

(Original) Use and maintenance manual

Type: Manual die cutter 1200mm
Model: F-120



IMPORTANT

Read this user manual and follow the instructions and warnings before operating this device.

Any modification or transformation performed on this machine may cause loss of the manufacturer's guarantee and liability.

This manual must always remain near to the machine and visible to all the operating and maintenance staff, for any future consultation, forming part of the equipment.

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- **CE Declaration of conformity:**

WE DECLARE, under our responsibility, that the machine:

- Type: Manual die cutter
- Brand: ERM Engineering
- Model: F-120
- Serial No.: xxxxxx
- Manufacturer date: 2021

Inspired by the directives of the Official Journal of the European Communities:

2006/42/CE Machinery Directive

Complies with the design and construction specifications of the European Standards on General Machine Safety:

EN 349 - EN 614-1 - EN 614-2 - EN 12100 - EN 11161-1 - EN 1005-1 - EN 1005-2 - EN 1005-3 - EN 1005-4 - EN 13849-1 - EN 13849-2 - EN 894-3 - EN 13857 - EN 14120

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ermengineering
belting fabrication equipment

Arenys de Munt (Barcelona)-SPAIN

Date: 2021/08

- **Description:**

Portable die cutter to cut conveyor belts in zigzag, Exchangeable cutting heads for different cutting geometries.

Support bench with material positioning guides.

This die cutter is especially designed to operate onsite for cut thermoplastic materials with interior tissue.

The head is removable to reduce the weight during the transport.

- **Technical characteristics:**

- Belt thickness max.	8mm
- Stroke head	1120mm
- Standard cutting head	80x10
- Frame Dimensions (LxWxH)	1575x295x330mm
- Head Dimensions (LxWxH)	235x230x365mm
- Head Weight	11kg
- Frame Weight	36kg

- **Using instructions:**



WARNING:

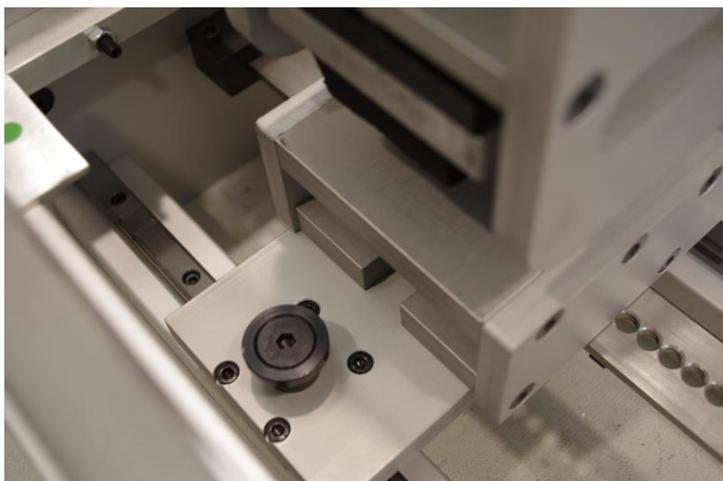
THIS DEVICE INVOLVES THE HAZARD OF HANDS AND ARMS BEING TRAPPED BY THE MOVEMENT OF THE CUTTING HEAD

GREAT CARE MUST ALSO BE TAKEN BETWEEN THE CUTTING HEAD AND THE SUPPORT PLATE, AS THERE IS A DANGER OF CUTTING LIMBS.

