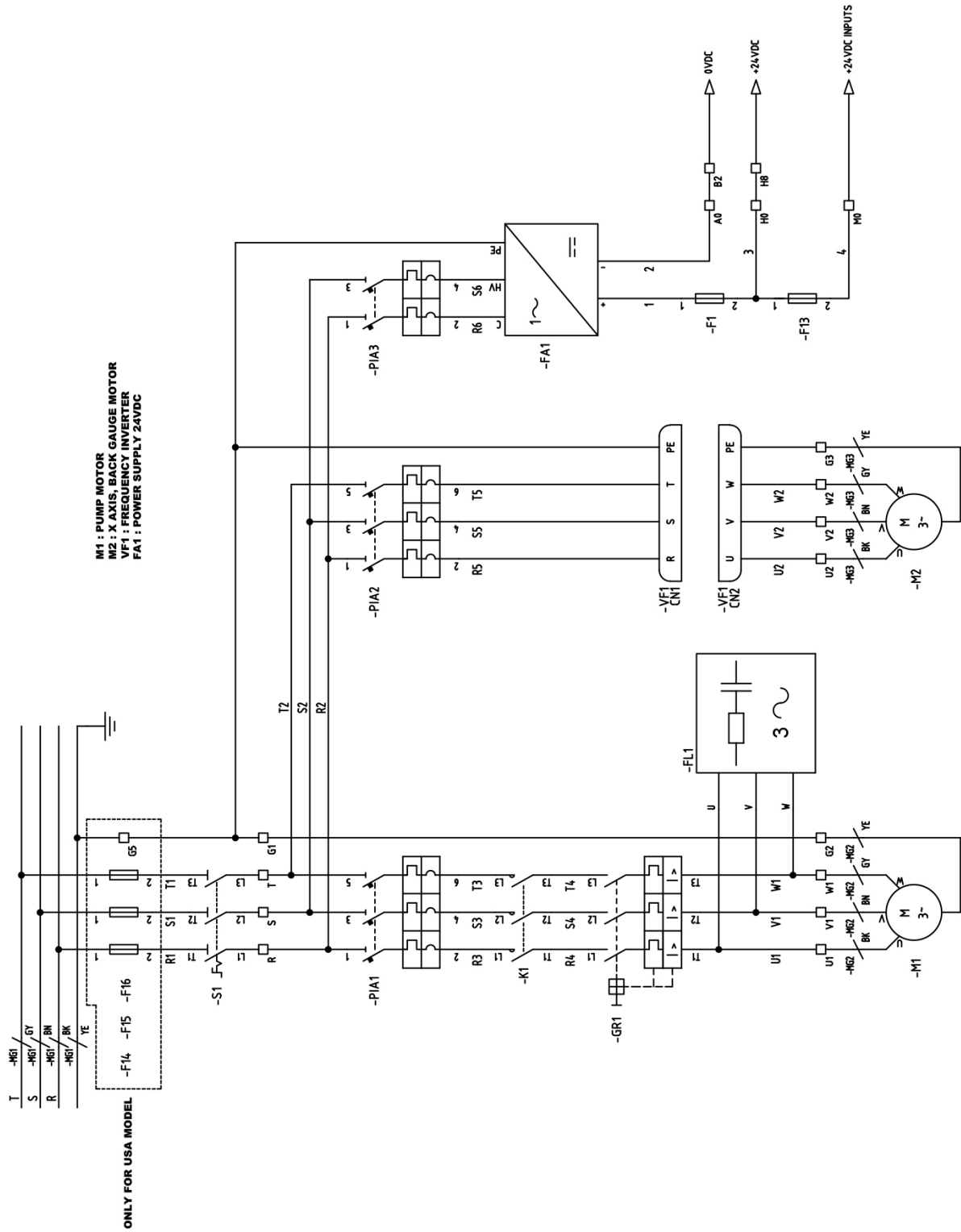
A10. Electric box

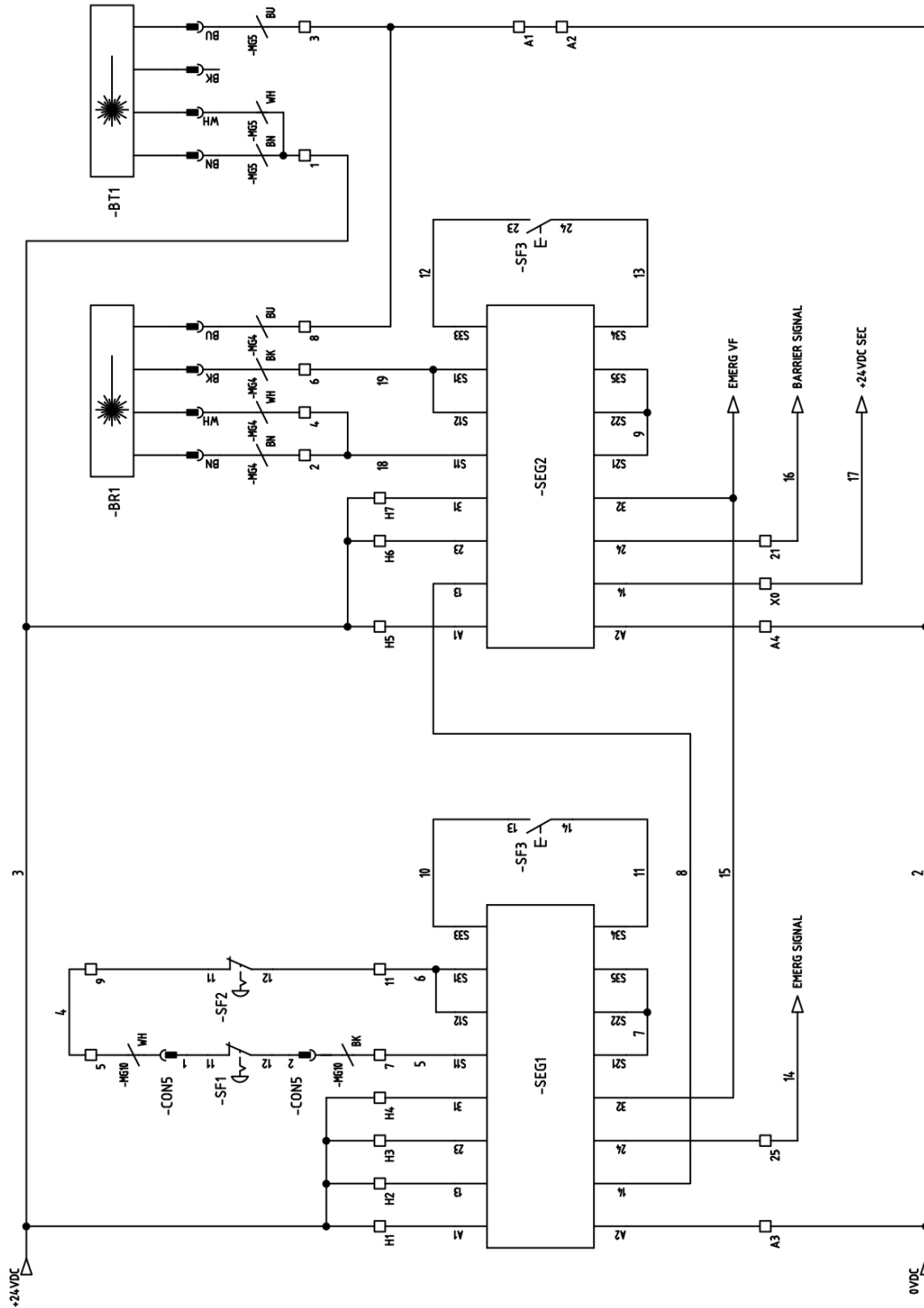


