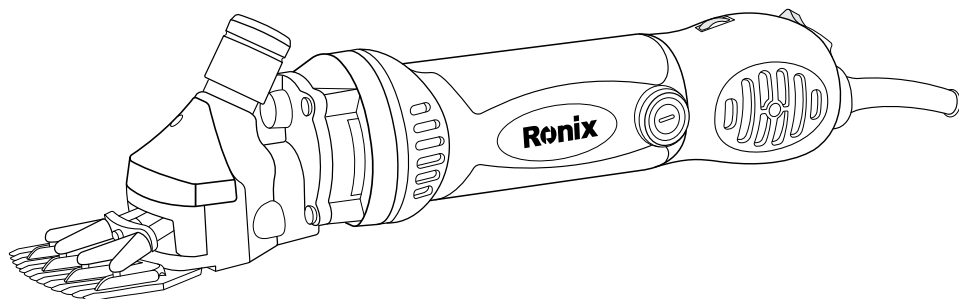


# Ronix<sup>®</sup>

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## SHEEP CLIPPER

### 4010



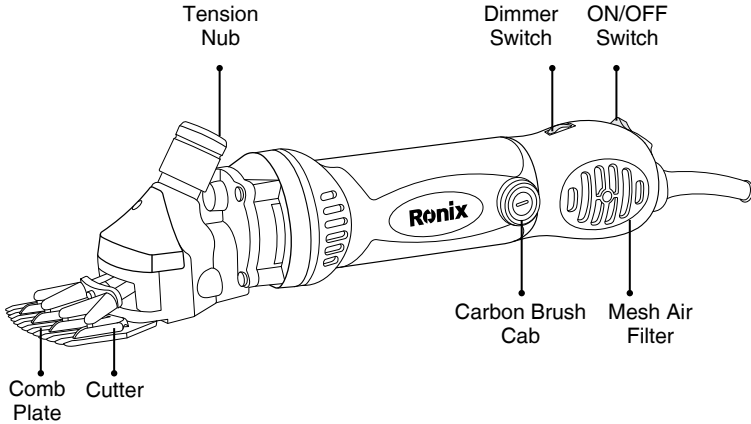
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## SPECIFICATIONS

Model	<b>4010</b>
Power	850W
Voltage	220-240V
Frequency	50-60Hz
Weight	1.88Kg
Blade Material	GCr15
Housing Material	Plastic
Motor Type	Excitation Motor
Maximum Cutting Capacity	76mm
Speed State Levels	1-6
Animal Categories	Sheep, Rabbit
Speed	0-2600RPM
Power Cable Length	2.9M
Supplied in	BMC
Includes	1pc brusher, 1pc wrench 1pc carbon brush 1pc Oil bottle, 1pc comb cover

## PART LIST



## INTENDED USE

- The shearing machine is intended exclusively for use on sheep and goats, as well as llamas alpacas, and other members of the camel family, its use can also be extended to cattle and horses by changing the shearing head.
- Other uses, in particular using the machine on people, are expressly prohibited.

## SAFETY REGULATIONS

### ■ INTRODUCTION

- This section describes the mandatory safety regulations which must be observed when using the shearing machine.
- All persons undertaking work on or with the machine have an obligation to read the operating instructions.
- The operating instructions must be kept safely in the storage case and accessible at all times.

- This appliance is not intended for use by persons(including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent, or a similarly qualified person to avoid a hazard.

 **WARNING!**

Keep the appliance dry.

## **SYMBOLS AND WARNING SIGNS**

Various symbols are used in the operating instructions. They refer to potential dangers or point to technical information, the non-observance of which will lead to personal injury, damage to objects or inefficient operation.

 **DANGER SYMBOLS**

 **WARNING!**

Indicates a potentially dangerous situation. If preventive action is not taken, death or very serious injury could result.

 **CAUTION**

Indicates a potentially dangerous situation. If preventive action is not taken, the consequences could be slight or minor injuries.

## INFORMATION SYMBOLS



### NOTE

Note, non-compliance can lead to operating malfunctions or damage.



### PICTORIAL NOTE

This symbol, together with its number, refers to the relevant at the end of the instructions.

## PROPER USE

- The use for which the machine is intended is described in Section 1.2.



### THE FOLLOWING APPLIES TO SAFE OPERATION

The details in Section 1.3, "Technical Data", count as mandatory operating limits and ratings.

Shearing other animals, in particular dangerous animals such as beasts of prey and the like, counts as misuse. This could lead to circumstances dangerous to life and limb.