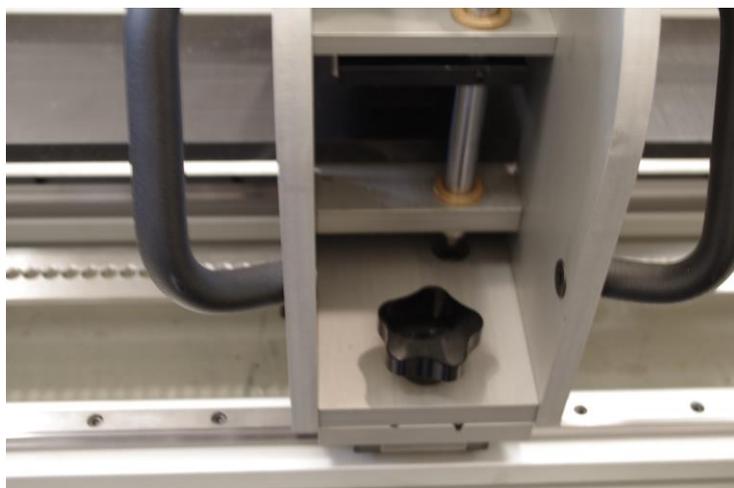
Portable head assembly

Positioning the cut handle complete vertically to keep the down pin inside the body.

Introduce the punching head on top of guides plate until the end.



Fix the head with the knob M-10

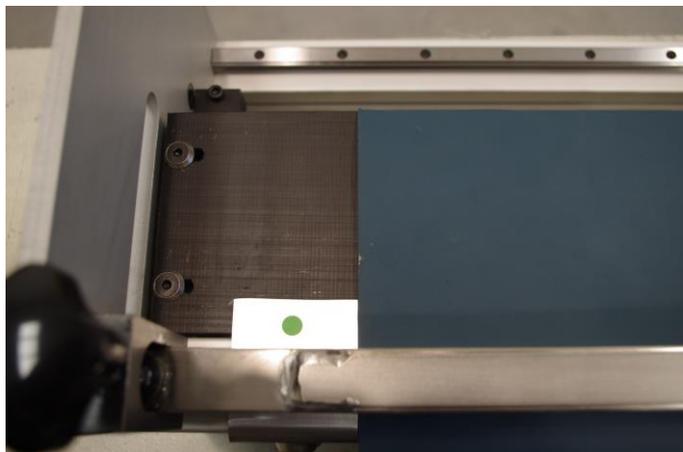


Push the down camp to liberate the step pin and move the head until the centre of frame.

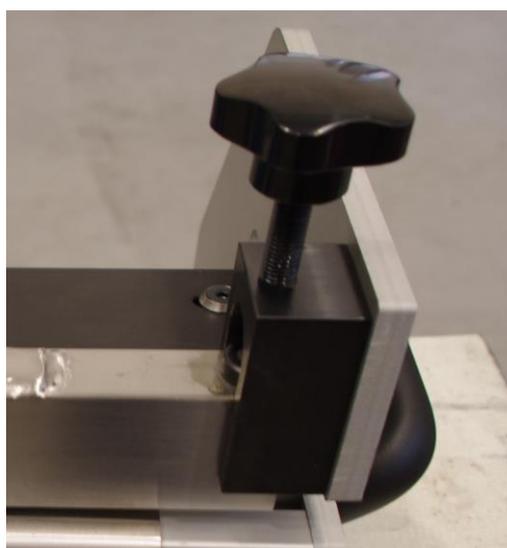


Operate instructions:

First we place the first end of the belt on the GREEN side by the guide rail with the coverage on top and position under the trad bar until end of plastic plate.



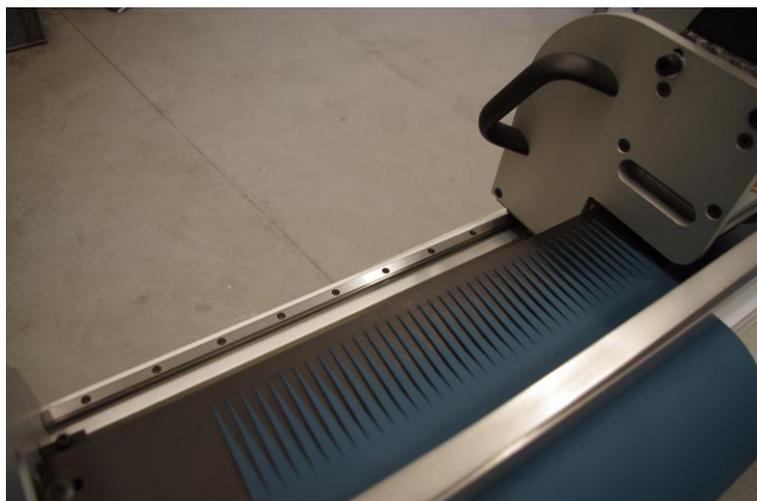
Fix the belt lowering the bar with two knobs tightening at the same time.



