

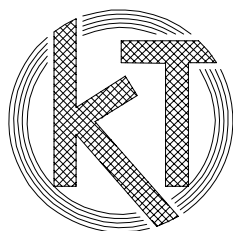
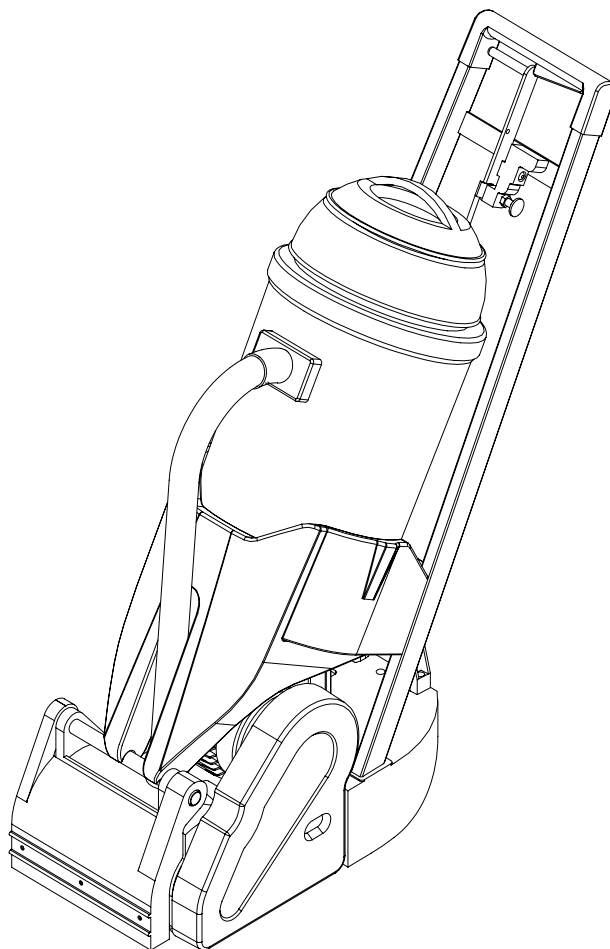
# Arlequin

## USE AND MAINTENANCE HANDBOOK FOR MACHINE ARLEQUIN

This handbook contains important information regarding the safe use and operation of this machine. Without reading this handbook before first time use, adjustment or maintenance may produce damages to the machine and/or personal injury. The user should be on familiar terms with the machine and its operation before using it. Keep this handbook for future reference. Should you need other handbooks, please write to:

**Künzle & Tasin S.P.A.**

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**KÜNZLE & TASIN**  
*Smerigliatrici e levigatrici dal 1946*

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## LISTED SYMBOLS

	<p><b>READ THE INSTRUCTIONS IN THIS HANDBOOK BEFORE USING THE MACHINE</b></p>
	<p><b>NOISE HAZARD – USE EAR PROTECTORS</b></p>
	<p><b>BREATHING HAZARD - USE PROTECTIVE MASK</b></p>
	<p><b>ELECTRICAL SHOCK HAZARD</b></p>
	<p><b>DANGER MOVING PARTS</b></p>

<b>DANGER:</b>	means	The operator or other person may be seriously injured or die if the <b>DANGER</b> warnings found on this machine or in this manual are ignored or not kept to. Read and comply with all the <b>DANGER</b> warnings found on this machine or in this manual.
<b>WARNING:</b>	means	The operator or other persons may be injured if the <b>WARNINGS</b> found on this machine or in this manual are ignored or not kept to. Read and comply with all the <b>WARNINGS</b> found on this machine or in this manual.
<b>CAUTION:</b>	means	The operator or other persons may be hurt if the <b>CAUTION</b> warnings found on this machine or in this manual are ignored or not kept to. Read and comply with all the <b>CAUTION</b> warnings found on this machine or in this manual

## STORAGE

We recommend storing the machine without removing it from its original packaging to allow up to a maximum of two packages to be stacked one on the top of the other.

If the machine is removed from its original packaging and not used for long periods the wheels and the drum must be raised from the ground. Set the machine on two blocks at least 50 cm high, making sure the base is supported by them.

Store the machine in a dry place. Storage in damp conditions will result in damage to the machine.

Storage temperature: -20°C to 50°C

## TRANSPORT AND HANDLING OF THE MACHINE

**WARNING:** Since the machine is heavy, remove the motor before transport. Ask for help lifting the machine and motor

### TRANSPORT BY ONE PERSON (See pictures 1 and 2 page 17)

In order to make the transport easier, the machine can be dismantled in many parts:

- handle
- suction set
- tank - basket (this can be left with the grip)
- base with drum and motor

by proceeding in this way:

1. Ensure that the mains cable coming out of the vacuum unit is disconnected from the electric wires, the motor cable from the plug placed on the head of the suction set and the cable interconnecting the grip and the motor from the plug placed on one side of the motor – box.
2. Detach the flexible pipe from the pipe union placed on the vacuum unit tank.
3. Lift the vacuum unit and move it from its slot.
4. Loosen the screwed knob placed on the vacuum unit tank.
5. Detach the tank – basket from the grip.
6. After moving forward the lever lifting the drum, lift the bush and take off the rod from the joint.
7. Loosen the lobes handgrip.
8. Take off the grip from the seats by moving it slightly backwards and then by lifting it in vertical position.
9. Lift the base by seizing the drum guard handle in the front and the rear transport – handgrip.