The appliance is not intended for use by young children or infirm persons. If used with a cord extension device or portable outlet device, ensure such devices are positioned so as not to be subjected to splashing or ingress of moisture.

## SAFETY PRINCIPLES



### POWER CONNECTIONS

- Only insert the plug into undamaged sockets. Defective installations can cause an electrical shock or a short circuit. Outside sockets must be equipped with a fault current breaker (F1).

Observe the relevant national regulations.

Cleaning and servicing should only be done with the mains plug pulled out.

- Never let a machine with its cable plugged in, lie around unsupervised.  
Keep children away from the working area and store the machine out of their reach.

## **SERVICING AND CHECKING REQUIREMENT**

Only operate the shearing machine if it is undamaged and in proper condition. Any defects to the housing or the electrical cable should be rectified by a repair or service agent.



### **NOISE EMISSION/PERSONAL PROTECTIVE EQUIPMENT WEAR EAR PROTECTORS!**

Typical sound emissions when working are 93dB(A). We recommend that ear protectors should always be worn when working.



### **WEAR PROTECTIVE GOGGLES AND GLOVES**

- For your protection, we recommend that you wear protective goggles and gloves.

- Personal protective equipment is to be provided by the operator.

## **OTHER DANGERS**

Should evidence of dangers or potential dangers, not directly related to the shearing of animals, occur during operation, we would ask you to inform us. This also applies to dangerous technical deficiencies.

### **■ ESSENTIAL OPERATOR SKILLS**

- Operating the machine safely makes only small demands on the operator. However, it is essential that they are observed and carried out.

- The operator must be experienced in handling the animals to be shorn.
- The operator must have read and understood the instructions or have been instructed by an expert in the machine's use and have had the potential dangers explained.
- Children are not permitted to operate the equipment.

## **PUTTING INTO OPERATION**

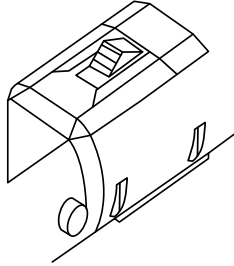


### **CONTROLS AND OPERATING NOTES**

- There are dangers inherent in the improper use of electrical equipment, especially stockbreeding equipment! -Before taking the machine into use, you should observe the following accident-prevention measures: The mains voltage must be the same as that shown on the nameplate. The machine may only be connected to an AC supply.
- Avoid all contact with the moving shearing blades.
- Even when the machine is switched off, do not handle the area of the shearing blades as long as the machine is connected to a power source. Always disconnect the power supply before working on the shearing blades/shearing head.
- Avoid touching any machine which is in contact with liquids. Never shear wet animals. Any liquid which has got into the machine will lower the electrical insulation.
- There is then the danger of an electric shock or short circuit. Only clean the machine when dry using a brush or the cleaning brush provided.
- An electric cable lying loose on the ground for any distance can snag and become a source of danger. Before starting to shear, lay the cable out carefully and safely. Avoid any kinks in the power cable and prevent it from becoming entangled. Animals must not stand on or walk across the power cable or get caught in it. Never wrap the power cable around the machine and keep it away from hot surfaces and objects. This may result in breaks and damage to the insulation. The cable should be regularly checked for damage.



- Switch the machine to OFF before pulling out the plug.



- Only use original shearing blades. Do not use damaged shearing blades with blunt, missing, or broken-off teeth. Only work using sharp shearing blades, ground in a specialist workshop.
- Look out for foreign bodies wire, wood, etc. in the fleece and remove them before beginning to shear.
- Wear suitable work close-fitting and loose-fitting clothing or items of jewelry that could get caught up in moving machine parts. We would recommend in the strongest terms that protective goggles and ear protectors are worn.
- Never insert any object into any of the machine's apertures.
- Noise from the machine can worry animals. Considerable injury can be caused as a result of being kicked by an animal or being crushed by its body weight. Tether the animal securely, app, roach it from in front, and switch the animals within the animals' range of vision.
- Animals should only be shorn when unauthorized persons have been excluded from the shearing area.
- Only shear in well-ventilated spaces(dust)and never near objects or gases likely to explode.

**⚠** These safety notes must be complied with in all cases. It is recommended that a fault current safety plug always be used when working with electrical equipment.

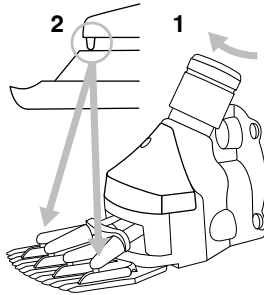
## SHEARING ADJUSTMENT USING THE TENSION NUT

Before putting it into operation, make adjustments as follows:

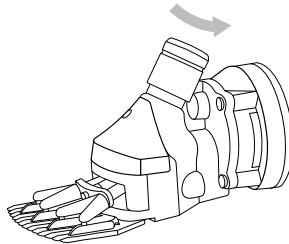
### BEFORE SHEARING:

- With the machine switched off: ensure that the pressure yoke's carrier cone pins mesh precisely into the positioning holes in the cutter (item 2).

