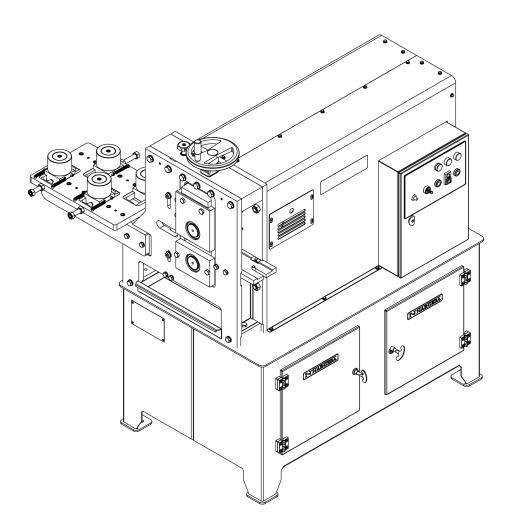


EMBOSSING MACHINE

NOA60

NS: 2018-119



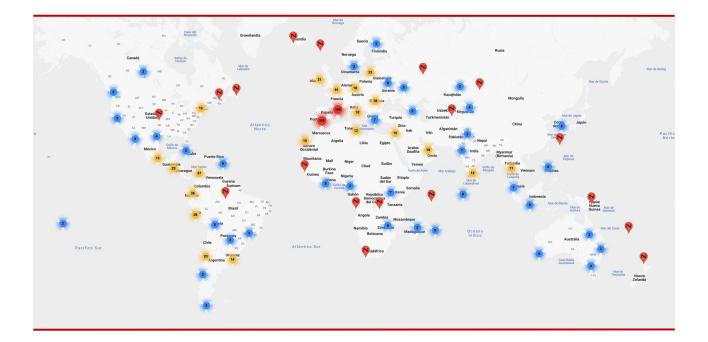
INSTRUCTIONS BOOK

PRADA NARGESA, S.L

Ctra. de Garrigàs a Sant Miquel s/n · 17476 Palau de Santa Eulàlia (Girona) SPAIN Tel. +34 972568085 · nargesa@nargesa.com · www.nargesa.com

NARGESA CLIENTS

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.



DO YOU WANT TO PARTICIPATE?

Send an email to nargesa@nargesa.com, include the following information and we will add you to this list.

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.



OUR RANGE OF MACHINERY

Ironworker Machines Ring Roller Bender and Pipe Bender Non-mandrel Tube and Pipe Bender Twisting / Scroll Bending Machines Horizontal Press Brakes End Wrought Iron Machines Gas Forges Iron Embossing Machines Hydraulic Shear Machines Hydraulic Press Brakes Presses for Locks Broaching Machines Power Hammers

CERTIFICATES

Prada Nargesa has several certifications that backup both, the design and manufacturing processes, as well as the journey through exporting our products around the world and the quality of the manufacturing components we use for our machines. These facts turn into real advantages for our customers:



AUTHORIZED EXPORTER

- Faster customs procedures
- Reduction of tariff documentation
- Tariff preferences according to geographical location



INNOVATIVE SME

- Development in innovation, design and manufacturing technologies
- Certification and aduit of efficiency in product and service
- Ability to foresee customer needs



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

AUSTRALIA

ESTADOS UNIDOS

Madison Environmental Resources

Capela & Filhos

Manufactured Alloy Xtras



ESPAÑA CBET Decoración SL UGANDA Steel Limited RUMANIA Gala Metal & Design SRL

DO YOU WANT TO PARTICIPATE?

Send an email to nargesa@nargesa.com including the following information and we will add you to our website

Company name

Testimonial name

Post in the Company

Country

Descriptive text

Photography with the machine

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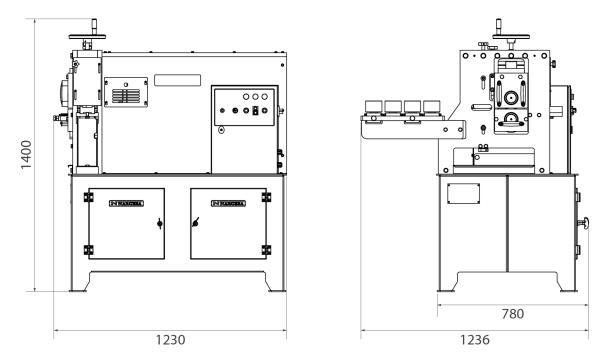
ANNEXES

Technical annexe

Technical features of accessories

1. CHARACTERISTICS OF THE MACHINE

1.1. General dimensions



1.2. Description of the machine

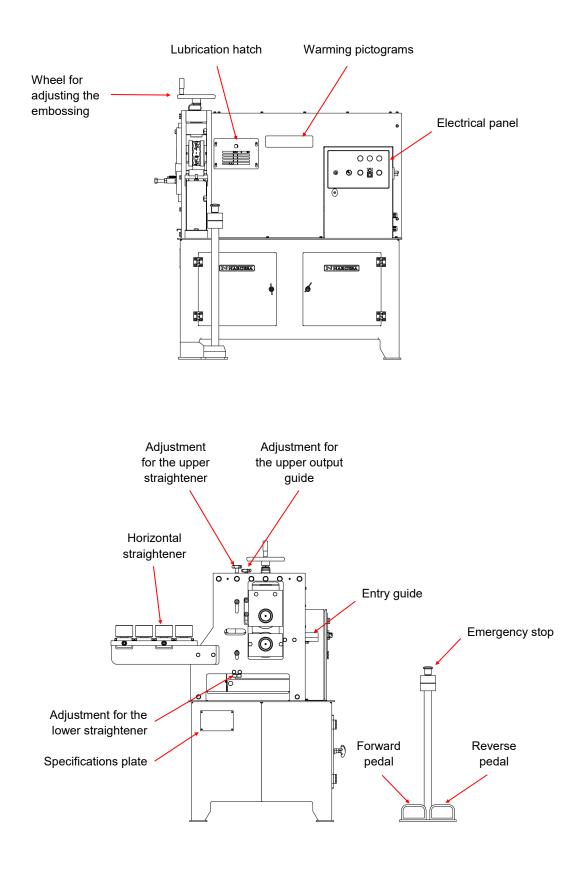
The NARGESA NOA60 machine is designed to cold emboss shapes and designs on plates, tubes, square sections. The shape and design engraved will depend on the rollers used.

NOTE:

Any other use of this machine apart from its specifications what it was designed for could damage it and harm the people using it, in which case the manufacturer will accept no responsibility.



1.3. Identifying parts of the machine



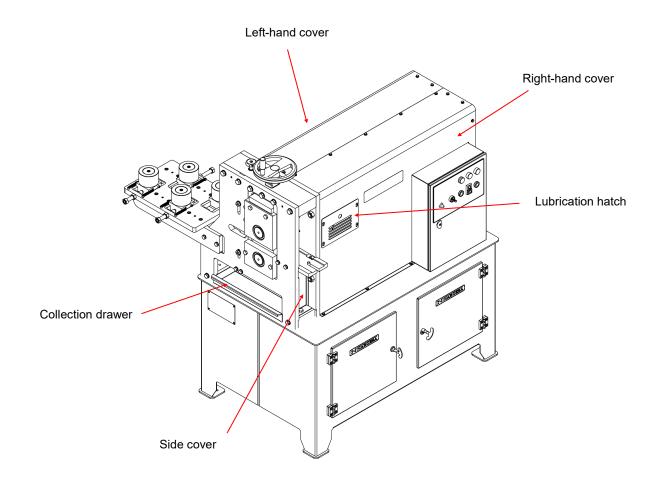
NARGESA® www.nargesa.com
PRADA NARGESA, S.L CTRA. DE GARRIGAS A SANT MIQUEL S/N 17476 PALAU DE STA. EULALIA (GIRONA) SPAIN - TEL.(+34) 972568085
TRADEMARK NARGESA MODEL NOA60
YEAR OF MANUFACTURE SERIAL Nº
DIMENSIONS 780x1230x1400 mm. WEIGHT 746 Kg.
POWER 5,5 Kw. INTENSITY 21/12 A. VOLTAGE V. Hz 50/60

1.4. General specifications

Electric motor 5.5 KW (7.5 HP) at 140	
Tension	230/400V Three-Phase 230V Single-Phase
Power consumption	21/12 A
Working speed	variable, 20 rpm. at 50 Hz nominal
Max. capacity quare tube	60 mm or 2" 1/2 inches
Max. capacity Solid square bar	20 mm or 3/4 inches
Max. capacity Plate60x10 mm or 2"x3/8 ir	
Weight	746Kg



1.5. Identifying the safeguards

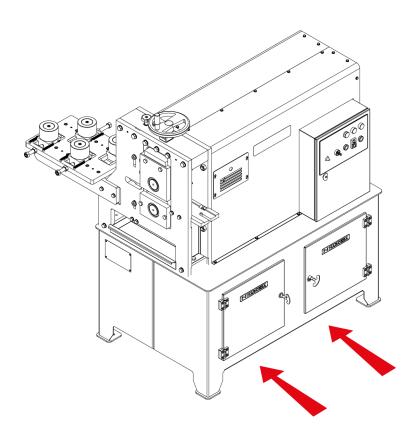


It is TOTALLY FORBIDDEN to operate the machine without its safguards. These should only be removed in case of a breakdown or maintenance and always with the machine stationary.

2. TRANSPORTATION AND STORAGE

2.1. Transportation

Transportation of the machine is made by a forklift or by shovel, by using the clamping point of the lower base machine (designed for this purpose).



Risk of overturning the machine must be kept in mind.

2.2. Storage conditions

- * Relative humidity between 30% and 95% non-condensing.
- * Temperature 15 ° C and 55 ° C.
- * Do not stack anything on the machine.
- * Do not disassemble the machine for storage.

3. MAINTENANCE AND CLEANING

3.1. General maintenance

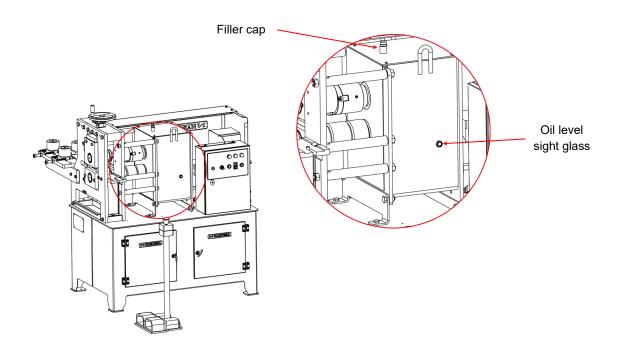
The NARGESA NOA60 engraving machine has been designed to be practically maintenance-free. Nevertheless, it is necessary to check the oil level of the gearbox and lubricate the transmission joint.

3.1.1. Oil level

To check the oil level of the gearbox there is a side sight glass, to access the sight glass, remove the side cover and make sure that the oil level is in the centre of the sight glass.

If this is not the case, look for any possible oil leaks, which must be repaired. In case of any doubt, our Technical Service can advise you at any time. If there are no leaks, top up the gearbox with SAE 80-140 oil through the filling cap until the level is in the middle of the sight glass.

This operation should be repeated every three months in case of continuous use of the machine.

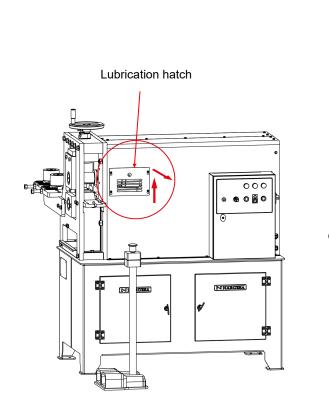


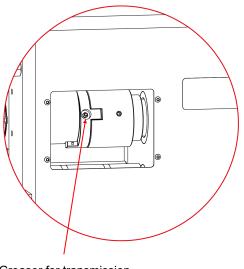
3.1.2. Lubricating the Transmission joint

The Transmission joint transmits the movement to the upper roller, which can move up or down.

This component should be lubricated approximately every 40 hours of operation.

To lubricate the transmission joint, remove the lubrication hatch and rotate the machine until the greaser is aligned with the opening and lubricate the joint with a lubrication pump.





Greaser for transmission joint

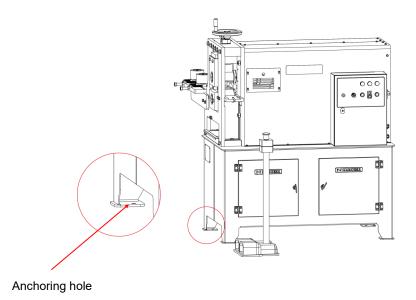
3.2. Cleaning

The NARGESA NOA60 engraving machine is designed to emboss material, this operation will produce scale. The machine has a tray to collect this below the rollers and the vertical straightener. This should be removed and cleaned out regularly.

4. INSTALLATION

4.1. Locating the machine

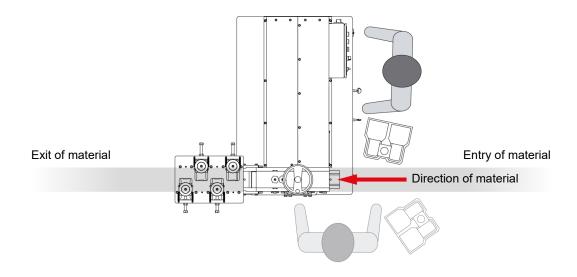
The NARGESA NOA60 machine should be located on a smooth level surface. It can be anchored to the floor using the holes provided for this purpose in the base.



4.2. Work area

To use the NARGESA NOA60 machine, it is necessary to provide for enough space to load the material and for it to exit the machine.

The working position is at the front and from the side as indicated in the illustration.

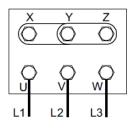


4.3. Admissible outer conditions

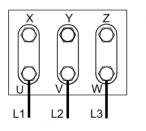
The working conditions of the machine NF70 NARGESA ranges between +5 ° C and +50 ° C and the maximum continuous temperature +45 ° C (24 hours) The condition of humidity ranges between 30% and 90% non-condensing.

4.4. Electrical connection

The NARGESA NOA60 embossing machine is designed to be connected to a 230 or 400V three-phase 50/60Hz mains power supply.



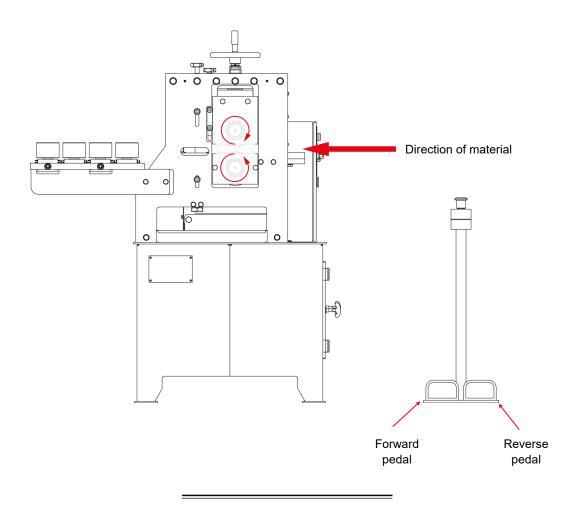
Star figure (Pre-installed) For 400V



Triangle figure For 230V

If the line voltage isn't as indicated: the frequency inverter IS NOT MULTI-TENSION so if we have to change the voltage, the inverter must be replaced depending on the supply tension.

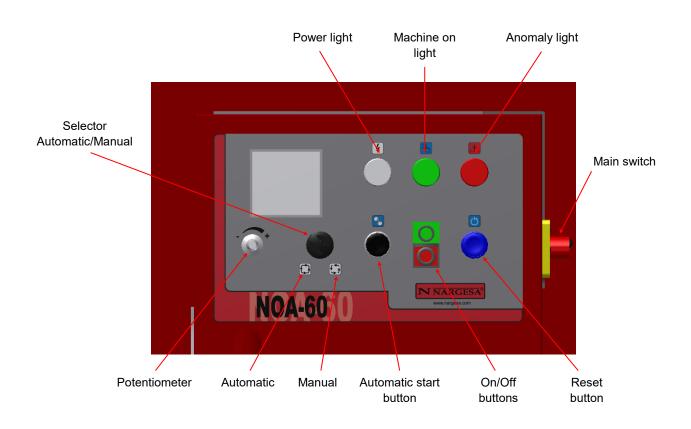
On using the machine, take into account that the direction of rotation of the rollers is as indicated in the illustration when the forward pedal is depressed.



5. OPERATING MANUAL

5.1. Description of the Control Panel

The electric panel is on the front of the machine, incorporating the control panel described below.



5.2. Start up

To begin working with the Nargesa NOA60 embossing machine, proceed as follows:

- Connect the machine to the electrical power supply.

- Turn Main switch to position 1. The white and red pilot lights will come on.

- Press the reset button (Blue button) and the red pilot light should go off, if this is not the case, check the emergency stop of the pedal. If it is activated, check that there is no problem in the roller area and unlock it. Press the blue reset button again, the pilot light should go off.

- Press the On button and when the green light comes on, the machine is ready for use.

5.3. Operation modes

The Nargesa NOA60 embossing machine has 2 different operation modes, which are: Manual: Mode in which we can adjust the machine for production. Continuous/Automatic: For working in continuous mode.

5.3.1. Manual operation mode

This mode of operation allows total control of the Nargesa NOA60 embossing machine at a reduced and fixed rotation speed, to adjust the machine.

To select Manual Operation, start up the machine as indicated in section 5.2 and rotate the selector to manual operation mode, from that moment and with the aid of the pedals, you can control the direction of rotation of the machine forwards or backwards, depending on the pedal pressed, when you stop pressing the pedal, the machine will stop. In this mode of operation, it is possible to adjust the machine.

5.3.2. Continuous/Automatic operation mode

Once the Nargesa NOA60 embossing machine is adjusted, this mode is used to begin mass production. To select this mode, turn the selector to the

Continuous/Automatic position 🔂 to start the machine:

- Press the Start Continuous/Automatic button on the control panel and the machine will begin to operate non-stop. To stop you will have to press the Stop Button.

In this mode of operation, the potentiometer on the Control Panel will enable you to adjust the speed of the machine.