### TRANSPORT BY TWO PERSONS (See pictures 1 and 2 page 17)

If there are two people moving the machine in several parts it is necessary to operate as explained before, until point 8, then proceed as follows:

1. One operator seizes the drum guard handle.
2. The other operator holds the rear carriage handle.

If two people want to transport the whole machine, proceed as follows:

1. One operator seizes the handle fitted on the drum's guard.
2. The other operator holds with both his hands the vertical rod of the handgrip.

## STARTING

### ASSEMBLING INSTRUCTIONS (AFTER THE TRANSPORT)

To reassemble the machine after the transport, proceed as follows:

1. Insert the grip in the two lateral slides and close the lobes handgrip.
2. Insert the rod in the joint, lower the bush and close everything.
3. Insert the tank - basket in the special seat of the grip and lock it with the screwed knob.
4. Insert the vacuum unit in the tank - basket.
5.
  - Connect the motor plug placed on the head of the vacuum unit.
  - Connect the cable interconnecting the grip and the motor with the tap placed on one side of the motor box.
6. Lift the drum with the lever hooking it to its seat.

**DANGER:** Use of the machine before it is completely assembled may cause injuries to people and/or damage to things. Do not use a machine, which is not completely assembled. Keep all fastenings closed. Adjust the machine according to the specifications.

### INSTRUCTIONS FOR ELECTRICAL CONNECTIONS

**CAUTION:** This machine only works with the voltage and frequency shown on the machine plate. Before connecting the cable to the power supply grid, make sure that the voltage and frequency available are correct.

**DANGER:** Exposing the machine to water or rain leads to a risk of electrocution. Keep the machine in a dry building.

**DANGER:** Incorrect mains connection of the machine leads to a risk of electrocution. In order to prevent possible electric shocks, always use a three-wire electric system connected to an electrical earth. For maximum protection against electric shocks, use a circuit protected with a differential earth fault interrupter.

**DANGER:** Tampering with the earth pin in any way may lead to electrocution. Do not cut, remove or break the earth pin. Do not try to insert a three-pin plug into a socket or connector, which does not have three holes. If the plug does not fit the socket, consult an authorized electrician.

**DANGER:** Using the machine with a damaged plug or power supply cable may lead to electrocution. If the cables or plugs are worn or damaged in any way, have them replaced by an electrician or authorized service staff.

**DANGER:** If the machine is used with cables with inadequate diameter and/or excessive length people and/or things can undergo serious damage.

**SINGLE PHASE MOTOR MACHINE 230 - 240V~ 50Hz**

For Europe, the power supply cable must be of the HAR approved type, namely HO5VV-3x2.5 mm<sup>2</sup>, and the plug must be of the 2P+T16A-250V approved type.

For non-European versions contact an authorised K&T dealer.

**INSTRUCTIONS FOR REMOVING THE SAWDUST PRODUCED DURING THE WORK**

The machine is equipped with a dust – suction system through filtering paper bag to be used and then thrown away placed inside the vacuum unit. Therefore, it is recommended:

**DANGER:** Dust created by sanding may spontaneously ignite and cause injury or damage. Dust from sanding must be dealt with a right way. Always empty the sanding dust into metal containers located outside the building.  
*Do not use the bag again!*

**DANGER:** *The dust of the sanding can naturally catch fire and cause lesions and damage. Substitute the paper bag periodically and every time you have finished using the machine. Never leave used bags containing lapping dust unattended. Do not empty the contents of the paper bag and do not throw it on a fire!*

**WARNING:** K & T suggests the substitution of the paper bag around every 15 m<sup>2</sup> of work. This limit has been established by way of experiment for sanding operations with abrasive paper Gr.36 and oak – floor; this value can undergo variations according to different terms of use, so it must be considered as an averaged indication. However, if the previous suggestion is observed, the effectiveness of the system will always be optimum.

## USER SAFETY RECOMMENDATIONS

### PERSONAL SAFETY

- WARNING:** Although the machine has been designed in such a way as to avoid the diffusion of the sanding dust in the air, it can't be excluded that this event takes place; so it could happen that the user breaths the dust while using the machine. Therefore, always use a dust – mask when the sanding - equipment is working.
- WARNING:** The eyes and/or body may be injured if protective clothing or equipment are not worn. Always wear safety glasses, protective clothing and a dust mask during any sanding operation.
- WARNING:** During sanding operations, loud noises may occur which may damage hearing after long exposure. Always use acoustic protection during any sanding operation.

