ermengineering
belting fabrication equipment

SK-270
Skiving machine 270mm.

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.

Avda. Sot de les Vernedes 8, 08396 Sant Cebrià de Vallalta (Barcelona) Spain
(+34) 937632525
info@ermengineering.com
www.ermengineering.com

2013 April

Index:

Avda. Sot de les Vernedes 8, 08396 Sant Cebrià de Vallalta (Barcelona) Spain
(+34) 937632525
info@ermengineering.com
www.ermengineering.com

-.Description:

Transmission belt skiving, with motor-driven abrasive roller and manual table advance with inclination adjustment for various bevelling angles. Abrasive roller height adjustment using an eccentric shaft.

-.Connecting to the mains supply:

The machine should be connected to a 2-phase 230V mains electricity supply, depending on the voltage stated on the technical specifications plate, together with the corresponding earth connection. Attention must be paid to the motor rotation direction.

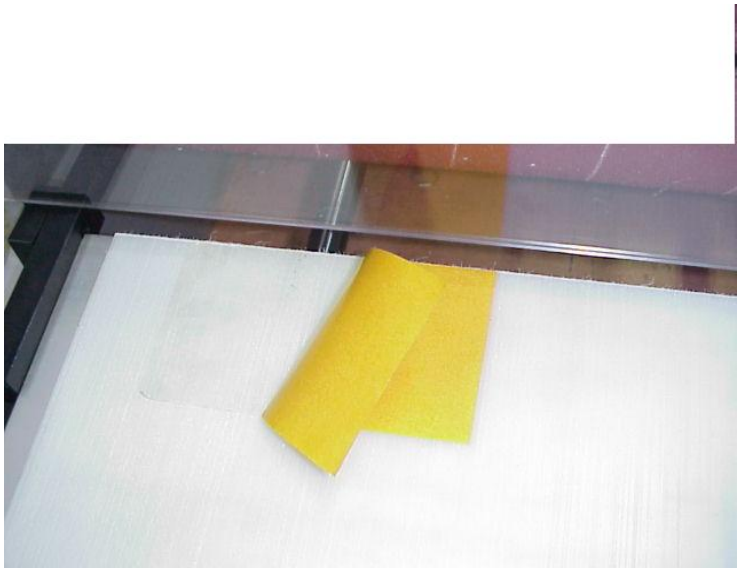
-.Technical Characteristics:

Dimensions	510 x 500 x 375mm.(L x W x H)
Weight	32Kg
Roller width	270 mm.
Bevel travel	180 mm.
Roller diameter	100 mm.
Maximum thickness	15mm.
Revolutions	490 rpm.
Bevel angle	from 0º to 3.5º (30 Points)
Motor	0.75Kw 5.6Amp 2 Phases 230V

-.Using instructions:

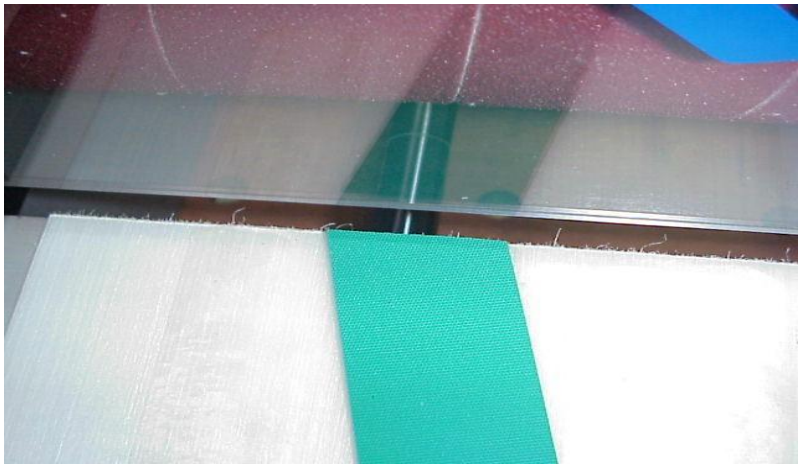
Once the mains supply connection has been made, it should be verified that the motor is rotating in the correct direction, (if it does not, then the connections for two of the phases should be reversed).

Fit the adhesive tape over the white nylon plate in the working zone, just as shown in the figure. This operation is essential to obtaining a good finish since it will prevent stretching and breaking during the process.

