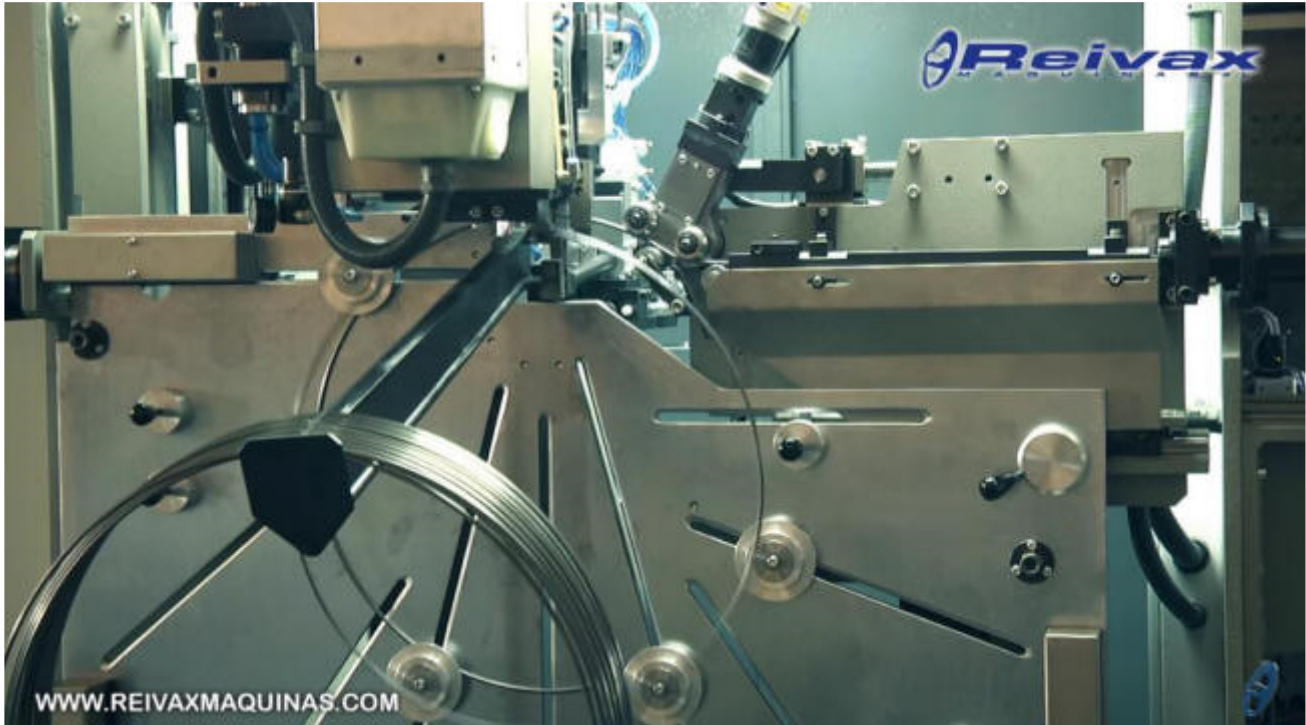


Construction of Machinery for wire deformation

Machine for manufacturing wire rings.

MAA-3 / MAA-5 / MAA-6 / MAA-8 / MAA-10 Ø 1 to 10 mm
Machine for manufacturing wire rings with or without welding.



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Automatic machine that can program the size of the rings and with different wire thicknesses. Closed with welding or Open without welding.

Description.

Machine to manufacture wire rings with or without welding.

It is a programmable wire bender that can manufacture countless models and sizes of hoops, with high production and high quality finishes.

It is fed by coil of wire from a motorized winder.

The bench is equipped with an electrical panel, an external control, a wire straightener, a drag box, the forming mechanisms to set the size of the ring and the ejection of the ring once it is finished.

The rollers for shaping the ring can be moved allowing the size of the rings to be changed.

There is the option that the positioning of the rollers to fix the size of the ring is programmable to CN. Several servos are incorporated into the machine, allowing the measurement change to be made automatically.

There is the option of welding the rings, the bench is equipped with a pneumatic clamp to position the ring to the welding group.

There are cases where the weld is wanted to over-secure and is regulated by producing an overflow of material in the profile of the rod:

- There is the option to include a deburring module to polish the weld.



Construction of Machinery for wire deformation

- The deburring equipment lowers the weld with hydraulic blades
- After welding, tweezers move the ring to the blades for recessing and subsequent expulsion of the finished ring

There is the option of equipping the straightener with a wire positioning centesimal counter.

Depending on the thickness of the wire, the size there are different versions:

- See the attached list of models.

Estimated production will depend on the size of the hoop and the quality of the wire.

The machine's ring forming area is protected with a photoelectric barrier.

The machine is characterized by:

- Allows an easy and quick change of size of hoops.
- The option to change the hoop average by numerical control
- Great productivity.
- Hoop length precision: (+ - 0.1 mm).
- Ring diameter precision: (+ - 0.1 mm).
- Precision of the flatness of the ring (+.0.2 to 0.8 mm depending on the diameter).

The welder:

- It is for resistance, adjustable, precise and without added material.