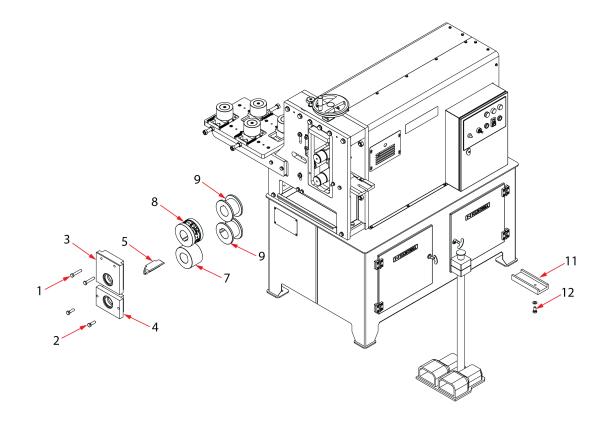
5.4. Changing Rollers and Adjusting

The Nargesa NOA60 embossing machine, as commented above, embosses designs from the rollers onto the material. This chapter will explain how to change the rollers and how to adjust them for optimum results.

Take into account the the marking of the different materials needs different rollers, i.e., if you are marking a tubular section you will need two identical rollers to make the same markings on the faces, if it is a handrail, you will need a smooth roller for the lower face and an embossed one for the upper. In both types it will be necessary to have entry guides for the material adequate for each dimension.



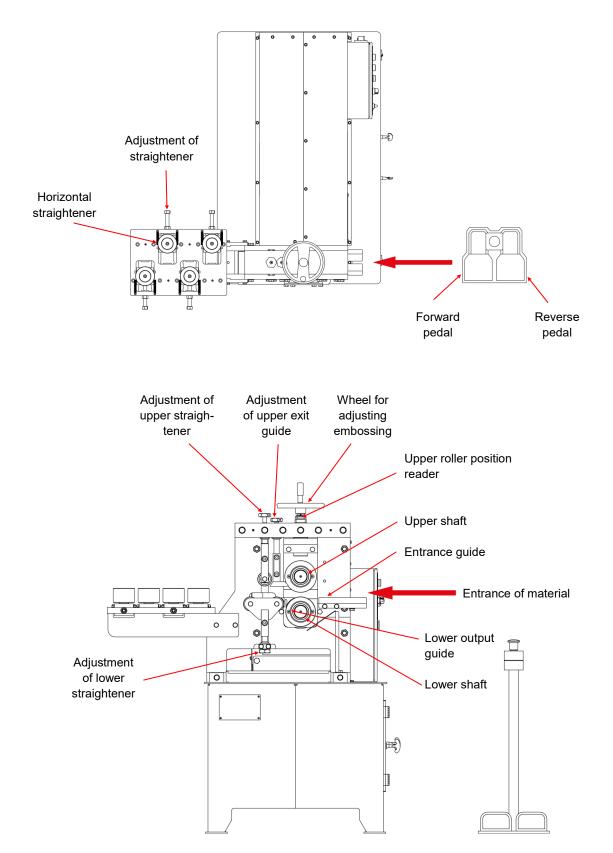
5.4.1. Changing the rollers



To change the rollers, raise the upper shaft using the Adjustment Wheel. Remove bolts 1 and 2 to release components 3 and 4, take out the lower guide 5. If you wish to emboss handrails, fit smooth roller 7 onto the lower shaft and the roller with the desired design 8 onto the upper shaft, fit the lower guide 5 into its housing, fit components 3 and 4 together with bolts 1 and 2 to secure them. Then fit the admission guide 11, which will be secured with bolt 12 to the machine. The NOA60 is now ready to begin adjustment, which will be explained in the following chapter.

If you wish to mark a tube, change roller 7 and 8 for rollers 9 **DO NOT INSTALL** the lower guide 5, as it is not necessary to mark tubes, fit components 3 and 4 with bolts 1 and 2 as well as the corresponding admission guide 11.

5.4.2. Adjusting the machine



To adjust the Nargesa NOA60 embossing machine, the first step is to choose manual operation mode, as described in section 5.3.1.

Once the manual operation mode has been chosen and the desired rollers fitted, we will proceed with the machine adjustment:

- Using the Embossing Adjustment Wheel, raise the upper shaft as high as it will go. - Raise the upper straightener roller as high as it will go. - Raise the upper exit guide.

- Lower the straightener rollers to their lowest position.

- Open the horizontal straighteners completely.

- Insert the bar of material you wish to emboss and check that there is no interference with the vertical and horizontal straighteners.

- Then, with the aid of the adjustment wheel, lower the embossing roller to press on the para material. You may have to lower the upper output guide to avoid interference with the roller.

- Once you feel pressure on the material, press the forward pedal for the machine to begin embossing.

- When the material comes out of the other end, observe the depth of the marking, if you want deeper embossing, press the reverse pedal until the material is released from the roller.

- Use the Adjustment Wheel to make deeper markings and press the forward pedal again. Repeat this action until the desired marking on the material is obtained.

- When the desired marking has been achieved, raise the lower straightener rollers until they touch the material without force. Carry out the same operation with the upper roller and with the output guide.

- If, when embossed, you observe that the material is curved vertically, proceed to adjust the upper and lower straighteners until the material comes out flat.

- If you observe a horizontal curve, adjust the horizontal straightener rollers until the material comes out straight.

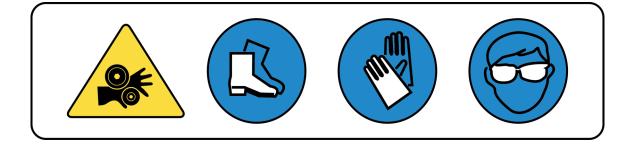
When all this has been done, the NARGESA NOA60 is ready for production in the Continuous/Automatic operation mode.

NOTE: Never adjust the force of the embossing rollers when they are pressing on the material, as this could damage the rollers.

6. WARNINGS

- Do not manipulate any component on the machine when it is in operation.
- Do not use the machine for any purpose apart form those described in this manual.
- Use gloves when handling the machine components and during the work processes.
- Use goggles and homologated protective boots.
- Hold the base material.
- Do not use the machine without its protective elements fitted

NARGESA SL will not be held liable for any accident caused by negligence on the part of the worker, for not following the use and safety instructions presented in this manual.



7. TOOLING

Embossing roller 01

Reference: 140-11-01-00001.40 Roller to emboss a 40 mm or 1"-1/2 inches handrail Guide 140-11-01-00401 or 140-11-01-00402 is required Ask the manufacturer about different dimensions

Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,5 Kg

▶ Embossing roller 02



Reference: 140-11-01-00002.40

Roller to emboss a 40 mm or 1"-1/2 inches handrail Guide 140-11-01-00401 or 140-11-01-00402 is required Ask the manufacturer about different dimensions



Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,5 Kg

Embossing roller 03



Reference: 140-11-01-00003.40

Roller to emboss a 40 mm or 1"-1/2 inches handrail Guide 140-11-01-00401 or 140-11-01-00402 is required Ask the manufacturer about different dimensions



Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,5 Kg

Embossing roller 04



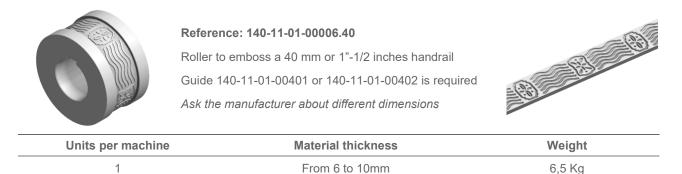
Reference: 140-11-01-00004.40



Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,5 Kg

	Reference: 140-11-01-00005.40 Roller to emboss a 40 mm or 1"-1/2 inches handrail Guide 140-11-01-00401 or 140-11-01-00402 is required <i>Ask the manufacturer about different dimensions</i>	AMMAN MANANANANANANANANANANANANANANANANA
Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,5 Kg

► Embossing roller 06



Embossing roller 07



Reference: 140-11-01-00007.40

Roller to emboss a 40 mm or 1"-1/2 inches handrail Guide 140-11-01-00401 or 140-11-01-00402 is required Ask the manufacturer about different dimensions



Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,5 Kg

Embossing roller 08



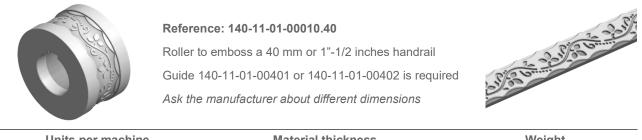
Reference: 140-11-01-00008.40



Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,5 Kg

	Reference: 140-11-01-00009 Roller to emboss handrail up to 60 mm Guide 140-11-01-00401, 140-11-01-00402 or 140-11-01-00400 is required	
Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,1 Kg

Embossing roller 10



Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,5 Kg

Embossing roller 11



Reference: 140-11-01-00011.40

Roller to emboss a 40 mm or 1"-1/2 inches handrail Guide 140-11-01-00401 or 140-11-01-00402 is required Ask the manufacturer about different dimensions



Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,5 Kg

Embossing roller 12



Reference: 140-11-01-00012.40



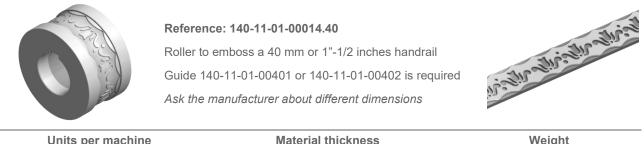
Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,5 Kg

Units per machine	Guide 140-11-01-00401 or 140-11-01-00402 is required Ask the manufacturer about different dimensions Material thickness	Weight
Stre stiller	Reference: 140-11-01-00013.40 Roller to emboss a 40 mm or 1"-1/2 inches handrail	216 Mar 216

From 6 to 10mm

Embossing roller 14

1



Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,5 Kg

Embossing roller 15



Reference: 140-11-01-00015.40

Roller to emboss a 40 mm or 1"-1/2 inches handrail Guide 140-11-01-00401 or 140-11-01-00402 is required Ask the manufacturer about different dimensions



6,5 Kg

Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,4 Kg

Embossing roller 16



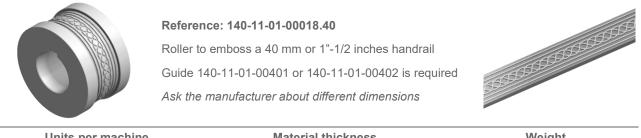
Reference: 140-11-01-00016.40



Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,4 Kg

	Reference: 140-11-01-00017.40 Roller to emboss a 40 mm or 1"-1/2 inches handrail Guide 140-11-01-00401 or 140-11-01-00402 is required <i>Ask the manufacturer about different dimensions</i>	
Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,4 Kg

Embossing roller 18



Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,4 Kg

Embossing roller 19



Reference: 140-11-01-00019.40 Roller to emboss a 40 mm or 1"-1/2 inches handrail Guide 140-11-01-00401 or 140-11-01-00402 is required

जार्रधेव्य मार्दा

Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,4 Kg

Ask the manufacturer about different dimensions

Embossing roller 20



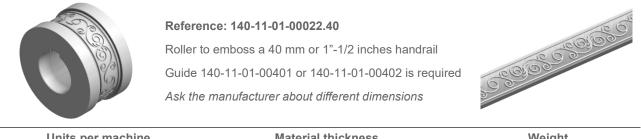
Reference: 140-11-01-00020.40



Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,5 Kg

	Reference: 140-11-01-00021.50 Roller to emboss a 50 mm or 2" inches handrail Guide 140-11-01-00401 or 140-11-01-00402 is required <i>Ask the manufacturer about different dimensions</i>	
Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,4 Kg

Embossing roller 22



Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,4 Kg

Embossing roller 23



Reference: 140-11-01-00023 Roller to emboss handrail up to 60 mm Guide 140-11-01-00401, 140-11-01-00402, 140-11-01-00400 or 140-11-01-00300 is required



Units per machine	Material thickness	Weight
1	From 6 to 10mm	6 Kg

Embossing roller 24



Reference: 140-11-01-00024.40



Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,4 Kg

	Reference: 140-11-01-00025 Roller to emboss handrail up to 60 mm Guide 140-11-01-00401, 140-11-01-00402 or 140-11-01-00400 is required <i>Ask the manufacturer about different dimensions</i>	
Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,3 Kg

Roller for the side marking of flat bar



Reference: 140-11-01-00028

Sectioned roller to emboss different flat bar sizes on the same kit. Adjustable to flat bars of 25mm o 1", 30mm o 1" 1/4, 40mm o 1" 1/2 and 50mm o 2". Guide 140-11-01-00401, 140-11-01-00402, 140-11-01-00403 or 140-11-01-00404 is required Ask the manufacturer about different dimensions



Units per machine	Material thickness	Weight
1	From 5 to 12mm	12,5 Kg

Entrance guide for 60 mm handrail



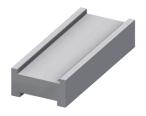
Reference: 140-11-01-00400 Entrance guide for 60 mm handrail. Weight: 4,3 Kg

▶ Entrance guide for 40 and 50 mm handrail



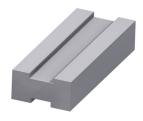
Ref: 140-11-01-00401 Inlet guide for 40 and 50 mm handrail Weight: 4 Kg

▶ Entrance guide for 1" 1/2 and 2" inches handrail



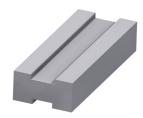
Ref: 140-11-01-00402 Inlet guide for 1" 1/2 and 2" inches handrail. Weight: 4 Kg

▶ Entrance guide for 25 and 30mm handrail



Ref: 140-11-01-00403 Inlet guide for 25 and 30 mm handrail. Weight: 4,300 Kg

► Entrance guide for 1" and 1" 1/4 inches handrail



Ref: 140-11-01-00404 Inlet guide for 1" and 1" 1/4 inches handrail. Weight: 4,300 Kg



Reference: 140-11-01-00201 Roller to emboss 12 and 15 mm or 1/2 inch handrail. For clamp forming Guide 140-11-01-00200 is required *Ask the manufacturer about different dimensions*

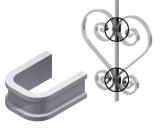


Units per machine	Material thickness	Weight
1	From 1 to 4 mm	6,5 Kg

Embossing roller 202



Reference: 140-11-01-00202 Roller to emboss 12 and 15 mm or 1/2 inch handrail. For clamp forming Guide 140-11-01-00200 is required *Ask the manufacturer about different dimensions*



Units per machine	Material thickness	Weight
1	From 1 to 4 mm	6,6 Kg

▶ Entrance guide for 12mm or 1/2" inch and 15 mm handrail



Reference: 140-11-01-00200 Entrance guide for 12 mm and 15 mm or 1/2" inch handrail Weight: 4,6 Kg

Set of embossing rollers 26



Reference: 140-11-01-00026

Rollers to emboss handrail up to 60 mm and square bar up to 20 mm or 3/4" inch Guide 140-11-01-00401, 140-11-01-00402, 140-11-01-00400 o 140-11-01-00300 is required To emboss edge square bar, an entrance guide is required 140-11-01-00027 Ask the manufacturer about different dimensions



Set per machine	Material thickness	Weight
1		11,4 Kg

Entrance guide for edge square bar



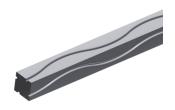
Reference: 140-11-01-00027 Entrance guide to emboss edge square bar up to 20mm or 3/4" inch Set of embossing rollers 140-11-01-00026 is required Weight: 18 Kg

Set of embossing rollers 302



Reference: 140-11-01-00302

Rollers to emboss square bar up to 12 mm or 1/2", 16 mm or 5/8" and 18 mm. Guide 140-11-01-00300 is required Ask the manufacturer about different dimensions



Set per machine	Material thickness	Weight
1		12,6 Kg

▶ Set of embossing rollers 303



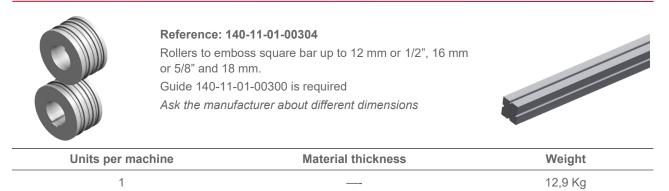
Reference: 140-11-01-00303

Rollers to emboss square bar up to 10 mm or 3/8", 14 mm or 9/16" and 20 mm o 3/4" inch Guide 140-11-01-00300 is required Ask the manufacturer about different Ask the manufacturer



Units per machine	Material thickness	Weight
1		12,9 Kg

Set of embossing rollers 304



► Set of embossing rollers 301



Reference: 140-11-01-00301

Rollers to emboss square bar up to 10 mm or 3/8", 14 mm or 9/16" and 20 mm or 3/4" inch Guide 140-11-01-00300 is required *Ask the manufacturer about different dimensions*



Set per machine	Material thickness	Weight
1		12,6 Kg

Entrance guide for square bar



Reference: 140-11-01-00300

Entrance guide for square bar of 10mm or 3/8", 12mm or 1/2", 14mm or 9/16", 16mm or 5/8" , 18mm and 20 mm or 3/4" inch Weight: 4 Kg

▶ Set of embossing rollers for 25 mm or 1 ", 30 mm or 1" 1/4, 35 and 40 mm pipes

Ask the manufacturer about different dimensions



Ref: 140-11-01-00500

Set of sectioned rollers to emboss different square or rectangular pipe sizes with the same set. Adjustable to the following pipes: **Square pipes:** 25mm or 1", 30mm or 1" 1/4, 35 and 40mm **Rectangular pipes:** 25x20mm or 1"x3/4", 30x20mm or 1"1/4x3/4", 30x25mm, 35x20mm, 35x25mm, 40x20mm, 40x25mm, 40x35mm Guide 140-11-01-00501 or 140-11-01-00502 is required



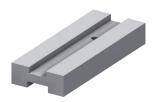
Set per machine	Material minimum thickness suggested by manufaturer	Weight
1	3 mm	12 Kg

Inlet guide for 25 mm or 1" and 30 mm or 1" 1/4 Pipe



Ref: 140-11-01-00501 Inlet guide for 25 mm or 1" and 30 mm or 1" 1/4 pipe Weight: 3 Kg

Inlet guide for 35 and 40 mm pipe



Ref: 140-11-01-00502 Inlet guide for 35 and 40 mm pipe Weight: 2,8 Kg

Set of embossing rollers for 50 and 60mm pipes



Ref: 140-11-01-00503

Set of sectioned rollers to emboss different square or rectangular pipe sizes with the same set. Adjustable to the following pipes:

Square pipes: 50mm or 60mm

Rectangular pipes: 50x20mm, 50x25mm, 50x30mm, 50x35mm, 50x40mm, 50x45mm, 60x20mm, 60x25mm, 60x30mm, 60x35mm, 60x40mm, 60x45mm, 60x50mm or 60x55mm

Guide 140-11-01-00505 or 140-11-01-00506 is required *Ask the manufacturer about different dimensions*



Set per machine	Material minimum thickness suggested by manufaturer	Weight
1	3 mm	6 Kg

Inlet guide for 50 mm pipe



Ref: 140-11-01-00505 Inlet guide for 50 mm pipe Weight: 2,4 Kg

Inlet guide for 60 mm pipe



Ref: 140-11-01-00506 Inlet guide for 60 mm pipe Weight: 2,2 Kg

▶ Set of embossing rollers for 1" 1/2, 2" and 2" 1/2 inches pipes



Ref: 140-11-01-00507

Set of sectioned rollers to emboss different square or rectangular pipe sizes with the same set. Adjustable to the following pipes: **Square pipes:** 1" 1/2, 2" and 2" 1/2 inches **Rectangular pipes:** 1"1/2x3/4", 1"1/2x1", 2"x1", 2"x1"1/4, 2"x1"1/2, 2"1/2x1"1/2 inches Guide 140-11-01-00508, 140-11-01-00509 or 140-11-01-00510 is required Ask the manufacturer about different dimensions



Set per machine	Material minimum thickness suggested by manufaturer	Weight
1	3 mm	6 Kg

▶ Inlet guide for 1" 1/2 inches pipe



Ref: 140-11-01-00508 Inlet guide for 1" 1/2 inches pipe Weight: 2,6 Kg

Inlet guide for 2" inches pipe



Ref: 140-11-01-00509 Inlet guide for 2" inches pipe Weight: 2,4 Kg

▶ Inlet guide for 2" 1/2 inches pipe



Ref: 140-11-01-00510 Inlet guide for 2" 1/2 inches pipe Weight: 2,2 Kg

Rollerstand



Ref: 140-00-00-00004 Seven-rollers stand *Ask the manufacturer about different dimensions*

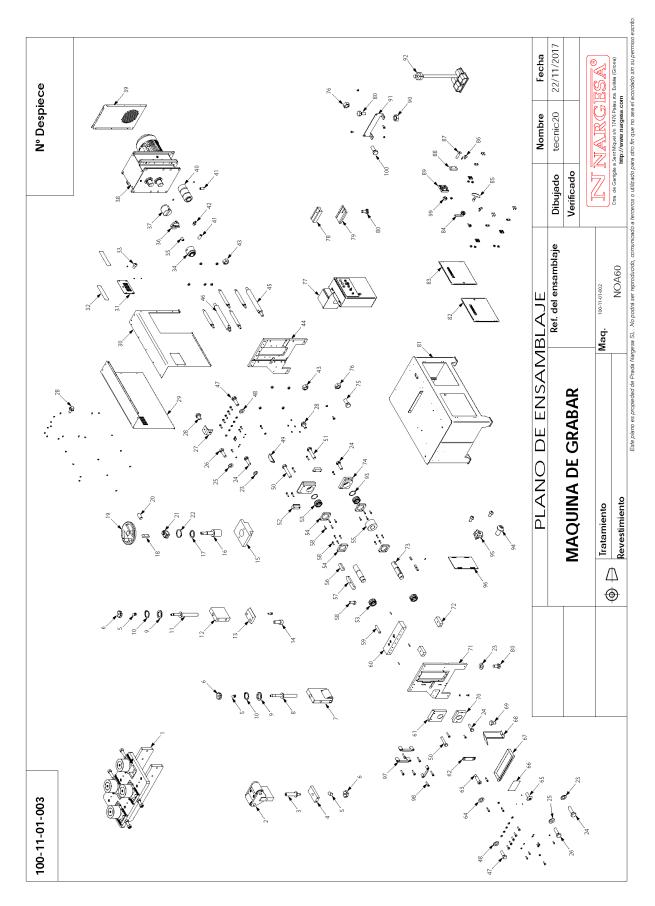
Working Height	Dimensions	Load capacity	Weight
650 / 1200 mm	2050x470 mm	800 Kg	65 Kg

Technical annexe NOA60 Embossing machine

Exploded view Horizontal straightener assembly Horizontal straightener roller assembly Lower straightener assembly Moving straightener roller Upper straightener assembly Gearbox assembly Electric maps · THREEPHASE MACHINE Electric maps · SINGLEPHASE MACHINE



A1. Exploded view



N° ORDEN	DIBUJO	DESCRIPCION	Nº PLANO	CANTIDAD
1		CONJUNTO ENDEREZADOR HORIZONTAL	130-11-01-00308	1
2	0000	CONJUNTO ENDEREZADOR INFERIOR	130-11-01-00306	1
3	Į.	CONJUNTO VARILLA ROSCADA ENDEREZADOR INFERIOR	130-11-01-00302	1
4	C	SEPARADOR INFERIOR ENDEREZADOR	120-11-01-00372	1
5		ESPARRAGO ALLEN DIN 913 M8X12	020-D913-M8X12	3
6	\bigcirc	HEXAGONAL ACCIONAMIENTO	120-11-01-00369	3
7	000	CONJUNTO ENDEREZADOR SUPERIOR	130-11-01-00305	1
8	۰۱۳-)	CONJUNTO VARILLA ROSCADA ENDEREZADOR SUPERIOR	130-11-01-00303	1
9		ARANDELA APOYO VARILLAS SUPERIORES	120-11-01-00391	2
10	0	CIRCLIP DE EJE DIN 471 Ø16	030-D471-00003	2
11	Û	CONJUNTO VARILLA ROSCADA PATIN ENTRADA SUPERIOR	130-11-01-00313	1
12	0000	SOPORTE PATIN SUPERIOR ENTRADA	120-11-01-00386	1
13	0	PATIN SUPERIOR ENTRADA ENDEREZADOR	120-11-01-00385	1
14	(f) Inner	TORNILLO ALLEN DIN 912 M12X25	020-D912-M12X25	2
15		UNION MOVIL SUPERIOR	120-11-01-00313	1
16	L)	EJE PRINCIPAL MOVIMIENTO VERTICAL	120-11-01-00314	1
17	\bigcirc	ARANDELA APOYO EJE PRINCIPAL	120-11-01-00392	1
18		CHAVETA PARALELA DIN 6885 A 6X6X18	030-D6885A-00031	1
19		VOLANTE ACCIONAMIENTO NOA60	120-11-01-00394	1
20	911111	ESPARRAGO ALLEN DIN 913 M6X12	020-D913-M6X12	1

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N° ORDEN	DIBUJO	DESCRIPCION	Nº PLANO	CANTIDAD
21		CONTADOR DD52R-AR-0002.0-S-C3	031-CON-00003	1
22	\bigcirc	CIRCLIP EJE DIN 471 Ø25	030-D471-00008	1
23	0	ARANDELA DIN 125 B M12	020-D125B-M12	7
24	Canadana	TORNILLO HEXAGONAL DIN 933 M12X40	020-D933-M12X40	8
25	6	ARANDELA DIN 125 B M10	020-D125B-M10	12
26	Commune	TORNILLO HEXAGONAL DIN 933 M10X35	020-D933-M10X35	12
27	1 and 1	SOPORTE FRONTAL TAPA FIJA	120-11-01-00364	1
28		TORNILLO HEXAGONAL EMBRIDADO M6X12	020-D6921-M6X12	25
29		CONJUNTO TAPA FIJA NOA60	130-11-01-00311	1
30		TAPA DERECHA MAQUINA DE GRABAR	120-11-01-00351	1
31	2 m m	TAPA ZONA ENGRASE	120-11-01-00363	1
32	<u> </u>	CALCA ADVERTENCIAS NOA60	122-CAL-1101-002	2
33	Deserved	TORNILLO ISO 7380 M6X10	020-17380-M6X10	4
34		ACOPLAMIENTO TRACCION LADO MAQUINA	120-11-01-00329	1
35		ESPARRAGO ALLEN DIN 913 M6X6	020-D913-M6X6	1
36		ACOPLAMIENTO CENTRAL TRACCION	120-11-01-00330	1
37		ACOPLAMIENTO TRACCION LADO REDUCTOR	120-11-01-00325	1
38	en	CONJUNTO REDUCTOR NOA60	130-11-01-00323	1
39		TAPA TRASERA NOA60	120-11-01-00352	1
40	000	ACOPLAMIENTO TRACCION INFERIOR	130-11-01-00301	1

N° ORDEN	DIBUJO	DESCRIPCION	Nº PLANO	CANTIDAD
41		ESPARRAGO ALLEN DIN 913 M10X20	020-D913-M10X20	4
42	S	ENGRASADOR DIN 71412 M8 RECTO	020-D71412-M8 RECTO	1
43	(C)	TUERCA HEXAGONAL DIN 934 M18	020-D934-M18	11
44	1	PLACA INTERIOR	120-11-01-00317	1
45	SP D	BARRA SEPARADORA PASANTE	120-11-01-00343	5
46	ap P	BARRA SEPARADORA ROSCADA	120-11-01-00344	1
47	(Company)	TORNILLO HEXAGONAL DIN 933 M14X45 8.8 PAVONADO	020-D933-M14X45	12
48	0	ARANDELA DIN 125 1B M14	020-D125B-M14	12
49		GUIA SALIDA PASAMANO	120-11-01-00382	1
50	Januar D.	TORNILLO HEXAGONAL DIN 931 M12X65	020-D931-M12x65	4
51	I among	TORNILLO HEXAGONAL DIN 931 M12X55	020-D931-M12X55	4
52	$\left\langle \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \end{array} \right\rangle$	GUIA EXTERIOR	120-11-01-00318	2
53		COJINETE DE RODILLOS DOBLE SL045011PP	030-CJ-00024	4
54		GRUESO LATERAL DE BRONCE	120-11-01-00402	4
55	\bigcirc	RODILLO INFERIOR MAQUINA DE GRABAR	120-11-01-00308	1
56		CHAVETA PARALELA DIN6885A 16X10X50	030-D6885A-00029	2
57	°	CHAVETA EJES PRINCIPALES	120-11-01-00354	2
58		TORNILLO ALLEN DIN 6912 M6X16	020-D6912-M6X16	18
59		PASADOR CILINDRICO DIN 7979D D8X40	030-D7979D-00006	4
60	0 0	SOPORTE SUPERIOR	120-11-01-00316	1

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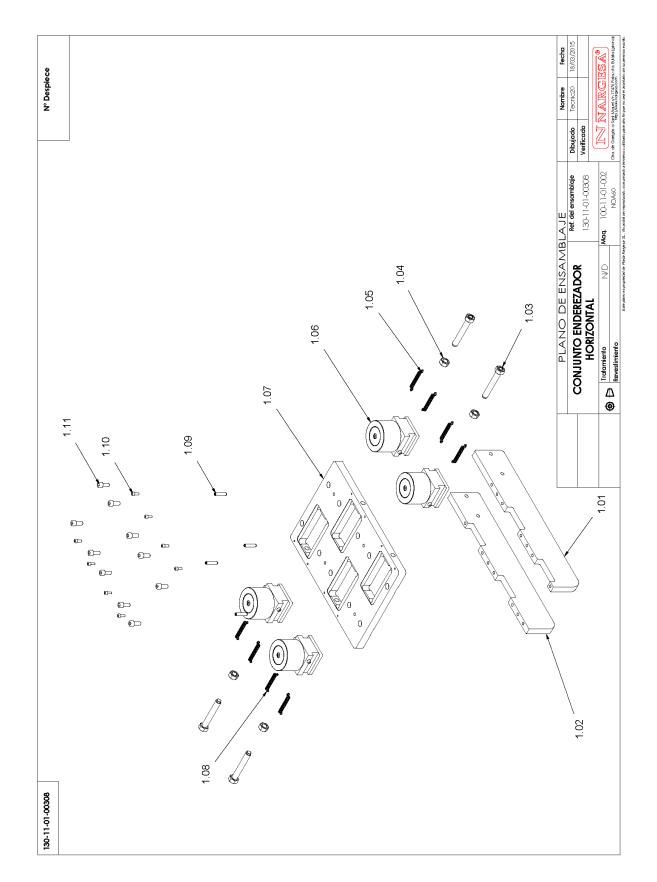
N° ORDEN	DIBUJO	DESCRIPCION	Nº PLANO	CANTIDAD
61	6.1	SOPORTE SUPERIOR EXTERIOR	120-11-01-00420	2
62	(o O)	PLACA APOYO EXTERIOR GUIA PATIN SUPERIOR	120-11-01-00387	1
63	OT D	TORNILLO GUIA ISO 7379 D14X40	020-I7379-D14X40	4
64	\bigcirc	ARANDELA GUIA EXTERIOR ENDEREZADORES	120-11-01-00393	2
65	O	REMACHE DE CLAVO DIN 7337 DE AL Ø3X8	020-D7337-3X8	4
66		PLACA CARACTERISTICAS NOA60	122-PLC-1101-001	1
67		CAJON RECOGEDOR	120-11-01-00370	1
68		TAPA PROTECCION FRONTAL INFERIOR	120-11-01-00373	1
69	Canadana	TORNILLO HEXAGONAL DIN 933 M12X20	020-D933-M12X20	1
70		SOPORTE INFERIOR EXTERIOR	120-11-01-00419	1
71		PLACA EXTERIOR	120-11-01-00315	1
72	C C	SOPORTE INFERIOR	120-11-01-00338	2
73	ale a	EJE MAQUINA DE GRABAR	120-11-01-00309	2
74	Ī	SOPORTE INFERIOR INTERIOR	120-11-01-00418	1
75	Commune	TORNILLO HEXAGONAL DIN 933 M14X35	020-D933-M14X35	2
76		TUERCA DIN 934 M14	020-D934-M14	4
77		KIT INSTALACION ELECTRICA MAQUINA DE GRABAR	050-KIE-1101-001	1
78		GUIA ENTRADA PASAMANO 50/40	120-11-01-00366	1
79		GUIA MATERIAL ENTRADA	120-11-01-00326	1
80	(Canadana)	TORNILLO HEXAGONAL DIN 933 M12X25	020-D933-M12X25	5

Nº ORDEN	DIBUJO	DESCRIPCION	Nº PLANO	CANTIDAD
81		CONJUNTO ESTRUCTURA MAQUINA DE GRABAR	130-11-01-00307	1
82		PUERTA IZQUIERDA MAQUINA GRABAR	120-11-01-00360	1
83		PUERTA DERECHA MAQUINA DE GRABAR	120-11-01-00361	1
84	ç	CIERRE DE LENGÜETA CON TRIANGULO 8 M20	031-CLT-00001	2
85	Z	LLAVE PARA CIERRE TRIANGULO DE 8 FLOTANTE NIQUELADA	031-LLT-00001	2
86	(t)	TORNILLO ALLEN DIN 7991 M6X16	020-D7991-M6X16	8
87	0	TORNILLO ALLEN DIN 7991 M6X25	020-D7991-M6X25	8
88		GRUESO PUERTA	120-12-02-00125	4
89	and a second	BISAGRA DE PLASTICO 30 ENTRE CENTROS	031-BP-00001	4
90		TUERCA DIN 934 M12	020-D934-M12	2
91		SOPORTE DELANTERO MAQUINA	120-12-02-00187	1
92		PEDAL DOBLE CON PARO DE EMERGENCIA	050-PED-00002	1
93	0	CIRCLIP EJE DIN471 D55	030-D471-00015	2
94	Dienend	TORNILLO ISO 7380 M6X 12	020-I7380-M6X12	3
95	C	POMO MACHO ESTRELLA MATE Ø28 M6X10	031-POMM-00002	1
96		PROTECCION SUPERIOR ENTRADA NOA60	120-11-01-00395	1
97	9-9	ASA PUENTE 145X40 2117	031-APM-00003	3
98		TORNILLO ALLEN DIN 912 M8X20	020-D912-M8X20	6
99		TUERCA DIN 934 M6	020-D934-M6	8
100	Communed	TORNILLO HEXAGONAL DIN 933 M14X40	020-D933-M14X40	2

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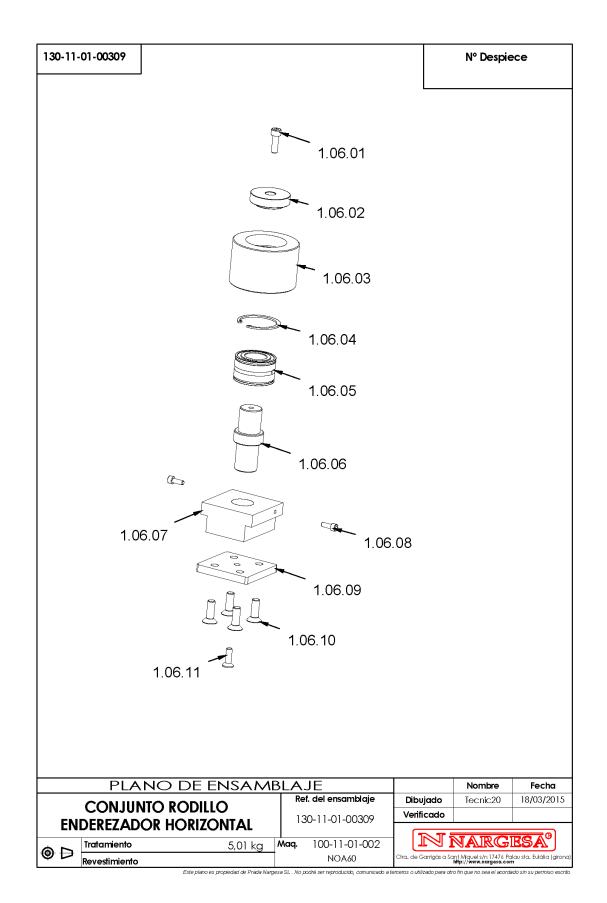
A2. Horizontal straightener assembly