### COMPLIANCE WITH SAFETY STANDARDS

- DANGER:** Use of the machine before it is completely assembled may cause injuries to people and/or damage to things. Do not use a machine which is not completely assembled. Keep all fastenings closed. Adjust the machine according to the specifications.
- DANGER:** Injury or damage may be caused by using the sander without its guards and covers in place. Always make sure that all guards and covers are in their places and well attached.
- DANGER:** Sanding wooden floors may lead to an explosive environment. Cigarettes, cigars, pipes, lighters, pilot lights and all other sources of fire may cause an explosion if they are used while sanding. Sources of fire must be completely removed from the work area.
- DANGER:** Poorly ventilated work areas may lead to an explosive environment when certain combustible materials are present in the air, such as, for example, solvents, thinners, alcohols, fuels, some paints, sawdust and other combustible materials. Machines for sanding floors can cause combustible materials and vapours to ignite. Read the manufacturers' instructions on each chemical product used in order to decide whether it is combustible. Keep the work area well ventilated.
- DANGER:** Knocking against nails while sanding may cause explosion or start a fire. Always sink all nails completely before sanding the surfaces.
- DANGER:** If the power supply circuit trips continuously or it provides insufficient power, there is a risk of electrocution. Have an authorized electrician check the fuses, protection circuit and power supply line.
- DANGER:** Maintenance or repairs carried out on a machine which is not duly disconnected from the power supply line may cause electrocution. Disconnect the power line before carrying out any maintenance work and/or repairs.
- DANGER:** Use of this machine connected to a grid without earth may cause electrocution. Never disconnect or disable the power supply earth conductor. Consult an electrician if the earth conductor is missing or if you suspect that the system is not suitably earthed.
- DANGER:** Use of this machine with a damaged power supply cable may cause electric shock. Do not use the machine if the power supply cable is damaged. Do not use the power supply cable for moving the machine.

- DANGER:** Injury or electrocution may occur if the machine passes over the power supply cable or damages it. Keep the cable away from the lower part of the machine in order to avoid contact with the abrasive. Keep the power supply cable up over the machine.
- DANGER:** The moving parts of this machine may cause serious injury and/or damage. Keep hands, feet and loose clothing away from the moving parts of the sander.
- DANGER:** Carrying out maintenance operations, replacing or adjusting belts, or replacing the dust bag may cause injury to the operator and/or surrounding people if the machine is connected to the power supply.
- WARNING:** Serious injury or damage may occur if all the instructions on this machine or in this manual are not read and complied with. Read and abide by all safety instructions. Make sure that all the plates, transfer printings, warnings, cautions and instructions are fixed to the machine. New plates may be had from your authorized K&T retailer.
- CAUTION:** Injury or damage may occur if maintenance and repairs are carried out by unauthorized staff.
- CAUTION:** Damage may be caused to the machine if it is not kept in a dry building when not in use. Store the machine in a dry building.

## INSTRUCTIONS FOR THE CORRECT USE OF THE MACHINE

The appliance is suitable for commercial use, for example in hotels, schools, hospitals, offices, factories and shops.

The following information highlights potentially dangerous conditions for the operator and/or machine. Read this manual carefully in order to become familiar with the machine. Learn to know when these conditions may occur. Set all the safety devices on the machine. Take all necessary measures in order to train the staff who will use the machine. Immediately report damage to the machine or incorrect operation.

1. Keep hands and clothing away from moving parts.
2. Do not use the machine with drive belt guards or sanding belt covers open.
3. Always start the machine with the paper bag assembled correctly.
4. Do not detach the paper bag when the motor is working.
5. Always disconnect the machine from the mains before carrying out maintenance.
6. Given the weight of individual machine components, always use caution during transport.
7. Use the machine only in well ventilated areas
8. Always arrange the used paper bags in the correct way.
9. Always use the sanding belts provided with the machine or of the type specified in the handbook.
10. Use the sander indoors.

**ATTENTION!** During the operations of replacement of the abrasive belt always disconnect the mains cable from the socket and not the cable interconnecting the handle and the motor. The non – observance of this warning may cause the start of the machine and as a consequence that of the drum with risks of hands – lesions.