It is governed by a PLC:

- It is programmed from touch screen,

The programming:

- It is quick, easy and open.
- It allows to store the programmed models.
- Allows you to activate or deactivate the welding and deburring functions.

The screen:

- View all the necessary information on production and incidents.

It has a remote control module installed to be operated via the Internet.

It incorporates passive safety systems and manual emergency stop.

It complies with the European regulations approved and required by the CE: Machines 2006/42 / CE.

It is a robust, productive and low-maintenance machine.



Construction of Machinery for wire deformation

Models.

Machine for manufacturing wire rings with or without welding.

Model	Weld	Deburred weld (2)	Ø mm Wire	Ø mm Ring	Ø Ring CN	Production (1) Rings / Hour
MAA-3-100	No	No	1 to 3	25 to 100	No	+12000
MAA-5-600	No	No	1 to 5	70 to 600	No	2000 / 5000
MAA-5-1000	No	No	1 to 5	70 to 1000	No	2000 / 5000
MAA-5-S-600	Yes	Optional	1 to 5	70 to 600	No	1300 / 2000
MAA-5-S-600-CN	Yes	Optional	1 to 5	70 to 600	Yes	1300 / 2000
MAA-5-S-1000-CN	Yes	Optional	1 to 5	120 to 1000	Yes	800 / 1400
MAA-5-S-1200-CN	Yes	Optional	1 to 5	120 to 1200	Yes	800 / 1300
MAA-6-600	No	No	2 to 6	70 to 600	No	2000 / 5000
MAA-6-1000	No	No	2 to 6	70 to 1000	No	2000 / 5000
MAA-6-S-600	Yes	Optional	2 to 6	70 to 600	No	1300 / 2000
MAA-6-S-600-CN	Yes	Optional	2 to 6	70 to 600	Yes	1300 / 2000
MAA-6-S-1000-CN	Yes	Optional	2 to 6	120 to 1000	Yes	800 / 1400
MAA-6-S-1200-CN	Yes	Optional	2 to 6	120 to 1200	Yes	800 / 1600
MAA-8-600	No	No	3 to 8	80 to 600	No	2000 / 5000
MAA-8-1000	No	No	3 to 8	80 a 1000	No	2000 / 5000
MAA-8-S-600	Yes	Optional	3 to 8	80 to 600	No	1300 / 2000
MAA-8-S-600-CN	Yes	Optional	3 to 8	120 a 600	Yes	1300 / 2000
MAA-8-S-1000	Yes	Optional	3 to 8	120 to 1000	No	800 / 1600
MAA-8-S-1000-CN	Yes	Optional	3 to 8	120 to 1000	Yes	800 / 1600
MAA-8-S-1200-CN	Yes	Optional	3 to 8	120 to 1200	Yes	800 / 1600
MAA-10-S-600	Yes	Optional	3 a 10	80 a 600	No	800 / 1400
MAA-10-S-600-CN	Yes	Optional	3 a 10	80 a 600	Yes	800 / 1400

(1) Production is conditioned by the size of the ring.

(2) The option of welding deburring, production varies 10 /15%.



Construction of Machinery for wire deformation

Capability.

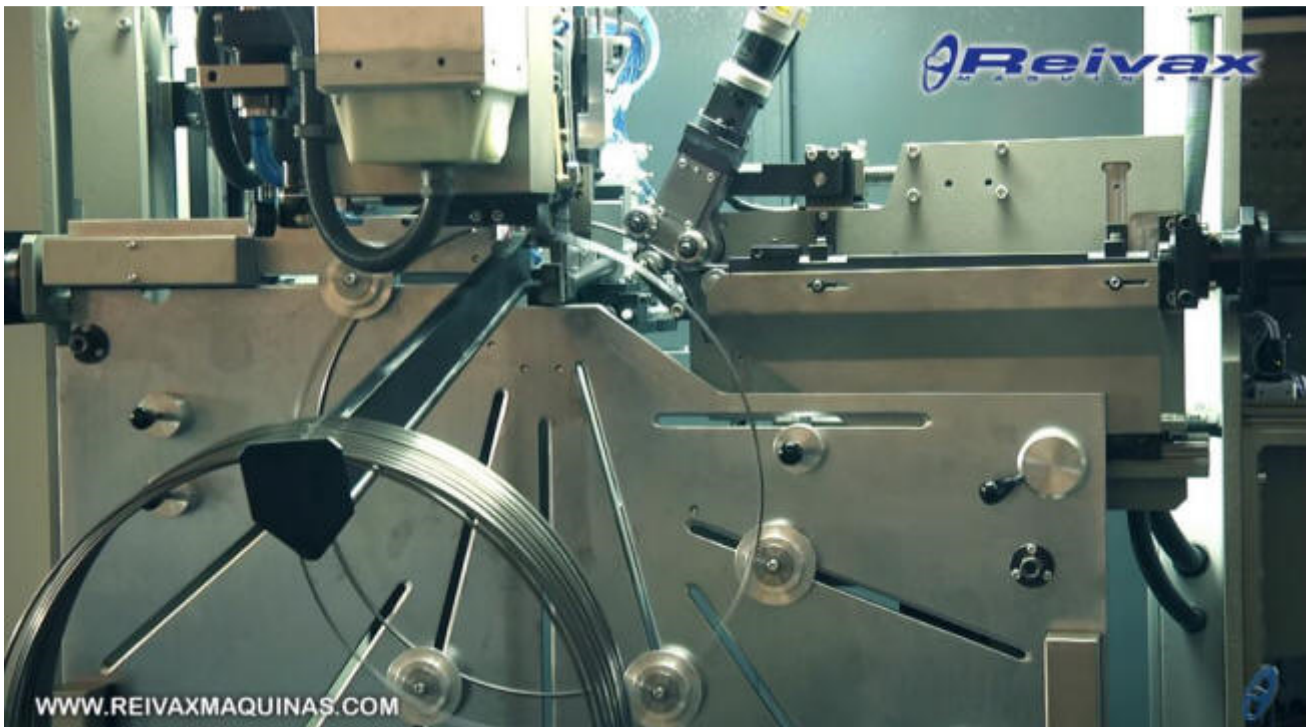
Machine for manufacturing wire rings with or without welding.