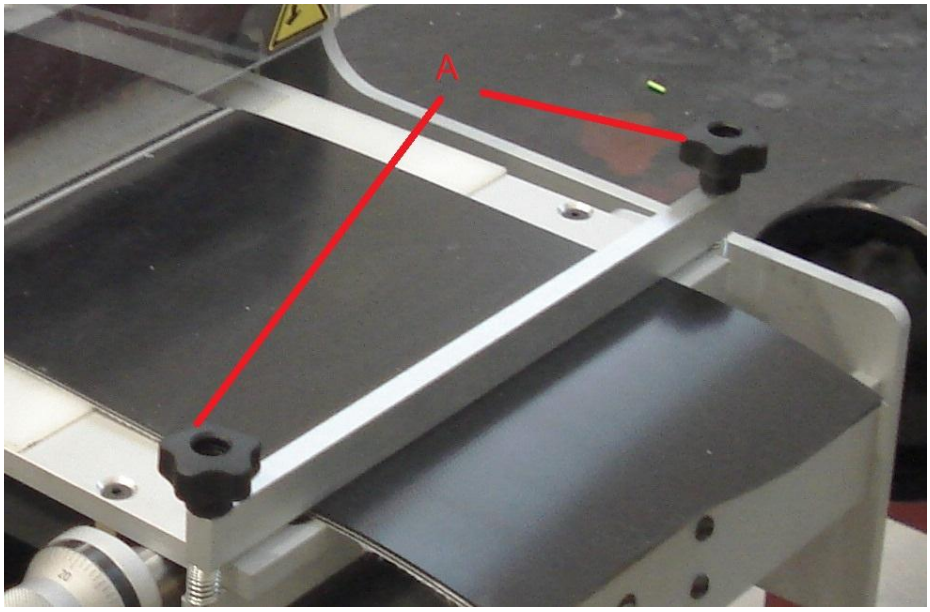


The belt should be passed under the retaining bar up to the edge of the table, adhering the end to be bevelled on the adhesive tape just at the table end as shown in the following photo.

Avda. Sot de les Vernedes 8, 08396 Sant Cebrià de Vallalta (Barcelona) Spain
(+34) 937632525
info@ermengineering.com
www.ermengineering.com

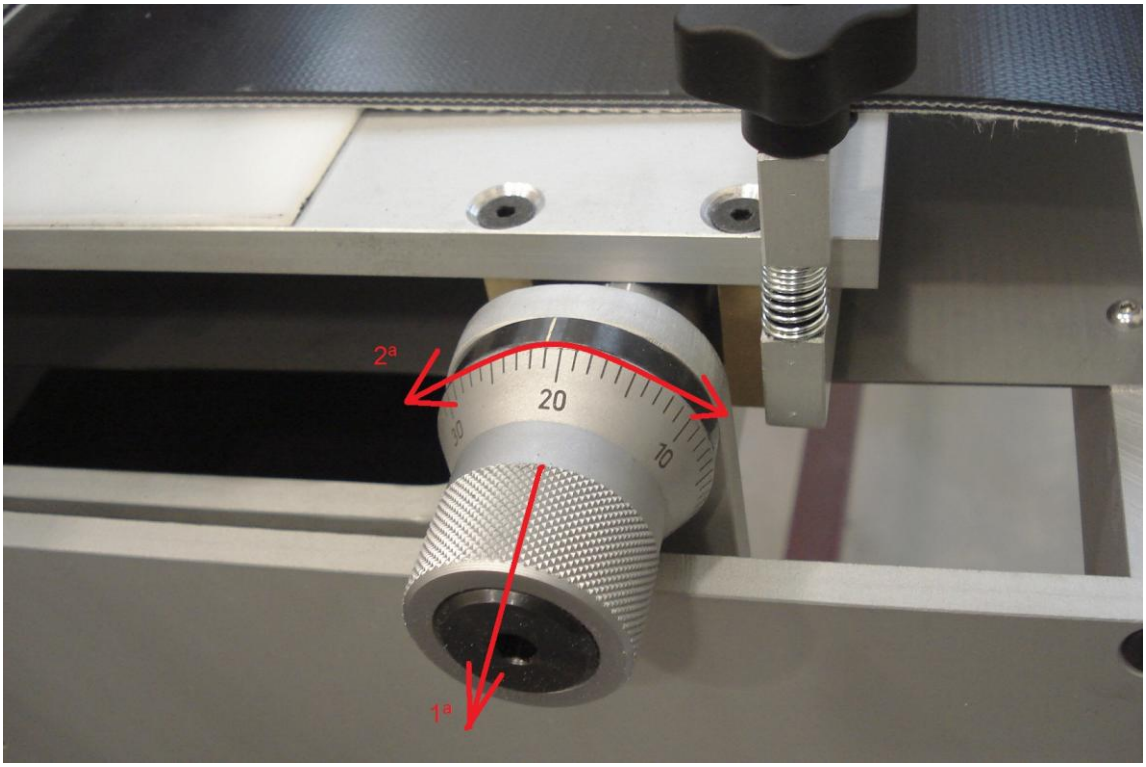


Fix the belt in place using the bar by means of the knobs (A) always attempting to maintain parallelism with the table, in other words, performing this operation on both sides at the same time and in the same proportion.



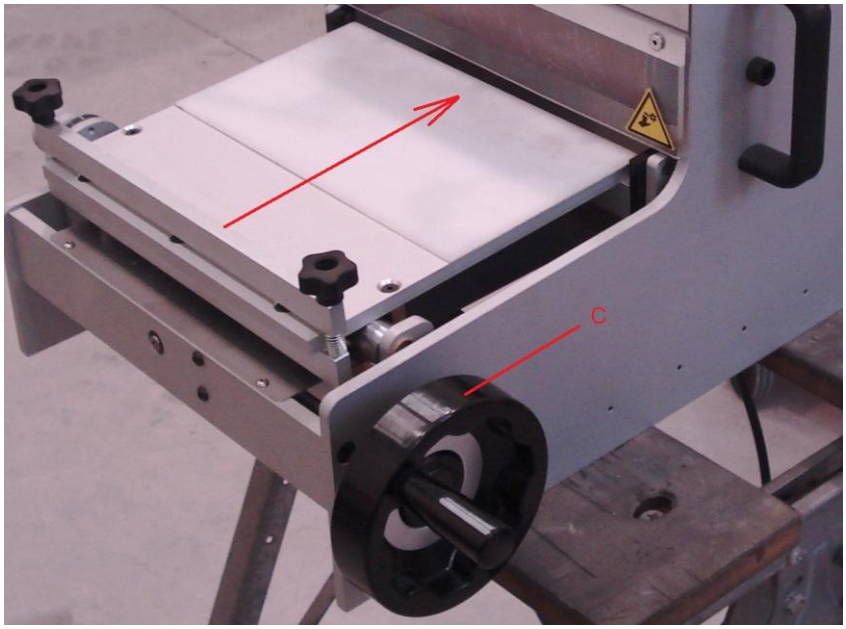
We then adjust the bevelling angle as given in the values table (Page 7), releasing the milled knob towards the outside of the machine as shown in the diagram and turning it to the required point and then locking it again.