Once the belt is in position and complete fixed, push the down camp to liberate the step pin and move the head until end of stroke of GREEN side.

Them we can start to punch acting with handle in all the stork up and down.

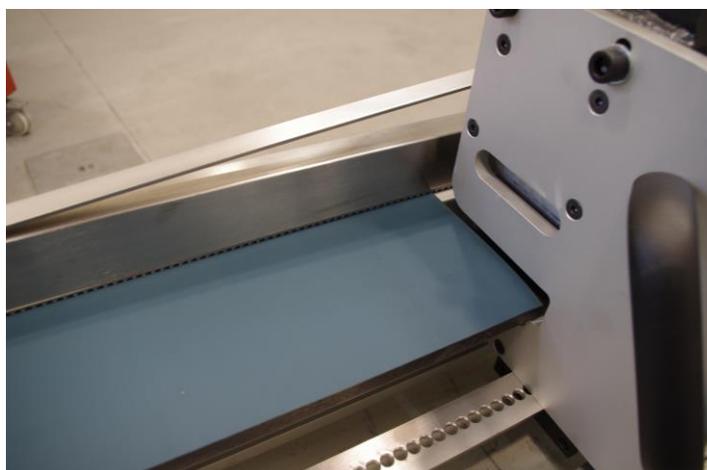
After each cut operation , handle are complete up, push the head to left side until break with down pin, them the punching head is in the next position to repeat the operation.



When the first head of belt are complete punched, open the clamp and introduce the second head in the YELLOW side, with coverage on top also.



When handle are complete up, push the head to YELLOW side until the belt down the blades.



Once the head is in position to cut the second head of belt, start to punch until end of stroke in YELLOW side.

NOTE:

This punching head, only works in one direction (green to yellow)

Belt cutting measurements for the different punches.

80 x 10 90° 100 mm. Longer

Changing die head

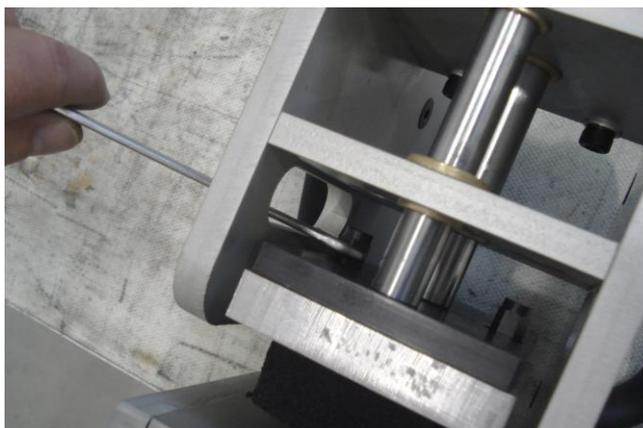


WARNING:

When changing the die, it is recommended to turn off the equipment with the OFF switch for greater safety.

Remove the punching head for replaces the knives plate.

We remove the 2 bolts using a 10mm key.



We remove the die and install the new one.



We tighten the 2 bolts again.

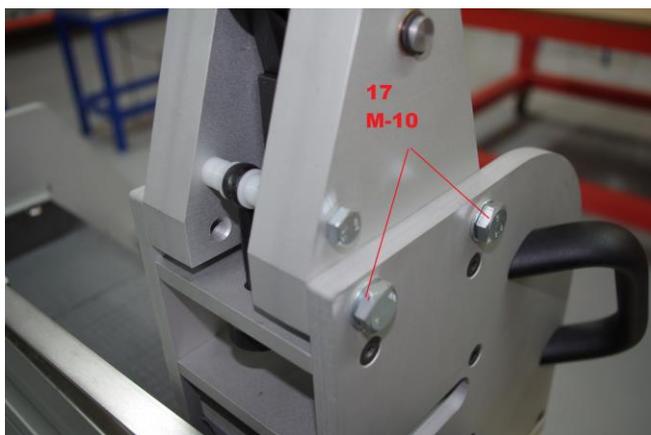
Adjust the pressure stroke:

NOTE:

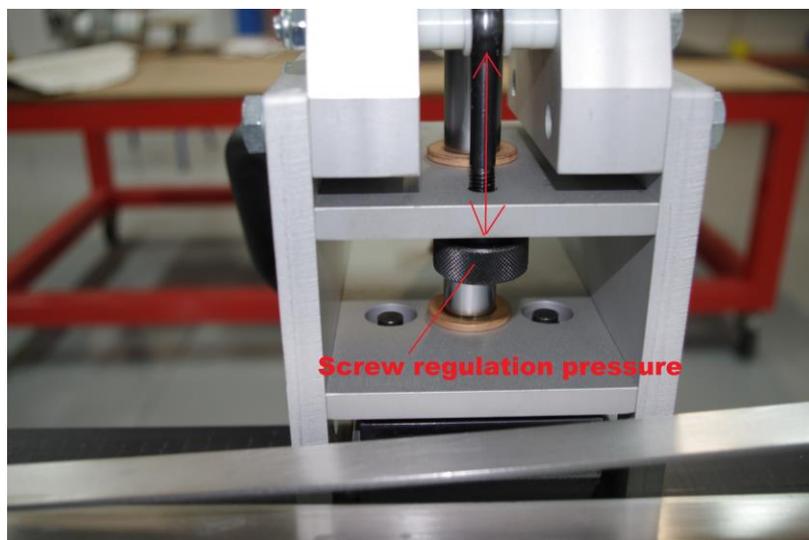
We must adjust the cutting pressure for every time that nylon plate is replaced.

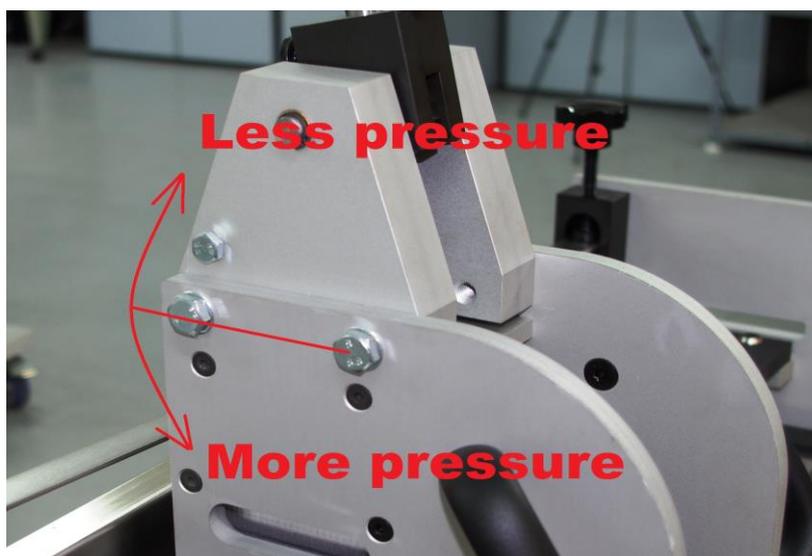
Otherwise, excess pressure may cause breakage of the blades, or deterioration of the cutting nylon.

Loosen the 4 screws key 17mm M-10.