**MACHINE SPECIFICATIONS**

ABRASIVE SIZE FOR THE DRUM: ARLEQUIN EXPANSION ARLEQUIN CLASSIC ARLEQUIN RENT	200 x 480 mm RING SHAPED 200 x 550 mm 200 x 470 mm
DRUM WIDTH: ARLEQUIN EXPANSION / CLASSIC ARLEQUIN RENT	200 mm 203 mm
DRUM DIAMETER: ARLEQUIN EXPANSION / CLASSIC ARLEQUIN RENT	151 mm 147 mm
DRUM SPEED: ARLEQUIN EXPANSION ARLEQUIN CLASSIC/RENT	3000 revolutions/min 2500 revolutions/min
MOTOR	230-240V ~ 50 Hz 1,3 kW
VACUUM UNIT	230-240V ~ 50 Hz 1,2 kW Air flow = 170 m <sup>3</sup> /h Tank volume = 33 l
STARTING - BUTTON	MANOEUVRABLE BY THE HANDGRIPS
CONTROL OF THE WHEELS LEVEL	ADJUSTABLE BY THE SCREW PLACED ON THE BASE
MOTOR SAFETY PROTECTIONS	BY KEY WARNING "PRESENCE OF MAN". RELEASING THIS KEY THE MOTOR STOPS.
WHEELS	Ø 80 mm REPLACEABLE
BEARINGS	RADIAL BALL BEARINGS LIFE LUBRICATED
ADJUSTMENT OF THE PRESSURE ON THE DRUM	TWO - POSITION ADJUSTMENT BY HANDGRIP
NOISINESS (constant level of the acoustic pressure calculated A measured at a distance of 0,4 m from the handgrips and at a height of 1,5 m from the ground)	80 dB(A) max
VIBRATIONS (calculated mean value of the quadratic deviation)	≤ 1,45 m/s <sup>2</sup>
MACHINE SIZE	320 x 870 x 950 mm
NET WEIGHT	43 kg
PACKAGING SIZE	1 box 380 x 800 x 1200
GROSS WEIGHT	56 kg
STANDARD EQUIPMENT	50 PAPER BAGS, VACUUM KIT (extension "flex" for edger, pipe + plate for vacuum cleaners), operating keys, operating and maintenance instructions.

## USER INSTRUCTIONS

### INCORRECT USES

- CAUTION:** Using the machine to push other objects or an incline may result in damage and/or personal injury. The machine must be used exclusively to sand dry wooden floors that are flat or with a maximum incline of 2%. Do not use the machine to sand steps or furniture. Do not ride the machine.
- CAUTION:** Allowing the machine to remain stationary in one point with the drum running will result in serious damage to the floor being sanded. Do not pause when raising or lowering the drum but always advance at a constant speed.

## STARTING THE MACHINE

### Working as sanding machine

To start the machine proceed as follows:

1. Get to know the machine and read all instructions regarding potential dangers, warnings and precautions. Make sure that all users have read this handbook.
2. Arrange the paper bag that sucks up the dust in the tank after removing the head of the vacuum unit; subsequently position the head again, by hooking it to the tank through the suitable fixing – hooks.
3. Locate the mains supply. The socket must be compatible with the plug. To prevent electrical hazards the socket must be earthed and fitted with a 20A fuse.
4. Keep the mains cable out of the machine working area.
5. Rotate upwards the belt protection.
6. Assemble the abrasive following the “procedures for the assembly of the abrasive” according to the kind of drum installed on the machine.
7. Make sure that the lever is engaged and the drum raised from the floor.
8. Close the belt - protection.
9. Ensure that the motor cable is connected to the tap placed on the head of the vacuum unit and that the cable interconnecting the grip and the motor is connected to the tap placed on one side of the motor box.
10. Connect the mains plug.
11. By using the selector (placed on the head of the vacuum unit) in the position II it is possible to select the working as floor sanding.
12. Release the lever for the drum lifting by pulling laterally the red knob placed on the opposite side of the same lever and press the starting button: the motor starts. Bring progressively the drum near to the floor by moving forward the lever for the drum lifting.  
*CAUTION: The sudden release of the lever for the drum lifting can cause exceedingly deep grooves on the work surface, hardly removable with the following sanding operations.*
13. In order to stop the machine release the starting button and, successively, hook the lever for the drum lifting.

**Working as vacuum cleaner**

From point 1 to point 4 follow the previous procedure.

5. Disconnect the flexible pipe of the machine from the pipe union of the tank.
6. Assemble the vacuum kit by inserting the flexible pipe in the pipe union of the tank and the brush in the rigid terminal of the same kit.
7. If the selector is in position I the machine works as a simple vacuum cleaner.

**Matched working with the machines NOVA or VIBRA**

From point 1 to point 4 follow the previous procedure.

5. Disconnect the flexible pipe of the machine from the pipe union of the tank.
6. Assemble the flexible pipe (which is part of the vacuum kit) by inserting one end (the plastic rigid joint) in the pipe union of the tank and the other end (the rubber joint) on the suction pipe of the machines NOVA or VIBRA.
7. Disconnect the motor cable from the tap placed on the head of the vacuum unit and insert in it the mains plug of the machine NOVA or VIBRA.
8. When the selector is placed in position II, press the starting button of the machine NOVA or VIBRA. The aspirator will start at the same time as the tool connected to it and it will stop about 8 seconds after the stalling of the machine NOVA or VIBRA, so as to make it possible to clear away perfectly also the dust left in the pipe.