Tighten the tension nut until resistance is first noticeable (item 1). Then tighten the tension nut a further ¼ turn



- Start operating the shearing machine. Slacken off the tension nut until the shearing blades exert almost no more contact pressure noise level rises.



### **⚠ CAUTION!**

If the tension nut is slackened off too much, the cutter can fly causing injury. Now tighten the tension nut slowly until the noise level becomes

muffled and some resistance is detectable as you tighten the tension nut. The pressure should now be correctly set. Begin shearing. If it still does not cut properly you will have to add a little more tension.



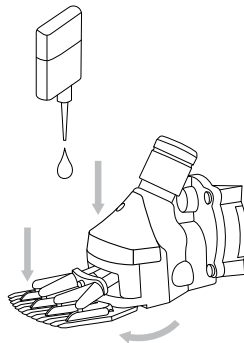
## DURING SHEARING

- The shearing system works with much less pressure having to be applied than with traditional sheep shearing machines. Care should be taken.
- Therefore, to ensure that the blade tension is not set too high. Slightly adjust the blade tension from time to time during shearing (max. 1/4 turn).
- Hair may collect between the shear blades if the tension nut is insufficiently tightened at the start of shearing. This will hurt further shearing progress or make it quite impossible.
- If this happens, the shear blades must be disassembled, cleaned, oiled, and re-fitted as described in 4.2.

## LUBRICATION

### BEFORE AND DURING SHEARING

- A thin layer of oil on the cutter and the comb plate is essential for good shearing results and to increase the life of the machine and its shearing blades. All other moving parts in the shearing head must also be well-oiled. Place a few drops of oil on the shearing blades and pour some into the lubrication holes provided on the shearing head.



- Only use our special oil or a paraffin oil meeting the ISO VG 15 specification. This oil is non-toxic and produces no irritation on contact with the skin or the mucous membranes. This paraffin oil degrades to some 20% after 21 days (CEC-L-33-T-82).



Poor lubrication is the most frequent cause of unsatisfactory shearing resulting in inadequately oiled shearing blades will overheat leading to reduced blade life.

The shearing blades and shearing head must be adequately lubricated during shearing (at least every 15 minutes) so that they do not run dry.

## **SWITCHING ON/OFF**

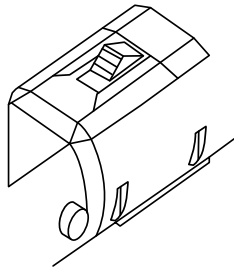
There are two positions on the slide switch

The position I: Machine switched on

The Position O: Machine switched off



Always use the slide switch when switching the machine on and off. Check the switch position before plugging in the cable.



## **MAJFUNCTIONS**

- For other malfunctions, see also the malfunction list in Section 5, Repairs.

### **⚠️ SERVICING**

- Before starting any servicing work, disconnect the power supply; pull the plug out.

- Even with the machine switched off, do not handle the area around the shearing blades as long as the machine is still connected to a power source. Whenever working on the shearing blades/shearing head, always first disconnect the power supply.

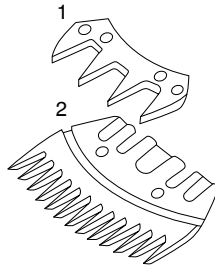
## **CLEANING**

### **■ CLEANING THE SHEARING HEAD AND SHEARING BLADES**

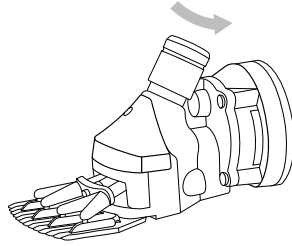
After shearing, remove all oil from the machine by rubbing it down with a dry cloth and carefully clean the shearing head and shearing blades with a dry brush. Then oil the parts to prevent rusting. Even the smallest rust spots on the blades can adversely affect shearing or make it completely impossible.