-CONTROL1

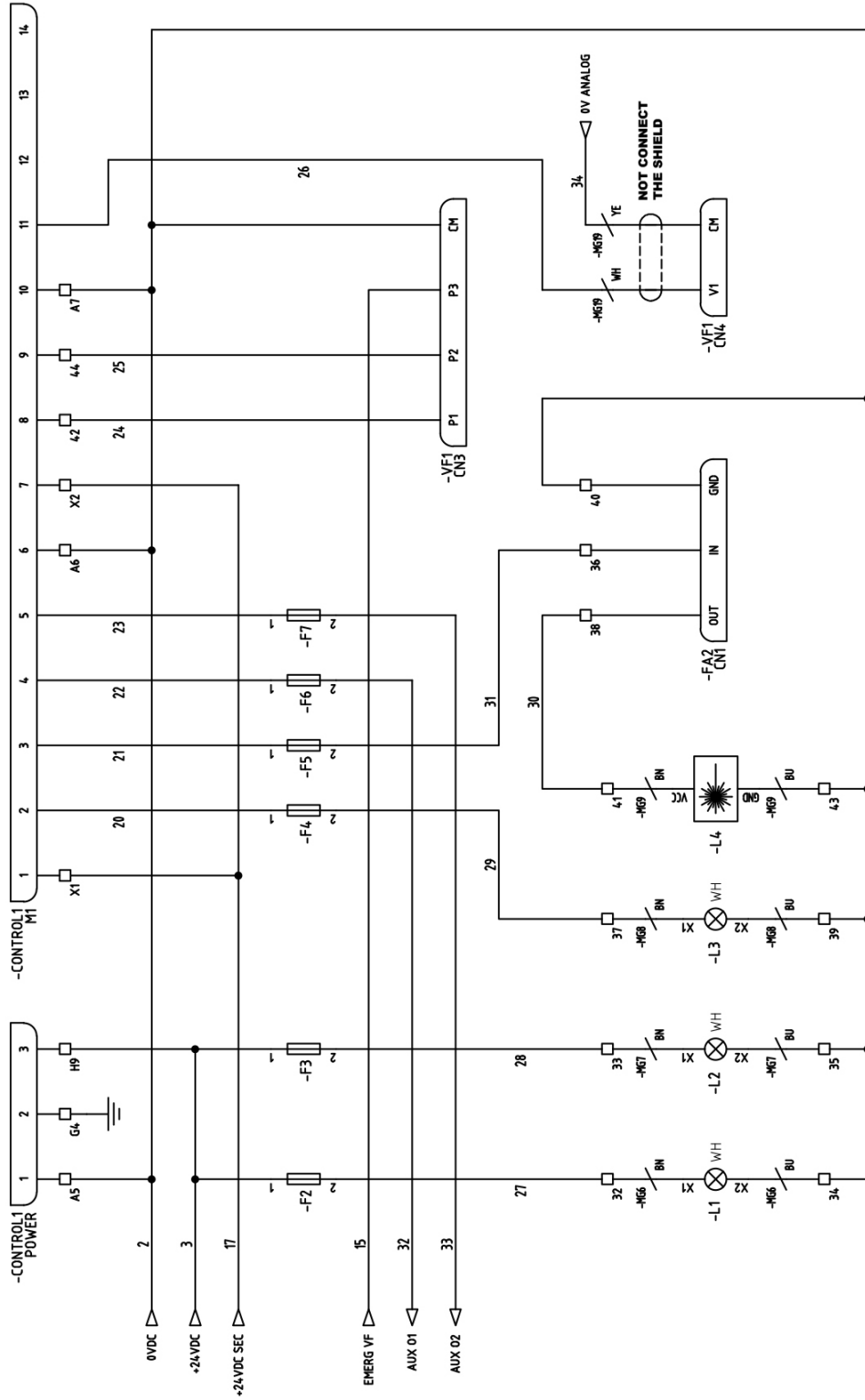


A11. Electric maps