*CAUTION: Although the amount of dust produced by the machine NOVA or VIBRA is substantially lesser than that produced during the working as floor sanding, it is highly recommended the periodical check of the paper bag and its substitution before its maximum filling.*

## ADJUSTMENT OF THE MACHINE

### DRUM PRESSURE ADJUSTMENT (see detail A)

In order to set the pressure of the drum on the floor, by operating on **T-shaped handwheel**, you have to proceed in this way:

1. Turn the handwheel so as to position it in the deeper slots: the pressure of the drum on the floor increases.
2. Turn the handwheel so as to position it in the less deep slots: the pressure of the drum on the floor decreases.

### ADJUSTMENT OF THE WHEELS (on a horizontal plane parallel to the axle of the drum) – see detail B

In order to regulate the position of the wheels you have to proceed as follows:

1. Loosen the **lock nut**
2. By turning the **adjust. screw clockwise** the extremity of the drum on the side of the belt guard **arises from the floor**.
3. By turning the **adjust. screw counter clockwise** the extremity of the drum on the side of the belt guard **lowers towards the floor**.
4. Once found the correct position of the drum, lock the **lock nut**.

## PROCEDURES FOR THE SETTING OF THE ABRASIVES

### ARLEQUIN EXPANSION (drum for expansion type)

Wrap the abrasive **pos. 2 (Fig. C)** on the drum **pos. 1**, making sure that the abrasive sticks out 1,5 mm from the drum itself.

**WARNING:** The abrasive is in the correct position when it sticks out 1,5 mm from the sanding drum



**WARNING!** Never start the machine without the sanding paper; it may cause the destruction of the drum.

### ARLEQUIN RENT (drum for rent type)

Loosen fixing screws **pos. 1 fig. D** of the paper pressing bar **pos. 2 fig. D** on the drum by means of the proper screwdriver. Do not remove screws and paper pressing bar from the drum. Insert one end of the abrasive **pos. 3 fig. D pos. 4 fig. D** under paper pressing bar. Centre the abrasive on the drum and tighten it eliminating all the wrinkles. Tighten paper pressing bar screws. If you have any doubt, loosen fixing screws of the paper pressing bar and repeat the routine.

**DANGER:** If you use abrasive which is damaged or not well tightened, it may torn while sanding and cause damages to the machine and to the floor

### **ARLEQUIN CLASSIC (drum for classic type)**

Abrasive has to be prepared in the dimensions indicated in **fig. E** and it has to be cut absolutely with the inclination which is showed in the picture. By means of the proper keys, turn the two tensioning shafts **pos. 1 e 2 fig. F** until the two flat sides of the tensioning shafts are face to face. Insert one abrasive edge for approx. 2/3 of the drum cut depth and turn the drum being careful that the abrasive sticks to the rubber; once you get to the cut, insert the other edge of the abrasive until it is uniformly stretched. Take the two edges out of the cut, uniformly, for approx. 5 mm., as shown in **fig. F**. Turn the tensioning shafts one opposite the other until you get the right and regular tensioning of the abrasive. In the end, the **P** planes of the shaft have to be approx. as indicated in **fig. G**.

In case the abrasive should not be uniformly tight, after carrying out the a.m. operations, please repeat the instructions adjusting the introduction of the abrasive until you get the correct and regular tensioning. The a.m. procedure is needed for setting of coarse grain abrasive (**20-24**). For medium and fine abrasive (**36-60-80 etc...**) it is necessary to put one or even more abrasive stripes between the two edges, which should be as large as the drum and of approx. 30 mm. of height, in order to compensate for the difference in thickness between the coarse and the medium/fine grain abrasive

**WARNING:** The abrasive is in the correct position when it protrudes from the sanding drum by about 1.5 mm.

**DANGER:** If you use abrasive which is damaged or not well tightened, it may tear while sanding and cause damages to the machine and to the floor

## **PERIODIC MAINTENANCE**

To keep the machine in good working order, the following items must be periodically checked and maintained:

### **VACUUM UNIT (for the user)**

Check periodically the condition of the fabric filter, by eliminating the residues with a slight shaking of the same filter. The continual and correct use of the paper bags, which are to be used once and then thrown away, prevents in any case every risk of stoppage of the filter.

### **DUST BAG (for the user)**

Remove the bag and replace it before it is completely full. Do not use the paper bag again but always substitute it with a new one.

### **DRUMS (for the user)**

Check periodically the external surface of the sanding drum. Remove any dirt.

### **WHEELS (for the user)**

Remove periodically any dirt from the machine body and wheels. Accumulated dirt, modifying wheels planarity, may cause undulations on the sanded surface.

## BELT TENSION (for the user) – see pic. H

Inspect the tension of the belt, every 500 hours of work, by removing the protection of the belt pos. 1, after taking off the screws pos. 2 (quantity 2) and loosening the screws for the motor fixing), pos 3 (quantity 4).

The regulation of the tension of the belt is carried out by the screw pos.4. After effecting the regulation, lock the fixing screws of the motor pos. 3 and assemble again the belts protections pos.1. If the belt is exceedingly worn out it must be replaced.