N° ORDEN	DIBUJO	DESCRIPCION	N° PLANO	CANTIDAD
1.01	C. Stand	SOPORTE FRONTAL ENDEREZADOR TRASERO	120-11-01-00328	1
1.02	A A A A A A A A A A A A A A A A A A A	SOPORTE TRASERO ENDEREZADOR TRASERO	120-11-01-00327	1
1.03		TORNILLO REGULACION ENDEREZADORES HORIZONTALES	120-11-01-00417	4
1.04	6	TUERCA DIN 934 M16	020-D934-M16	4
1.05		MUELLE TRACCION D10X1.5 DERECHO	120-11-01-00378	4
1.06		CONJUNTO RODILLO ENDEREZADOR HORIZONTAL	130-11-01-00309	4
1.07		PLACA BASE ENDEREZADOR TRASERO	120-11-01-00331	1
1.08	Summer of	MUELLE TRACCION D10X1.5 IZQUIERDO	120-11-01-00377	4
1.09		PASADOR CILINDRICO DIN 7979D D8X40	030-D7979D-00006	4
1.10		TORNILLO ALLEN DIN 912 M6X16	020-D912-M6X16	8
1.11	8	TORNILLO ALLEN DIN 912 M10X25	020-D912-M10X25	10

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A3. Horizontal straightener roller assembly



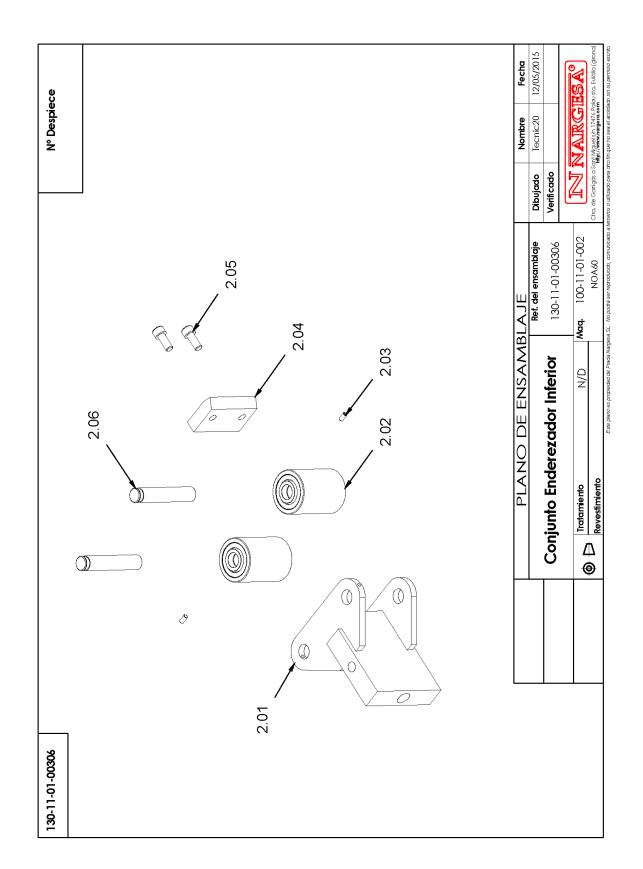
N° ORDEN	DIBUJO	DESCRIPCION	N° PLANO	CANTIDAD
1.06.01		TORNILLO ALLEN DIN 912 M8X25	020-D912-M8X25	4
1.06.02		TAPA RODILLO ENDEREZADOR HORIZONTAL	120-11-01-00337	4
1.06.03		RODILLO ENDEREZADOR HORIZONTAL	120-11-01-00333	4
1.06.04	\bigcirc	CIRCLIP AGUJERO DIN472 D55X2	030-D472-00014	4
1.06.05		RODAMIENTO DE RODILLOS DOBLE SL04506PP	030-CJ-00025	4
1.06.06	(EJE RODILLO ENDEREZADOR HORIZONTAL	120-11-01-00336	4
1.06.07		SOPORTE RODILLO ENDEREZADOR HORIZONTAL	120-11-01-00334	4
1.06.08		TORNILLO ALLEN DIN 912 M6X16	020-D912-M6X16	8
1.06.09		TAPA INFERIOR ENDEREZADOR HORIZONTAL	120-11-01-00335	4
1.06.10	0)	TORNILLO ALLEN DIN 7991 M10X30	020-D7991-M10X30	16
1.06.11	0)	TORNILLO ALLEN DIN 7991 M8X25	020-D7991-M8X25	4

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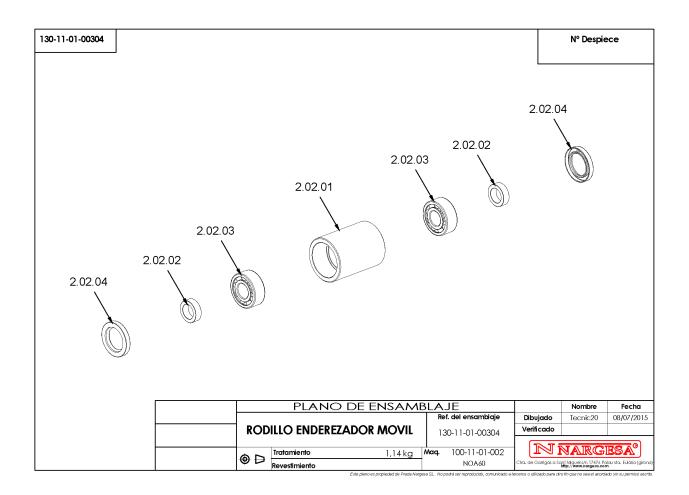
A4. Lower straightener assembly



N° OR DEN	DIBUJO	DESCRIPCION	N° PLANO	CANTIDAD
2.01	36	ESTRUCTURA ENDEREZADOR INFERIOR	130-11-01-00306-FM1	1
2.02		RODILLO ENDEREZADOR MOVIL	130-11-01-00304	2
2.03		ESPARRAGO ALLEN DIN 913 M6X12	020-D913-M6X12	2
2.04	<u>[]]</u>	PATIN INTERMEDIO	120-11-01-00379	1
2.05	0)	TORNILLO ALLEN DIN 912 M10X25	020-D912-M10X25	2
2.06		EJE RODILLO ENDEREZADOR DOBLE	120-11-01-00347	2

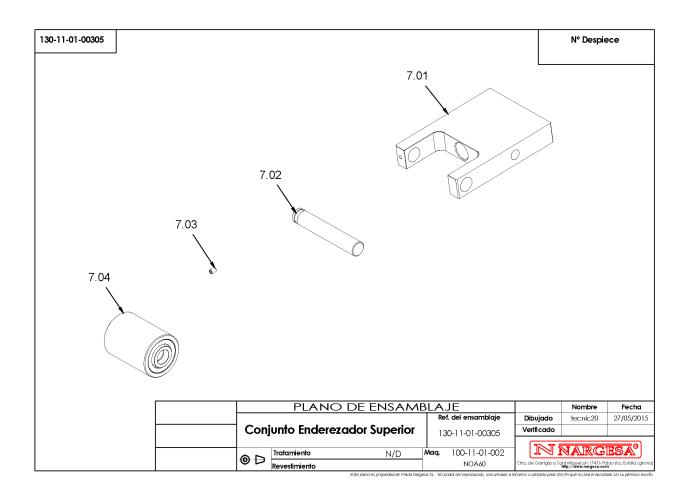


A5. Moving straightener roller



N° OR DEN	DIBUJO	DESCRIPCION	N° PLANO	CANTIDAD
2.02.01	Ø	RODILLO ENDEREZADOR	120-11-01-00320	2
2.02.02	\bigcirc	CASQUILLO RETEN RODILLO ENDEREZADOR	120-11-01-00389	4
2.02.03		RODAMIENTO DOBLE 4204ATN9 D20XD47X18	030-CJ-00026	4
2.02.04	0	RETEN D30XD47X7	040-RET-00010	4

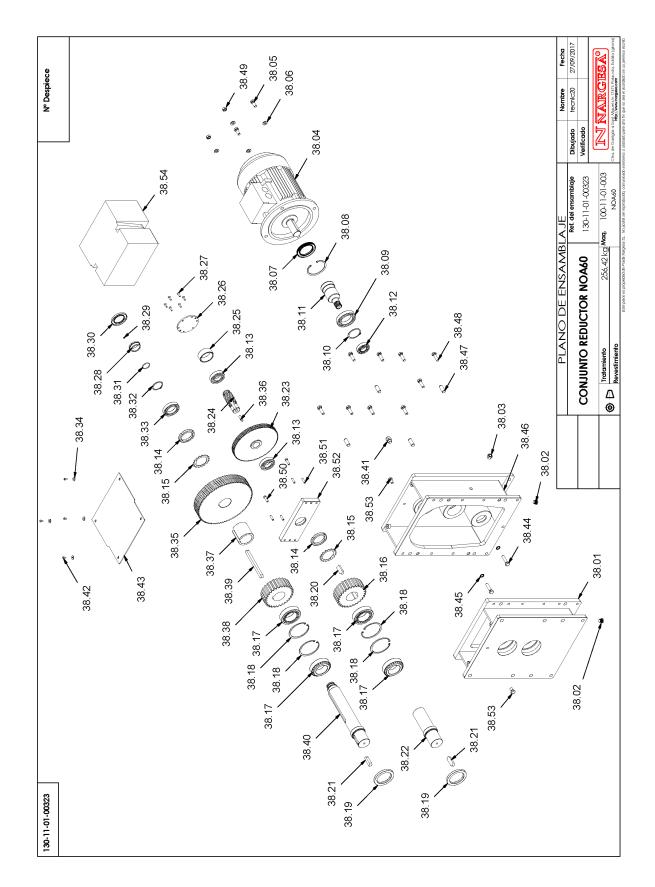
A6. Upper straightener assembly



N° ORDEN	DIBUJO	DESCRIPCION	N° PLANO	CANTIDAD
7.01		SOPORTE RODILLO ENDEREZADOR SUPERIOR	120-11-01-00319	1
7.02	\bigcirc	EJE RODILLO ENDEREZADOR	120-11-01-00348	1
7.03		ESPARRAGO ALLEN DIN 913 M6X8	020-D913-M6X8	1
7.04		RODILLO ENDEREZADOR MOVIL	130-11-01-00304	1



A7. Gearbox assembly



Nº ORDEN	DIBUJO	DESCRIPCION	Nº PLANO	CANTIDAD
38.01	000	CARCASA REDUCTOR LADO MAQUINA	130-11-01-00321	1
38.02		TAPON DE VACIADO ALLEN 3/8" GAS	040-TVA-00004	2
38.03		NIVEL DE ACEITE 3/8"	040-NA-00001	1
38.04	(Sp)	MOTOR ELECTRICO DE 5.5 KW A 1400 RPM BRIDA B5	050-ME-00010	1
38.05	(ananad)	TORNILLO HEXAGONAL DIN 933 M12X30	020-D933-M12X30	2
38.06		ARANDELA DIN 125 B M12	020-D125B-M12	4
38.07	Ø	RETEN D65XD95X10	040-RET-00006	1
38.08		CIRCLIP AGUJERO DIN472 D95X3	030-D472-00013	1
38.09		COJINETE DE BOLAS 6012 D60XD95X18	030-CJ-00010	1
38.10	0	CIRCLIP EJE DIN471 D60	030-D471-00012	1
38.11	OD	PIÑON ENTRADA MOTOR	120-12-02-00017	1
38.12		COJINETE DE RODILLOS NJ206 D30XD62X16	030-CJ-00017	1
38.13		COJINETE DE BOLAS 6207 D35XD72X17	030-CJ-00013	2
38.14	Ø	TUERCA RANURADA DIN 981 M60X2 KM12	020-D981-KM12	2
38.15		ARANDELA FIJACIÓN TUERCA KM-12 EJE INFERIOR	120-12-02-00191	2
38.16		ENGRANAJE INFERIOR REENVIO	120-12-02-00113	1
38.17	Ø	COJINETE RODILLOS CONICOS 33112 60X100X30	030-CJ-00006	4
38.18		CIRCLIP AGUJERO DIN472 D100X3	030-D472-00011	4
38.19	Ø	RETEN D70XD100X10	040-RET-00007	2
38.20		CHAVETA DIN 6885 AB 18X11X47	030-D6885AB-00006	1

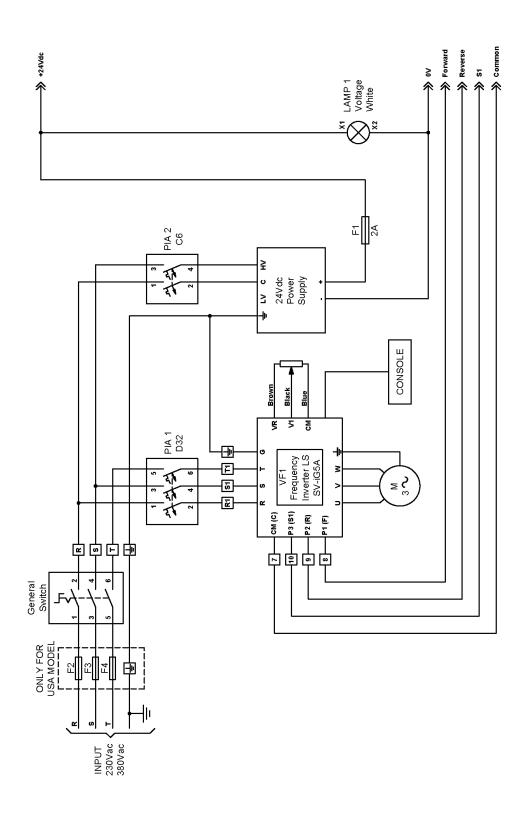
Nº ORDEN	DIBUJO	DESCRIPCION	Nº PLANO	CANTIDAD
38.21		CHAVETA PARALELA DIN6885A 18X11X56	030-D6885A-00028	2
38.22	000	EJE MOTRIZ INFERIOR	120-11-01-00401	1
38.23	\bigcirc	ENGRANAJE 1	120-12-02-00109	1
38.24		PIÑON 2	120-12-02-00110	1
38.25		SEPARADOR COJINETE	120-12-02-00136	1
38.26	a a	TAPETA COJINETE INFERIOR	120-12-02-00134	1
38.27	0)	TORNILLO ALLEN DIN 7991 M6X20	020-D7991-M6X20	6
38.28		ANILLO TRASERO CAJA MAQUINA GRABAR	120-11-01-00376	1
38.29		ESPARRAGO ALLEN DIN 913 M5X6	020-D913-M5X6	1
38.30	O	RETEN D50XD80X8	040-RET-00002	1
38.31	\bigcirc	JUNTA TORICA D34X3 90 SHORE	040-JT-00029	1
38.32	0	CIRCLIP EJE DIN471 D50	030-D471-00011	1
38.33		COJINETE DE BOLAS 6010 D50XD80X16	030-CJ-00009	1
38.34	0	ARANDELA DIN 9021 M6	020-D9021-M6	4
38.35		ENGRANAJE 2	120-12-02-00111	1
38.36		CHAVETA DIN6885 A 10X8X32	030-D6885A-00024	1
38.37	\bigcirc	CASQUILLO SEPARADOR 2	120-12-02-00135	1
38.38	Contraction of the second	ENGRANAJE SUPERIOR REENVIO	120-12-02-00112	1
38.39		CHAVETA DIN 6885 A 18X11X180	030-D6885A-00025	1
38.40	00	EJE MOTRIZ SUPERIOR	120-11-01-00400	1

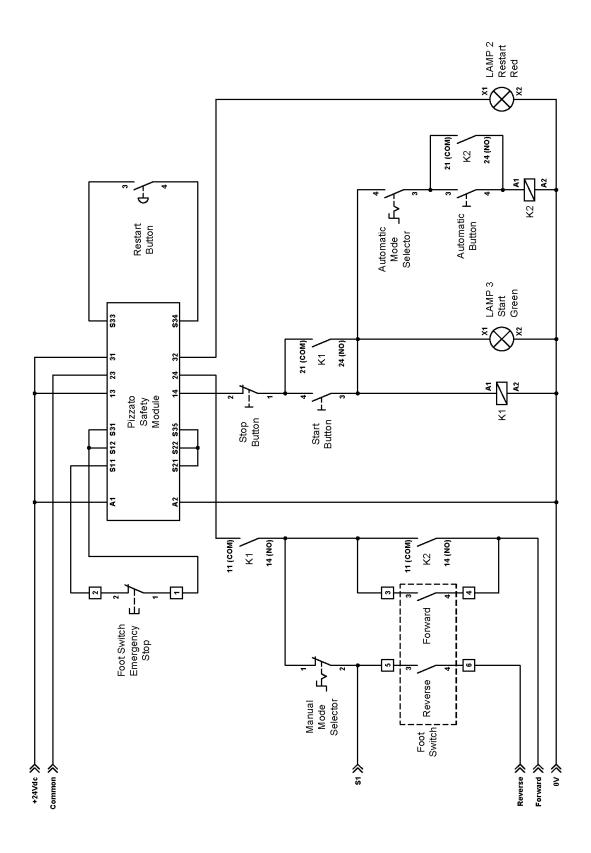
=

N° ORDEN	DIBUJO	DESCRIPCION	N° PLANO	CANTIDAD
38.41	(HO	TAPON RESPIRADERO 3/8"	040-TRE-00001	1
38.42	Terre	TORNILLO ISO 7380 M6X12 020-17380-M6X		4
38.43	\bigcirc	TAPA REDUCTOR	120-11-01-00416	1
38.44	Taranad	TORNILLO HEXAGONAL DIN 933 M12X50	020-D933 - M12X50	2
38.45	\bigcirc	JUNTA METAL GOMA 1/4*	040-JMG-00002	2
38.46	(CARCASA REDUCTOR LADO MOTOR	130-11-01-00322	1
38.47		PASADOR CILINDRICO CON ROSCA INT. DIN7979/D D16X40	030-D7979D-00020	4
38.48	and	TORNILLO HEXAGONAL DIN 933 M12X40	020-D933 - M12X40	9
38.49		TUERCA DIN 934 M12	020-D934 - M12	2
38.50		TORNILLO ALLEN CABEZA REDUCIDA DIN 6912 M8X30 020-D6912-M8X30		2
38.51		PASADOR CILINDRICO DIN 7979D D8X30 030-D7979D-00004		4
38.52		SOPORTE CENTRAL REDUCTOR 120-11-01-00415		1
38.53	(Januar)	TORNILLO HEXAGONAL DIN 933 M12X20 020-D933-M12X20		2
38.54		VALVULINA SAE 80-140		15