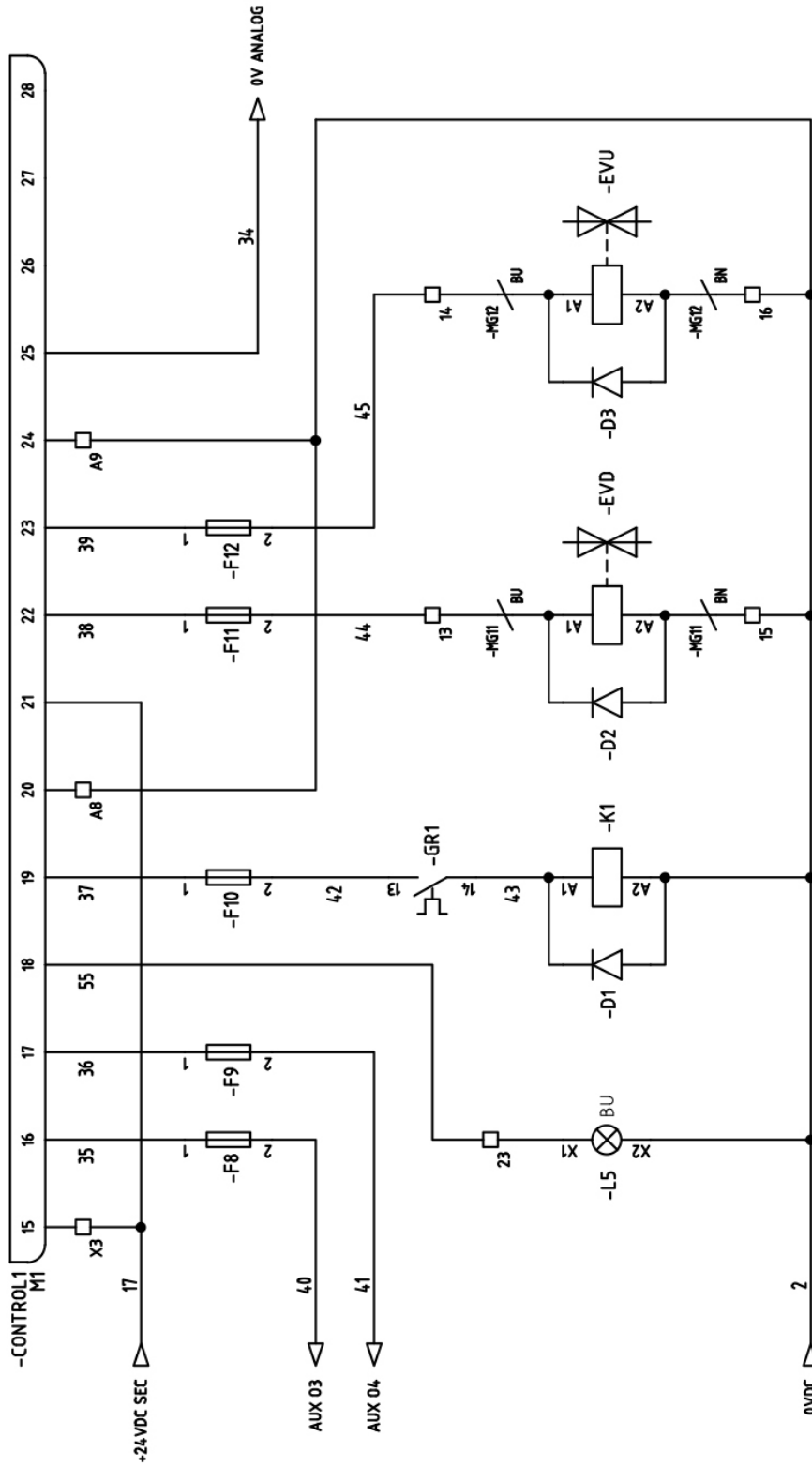




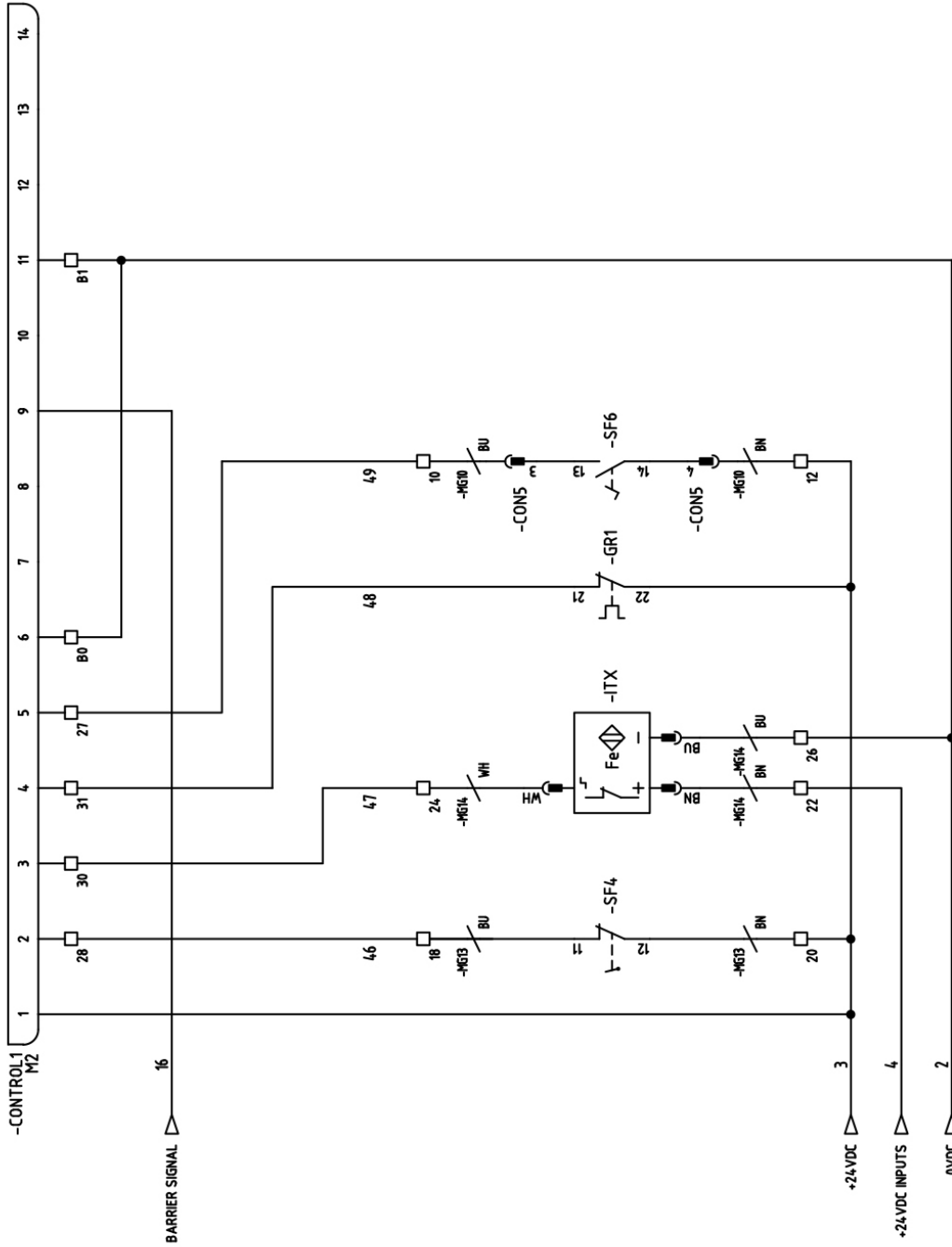
SF1 : PEDAL EMERGENCY STOP
 SF2 : FRONT EMERGENCY STOP
 SF3 : RESTART BUTTON
 BR1 : BARRIER RECEIVER
 BT1 : BARRIER TRANSMITTER