Model	On request
Feeding	Wire roll
According to the model:	
- Ø Wire 1 to 10 mm	According to the model
- Rod / Wire Hardness	900 N/mm2
- Ø Size rings 25 to 1200	According to the model
- Change size rings to CN	According to the model
- Weld the rings	According to the model
- Weld deburring	Optional
Length accuracy	+/- 0.1 mm
Diameter accuracy	+/- 0.1 mm
Accuracy of ring flatness: According to ring size	+/- 0,2, to 0,8 mm
Touch screen programming	Yes
CN drag box:	
- Model	ACN-8
- External encoder	Yes
- Precision of advance	+/- 0.1 mm
Straightener:	
- Horizontal body rollers	7
- Vertical body rollers	7
- Centesimal counter positioned wire.	Optional
Rod cutting	Hydraulic
Servos	Yes
Programmable PLC	Yes
Communication	Ethernet
Touch screen	Yes
Extendable control	Yes
Remote control (Internet)	Yes
Safety elements in the shape of the ring:	
- Photoelectric barrier	Yes
Machine:	

Construction of Machinery for wire deformation

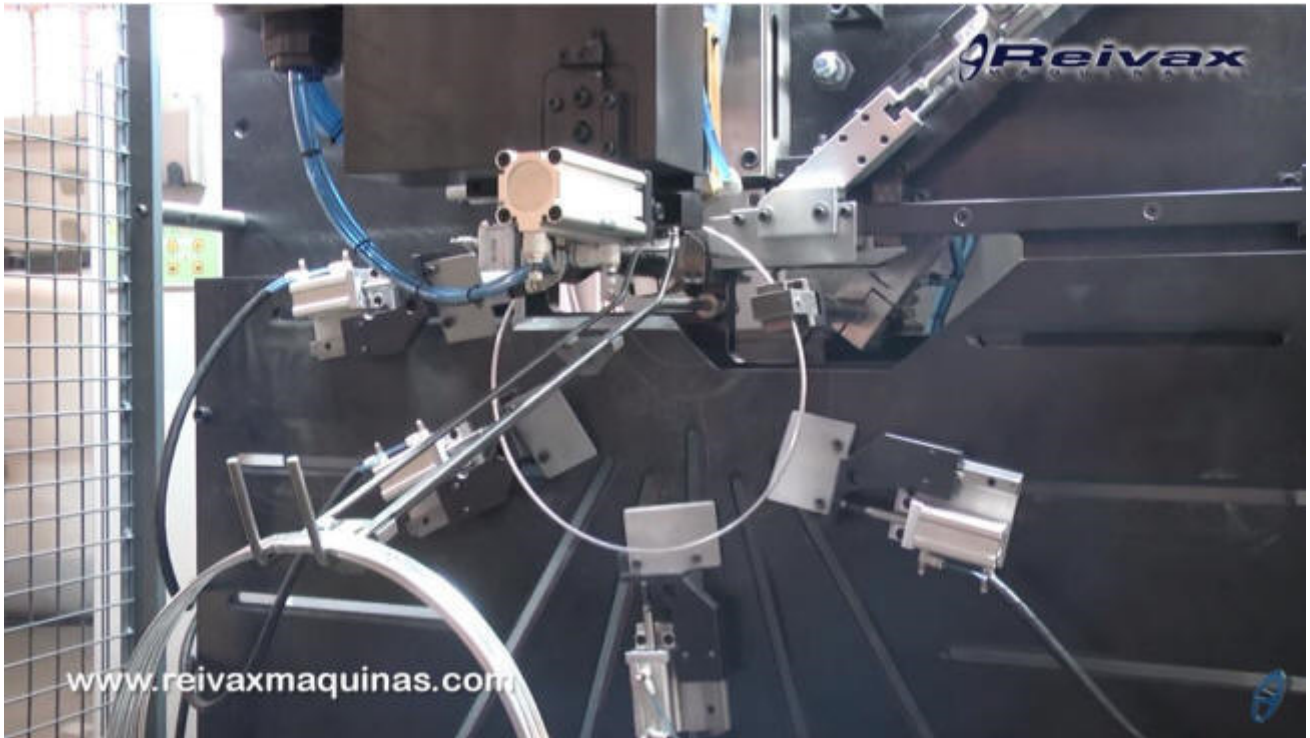
- Measurements	To consult
- Weight	To consult
- Installed potency	To consult
- Input Voltage	On request
Documentation: Spanish or English	On request
Certifications: Reference / Country	On request
External risk assessment (Pilz)	On request
Manufacturing period	+/- 5 months
Equipment to complete the installation:	
- Motorized decoiler 1000 Kg	Optional
- Perimeter security fence for the decoiler	Optional