Avda. Sot de les Vernedes 8, 08396 Sant Cebrià de Vallalta (Barcelona) Spain
(+34) 937632525
info@ermengineering.com
www.ermengineering.com



Starting-up the motor by pressing the red button on the motor box.

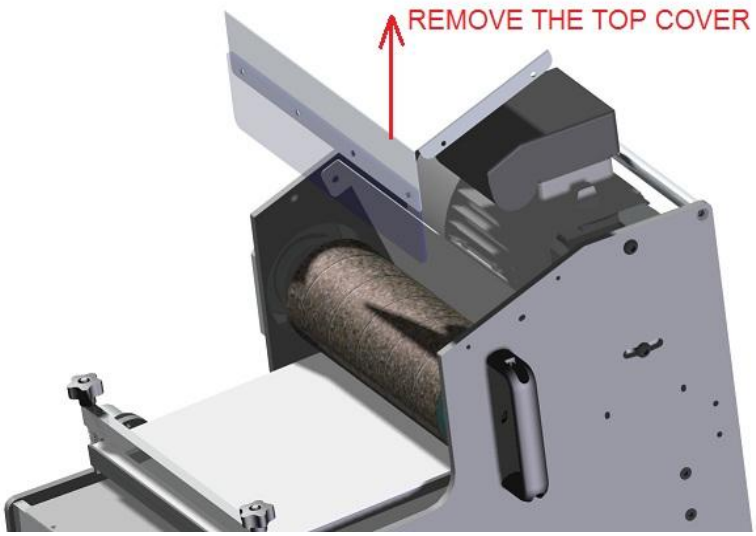
Slowly move the skiving table trough the steering wheel C



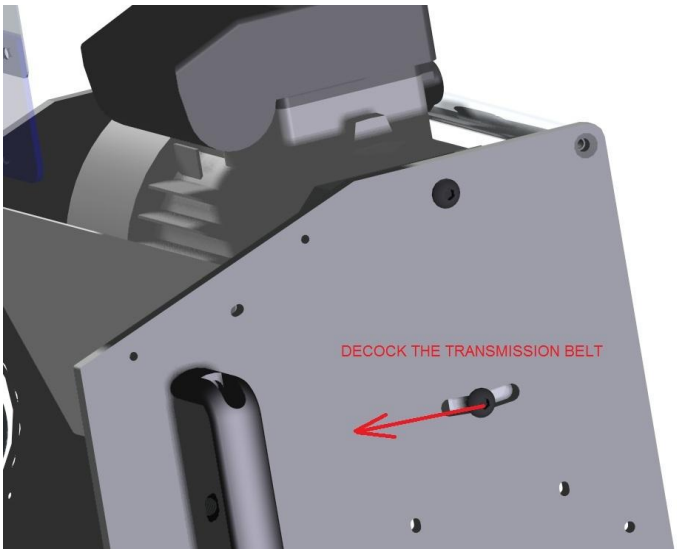
-Changing and adjusting the abrasive tape.

We also recommend that the polycarbonate protection is removed to provide more working space and to avoid any damage to this protection.

When changing the abrasive belt, the machine must be disconnected from the mains electricity supply in order to guarantee a safe working environment. Once this has been done, the motor head should be fully opened roller cover protection