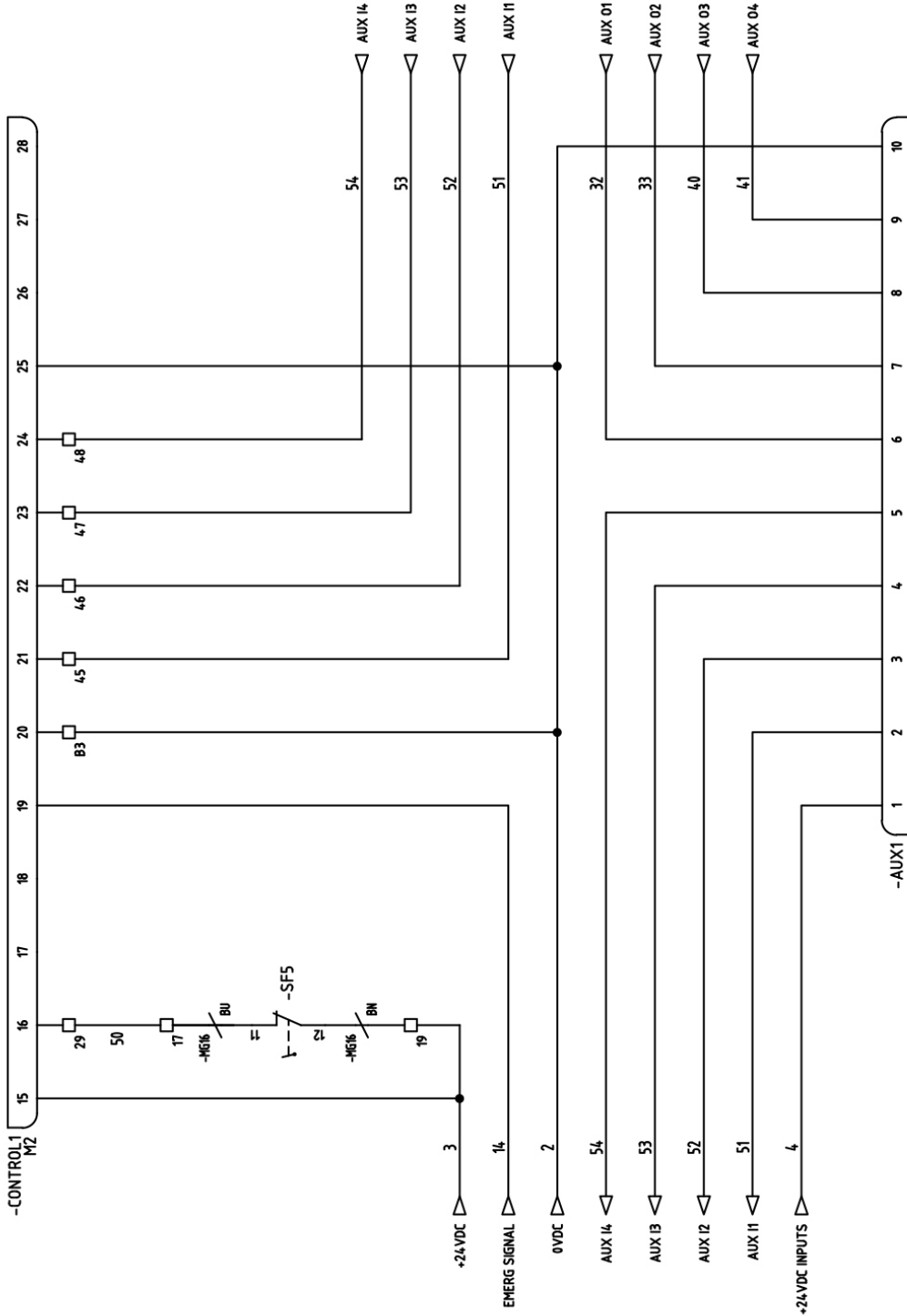
CONTROL 1 : ESA NUMERIC CONTROL
 L1 : MODEL LAMP
 L2 : LOGO LAMP
 L3 : CUT AREA LAMP
 L4 : LASER CUT LINE
 FA2 : POWER SUPPLY 3.3VDC
 VF1 : FREQUENCY INVERTER



