

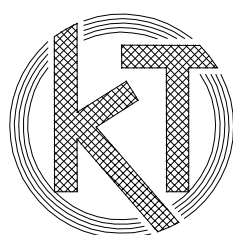
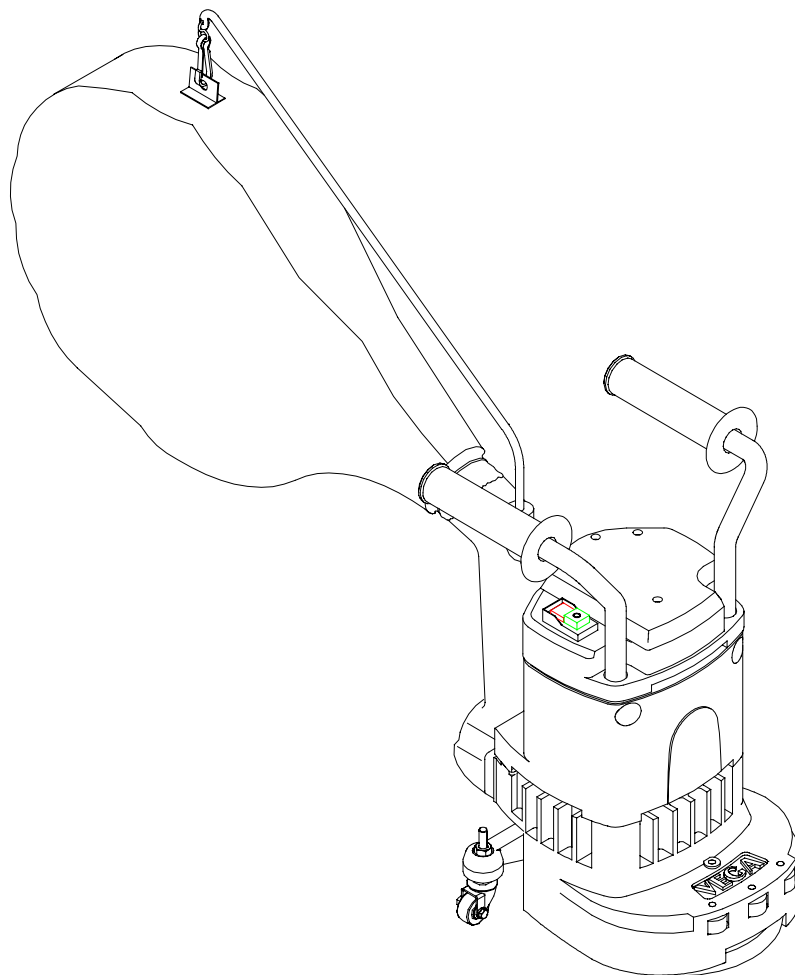


## USE AND MAINTENANCE HANDBOOK

**This handbook contains important regarding the safe use and operation of this machine. Failure to read this handbook before first time use, adjustment or maintenance may result in damage to the machine and/or personal injury. The user should be familiar with the machine and its operation before using it. Keep this handbook for future reference. Should you need other handbook, write to:**

**Künzle & Tasin S.p.A.**

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## CONTENTS

1.	Storage .....	14
2.	Transporting and handling of the machine .....	14
3.	Before starting .....	14
	<i>Electrical connections</i> .....	14
	<i>Main leads, extensions and plugs</i> .....	14
	<i>Instructions to remove the sawdust produced during work</i> .....	15
4.	User safety recommendations .....	15
	<i>Personal safety</i> .....	15
	<i>Compliance with safety standards</i> .....	15
	<i>Instructions for correct use</i> .....	16
5.	Machine specifications .....	17
6.	Instructions for use .....	18
	<i>Incorrect use</i> .....	18
7.	Starting the machine .....	18
8.	Adjusting the machine .....	18
	<i>Fitting the sanding disk</i> .....	18
	<i>Adjusting sanding disk floor angle</i> .....	19
	<i>Ergonomic handle adjustment</i> .....	19
9.	Periodic maintenance .....	19
	<i>Sanding box</i> .....	19
	<i>Plate</i> .....	19
	<i>Wheels</i> .....	19
	<i>Dust bag</i> .....	19
	<i>Graphite brushes</i> .....	19
	<i>Lubrication</i> .....	19
10.	Replacement parts .....	19
11.	Troubleshooting .....	20

# USE AND MAINTENANCE HANDBOOK

**Danger:** means Serious injury or death may result if users or others fail to observe the Danger signs on the machine or in this handbook. Read and respect all Danger signs on the machine or in the handbook.