**PRECAUTION:** An excessive tension of the belt can cause a premature yielding of the ball – bearings.  
The belt must show a 10,5 mm buckling with a  $30 \pm 3$  N load in its middle.

## BEARINGS (FOR ASSISTANCE SERVICE ONLY)

Check periodically the bearings for wear or damage according to following schedule:

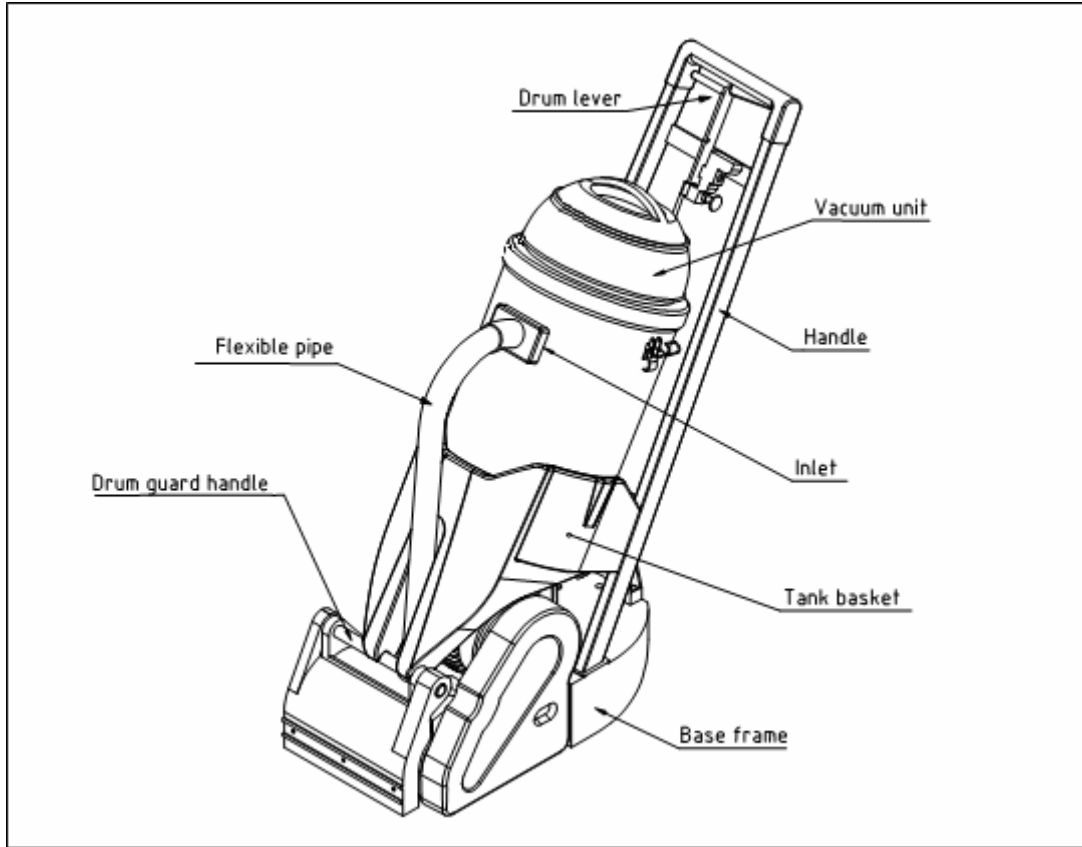
Wheels	after the first 2500 working hours
Sanding drum	after the first 2500 working hours
Motor shaft	after the first 2500 working hours