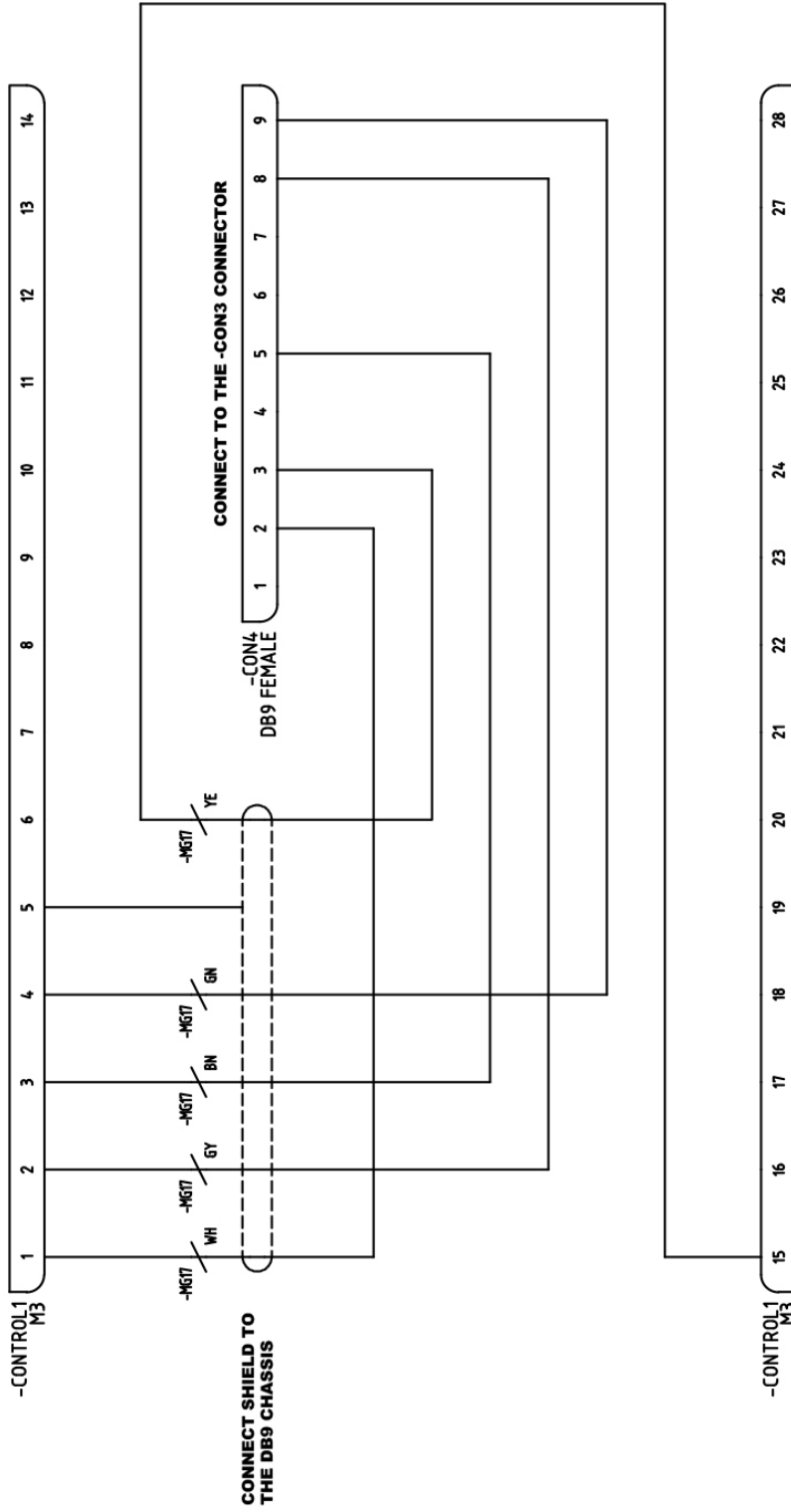
CONTROL.1 : ESA NUMERIC CONTROL
L5 : RESTART LAMP
K1 : PUMP CONTACTOR
EVD : DOWN ELECTROVALVE
EVU : UP ELECTROVALVE