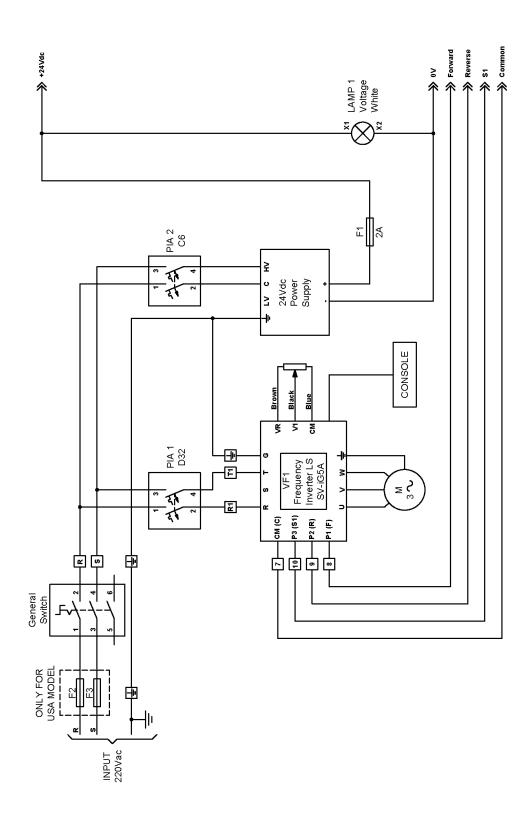
A8. Electric maps · THREEPHASE MACHINE

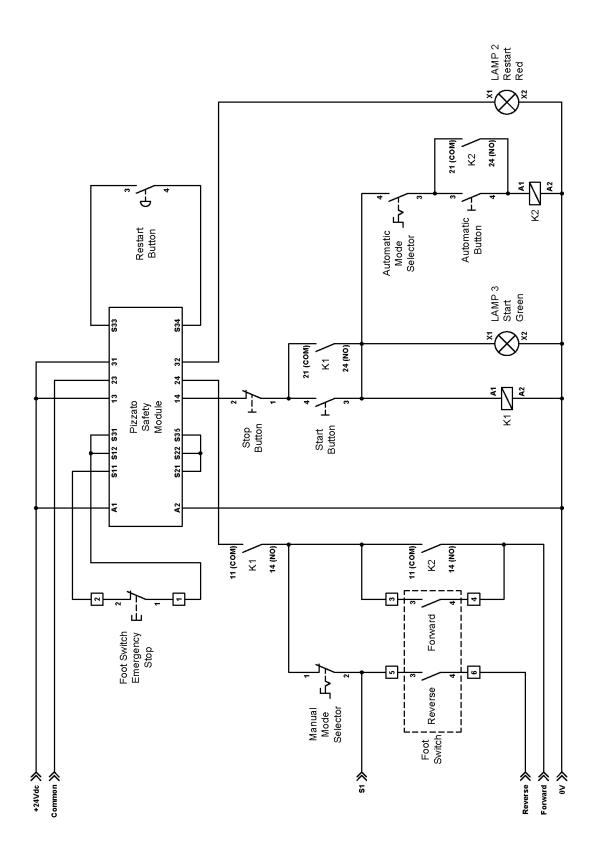






A9. Electric maps · SINGLEPHASE MACHINE





Technical features of accessories

Inlet guide for edge square bar Ref: 140-11-01-00027

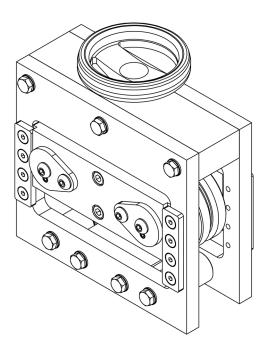
Roller for the side marking of flat bar 25mm or 1", 30mm or 1" 1/4, 40mm or 1" 1/2 and 50mm or 2" Ref. 140-11-01-00028

Set of embossing rollers for 25 mm or 1" 30 mm or 1" 1/4, 35 and 40 mm pipes Ref. 140-11-01-00500

Set of embossing rollers for 50 and 60 mm pipes

Ref. 140-11-01-00503

Set of embossing rollers for 1" 1/2, 2" and 2" 1/2 inches pipes Ref. 140-11-01-00507



Technical features of accessories

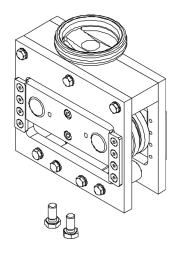
Inlet guide for edge square bar

Ref: 140-11-01-00027

Description of tooling Identification of elements Setting up the tooling Performance Warnings List of parts

Identification of elements

The inlet guide to emboss solid square bar on the edge up to 20 mm or 3/4" inches is supplied completely assembled with all necessary bolts to fix it to the machine.

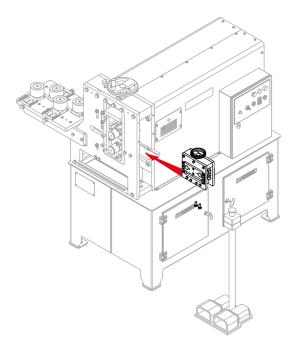


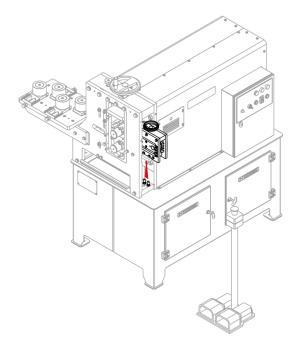
Setting up the tooling

In order to fix the tooling to the embossing machine NOA60, it is required to adjust it by fastening the bolts at the inlet guide of the machine as indicated in the pictures below:

1. Insert the tooling in the inlet guide of the machine

2. fasten both fixing bolts to the tooling by the lower part of the inlet guide of the machine.

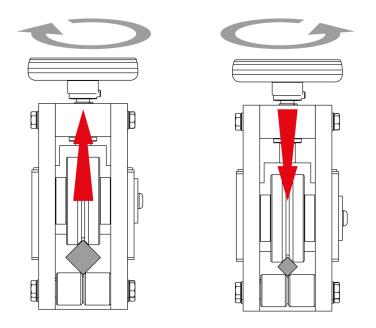




Performance

In order to start working with the inlet guide to emboss solid square bar on the edge, it is required to adjust the upper rollers to the material. Turning clockwise around the upper Wheel of the tooling, these upper rollers will move upwards. By turning the upper Wheel anti-clockwise, the upper rollers will go downwards.

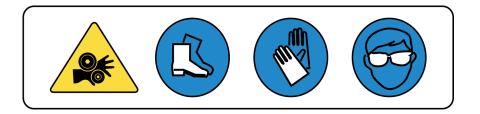
We should make sure the material is properly fixwed and that it kees its position



Warnings

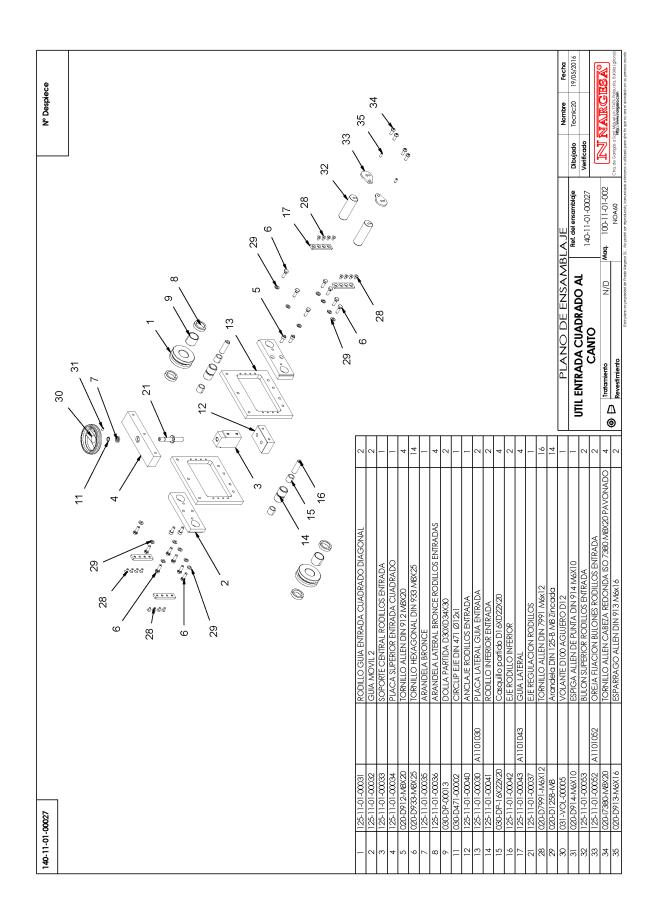
Keep the following instructions to safely use the Inlet guide for square bar on the edge.:

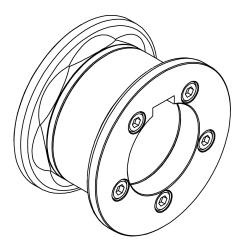
- Do not set or remove the tooling while the machine is running.
- Do not use the tooling for any other purpose but the ones described on this handling booklet.
- Use protection gloves to manipulate components and during the working process
- Use homologated protection googles and shoes.
- Hold the base material.





List of parts





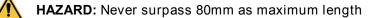
Technical features of accessories Roller for the side marking of flat bar 25mm or 1", 30mm or 1" 1/4, 40mm or 1" 1/2 and 50mm or 2" Ref. 140-11-01-00028

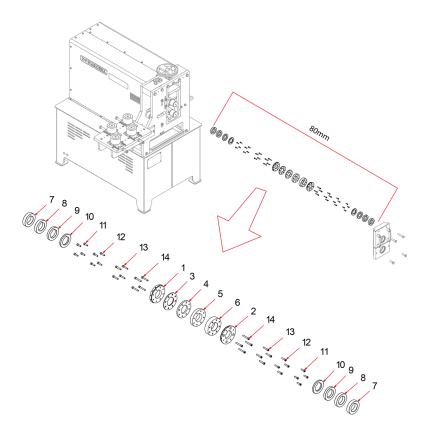
Elements identification Roller assembling Roller assembling for 25mm or 1" handrail Roller assembling for 30mm or 1" 1/4 handrail Roller assembling for 40mm or 1" 1/2 handrail Roller assembling for 50mm or 2" handrail

Elements identification

Sectioned rollers for handrail embossing have been designed to work on different handrail sizes with one only set of rollers.

IMPORTANT: In order to achieve a correct use of the machine, it is remarkably essential to place all elements so the total length of the set always remains 80mm.





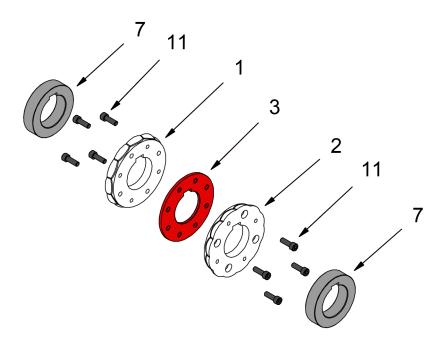
1	125-11-01-00054	LATERAL INNER ROLLER	1
2	125-11-01-00055	LATERAL OUTER ROLLER	1
3	125-11-01-00056	SECTIONED HANDRAIL SPACER 25-1"	1
4	125-11-01-00058	SECTIONED HANDRAIL SPACER 30-1"-1/4	1
5	125-11-01-00060	SECTIONED HANDRAIL SPACER 40-1"-1/2	1
6	125-11-01-00062	SECTIONED HANDRAIL SPACER 50-2"	1
7	125-11-01-00057	SPACER 22.5mm	2
8	125-11-01-00059	SPACER 20mm	2
9	125-11-01-00061	SPACER 15mm	2
10	125-11-01-00063	SPACER 10 mm	2
11	020-D912-M8X25	ALLEN SCREW DIN 912 M8 x25	8
12	020-D912-M8X30	ALLEN SCREW DIN 912 M8X30	8
13	020-D912-M8X40	ALLEN SCREW DIN 912 M8X40	8
14	020-D912-M8X50	ALLEN SCREW DIN 912 M8X50	8

Rollers assembling

We'll use the different rollers sections depending on the size of the handrail to be embossed.

Then we'll detail evry element used for each handrail size, always including sections 1 and 2 to these sets, which are the ones to perform the embossing operatyion as such.

Rollers assembling for 25mm or 1" handrail

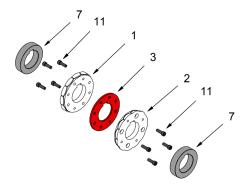


INTERIOR	3	125-11-01-00056	SECTIONED HANDRAIL SPACER 25-1"
EXTERIOR	7	125-11-01-00057	SPACER 22.5mm
TORNILLOS	11	020-D912-M8X25	ALLEN SCREW DIN 912 M8 x25
	1	125-11-01-00054	LATERAL INNER ROLLER
	2	125-11-01-00055	LATERAL OUTER ROLLER



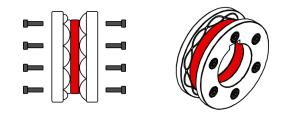
We will use the different sections of the rollers depending on the handrail size that we are going to emboss. To assemble the **roller of 25mm or 1**" we will proceed as follows:

1. We put into order the different sections

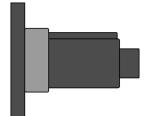


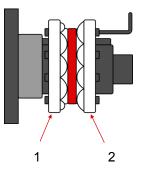
3. Next we place the outer spacer 7 on the upper machine shaft.

2. We do a pre-assembly, without tightening the bolts, paying special attention in aligning the slots for the pin.

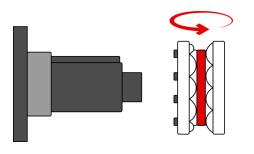


4. Place the pre-mounted roller on the upper axis and tighten the bolts with the Allen key.

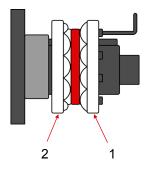




5. We remove the roller from the shaft and we rotate it so that the front part is positioned behind and then we put it in again.

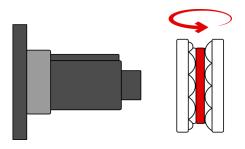


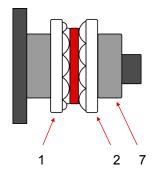
6. Tighten the bolts with the Allen key.



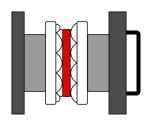
7. We remove the roller from the shaft and we rotate it so that the front part is positioned behind and then we put it in again.

8. Next we place the outer spacer 7 on the upper machine shaft.



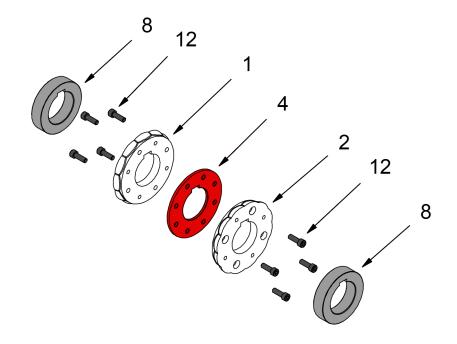


9. Close the roller compartment with the outer cover.





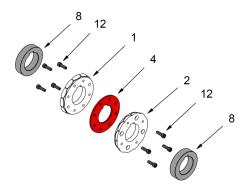
Rollers assembling for 30mm o 1" 1/4 handrail



INTERIOR	4	125-11-01-00058	SECTIONED HANDRAIL SPACER 30-1"-1/4
EXTERIOR	8	125-11-01-00059	SPACER 20mm
TORNILLOS	12	020-D912-M8X30	ALLEN SCREW DIN 912 M8X30
	1	125-11-01-00054	LATERAL INNER ROLLER
	2	125-11-01-00055	LATERAL OUTER ROLLER

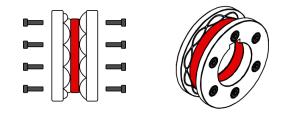
We will use the different sections of the rollers depending on the handrail size that we are going to emboss. To assemble the **roller of 30mm or 1" 1/4** we will proceed as follows:

1. We put into order the different sections

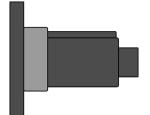


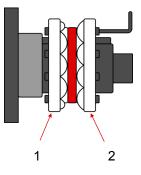
3. Next we place the outer spacer 8 on the upper machine shaft.

2. We do a pre-assembly, without tightening the bolts, paying special attention in aligning the slots for the pin.

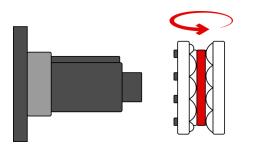


4. Place the pre-mounted roller on the upper axis and tighten the bolts with the Allen key.

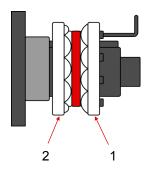




5. We remove the roller from the shaft and we rotate it so that the front part is positioned behind and then we put it in again.



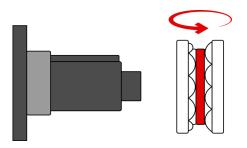
6. Tighten the bolts with the Allen key.

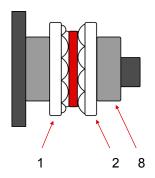




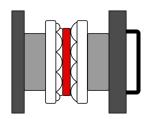
7. We remove the roller from the shaft and we rotate it so that the front part is positioned behind and then we put it in again.

8. Next we place the outer spacer 8 on the upper machine shaft.

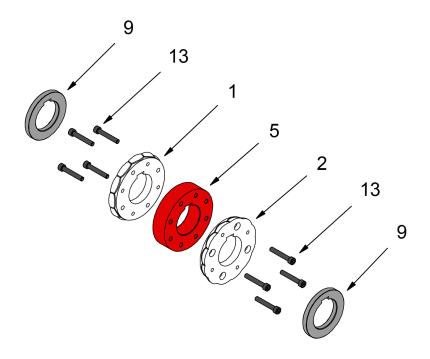




9. Close the roller compartment with the outer cover.



Rollers assembling for 40mm o 1" 1/2 handrail

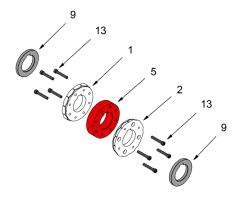


INTERIOR	5	125-11-01-00060	SECTIONED HANDRAIL SPACER 40-1"-1/2
EXTERIOR	9	125-11-01-00061	SPACER 15mm
TORNILLOS	13	020-D912-M8X40	ALLEN SCREW DIN 912 M8X40
	1	125-11-01-00054	LATERAL INNER ROLLER
	2	125-11-01-00055	LATERAL OUTER ROLLER

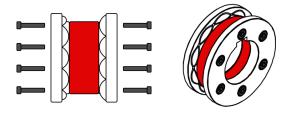


We will use the different sections of the rollers depending on the handrail size that we are going to emboss. To assemble the **roller of 40mm or 1" 1/2** we will proceed as follows:

1. We put into order the different sections

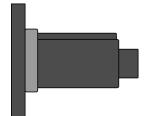


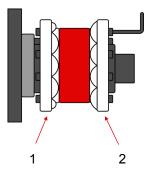
2. We do a pre-assembly, without tightening the bolts, paying special attention in aligning the slots for the pin.