Photo gallery:

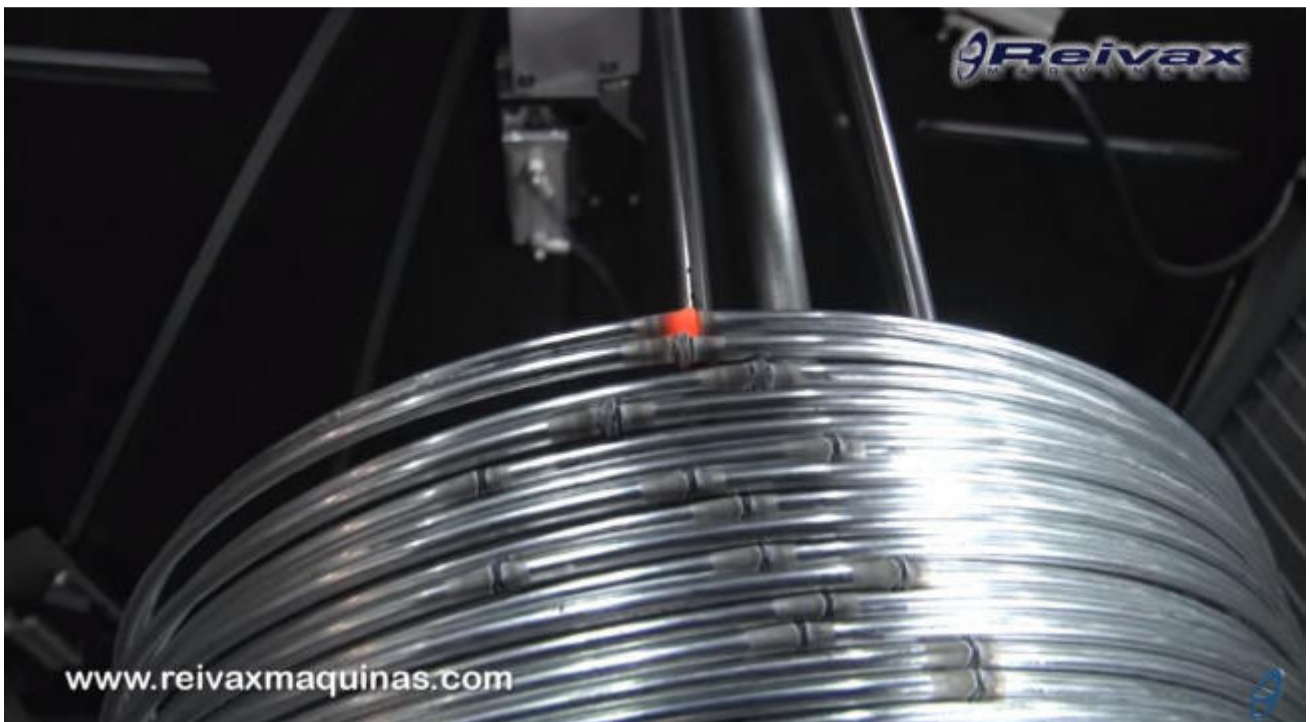


Machine for manufacturing wire rings.