## **FITTING THE SHEARING BLADE**

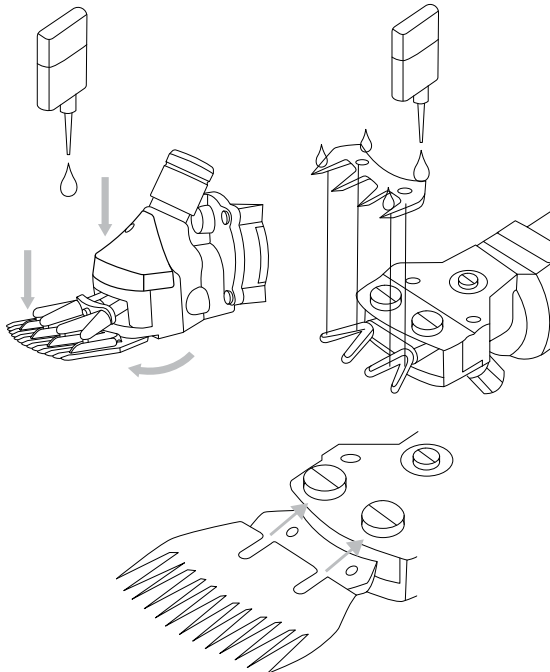
- A pair of shearing blades consist of a comb plate (item 2) and on cutter (item 1). When fitting the blades care should be taken to ensure that the correct surfaces come to rest against each other. The blades are fitted as follows.



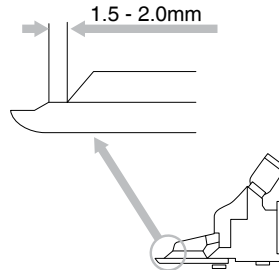
- Loosen the tension nut and place the machine on a hard surface so that the blade fixing screws lie uppermost. Slacken off the screws and remove both the old shearing blades.



- Ensure that the new shearing blades are clean. Particular care should be taken to ensure that the ground surfaces are free of dirt; if not, even newly ground shearing blades will not shear satisfactorily.
- Place the new cutter in the pressure yoke's carrier cones Z and push the new comb plate between the loosened screws. Now lighten the blade fixing screws until you can just move the new comb plate sideways by hand.



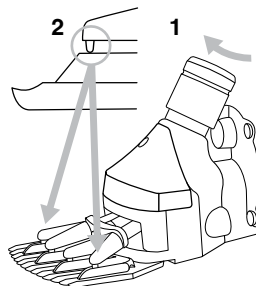
- Now turn the machine over so that the tension nut is again uppermost.
- What is now important is that you rest the blades against each other in such a way that the ground surface of the comb plate projects approx. 1.5-2.0 mm beyond the tips of the upper blade.
- Once you have adjusted the shearing blades, set the position of the comb plate and tighten up the blade fixing screws.



- Check that the shearing blades have been correctly fitted and that the pressure yoke's carrier cones (item 2) are situated in the holes provided in the cutter. Now tighten up the tension nut until the cutter is pressed against the comb plate and you can feel a slight resistance.

## RE-SHARPENING THE SHEARING BLADES

Only work with sharp shearing blades. Replace blunt blades or those with missing teeth. Proper re-sharpening can only be done with a special machine and by a trained technician contactable through your service center.



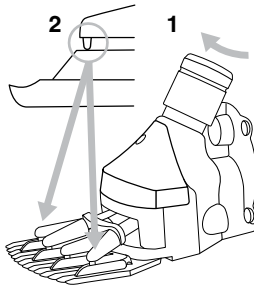
## CLEANING THE MESH AIR FILTER

The air filter element is found on the underside of the motor section of the machine. The air filter element can be removed from the machine for cleaning. Regularly cleaning the element with a dry brush is essential, when cleaning the air filter, take care that no foreign bodies get into the machine.

The machine must never be operated without the air filter element!

## CLEANING THE SHEARING HEAD (OPTION)

To change the shearing head from "Sheep" to "Cattle" or vice-versa, loosen both head screws. Remove one head and fit the other. Retighten both screws.



## ⚠️ STORING THE SHEARING MACHINE

Only store the shearing machine in a dry place and the case supplied. Do not switch on the machine if you suspect any liquid has got into it. There is then a risk of an electric shock or short circuit. Hand the shearing machine into a service center.

Make it a habit to store the machine between use, store it well-cleaned, oiled and with tension slackened off, in its storage case, in a clean, dry place, out of the reach of children.



## REPAIRS

### ■ INTRODUCTION

- Actions to be taken to rectify malfunctions are indicated in the “Rectification” column of the malfunction lists. Those rectification notes printed on a dark background may only be carried out by an authorized service center.

- Details of authorized service centers are to be found at the end of the “Contact Addresses” section.



### MALFUNCTION LISTS

Contact an authorized service center in the event of malfunctions not contained in these instructions.