**Warning:** means Injury may result if users or others fail to observe the WARNINGS on the machine or in this handbook. Read and respect all WARNINGS on the machine or in the handbook

**Caution:** means Damage may result if users or others fail to observe the Caution signs on the machine. Read and respect all Caution signs on the machine

## 1. STORAGE

We recommend storing the machine in its original packaging to allow up to a maximum of two packages to be stacked one on top of the other.

If the machine is removed from its original packaging and not used for long periods the wheels and disk 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 cause damage to the machine. Storage temperature -20°C to 50°C.

Store the machine in a dry, safe place, out of the reach of children.

## 2. TRANSPORTING AND HANDLING THE MACHINE

1. Check that the main lead is disconnected from the main supply and the machine.
2. Always transport the sander by the two handles with the bag support facing upwards. Protect the sanding disk with an abrasive pad and make sure the abrasive disk screw is well tightened. During transport by vehicle always check the sander is well secured and cannot move. Since the machine is heavy, take care when lifting or transporting it.

## 3. BEFORE STARTING

### ELECTRICAL CONNECTIONS

**Caution:** The machine is designed to operate exclusively at the voltage and frequency indicated on the machine information plate. Check that the power supply corresponds to these values before connecting the main lead.

**Warning:** Exposing the machine to water or rain constitutes a risk of electric shock. Use and store the machine in a dry place.

**Danger:** Incorrect connection to the main supply constitutes a risk of electric shock. To prevent electric shock always use a three pole main supply connected to a suitable electrical earth. For maximum shock protection use a main supply fitted with a differential cut-out switch.

**Danger:** Tampering in any way with the earth pin may cause electric shock. Do not cut, remove or break the earth wire. Do not try to fit a three-pin plug into anything other



than a three-pin socket. If the plug doesn't fit the socket, contact an authorised electrician.

**Danger:** Do not use the machine with a damaged plug or main lead. If leads or plugs are worn or damaged in any way, have them replaced by the manufacturer, a K&T authorised dealer or qualified personnel to minimise risk.

### **MAIN LEADS, EXTENSIONS AND PLUGS**

Maximum recommended main lead length 10 m. For lengths over 10 m use heavier cable section

**Warning:** Using main leads with inadequate section and/or of excessive length may result in damage and/or personal injury

**Warning:** Do not carry the machine by the cable and do not draw it to disconnect from the socket.

**Warning:** Keep the cable far from the heat source, oil and sharp corners.

Use only approved three-ply cable with live, neutral and earth.

For Europe the main lead must be HAR approved type HO5VV-3x1,5 mm<sup>2</sup> and the plug must be approved type SHUKO 2P+T 16A 200-250V.

**For non-European versions talk to an authorised K&T dealer**

### **INSTRUCTIONS TO REMOVE THE SAWDUST PRODUCED DURING WORK**

**Warning:** Sawdust is inflammable and may ignite spontaneously causing injury or damage. Sawdust must be correctly disposed of. Always empty sawdust into metal containers situated in the open air.

**Warning:** Sawdust is inflammable and may ignite spontaneously causing injury or damage. Empty the dust bag when it is 1/3 full. Empty the dust bag every time you finish using the machine. Do not abandon dust bags full of sawdust. Do not empty the contents of the dust bag over a fire.

## **4. USER SAFETY RECOMMENDATIONS**

### **PERSONAL SAFETY**

**Warning:** Sawdust may leak into the air and be breathed in when using the machine. Always wear a dust filter face mask when using the sander.

**Warning:** Failure to wear eye protection and protective clothing may result in injury while sanding. Always wear safety goggles, protective clothing and face mask when using the machine.

**Warning:** Long exposure to the high noise level produced by the machine in operation may cause ear damage. Always wear ear plugs when using the sander.

**Warning:** During sanding operations pay attention, always check what you are doing, use common sense. Do not use the machine when you are tired.

### **COMPLIANCE WITH SAFETY STANDARDS**

**Danger:** Using the machine if not fully assembled may result in damage and/or personal injury. Do not use the machine if incompletely assembled. Keep all guards closed. Maintain machine adjustment as specified

**Danger:** Damage or injury may result if the sander is used without guards and covers in place. Always check that all guards and covers are in place and well fastened.