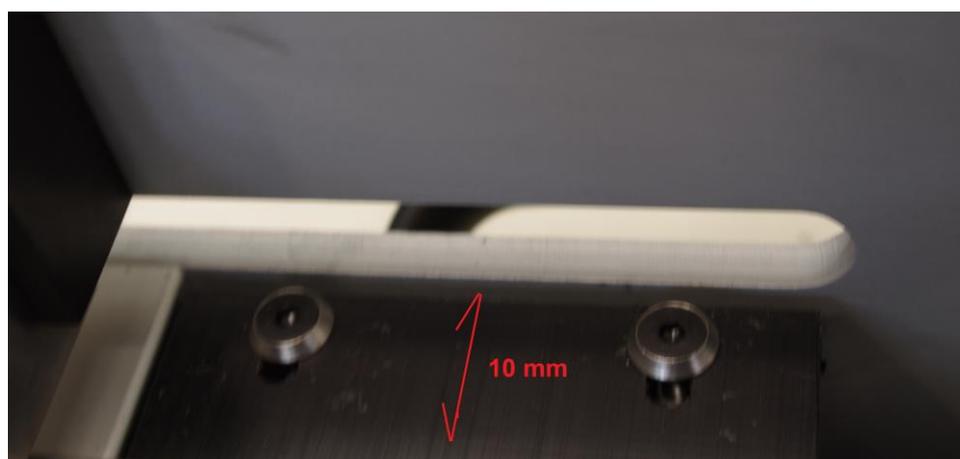


Up or down the back side of head across the screw pressure like a next picture.



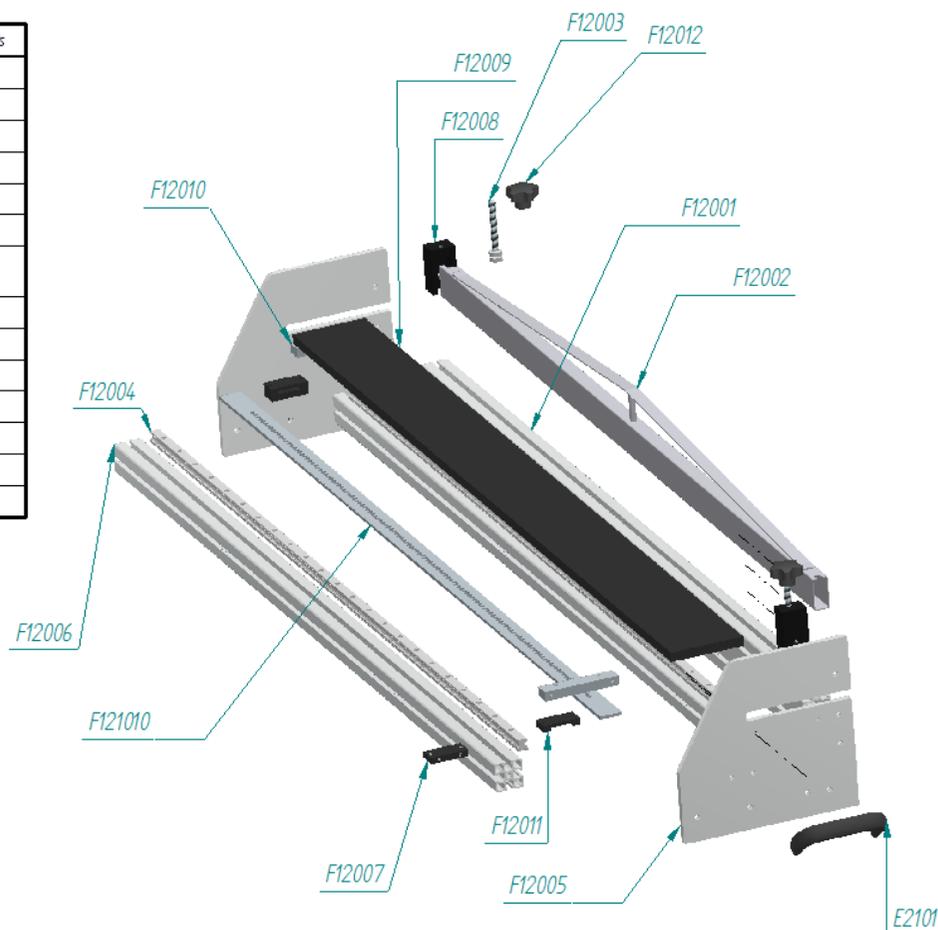


Also, you can move the cutting nylon to profit all the surface because the step always is the same.