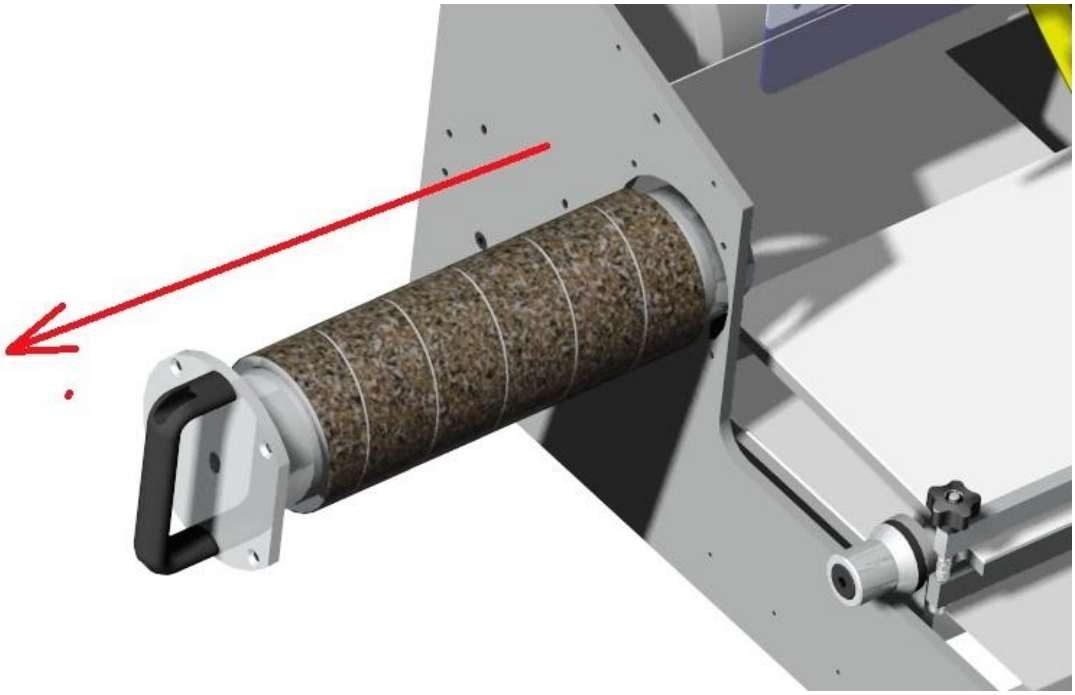


Loosen the transmission belt.



Remove the abrasive roller

Avda. Sot de les Vernedes 8, 08396 Sant Cebrià de Vallalta (Barcelona) Spain
(+34) 937632525
info@ermengineering.com
www.ermengineering.com

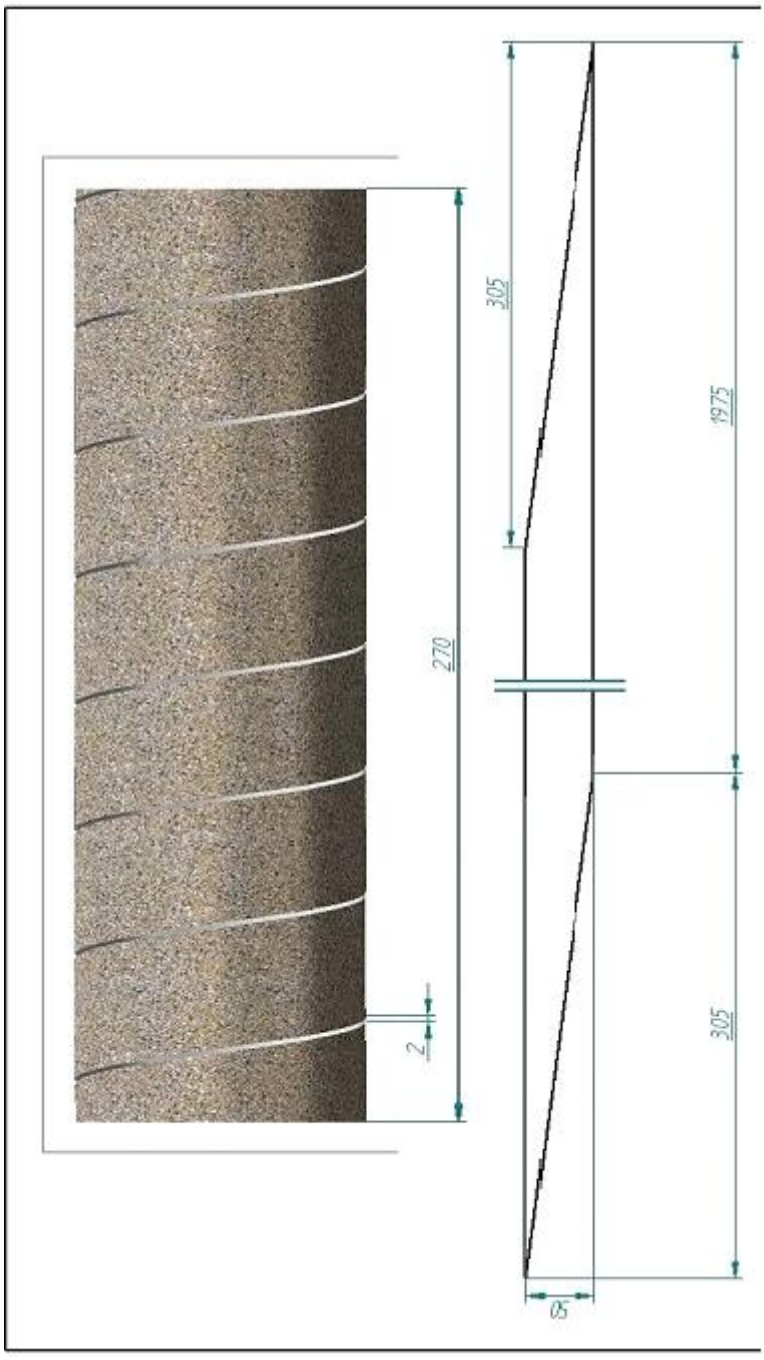


The old tape should be removed by pulling on it at one end and rotating the roller until it is completely free.

The entire roller surface should be cleaned with alcohol or a similar product in order to guarantee good adherence of the new belt and a uniform level without any thickening.