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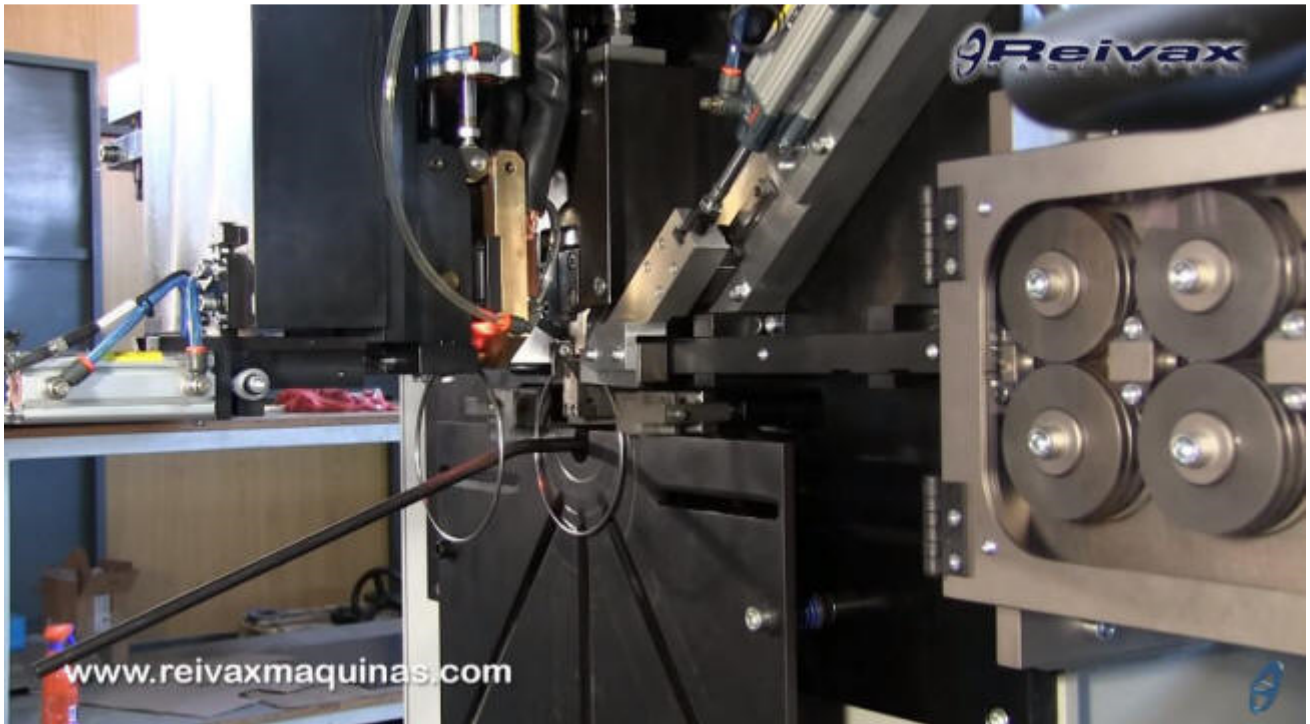


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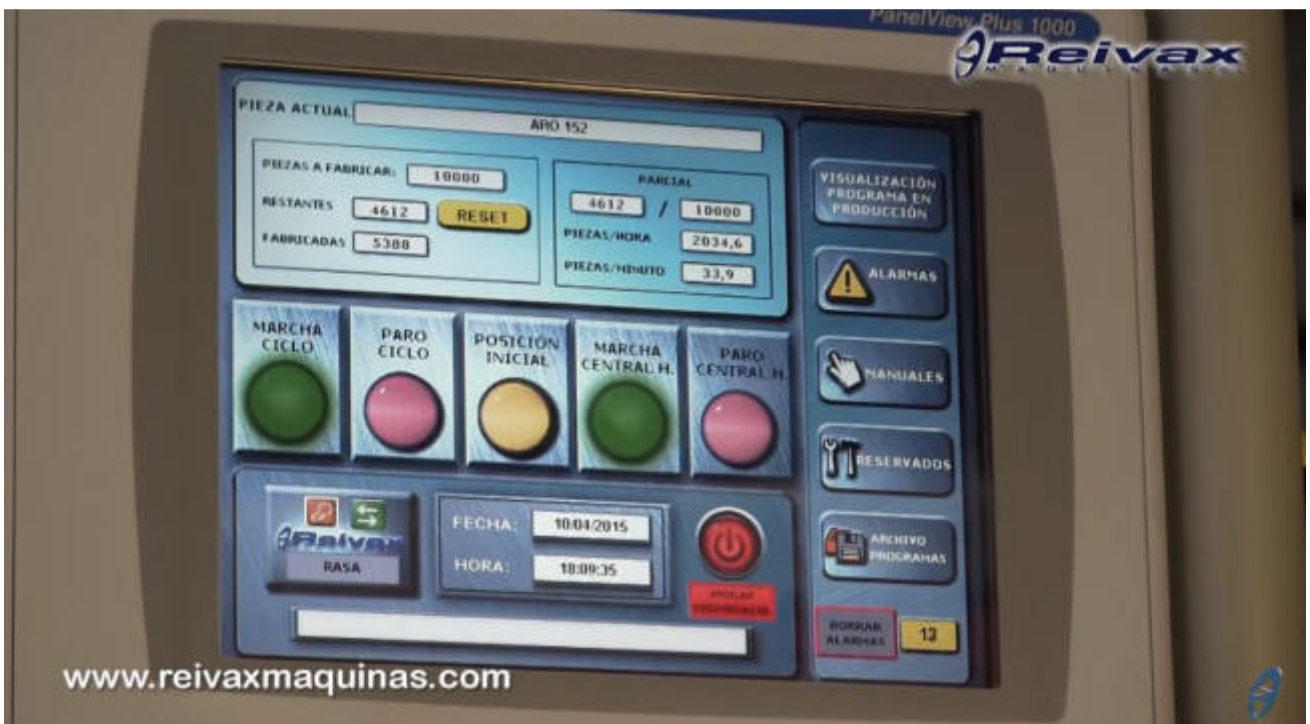