- **Spare parts:**

Number	Part name	Units
F12001	45x90x1400.par	1
E2101	ASA INCLINADA.par	2
F12002	BARRA PISADOR.par	1
F12003	ESPARRAGO PISADOR.par	2
F12004	GUÍA FRANKÉ 15.X1250.par	2
F12005	LATERAL BANCADA 1.par	2
F12006	minitec...20...1033...0...3zbay39dfcbbjzdz21e03 bbv.par	2
F121010	Pasamano paso.par	1
F12007	Pestaña pasamano paso.par	2
F12008	PESTAÑA PISADOR.par	2
F12009	Poliamida.par	1
F12010	Soporte nylon.par	2
F12011	Tapa pestaña.par	2
F12012	vc...192...50...b...m10.par	2

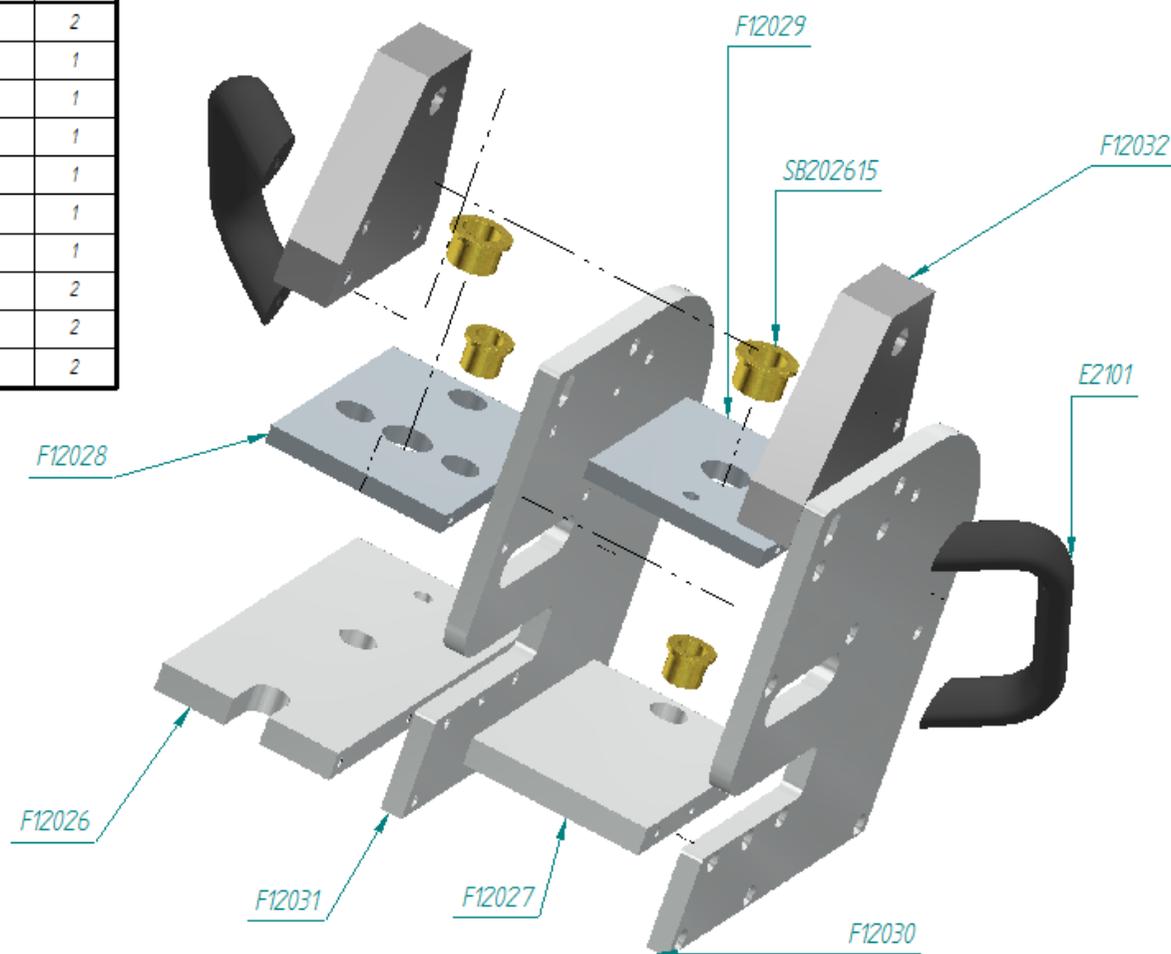


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Number	Part name	Units
E2101	ASA INCLINADA.par	2
F12026	Base cabezal.par	1
F12027	BASE DE TROQUELADO.par	1
F12028	Distancial troquel inferior.par	1
F12029	Distancial troquel superior.par	1
F12030	LADO CABEZAL-1.par	1
F12031	LADO CABEZAL-2.par	1
F12032	Regulador presion.par	2
SB152015	Selfoi 15-20-15.par	2
SB202615	Selfoi 20-26-15.par	2