CONTROL 1 : ESA NUMERIC CONTROL
 SF4 : BLADE UP LIMIT SWITCH
 SF6 : DOWN PEDAL
 ITX : X AXIS BACK GAUGE INDUCTIVE

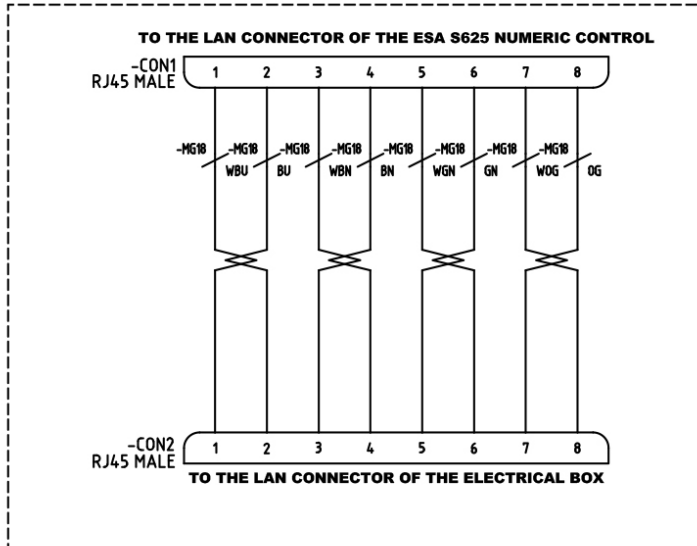


CONTROL 1 : ESA NUMERIC CONTROL
 SFS : BLADE DOWN LIMIT SWITCH
 AUX1 : AUXILIARY CONNECTOR

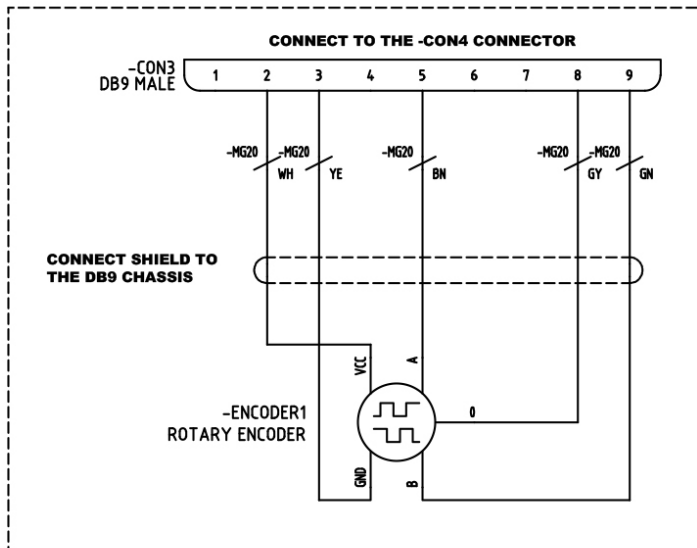


CONTROL 1 : ESA NUMERIC CONTROL

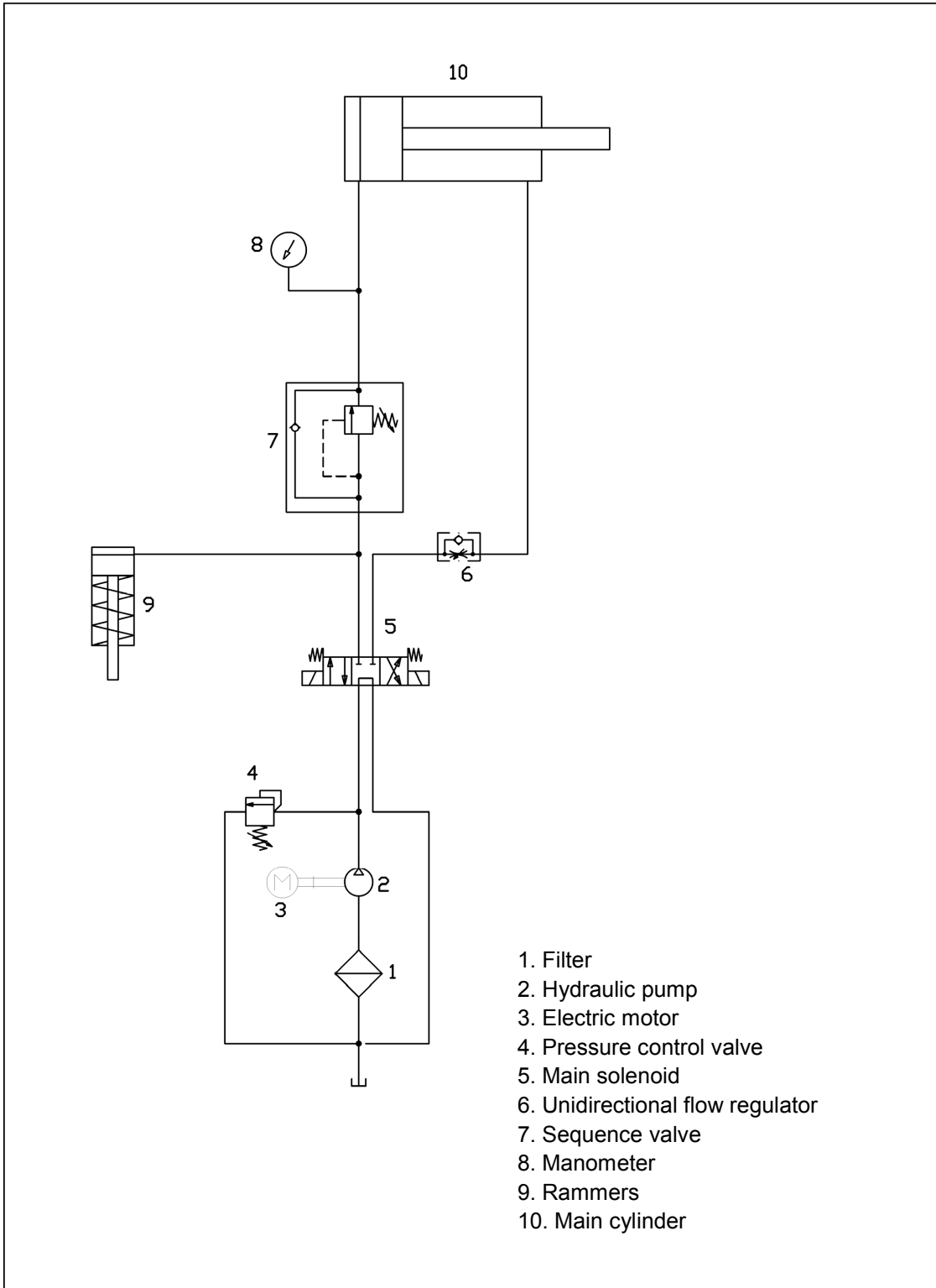
ETHERNET EXTENSION CABLE



ROTARY ENCODER



A3. Hydraulic map



- 1. Filter
- 2. Hydraulic pump
- 3. Electric motor
- 4. Pressure control valve
- 5. Main solenoid
- 6. Unidirectional flow regulator
- 7. Sequence valve
- 8. Manometer
- 9. Rammers
- 10. Main cylinder

ESQUEMA HIDRAULICO C3006/2006 NG		Ref.	Und.	Nº Desp.	Nombre	Fecha
		Num.		Dibujado	Tecnico 20	21-02-2019
Material		Medida corte		mm	Verificado	
Revestimiento			Tratamiento			
	Color	Peso	Tol. general	Maq.	CIZALLAS NG	
						<small>Ctra. de Garrigàs s. Sant Miquel s/n 17476 Palau Sta. Eulàlia (Girona) http://www.nargesa.com </small>

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SECTION BENDING MACHINES



NON-MANDREL PIPE BENDER



HORIZONTAL PRESS BRAKE



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HYDRAULIC SHEAR MACHINES



GAS FORGES



IRON EMBOSSING MACHINES



END WROUGHT IRON MACHINES



BROACHING MACHINES



POWER HAMMERS



PRESSES FOR LOCKS