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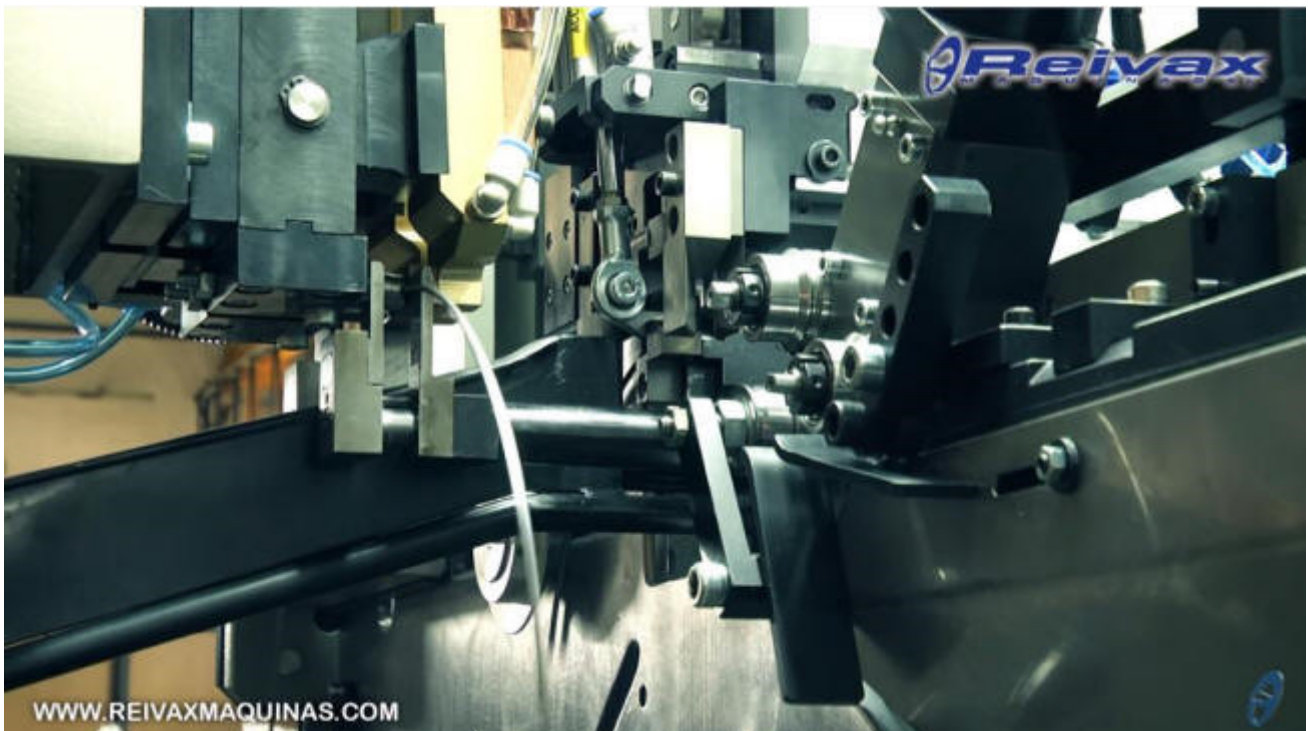


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Machine for manufacturing wire rings.