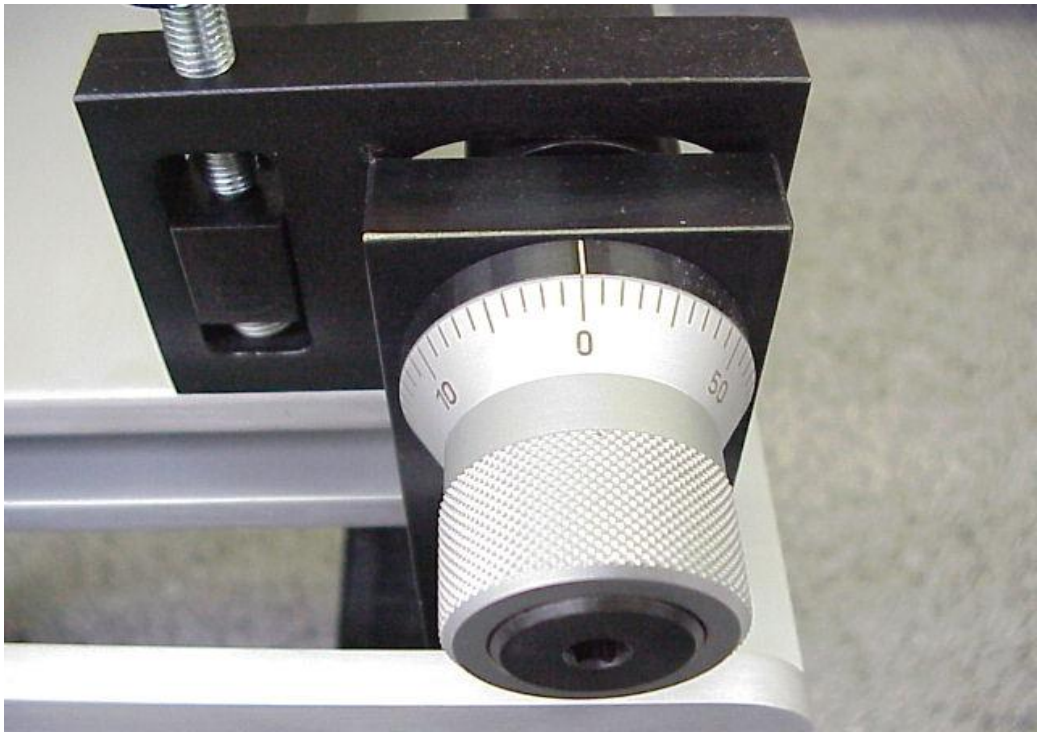
Cutting the abrasive tape.

Avda. Sot de les Vernedes 8, 08396 Sant Cebrià de Vallalta (Barcelona) Spain
(+34) 937632525
info@ermengineering.com
www.ermengineering.com



Avda. Sot de les Vernedes 8, 08396 Sant Cebrià de Vallalta (Barcelona) Spain
(+34) 937632525
info@ermengineering.com
www.ermengineering.com

Adjust setting of the inclination control to the 0 position.



Avda. Sot de les Vernedes 8, 08396 Sant Cebrià de Vallalta (Barcelona) Spain
(+34) 937632525
info@ermengineering.com
www.ermengineering.com

-.Warnings:

- **The machine should always be connected to the mains electricity supply via thermal-magnetic and differential breakers, and protected by an earth connection.**
- **Under no circumstances should any work be carried out without the belt and roller protections.**
- **The suction nozzle should be connected to prevent the possibility of inhaling toxic particles.**
- **Remove the mains electricity supply plug from the socket before carrying out any adjustment or similar operation.**

- Possible problems and solutions.