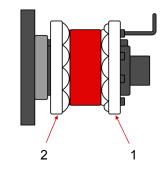
3. Next we place the outer spacer 9 on the upper machine shaft.

4. Place the pre-mounted roller on the upper axis and tighten the bolts with the Allen key.

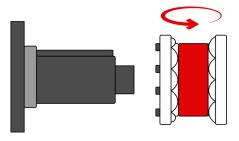




6. Tighten the bolts with the Allen key.

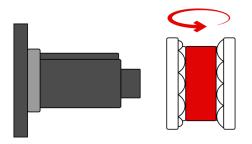


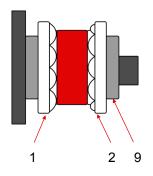
5. We remove the roller from the shaft and we rotate it so that the front part is positioned behind and then we put it in again.

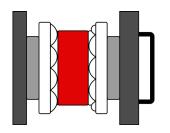


7. We remove the roller from the shaft and we rotate it so that the front part is positioned behind and then we put it in again.

8. Next we place the outer spacer 9 on the upper machine shaft.

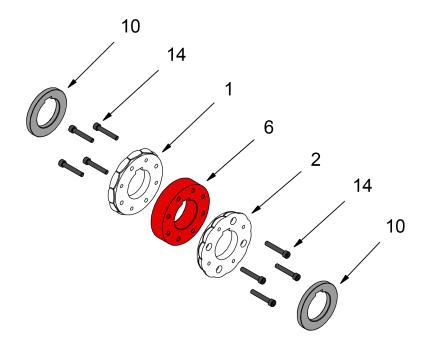








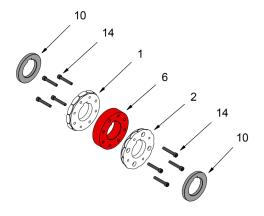
Rollers assembling for 50mm o 2" handrail



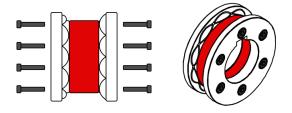
INTERIOR	6	125-11-01-00062	SECTIONED HANDRAIL SPACER 50-2"
EXTERIOR	10	125-11-01-00063	SPACER 10 mm
TORNILLOS	14	020-D912-M8X50	ALLEN SCREW DIN 912 M8X50
	1	125-11-01-00054	LATERAL INNER ROLLER
	2	125-11-01-00055	LATERAL OUTER ROLLER

We will use the different sections of the rollers depending on the handrail size that we are going to emboss. To assemble the **roller of 50mm or 2**" we will proceed as follows:

1. We put into order the different sections

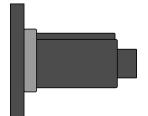


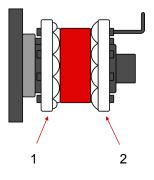
2. We do a pre-assembly, without tightening the bolts, paying special attention in aligning the slots for the pin.



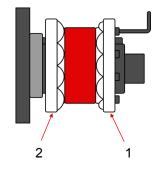
3. Next we place the outer spacer 10 on the upper machine shaft.

4. Place the pre-mounted roller on the upper axis and tighten the bolts with the Allen key.

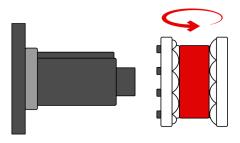




6. Tighten the bolts with the Allen key.



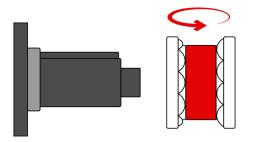
5. We remove the roller from the shaft and we rotate it so that the front part is positioned behind and then we put it in again.

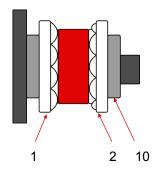


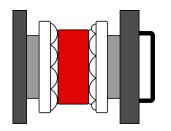


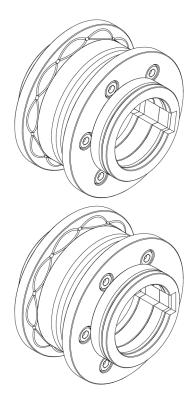
7. We remove the roller from the shaft and we rotate it so that the front part is positioned behind and then we put it in again.

8. Next we place the outer spacer 10 on the upper machine shaft.









Technical features of accessories

Set of embossing rollers for 25 mm or 1" 30 mm or 1" 1/4, 35 and 40 mm pipes Ref. 140-11-01-00500

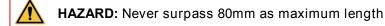
> Elements identification Upper roller Lower Roller Rollers assembling Rollers assembling for 25mm or 1" pipe Rollers assembling for 30mm or 1" 1/4 pipe Rollers assembling for 35mm pipe Rollers assembling for 40mm pipe Our range of rollers for pipe embossing

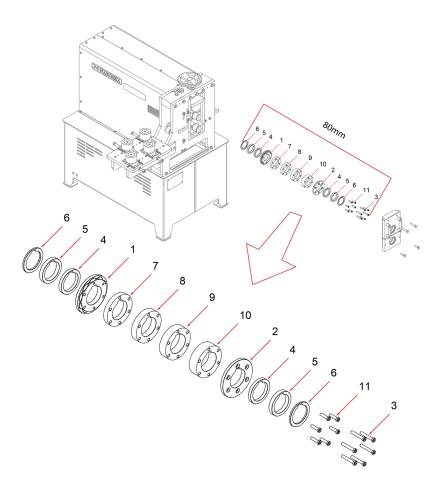
Elements identification

Sectioned rollers for pipe embossing have been designed to work on different pipe sizes with one only set of rollers.

Upper roller

IMPORTANT: In order to achieve a correct use of the machine, it is remarkably essential to place all elements so the total length of the set always remains 80mm.

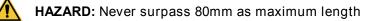


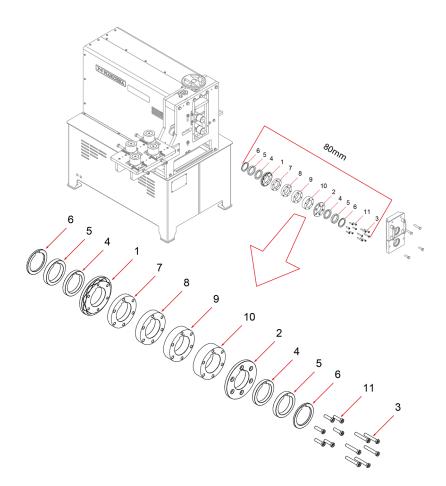


1	125-11-01-00005	LATERAL UPPER INNER ROLLER PIPE 25-40	1
2	125-11-01-00006	LATERAL UPPER OUTER ROLLER PIPE 25-40	1
3	020-D6912-M8X50	ALLEN SMALL HEADED SCREW DIN 6912 M8X50	6
4	125-11-01-00011	10 mm SECTIONED PIPE SPACER 25-40	2
5	125-11-01-00012	12.5 mm SECTIONED PIPE SPACER 25-40	2
6	125-11-01-00013	5 mm SECTIONED PIPE SPACER 25-40	2
7	125-11-01-00008	15 mm SECTIONED SPACER ROLLER 25	1
8	125-11-01-00009	20 mm SECTIONED SPACER ROLLER 30	1
9	125-11-01-00010	25 mm SECTIONED SPACER ROLLER 35	1
10	125-11-01-00007	28.5 mm SECTIONED SPACER ROLLER 40	1
11	020-D6912-M8X30	ALLEN SMALL HEADED SCREW DIN 6912 M8X30	6

Lower roller

IMPORTANT: In order to achieve a correct use of the machine, it is remarkably essential to place all elements so the total length of the set always remains 80mm.





1	125-11-01-00005	LATERAL LOWER INNER ROLLER PIPE 25-40	1
2	125-11-01-00006	LATERAL LOWER OUTER ROLLER PIPE 25-40	1
3	020-D6912-M8X50	ALLEN SMALL HEADED SCREW DIN 6912 M8X50	6
4	125-11-01-00011	10 mm SECTIONED PIPE SPACER 25-40	2
5	125-11-01-00012	12.5 mm SECTIONED PIPE SPACER 25-40	2
6	125-11-01-00013	5 mm SECTIONED PIPE SPACER 25-40	2
7	125-11-01-00008	15 mm SECTIONED SPACER ROLLER 25	1
8	125-11-01-00009	20 mm SECTIONED SPACER ROLLER 30	1
9	125-11-01-00010	25 mm SECTIONED SPACER ROLLER 35	1
10	125-11-01-00007	28.5 mm SECTIONED SPACER ROLLER 40	1
11	020-D6912-M8X30	ALLEN SMALL HEADED SCREW DIN 6912 M8X30	6

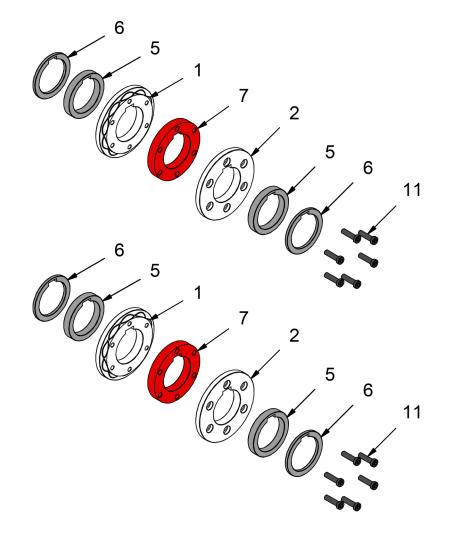
Rollers assembling

We'll use the different rollers sections depending on the size of the pipe to be embossed.

Then we'll detail evry element used for each piope size, always including sections 1 and 2 to these sets, which are the ones to perform the embossing operatyion as such.

Rollers assembling for 25mm or 1" pipe

Upper roller

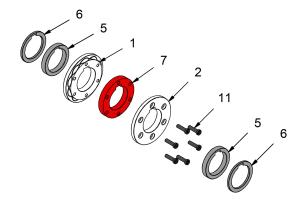


Lower roller

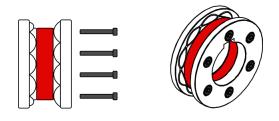
INSIDE	7	125-11-01-00008	15 mm SECTIONED SPACER ROLLER 25
EXTERIOR	5	125-11-01-00012	12.5 mm SECTIONED PIPE SPACER 25-40
EXTERIOR	6	125-11-01-00013	5 mm SECTIONED PIPE SPACER 25-40
SCREWS	11	020-D6912-M8X30	ALLEN SMALL HEADED SCREW DIN 6912 M8X30
	1	125-11-01-00005	LATERAL INNER ROLLER PIPE 25-40
	2	125-11-01-00006	LATERAL OUTER ROLLER PIPE 25-40

We will use the different sections of the rollers depending on the tube size that we are going to emboss. To assemble the **rolls of 25mm or 1** "we will proceed as follows:

1. We put into order the different sections

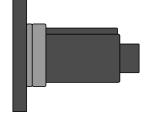


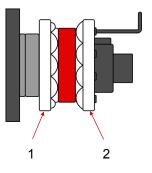
2. We do a pre-assembly, without tightening the bolts, paying special attention in aligning the slots for the pin.



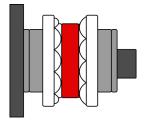
3. Next we place the outer spacers 6 and 5 on the machine shaft.

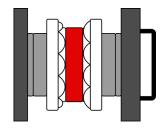
4. Place the pre-mounted roller on the axis of the corresponding machine, top or bottom and tighten the bolts with the Allen key.





5. Next we place the outer spacers 5 and 6 on the machine shaft.







Rollers assembling for 30mm or 1" 1/4 pipe

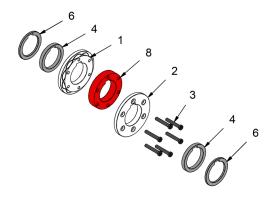
Lower roller

Upper roller

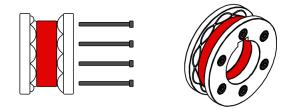
INSIDE	8	125-11-01-00009	20 mm SECTIONED SPACER ROLLER 30
EXTERIOR	4	125-11-01-00011	10 mm SECTIONED PIPE SPACER 25-40
EXTERIOR	6	125-11-01-00013	5 mm SECTIONED PIPE SPACER 25-40
SCREWS	3	020-D6912-M8X50	ALLEN SMALL HEADED SCREW DIN 6912 M8X50
	1	125-11-01-00005	LATERAL INNER ROLLER PIPE 25-40
	2	125-11-01-00006	LATERAL OUTER ROLLER PIPE 25-40
	EXTERIOR	EXTERIOR4EXTERIOR6	EXTERIOR 4 125-11-01-00011 EXTERIOR 6 125-11-01-00013 SCREWS 3 020-D6912-M8X50 1 125-11-01-00005

To assemble the **rolls of 30mm o 1" 1/4** we will proceed as follows:

1. We put into order the different sections

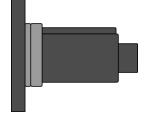


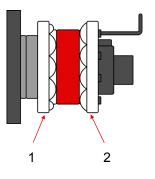
2. We do a pre-assembly, without tightening the bolts, paying special attention in aligning the slots for the pin.



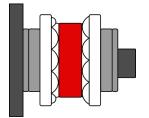
3. Next we place the outer spacers 6 and 4 on the machine shaft.

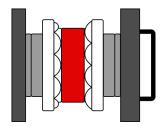
4. Place the pre-mounted roller on the axis of the corresponding machine, top or bottom and tighten the bolts with the Allen key.





5. Next we place the outer spacers 4 and 6 on the machine shaft.

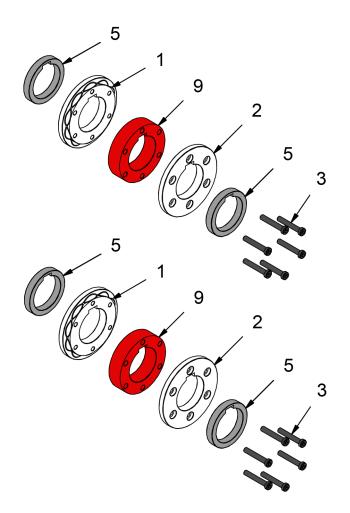






Rollers assembling for 35mm pipe

Upper roller

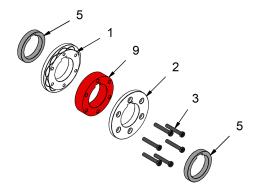


Lower roller

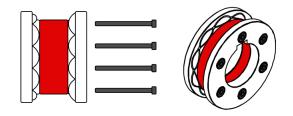
INSIDE	9	125-11-01-00010	25 mm SECTIONED SPACER ROLLER 35
EXTERIOR	5	125-11-01-00012	12.5 mm SECTIONED PIPE SPACER 25-40
SCREWS	3	020-D6912-M8X50	ALLEN SMALL HEADED SCREW DIN 6912 M8X50
	1	125-11-01-00005	LATERAL INNER ROLLER PIPE 25-40
	2	125-11-01-00006	LATERAL OUTER ROLLER PIPE 25-40

To assemble the rolls of 35mm we will proceed as follows:

1. We put into order the different sections

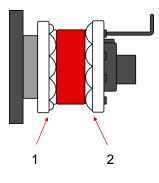


2. We do a pre-assembly, without tightening the bolts, paying special attention in aligning the slots for the pin.

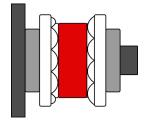


3. Next we place the outer spacer 5 on the machine shaft.

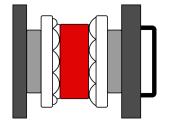
4. Place the pre-mounted roller on the axis of the corresponding machine, top or bottom and tighten the bolts with the Allen key.



5. Next we place the outer spacer 5 on the cover.

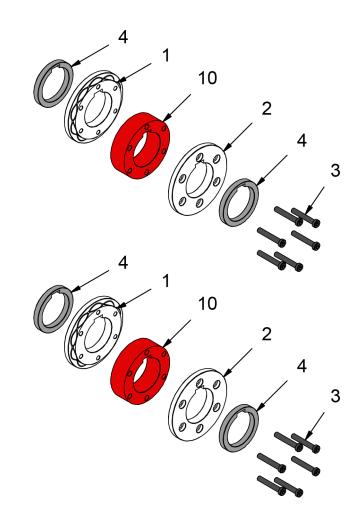


machine shaft.





Rollers assembling for 40mm pipe



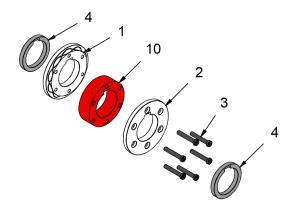
Lower roller

Upper roller

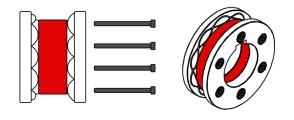
INSIDE	10	125-11-01-00007	28.5 mm SECTIONED SPACER ROLLER 40
EXTERIOR	4	125-11-01-00011	10 mm SECTIONED PIPE SPACER 25-40
SCREWS	3	020-D6912-M8X50	ALLEN SMALL HEADED SCREW DIN 6912 M8X50
	1	125-11-01-00005	LATERAL INNER ROLLER PIPE 25-40
	2	125-11-01-00006	LATERAL OUTER ROLLER PIPE 25-40

To assemble the rolls of 40mm we will proceed as follows:

1. We put into order the different sections

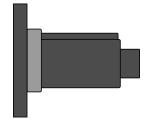


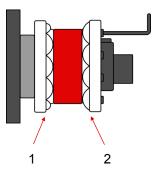
2. We do a pre-assembly, without tightening the bolts, paying special attention in aligning the slots for the pin.