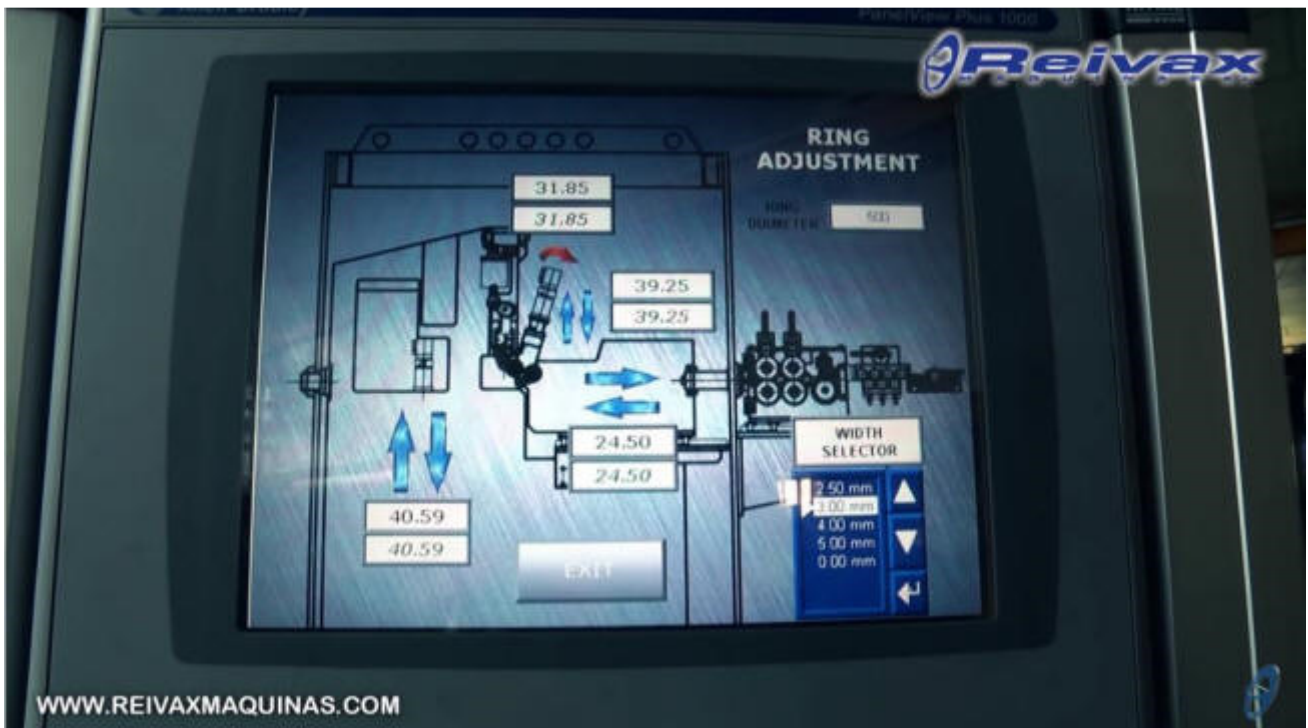


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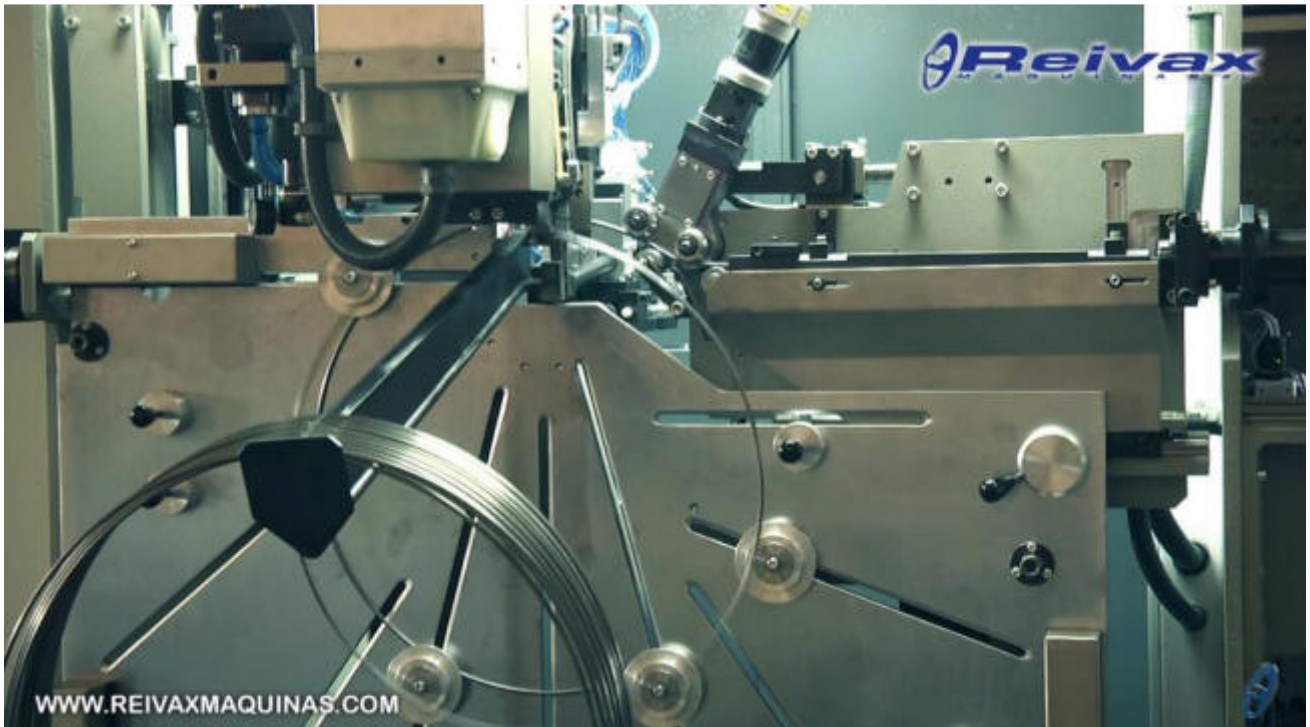