## SHEEP SHEARING HEAD

MALFUNCTION	CAUSE	RECTIFICATION
	The tension link is broken.	Have the tension link replaced.
The cutter does not move across its whole running surface.	Crank spindle and/or crank roller and/or swiveling fork worn out.	Have the crank spindle and/or crank roller and/or swiveling fork replaced.
	The bearings are badly worn.	Have bearings replaced.

The cutter does not move.	Faulty cogwheel, Z30 black.	Replace cogwheel.
	Faulty reduction gear in the motor section.	Have the reduction gear replaced.
	The crank spindle broke or bent.	Have the crank spindle replaced.
	The crank roller missing.	Have the crank roller replaced.
The tension nut slackens off by itself.	The tension lock spring missing.	Replace the tension lock spring and fit it so that the tension nut turns easily to tighten but drags in an off direction.
	Loose lid bush.	Use 'Loctite' or a similar adhesive product to glue the lid bush.
Sufficient pressure cannot be applied to the cutter.	The tension link is broken.	Have the tension spring replaced.
	The sliding sleeve missing.	Replace the sliding sleeve.
	The sliding sleeve is worn down.	Replace the sliding sleeve.
	Swiveling fork is worn down on top.	Have swiveling fork replaced.
Pressure yokes fall out.	Pressure yokes are worn down.	Have pressure yokes been replaced.
	Securing lugs on tension link spring.	Have the tension link spring replaced

Poor cutting	Comb and cutter blades are blunt.	Have re-sharpened with approx. 20µm negative crown.
	The shearing blade tension is too low.	Increase pressure by tightening the tension nut.
	The blades were not properly sharpened.	Have re-sharpened with approx.20µm negative crown.

## SHEEP SHEARING HEAD

MALFUNCTION	CAUSE	RECTIFICATION
Does not cut.	The comb plate was wrongly fitted.	Readjust the upper blade 1.5 mm backward in relation to the comb plate.
	Crank roller missing.	-
	Cogwheel and/or reducing	Replace cogwheel.
Shearing head gets very hot.	Shearing head wore out.	-
	The shearing tension is too high.	Reduce shearing tension and have blades re-sharpened if necessary.
	No lubricant film on the crank roller.	Oil and roller
	No grease on the sliding sleeve.	Grease sliding sleeve.
	Bearings are worn out.	-

## MOTOR SECTION

MALFUNCTION	CAUSE	RECTIFICATION
The motor does not run.	No power	Check lead and fuse.
	Faulty cable	Have it checked and changed by a service center.
	Faulty switch or motor.	Have it repaired by the service center.
	The overload protection switch tripped out.	Push in.
The motor runs very slowly.	Carbon brushes are worn down.	Have carbon brushes replaced by the service center.
	The rotor or stator is defective.	Have the rotor and /or / stator replaced.
The motor section gets warm.	The air filter is blocked; air can no longer circulate.	Remove the air filter and clean it with a brush or replace the filter.
	The shearing tension is too high.	Do not tighten the pressure the shearing pressure adjustment head so much. If the blades still do not cut, they should be re-sharpened or replaced.
	Faulty bearings (cleaning fluid has damaged bearings).	Have bearings replaced.
The motor section whistles loudly.	Reducing gear and shafts have no lubricant	Have reducing gear and shaft lubricated.
Motor vibrates.	Rotor runs untrue (caused by a sharp knock).	Have the rotor replaced.
	Bearings are worn out.	Have bearings replaced.

 **NOTE**

REAL PRODUCTS MAY VARY FROM THE INSTRUCTION BOOK WITHOUT NOTIFICATION DUE TO CONTINUOUS RESEARCH.



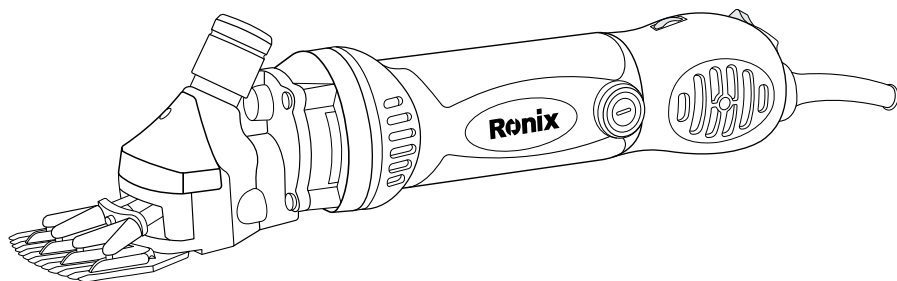


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## **SHEEP CLIPPER**

### **4010**



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