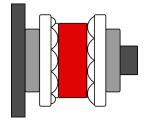
3. Next we place the outer spacer 4 on the machine shaft.

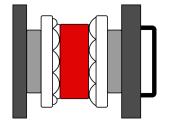
4. Place the pre-mounted roller on the axis of the corresponding machine, top or bottom and tighten the bolts with the Allen key.

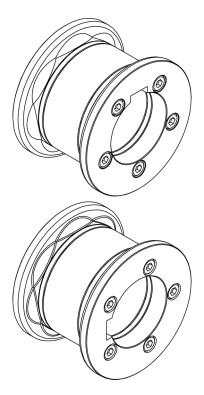




5. Next we place the outer spacer 4 on the machine shaft.







Technical features of Accessories

Set of embossing rollers for 50 and 60 mm pipes

Ref. 140-11-01-00503

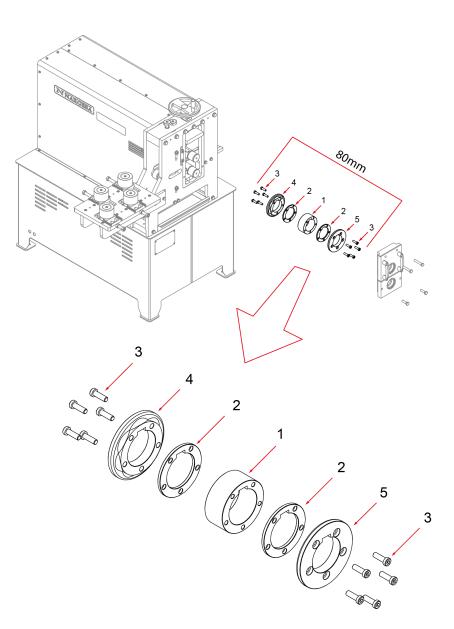
Upper roller Lower Roller Rollers assembling Rollers assembling for 50 mm pipe Rollers assembling for 60 mm pipe

Upper roller

1

IMPORTANT: In order to achieve a correct use of the machine, it is remarkably essential to place all elements so the total length of the set always remains 80mm.

HAZARD: Never surpass 80mm as maximum length



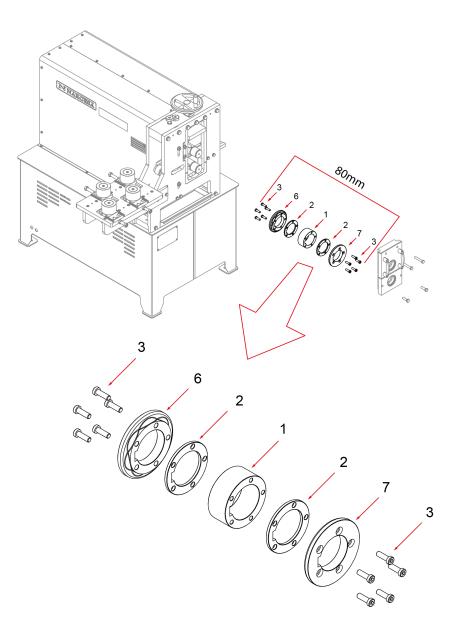
1	125-11-01-00003	SPACER 38 mm	1
2	125-11-01-00004	SPACER 5 mm	2
3	020-D6912-M8X25	ALLEN SMALL HEADED SCREW DIN 6912 M8X25	10
4	125-11-01-00001	LATERAL UPPER INNER ROLLER PIPE 50-60	1
5	125-11-01-00002	LATERAL UPPER OUTER ROLLER PIPE 50-60	1

Lower roller

<u>/i</u>/

IMPORTANT: In order to achieve a correct use of the machine, it is remarkably essential to place all elements so the total length of the set always remains 80mm.

HAZARD: Never surpass 80mm as maximum length



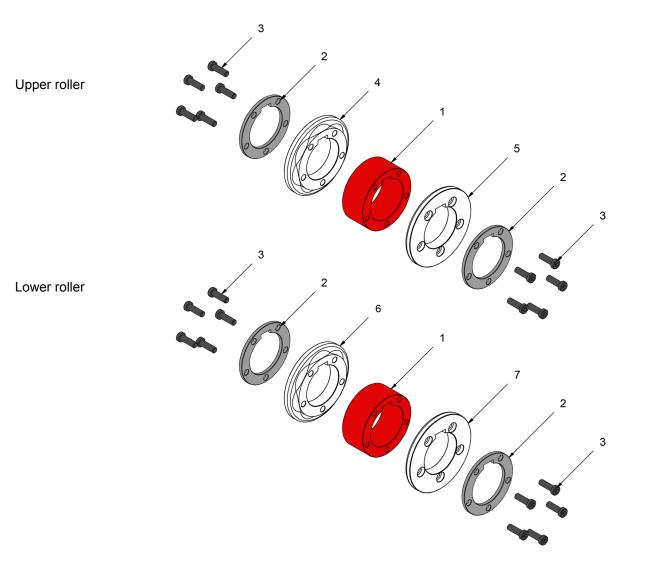
1	125-11-01-00003	SPACER 38 mm	1
2	125-11-01-00004	SPACER 5 mm	2
3	020-D6912-M8X25	ALLEN SMALL HEADED SCREW DIN 6912 M8X25	10
6	125-11-01-00018	LATERAL LOWER INNER ROLLER PIPE 50-60	1
7	125-11-01-00019	LATERAL LOWER OUTER ROLLER PIPE 50-60	1

Rollers assembling

We'll use the different rollers sections depending on the size of the pipe to be embossed.

Then we'll detail evry element used for each piope size, always including sections 4 and 5 (Upper roller) or 6 and 7 (Lower roller) to these sets, which are the ones to perfom the embossing operatyion as such.

Rollers assembling for 50mm pipe



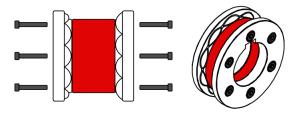
INSIDE	1	125-11-01-00003	SPACER 38 mm
EXTERIOR	2	125-11-01-00004	SPACER 5 mm
SCREWS	3	020-D6912-M8X25	ALLEN SMALL HEADED SCREW DIN 6912 M8X25
	4	125-11-01-00001	LATERAL UPPER INNER ROLLER PIPE 50-60
	5	125-11-01-00002	LATERAL UPPER OUTER ROLLER PIPE 50-60
	6	125-11-01-00018	LATERAL LOWER INNER ROLLER PIPE 50-60
	7	125-11-01-00019	LATERAL LOWER OUTER ROLLER PIPE 50-60

We will use the different sections of the rollers depending on the tube size that we are going to emboss. To assemble the **upper roller of 50mm** we will proceed as follows:

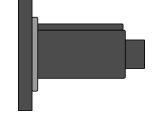
1. We put into order the different sections

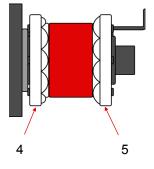
3. Next we place the outer spacer 2 on the upper machine shaft.

2. We do a pre-assembly, without tightening the bolts, paying special attention in aligning the slots for the pin.

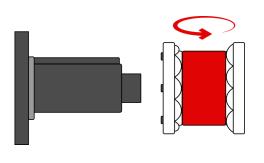


4. Place the pre-mounted roller on the upper axis and tighten the bolts with the Allen key.

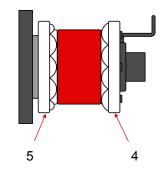




5. We remove the roller from the shaft and we rotate it so that the front part is positioned behind and then we put it in again.



6. Tighten the bolts with the Allen key.

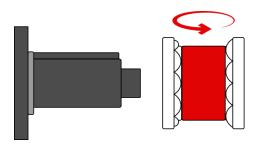


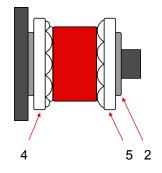


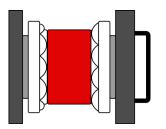


7. We remove the roller from the shaft and we rotate it so that the front part is positioned behind and then we put it in again.

8. Next we place the outer spacer 2 on the upper machine shaft.

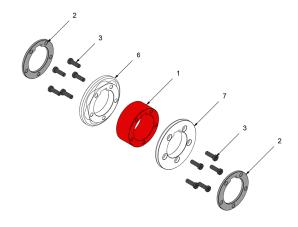




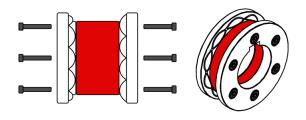


To assemble the lower roller of 50mm we will proceed as follows:

1. We put into order the different sections

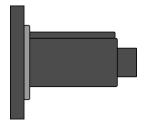


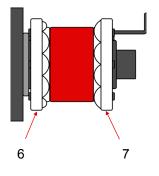
2. We do a pre-assembly, without tightening the bolts, paying special attention in aligning the slots for the pin.



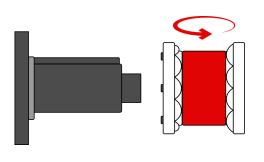
3. Next we place the outer spacer 2 on the lower shaft of the machine.

4. We put the pre-mounted roller on the lower shaft of the machine and tighten the bolts with the Allen key.

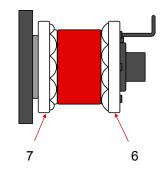




5. We remove the roller from the shaft and we rotate it so that the front part is positioned behind and then we put it in again.



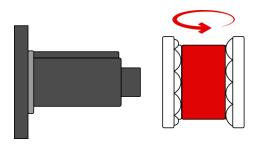
6. Tighten the bolts with the Allen key.

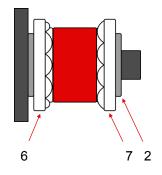


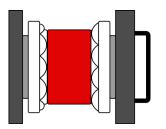


7. We remove the roller from the shaft and we rotate it so that the front part is positioned behind and then we put it in again.

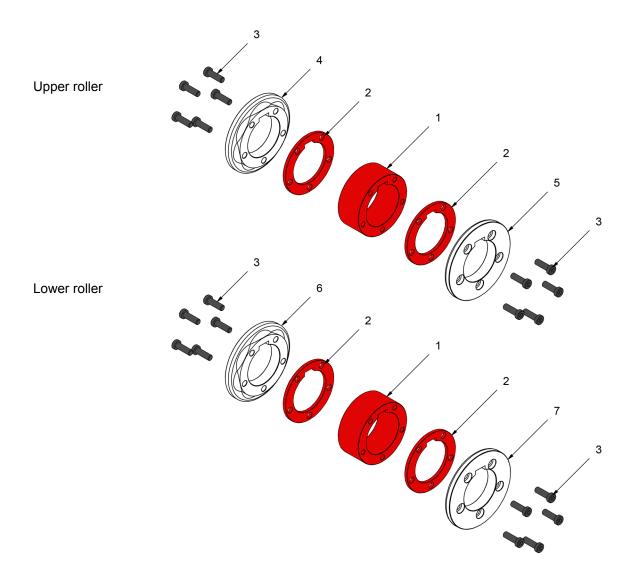
8. Next we place the outer spacer 2 on the lower shaft of the machine.







Rollers assembling for 60mm pipe

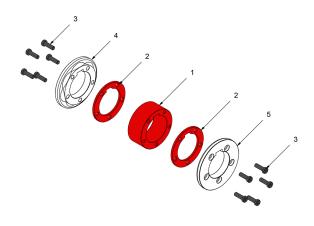


INSIDE	1	125-11-01-00003	SPACER 38 mm
INSIDE	2	125-11-01-00004	SPACER 5 mm
SCREWS	3	020-D6912-M8X25	ALLEN SMALL HEADED SCREW DIN 6912 M8X25
	4	125-11-01-00001	LATERAL UPPER INNER ROLLER PIPE 50-60
	5	125-11-01-00002	LATERAL UPPER OUTER ROLLER PIPE 50-60
	6	125-11-01-00018	LATERAL LOWER INNER ROLLER PIPE 50-60
	7	125-11-01-00019	LATERAL LOWER OUTER ROLLER PIPE 50-60

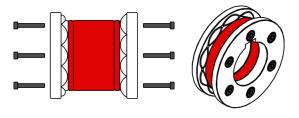


We will use the different sections of the rollers depending on the tube size that we are going to emboss. To assemble the **upper roller of 60mm** we will proceed as follows:

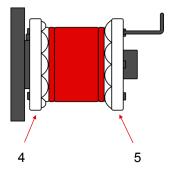
1. We put into order the different sections



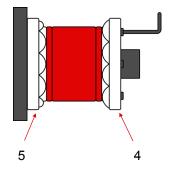
2. We do a pre-assembly, without tightening the bolts, paying special attention in aligning the slots for the pin.



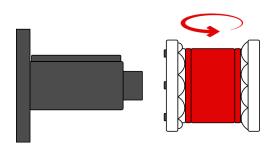
3. Place the pre-mounted roller on the upper axis and tighten the bolts with the Allen key.



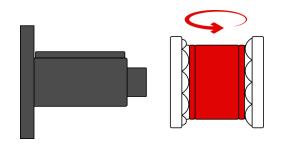
5. Tighten the bolts with the Allen key.



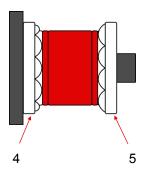
4. We remove the roller from the shaft and we rotate it so that the front part is positioned behind and then we put it in again.



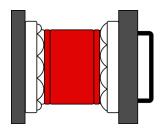
6. We remove the roller from the shaft and we rotate it so that the front part is positioned behind and then we put it in again.



7. We place the roller on its working position

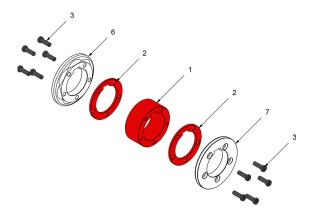


8. Close the roller compartment with the outer cover.

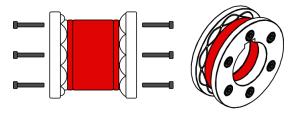


To assemble the lower roller of 60mm we will proceed as follows:

1. We put into order the different sections

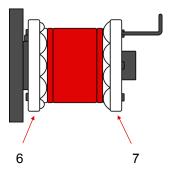


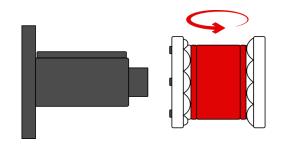
2. We do a pre-assembly, without tightening the bolts, paying special attention in aligning the slots for the pin.



3. Place the pre-mounted roller on the lower axis and tighten the bolts with the Allen key.

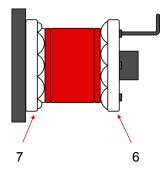
4. We remove the roller from the shaft and we rotate it so that the front part is positioned behind and then we put it in again.



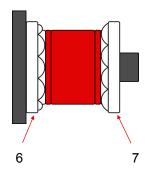




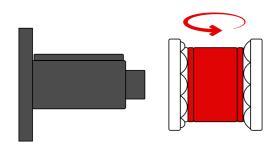
5. Tighten the bolts with the Allen key.

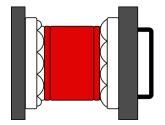


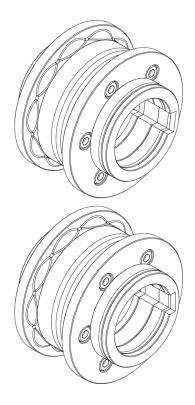
7. We place the roller on its working position



6. We remove the roller from the shaft and we rotate it so that the front part is positioned behind and then we put it in again.







Technical features of Accessories

Set of embossing rollers for 1" 1/2, 2" and 2" 1/2 inches pipes Ref. 140-11-01-00507

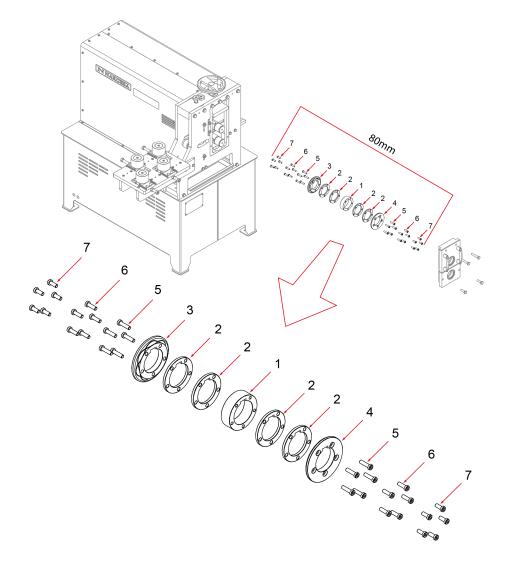
> Upper roller Lower Roller Rollers assembling Rollers assembling for 1" 1/2 inches pipe Rollers assembling for 2" inches pipe Rollers assembling for 2" 1/2 inches pipe

Upper roller

/!\

IMPORTANT: In order to achieve a correct use of the machine, it is remarkably essential to place all elements so the total length of the set always remains 80mm.

HAZARD: Never surpass 80mm as maximum length



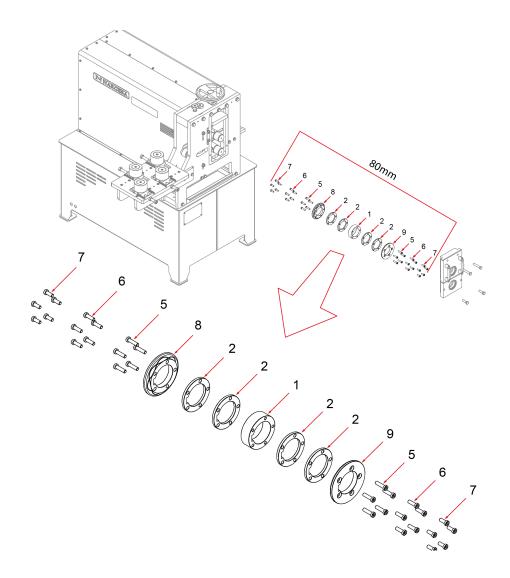
1	125-11-01-00016	SPACER 27,1 mm	1
2	125-11-01-00017	SPACER 6,25 mm	4
3	125-11-01-00014	LATERAL UPPER INNER ROLLER PIPE 1"1/2, 2" AND 2"1/2	1
4	125-11-01-00015	LATERAL UPPER OUTER ROLLER PIPE 1"1/2, 2" AND 2"1/2	1
5	020-D6912-M8X30	ALLEN SMALL HEADED SCREW DIN 6912 M8X30	10
6	020-D6912-M8X25	ALLEN SMALL HEADED SCREW DIN 6912 M8X25	10
7	020-D6912-M8X20	ALLEN SMALL HEADED SCREW DIN 6912 M8X20	10

Lower roller

<u>/ľ</u>

IMPORTANT: In order to achieve a correct use of the machine, it is remarkably essential to place all elements so the total length of the set always remains 80mm.