## SPARE PARTS

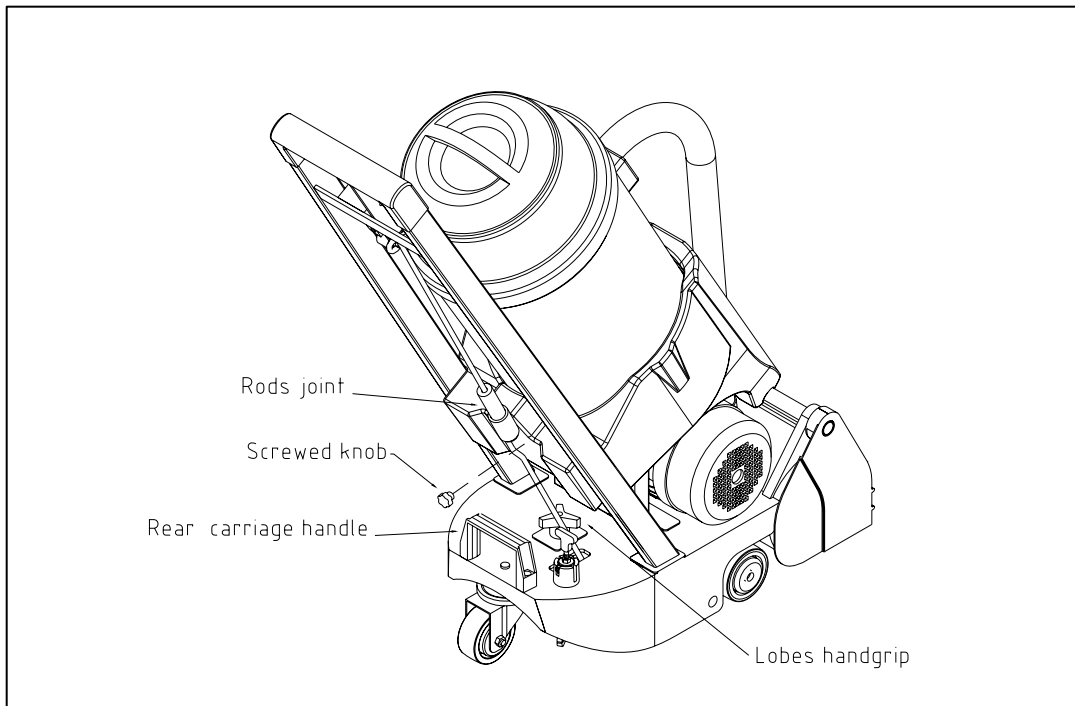
Always use original **K&T** spare parts. The guarantee and consequent responsibility are forfeited if non-original **K&T** spare parts are used, and if repairs and adjustments are carried out by unauthorized personnel.

### TROUBLESHOOTING (FOR THE USER)

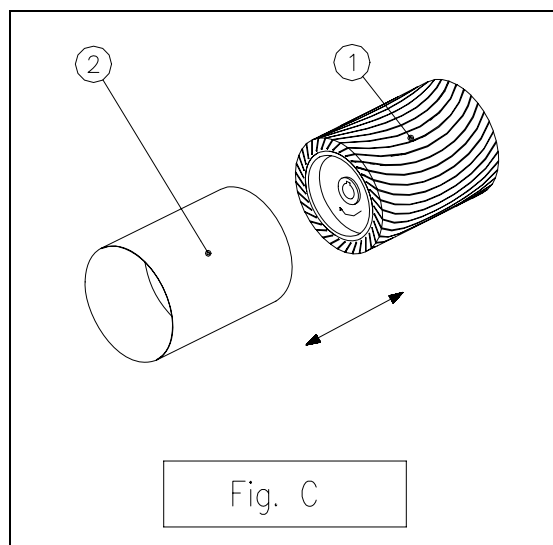
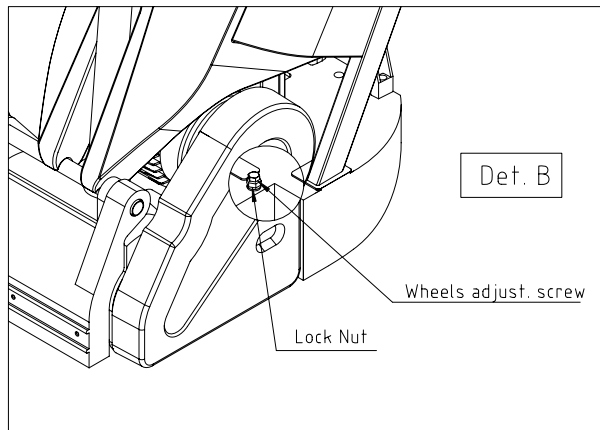
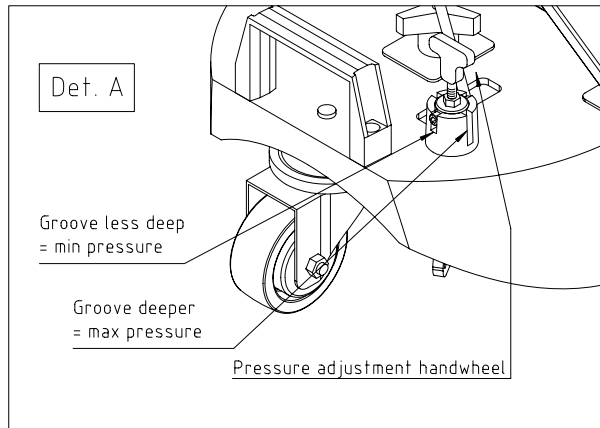
Insufficient cut	worn or unsuitable abrasive insufficient drum pressure insufficient belt tension worn belt	replace abrasive increase drum pressure, see pg. 13 increase belt tension, see pg. 15 replace belt
Insufficient motor speed	insufficient voltage due to: excessive length or unsuitable cable cross-section precarious connections faulty running capacitor faulty motor	use cable of suitable length and cross-section set up suitable connections contact an authorized K&T distributor contact an authorized K&T distributor
Grooved work surface	faulty abrasive dirty or faulty drum surface incorrect wheel adjustment	replace the belt clean or replace the rubber-coated drum correct their position, see pg. 13
Insufficient dust collection	Paper dust bag more than 2/3 full Dust suction conducts clogged Filter clogged	replace the paper bag clean the air conducts clean the filter
The motor does not start	faulty safety switch or contactor faulty start-up capacitor insufficient voltage due to precarious connections faulty motor no mains supply voltage	contact an authorized K&T distributor contact an authorized K&T distributor contact an authorized K&T distributor contact an authorized K&T distributor check the power supply and connections
Burns on the work surface	worn abrasive excessive drum pressure excessively fine abrasive	replace abrasive decrease drum pressure, see pg. 13 use a coarser abrasive