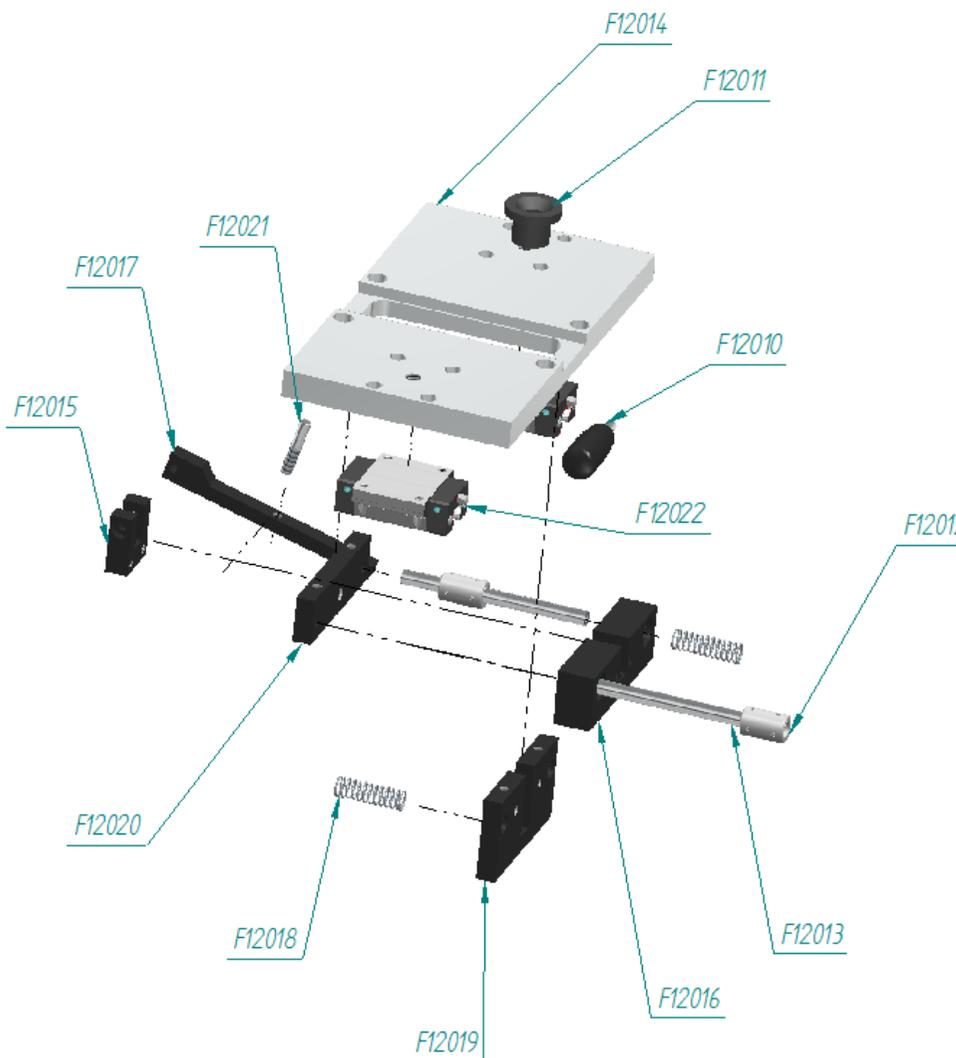


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Number	Part name	Units
F12013	barra guia gatillo.par	2
F12014	Base patines.par	1
F12015	Bisagra gatillo.par	1
F12012	bush_kh_0824_0.par	2
F12011	centrador base cabeza.par	1
F12016	Corredera gatillo.par	1
F12017	Gatillo.par	1
F12010	i_280_40_p_m6x16.par	1
F12018	Muelle.par	2
F12019	Pasamano guia gatillo 2.par	1
F12020	Pasamano guia gatillo.par	1
F12021	Patin Hiwin 15.par	2
F12021	perno paso.par	1

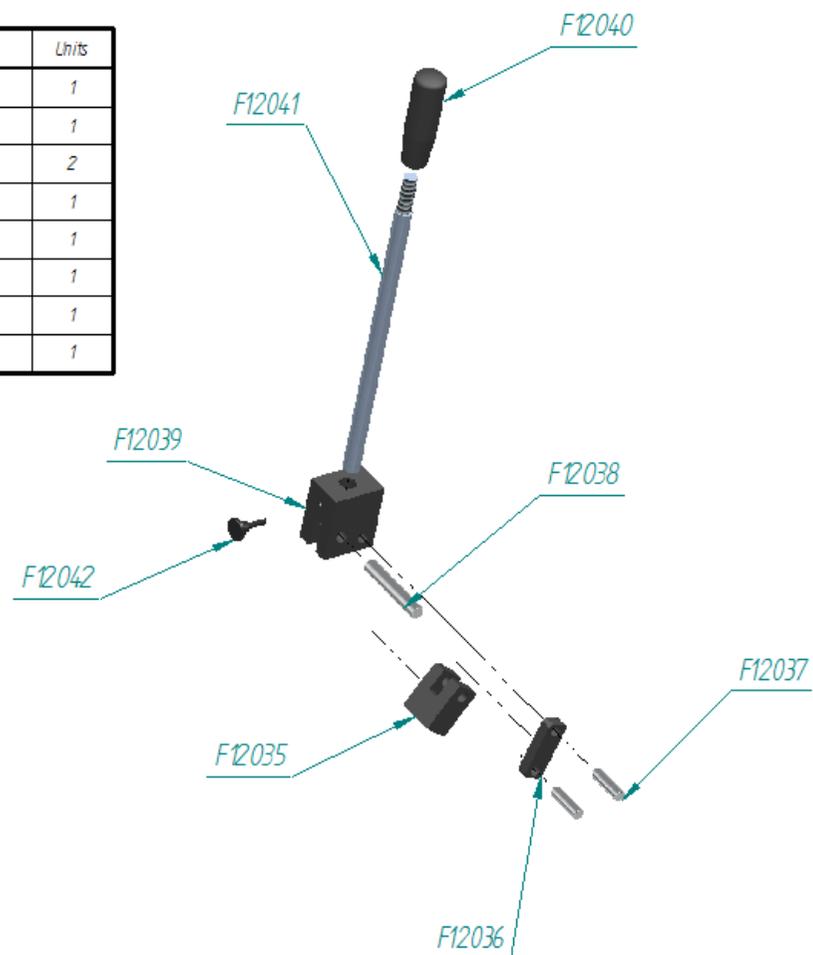


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Number	Part name	Units
F12035	Anclaje vastago.par	1
F12036	BISAGRA.par	1
F12037	CLAVIA 10X35.par	2
F12038	CLAVIA 12X70.par	1
F12042	din_464_m5_20.par	1
F12039	EXCENTRICA.par	1
F12040	i_280_90_m12.par	1
F12041	PALANCA.par	1



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Number	Part name	Units
Kn77102	cuchilla 0.7x82xdoble bisel normal.par	2
70200	Distancia troquel.par	1
F12023	EJE ANTIGIRO.par	1
F12024	Eje presion.par	1
F12022	Tornillo troquel.par	2
F128010	TROQUEL-80X10.par	1
F12025	Vastago paso.par	1