HAZARD: Never surpass 80mm as maximum length



1	125-11-01-00016	SPACER 27,1 mm	1
2	125-11-01-00017	SPACER 6,25 mm	4
5	020-D6912-M8X30	ALLEN SMALL HEADED SCREW DIN 6912 M8X30	10
6	020-D6912-M8X25	ALLEN SMALL HEADED SCREW DIN 6912 M8X25	10
7	020-D6912-M8X20	ALLEN SMALL HEADED SCREW DIN 6912 M8X20	10
8	125-11-01-00024	LATERAL LOWER INNER ROLLER PIPE 1"1/2, 2" AND 2"1/2	1
9	125-11-01-00025	LATERAL LOWER OUTER ROLLER PIPE 1"1/2, 2" AND 2"1/2	1

Rollers assembling

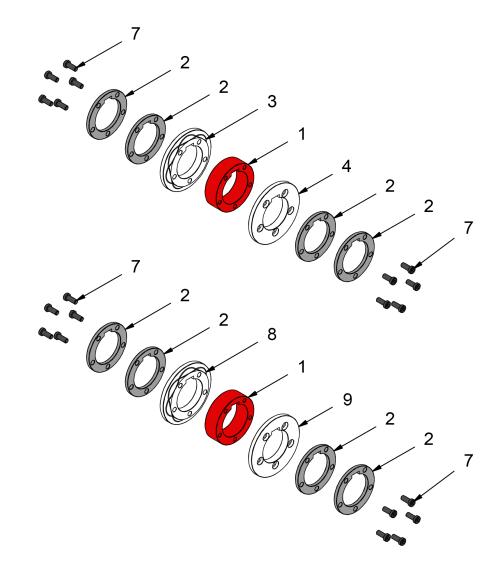
We'll use the different rollers sections depending on the size of the pipe to be embossed.

Then we'll detail evry element used for each piope size, always including sections 3 and 4 (Upper roller) or 8 and 9 (Lower roller) to these sets, which are the ones to perfom the embossing operatyion as such.

Rollers assembling for 1" 1/2 inches pipe

Upper roller

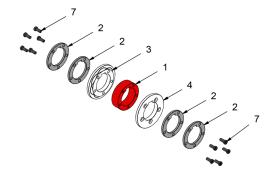
Lower Roller



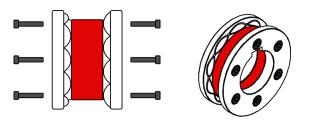
INSIDE	1	125-11-01-00016	SPACER 27,1 mm
EXTERIOR	2	125-11-01-00017	SPACER 6,25 mm
EXTERIOR	2	125-11-01-00017	SPACER 6,25 mm
SCREWS	7	020-D6912-M8X20	ALLEN SMALL HEADED SCREW DIN 6912 M8X20
	3	125-11-01-00014	LATERAL UPPER INNER ROLLER PIPE 1"1/2, 2" AND 2"1/2
	4	125-11-01-00015	LATERAL UPPER OUTER ROLLER PIPE 1"1/2, 2" AND 2"1/2
	8	125-11-01-00024	LATERAL LOWER INNER ROLLER PIPE 1"1/2, 2" AND 2"1/2
	9	125-11-01-00025	LATERAL LOWER OUTER ROLLER PIPE 1"1/2, 2" AND 2"1/2

We will use the different sections of the rollers depending on the tube size that we are going to emboss. To assemble the **upper roller of 1" 1/2 inches** we will proceed as follows:

1. We put into order the different sections

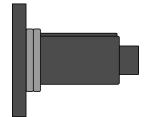


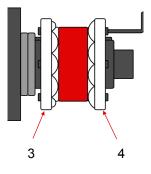
2. We do a pre-assembly, without tightening the bolts, paying special attention in aligning the slots for the pin.



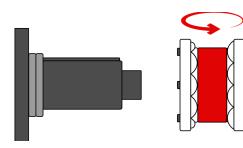
3. Next we place the outer spacers 2 on the upper shaft of the machine.

4. Place the pre-mounted roller on the upper axis and tighten the bolts with the Allen key.

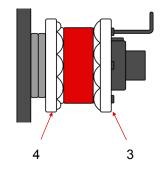




5. We remove the roller from the shaft and we rotate it so that the front part is positioned behind and then we put it in again.



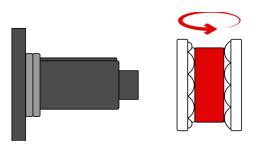
6. Tighten the bolts with the Allen key.

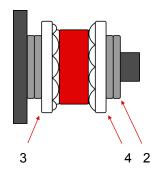


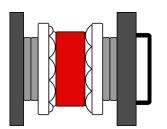


7. We remove the roller from the shaft and we rotate it so that the front part is positioned behind and then we put it in again.

8. Next we place the outer spacers 2 on the upper shaft of the machine.

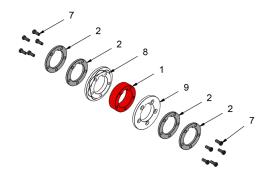




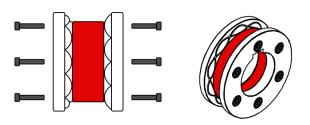


To assemble the lower roller 1" 1/2 inches we will proceed as follows:

1. We put into order the different sections

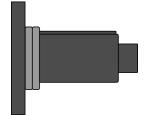


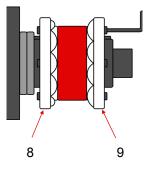
2. We do a pre-assembly, without tightening the bolts, paying special attention in aligning the slots for the pin.



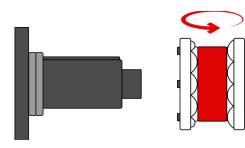
3. Next we place the outer spacers 2 on the lower shaft of the machine.

4. Place the pre-mounted roller on the lower axis and tighten the bolts with the Allen key.

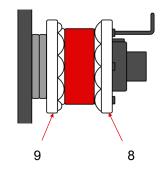




5. We remove the roller from the shaft and we rotate it so that the front part is positioned behind and then we put it in again.



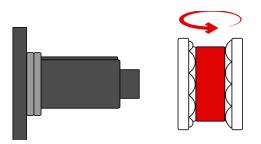
6. Tighten the bolts with the Allen key.

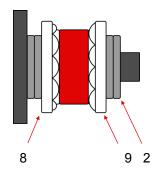


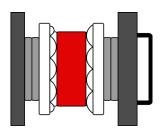


7. We remove the roller from the shaft and we rotate it so that the front part is positioned behind and then we put it in again.

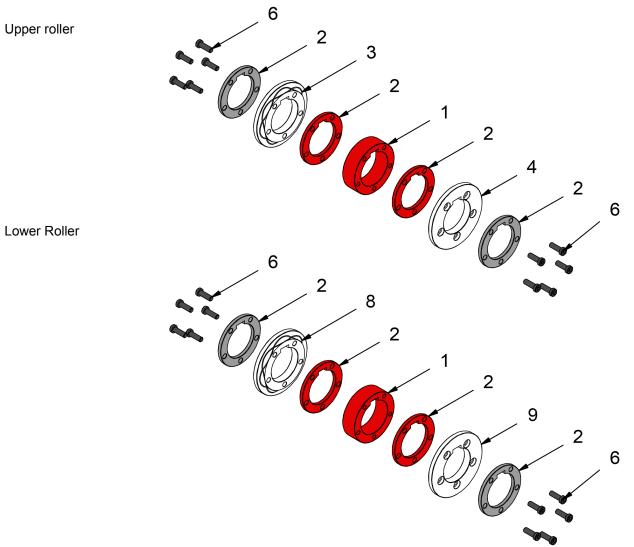
8. Next we place the outer spacers 2 on the lower shaft of the machine.







Rollers assembling for 2" inches pipe



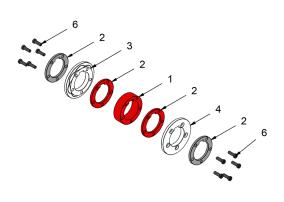
	INSIDE	1	125-11-01-00016	SPACER 27,1 mm
	INSIDE	2	125-11-01-00017	SPACER 6,25 mm
	EXTERIOR	2	125-11-01-00017	SPACER 6,25 mm
	SCREWS	6	020-D6912-M8X25	ALLEN SMALL HEADED SCREW DIN 6912 M8X25
		3	125-11-01-00014	LATERAL UPPER INNER ROLLER PIPE 1"1/2, 2" AND 2"1/2
		4	125-11-01-00015	LATERAL UPPER OUTER ROLLER PIPE 1"1/2, 2" AND 2"1/2
		8	125-11-01-00024	LATERAL LOWER INNER ROLLER PIPE 1"1/2, 2" AND 2"1/2
		9	125-11-01-00025	LATERAL LOWER OUTER ROLLER PIPE 1"1/2, 2" AND 2"1/2
-				

Lower Roller

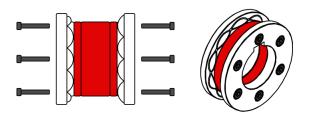


To assemble the upper roller 2" inches we will proceed as follows:

1. We put into order the different sections

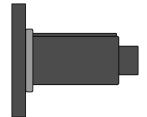


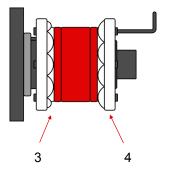
2. We do a pre-assembly, without tightening the bolts, paying special attention in aligning the slots for the pin.



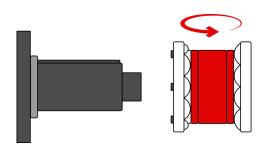
3. Next we place the outer spacer 2 on the upper shaft of the machine

4. Place the pre-mounted roller on the upper axis and tighten the bolts with the Allen key.

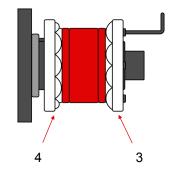




5. We remove the roller from the shaft and we rotate it so that the front part is positioned behind and then we put it in again.

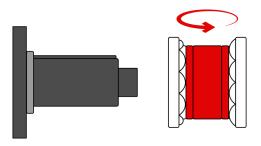


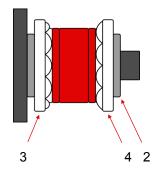
6. Tighten the bolts with the Allen key.

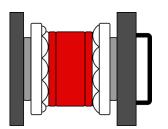


7. We remove the roller from the shaft and we rotate it so that the front part is positioned behind and then we put it in again.

8. Next we place the outer spacer 2 on the upper shaft of the machine



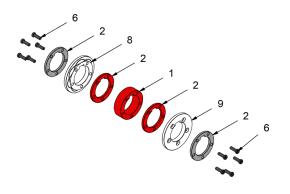




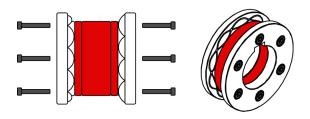


To assemble the lower roller 2" inches we will proceed as follows:

1. We put into order the different sections

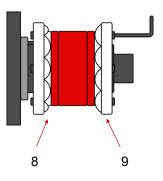


2. We do a pre-assembly, without tightening the bolts, paying special attention in aligning the slots for the pin.

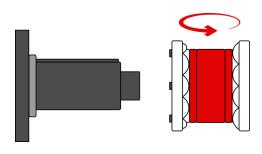


3. Next we place the outer spacer 2 on the lower shaft of the machine.

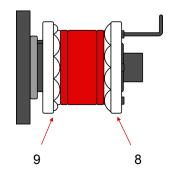
4. We put the pre-mounted roller on the lower shaft of the machine and tighten the bolts with the Allen key.

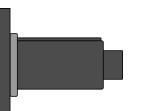


5. We remove the roller from the shaft and we rotate it so that the front part is positioned behind and then we put it in again.



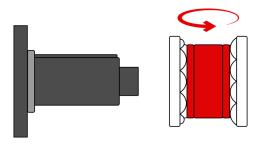
6. Tighten the bolts with the Allen key.

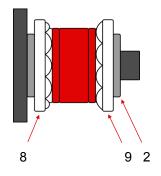


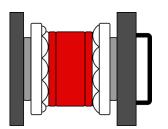


7. We remove the roller from the shaft and we rotate it so that the front part is positioned behind and then we put it in again.

8. Next we place the outer spacer 2 on the lower shaft of the machine.

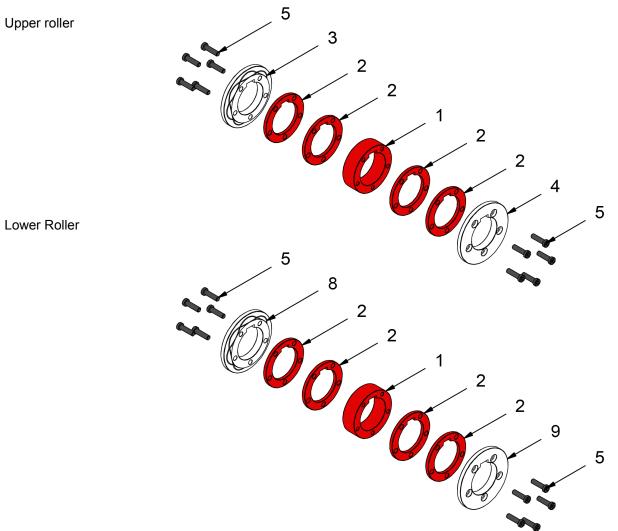








Rollers assembling for 2" 1/2 inches pipe

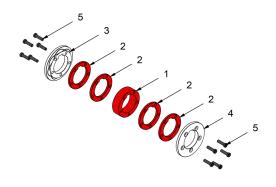


INSIDE	1	125-11-01-00016	SPACER 27,1 mm
INSIDE	2	125-11-01-00017	SPACER 6,25 mm
INSIDE	2	125-11-01-00017	SPACER 6,25 mm
SCREWS	5	020-D6912-M8X30	ALLEN SMALL HEADED SCREW DIN 6912 M8X30
	3	125-11-01-00014	LATERAL UPPER INNER ROLLER PIPE 1"1/2, 2" AND 2"1/2
	4	125-11-01-00015	LATERAL UPPER OUTER ROLLER PIPE 1"1/2, 2" AND 2"1/2
	8	125-11-01-00024	LATERAL LOWER INNER ROLLER PIPE 1"1/2, 2" AND 2"1/2
	9	125-11-01-00025	LATERAL LOWER OUTER ROLLER PIPE 1"1/2, 2" AND 2"1/2

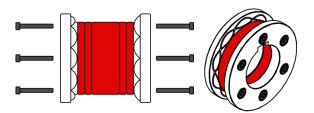
Upper roller

To assemble the upper roller 2" 1/2 inches we will proceed as follows:

1. We put into order the different sections

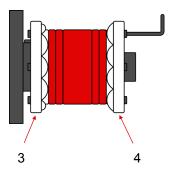


2. We do a pre-assembly, without tightening the bolts, paying special attention in aligning the slots for the pin.

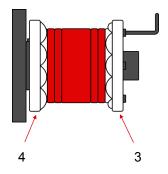


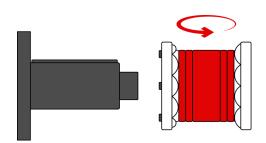
3. Place the pre-mounted roller on the upper axis and tighten the bolts with the Allen key.

4. We remove the roller from the shaft and we rotate it so that the front part is positioned behind and then we put it in again.

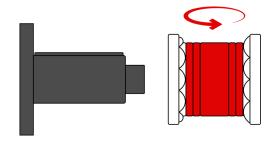


5. Tighten the bolts with the Allen key.



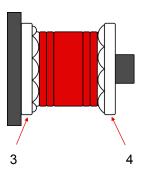


6. We remove the roller from the shaft and we rotate it so that the front part is positioned behind and then we put it in again.

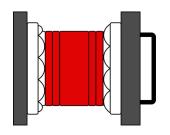




7. We place the roller on its working position

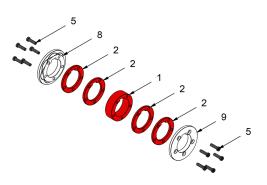


8. Close the roller compartment with the outer cover.

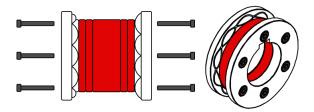


To assemble the lower roller 2" 1/2 inches we will proceed as follows:

1. We put into order the different sections

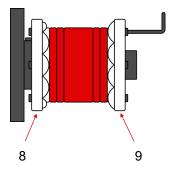


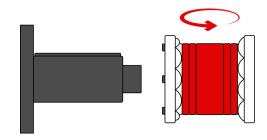
2. We do a pre-assembly, without tightening the bolts, paying special attention in aligning the slots for the pin.



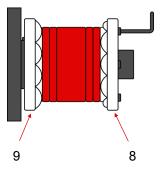
3. We put the pre-mounted roller on the lower shaft of the machine and tighten the bolts with the Allen key.

4. We remove the roller from the shaft and we rotate it so that the front part is positioned behind and then we put it in again.

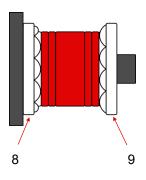




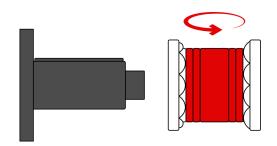
5. Tighten the bolts with the Allen key.

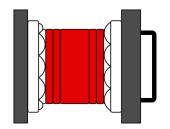


7. We place the roller on its working position



6. We remove the roller from the shaft and we rotate it so that the front part is positioned behind and then we put it in again.





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IRON WORKERS



SECTION BENDING MACHINES



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HYDRAULIC PRESS BRAKES



IRON EMBOSSING MACHINES



POWER HAMMERS



HORIZONTAL PRESS BRAKE



HYDRAULIC SHEAR MACHINES



END WROUGHT IRON MACHINES



PRESSES FOR LOCKS