The motor will not start up. **Check that mains electricity is available.**

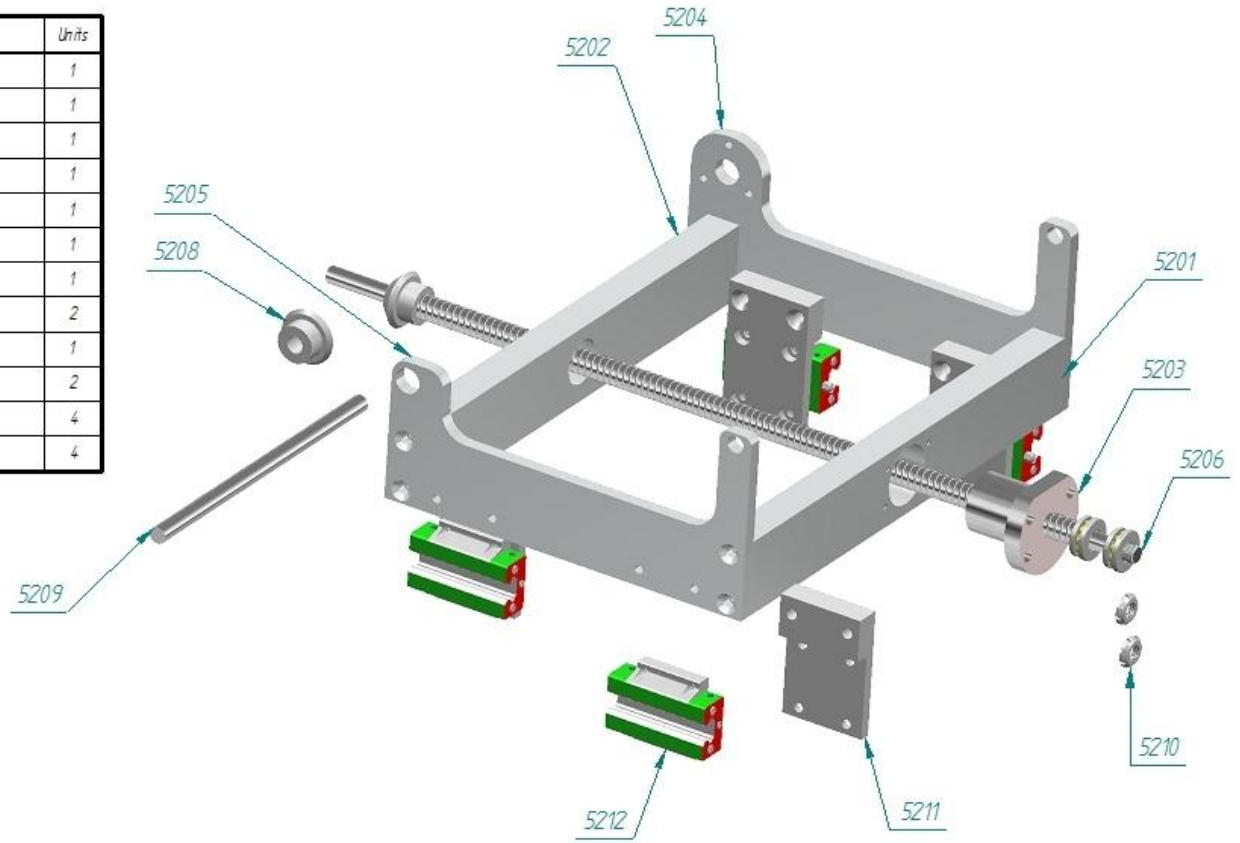
Incorrect bevel operation. **Check the abrasive tape condition or level the table.**

Avda. Sot de les Vernedes 8, 08396 Sant Cebrià de Vallalta (Barcelona) Spain
(+34) 937632525
info@ermengineering.com
www.ermengineering.com

ermengineering
belting fabrication equipment

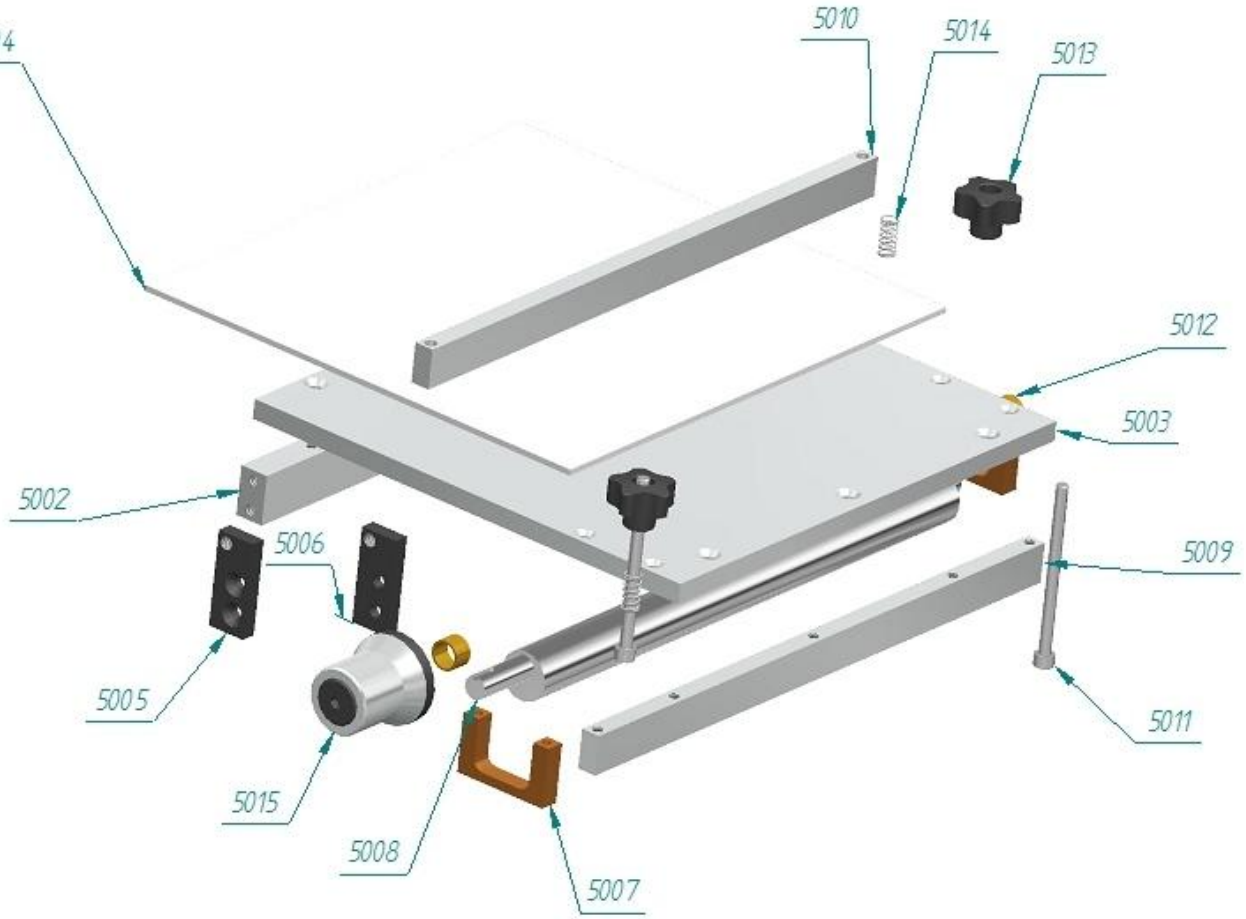
-. Spare parts:

Number	Name	Units
5201	Travesaño inferior 1.par	1
5202	Travesaño inferior 2.par	1
5203	Tuerca Husillo.par	1
5204	Patilla bajo mesa mando.par	1
5205	Patilla bajo mesa 2.par	1
5206	Husillo.par	1
5207	Engranajes.asm	1
5208	Engranaje 1.5 z20.par	2
5209	Eje volante.par	1
5210	KM-0.par	2
5211	Pata patin.par	4
5212	Patin Hiwin 15.par	4

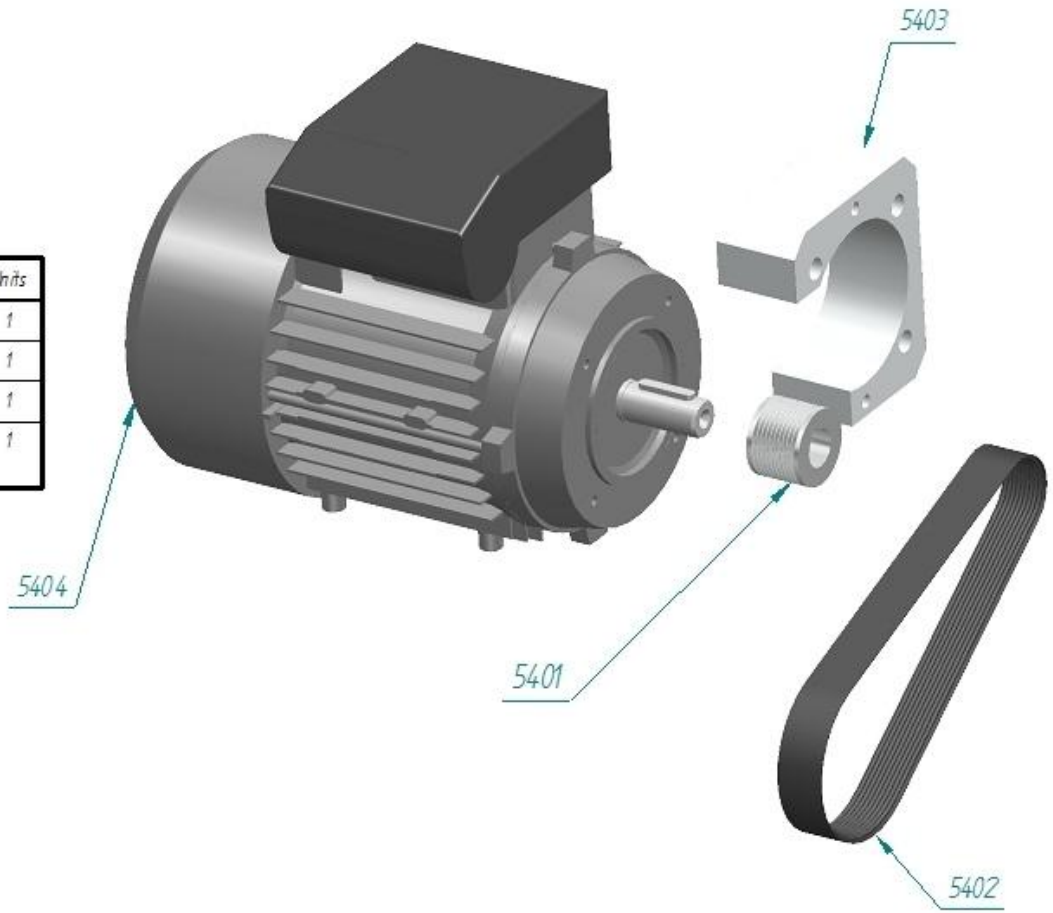


ermengineering
belting fabrication equipment

Number	Name	Units
5001	Mesa.asm	1
5002	Refuerzo mesa.par	1
5003	Mesa biselada.par	1
5004	Nylon.par	1
5005	Patilla mesa 1.par	1
5006	Patilla mesa 2.par	1
5007	Oreja inclinación.par	2
5008	Eje angulación.par	1
5009	Refuerzo mesa tras.par	1
5010	Pisador.par	1
5011	Screw_DIN_912_M6x85_v8.50.par	2
5012	Selfoil 12x15x10.par	2
5013	vct_32_fp_m6.par	2
5014	muelle pisador.par	2
5015	gn_200_44_k12_as___0.par	1