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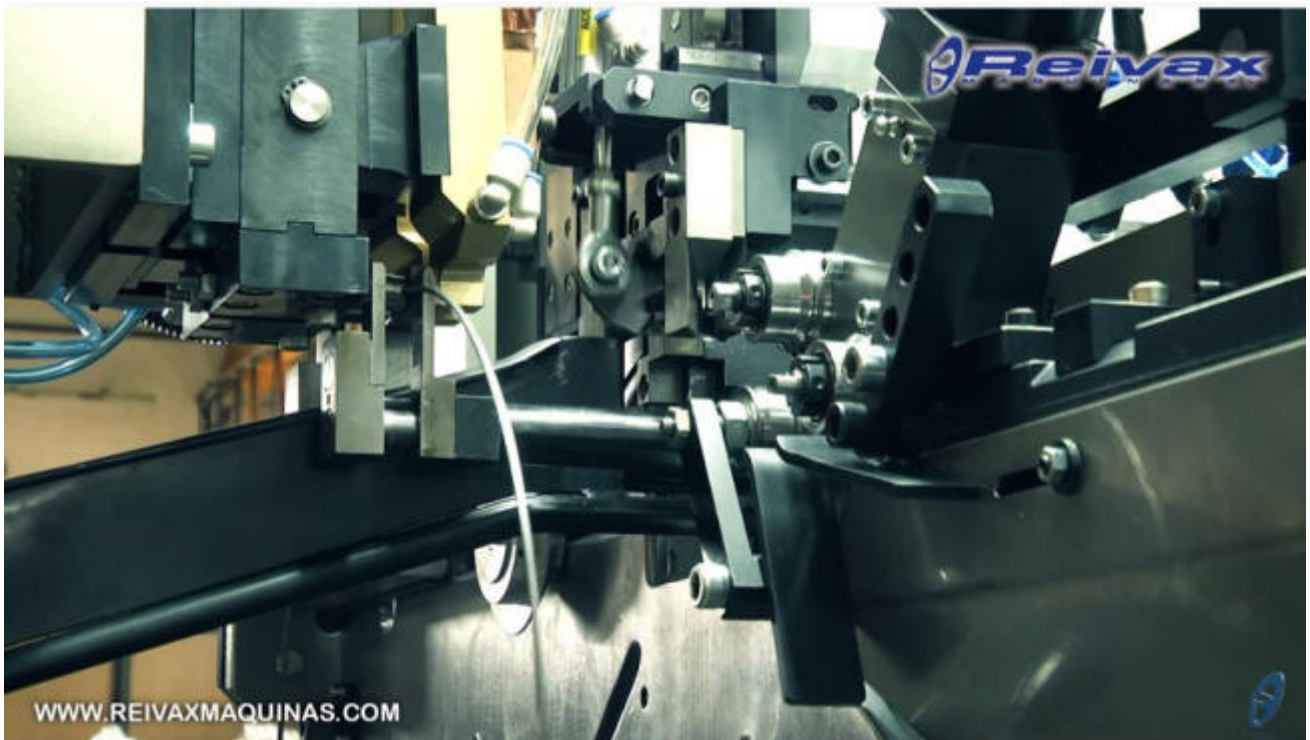


Machine for manufacturing wire rings.

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Machine for manufacturing wire rings.



Machine for manufacturing wire rings.

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Machine for manufacturing wire rings.

MAA-5-1000-CN



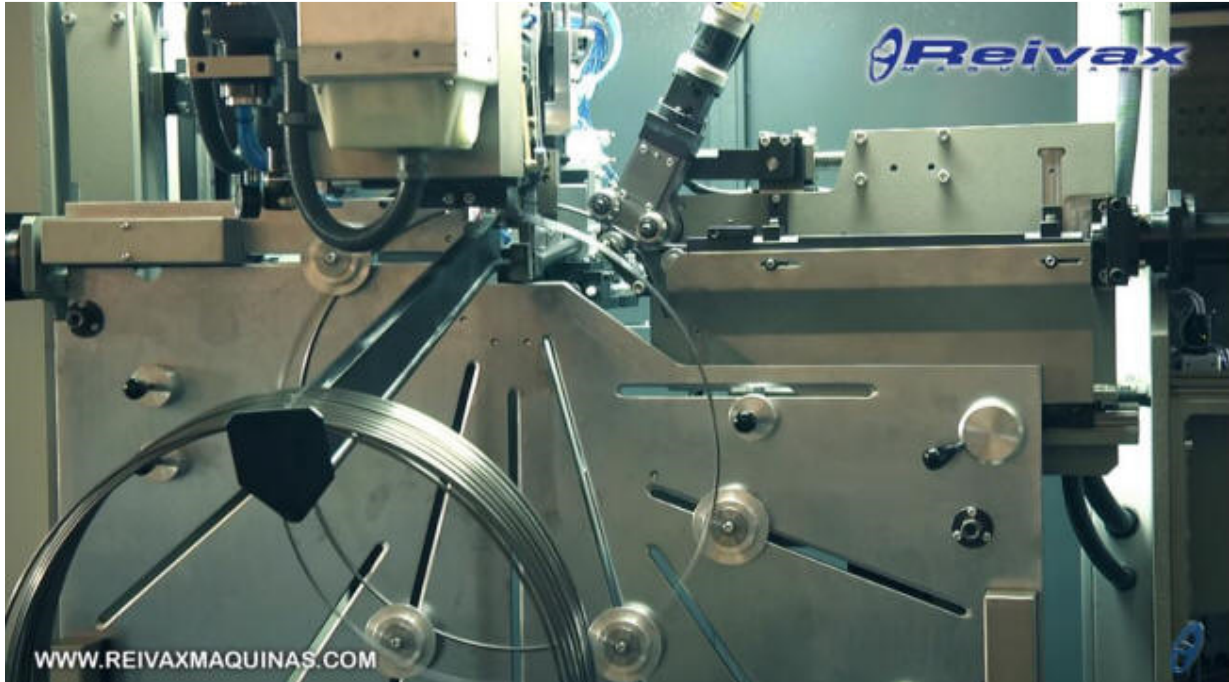
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20.12.11

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