Picture 1



Picture 2



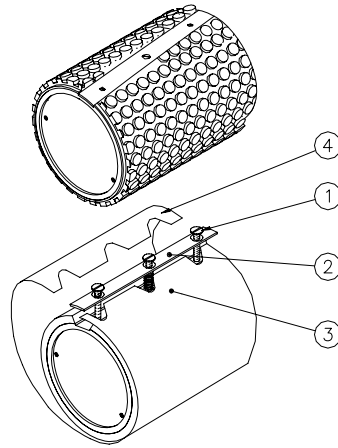


Fig. D

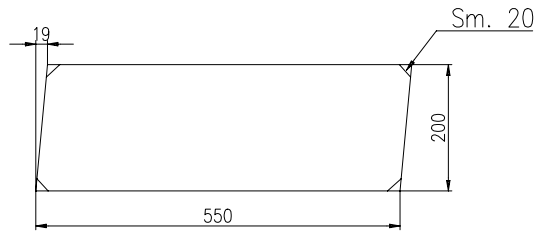


Fig. E

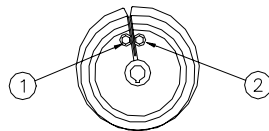


Fig. F

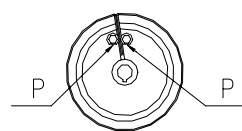
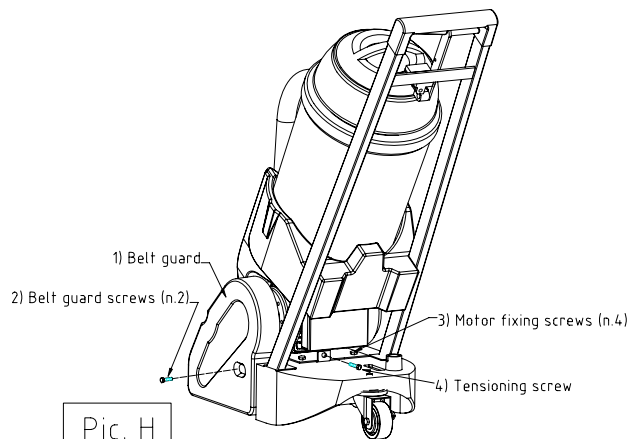


Fig. G



Pic. H

# DECLARATION OF CONFORMITY

**EC DECLARATION OF CONFORMITY**  
**73/23CEE, 98/37CEE, 89/336/CEE,**  
**92/31/CEE.**

**We**

**KÜNZLE & TASIN S.p.A.**  
Accounting office: Via C. Freguglia 4  
20122 Milano - Italy

**declare under our responsibility that the product**

**ARLEQUIN CLASSIC / RENT / EXPANSION DRUM SANDER**

**to which this declaration relates is in conformity with the following standards or other normative document(s):**

- Safety of machinery - Basic concepts, general principles for design  
Basic terminology, methodology EN 292 Part 1 (1991)
- Safety of machinery - Basic concepts, general principles for design  
Technical principles and specification EN 292 Part 2 (1991)
- Safety of machinery - Electrical equipment of machines  
Part 1 : General requirements EN 60204-1 (1997)
- Safety of household and electrical appliances - General requirements  
EN 60 335-1 (1994) + A12, A13, A14,
- Particular requirement for floor treatment and floor cleaning machine for industrial and  
commercial use – EN 60 335-2-67 (1998)
- Electromagnetic compatibility (EMC)
- Limits and methods of measurements of radio disturbance characteristics of electrical motor-  
operated and thermal appliances for households and similar purposes, electric tools and similar  
electric apparatus - EN 55014-1 (1993) + A1, A2
- Part 3: Limits. - Section 2: Limits for harmonic current emissions (equipment input current  $\leq 16$   
A per phase) - EN 61000-3-2 (1995) + A12, A1, A2, A14
- Part 3: Limits. - Section 11: Limitation of voltage fluctuations and flicker in low-voltage supply  
systems for equipment with rated current  $\geq 16$  A. EN 61000-3-11 (2000)

**following the provisions of the Directives:**  
**73/23CEE, 98/37/CEE, 89/336/CEE, CEE 92/31/CEE.**

\_\_\_\_\_  
(place and date of emission)

\_\_\_\_\_  
(signature)