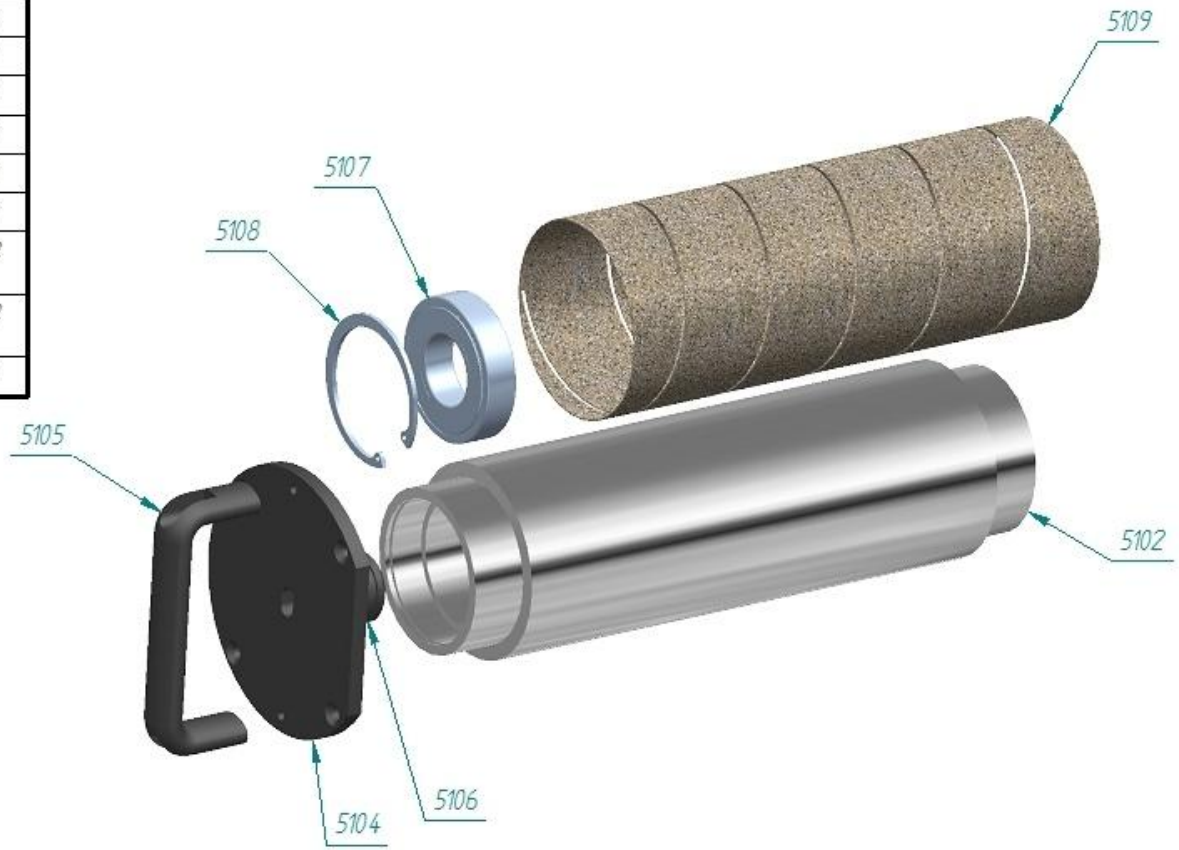


Number	Name	Units
5401*	Polea motor.par	1
5402	Poly-V 508 J10	1
5403	Brida motor.par	1
5404	S080IC41B1412019X40N0_____A003_STD1.asm	1



ermengineering
belting fabrication equipment

Number	Name	Units
5101*	Un Lateral.par	1
5102	Rodillo 113!.par	1
5103*	Mangon Rodillo fijo.par	1
5104	Mangon Rodillo.par	1
5105	m_643_fm_140_b_6.par	1
5106	Mangon Rodillo fijo 2.par	1
5107	Bearing_DIN_625_1_1989_6207_2Z_v9.50.par	2
5108	Guard_ring_B_DIN_472_72x2.5_A_v9.50.par	2
5109	Lija.par	1



-.EC Declaration of conformity:

WE DECLARE, under our responsibility, NOTWITHSTANDING HIGHER AUTHORISED CRITERIA, that the machine:

-Model: SK-270
-Serial no.: 13789
-Manufacturer date: 2012

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

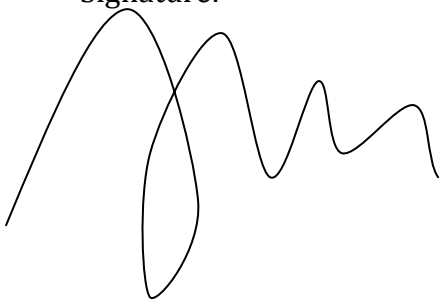
EN 292-1. General Machine Safety.
EN 292-2. General Machine Safety.
EN 60204-1 General Machine Safety. Electrical specifications.
EN 418. Emergency Device Specifications.
EN 294. General Safety. Higher Members.

Inspired by the directives of the Official Journal of the European Communities:
89/392/EEC General Machine Safety Directive.
73/23/EEC Low Voltage Directive.
89/336/EEC Electromagnetic Compatibility Directive.

Authorised by: Eduardo Ramos Martínez

Date: 15-06-2012

Signature:



Avda. Sot de les Vernedes 8, 08396 Sant Cebrià de Vallalta (Barcelona) Spain
(+34) 937632525
info@ermengineering.com
www.ermengineering.com