- Danger:** Sanding wooden floors may generate an explosive environment. Cigarettes, cigars, lighters, pilot lights and any other naked light may trigger an explosion if used when sanding. Do not use naked lights in the working area.
- Danger:** Poorly ventilated working areas may generate an explosive environment in the presence of volatile materials such as solvents, alcohol, fuel, certain paints, sawdust and other flammable materials. Floor sanding machines can ignite flammable materials and fumes. Read the instructions on any chemical products used to determine their flammability. Keep the working area well ventilated.
- Danger:** Contact with nails when sanding may generate sparks and cause fire. Always flatten or remove all nails before sanding the floor.
- Danger:** Electric shock may result if the power supply cuts out repeatedly due to overload. Have fuses, overload cut-out and main circuit checked by an authorised electrician.
- Danger:** Electric shock may result if maintenance and/or repairs are carried out on the machine while it is connected to the main supply. Disconnect the mains before carrying out any form of maintenance and/or repairs.
- Danger:** Using the machine with an unearthed main supply may result in electric shock. Never disconnect or disable the earth circuit. Consult an electrician if no earth circuit is present or if the circuit is thought to be inadequately earthed.
- Danger:** Using the machine with a damaged main lead may result in electric shock. Do not use the machine if the main lead is damaged. Do not pull the machine by the main lead.
- Danger:** During sanding operations, keep childrens far away, prevent the visitors from touching the machine or the extension. The visitors must be keep far away from the working area.
- Danger:** Injury may result if the sander passes over the main lead or damages it. Keep the main lead away from the lower part of the machine to avoid contact with the abrasive. Always keep the main lead above the machine.
- Danger:** Moving parts may cause damage and/or serious injury. Keep hands, feet and loose clothing away from all moving parts of the sander.
- Danger:** Carrying out maintenance or emptying the dust bag may result in injury to the user and any others present if the machine is connected to the main supply.
- Warning:** Failure to follow all the instructions contained in this handbook may result in serious injury and/or damage. Read and observe all safety instructions. Check that all information plates, warning and cautions labels and instructions are present on the machine. For new plates contact your authorised K&T dealer.
- Caution:** Maintenance and repairs carried out by unauthorised persons may result in damage and/or personal injury.
- Caution:** Storing the machine in a damp environment will result in damage. Store the machine in a dry place.

#### **INSTRUCTIONS FOR CORRECT USE**

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

The information that follows highlights potentially hazardous conditions for the user and/or the machine itself. Read the handbook carefully to get to know the machine and recognise when such conditions may arise. Use all safety systems provided on the machine. Personnel must be trained before using the machine. Immediately report any damage to the machine or maloperation.

1. Keep hands and clothing away from moving parts.
2. Keep hands on the handle while the motor is running.

3. Do not abandon the machine with the motor running
4. Do not use the machine with the drive belt guard open.
5. Always use the machine with the dust bag correctly fitted.
6. Do not remove the dust bag with the motor running.
7. Always disconnect the machine from the mains before carrying out maintenance.
8. Always use caution during transport.
9. Only use the machine in well ventilated areas.
10. Always use the dust bag as instructed.
11. Always work in good lighting conditions. Do not use electrical appliances where there is a fire or explosion hazard
12. Using accessories or attachments other than those indicated in the handbook may result in personal injury.
13. The sander is designed for indoor use.

## **5. MACHINE SPECIFICATIONS**

Sanding disk size	Ø 175 mm
Disk diameter	Ø 175 mm
Disk speed	3000 min-1
Motor speed	11000 min-1
Motor	(A25) Europe (A26) UK (A23) USA (A24) USA 230V AC 50 Hz 1250 W 240V AC 50 Hz 1250 W 110V AC 60 Hz 1250 W 220V AC 60 Hz 1250 W
Handles	Height and rotation adjustable
Disk angle adjustment	Screw on wheel supports
Motor safety	After power failure the motor does not restart automatically
Bearings	Permanent lube radial ball
Noise (continuous weighted A sound pressure measured at 0.4 m from grip and 1.5 m from floor level)	87.5 dB(A)
Vibration (weighted value of root mean square acceleration)	$\leq 1.66 \text{ m/s}^2$
Machine dimensions	270 x 370 x 370 mm without bag
Net weight	15 kg
Package dimension	270 x 390 x 415 mm
Gross weight	17.5 kg
Standard equipment	Dust bag, mains lead with plug, spanner, use and maintenance handbook



## **6. INSTRUCTIONS FOR USE**

### **INCORRECT USE**

**Caution:** Using the machine to push other objects or on 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 roller running will result in serious damage to the floor being sanded. To prevent damage to the floor always approach the stopping point gently. Do not pause when raising or lowering the disk, but always advance at a constant speed.

## **7. STARTING THE 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 all users have read this handbook.
2. Bring the machine into the working area.
3. Fit the dust bag onto the suction pipe securing it to the flange with the wire provided.
4. Fit the abrasive disk as indicated in "FITTING THE SANDING DISK".

**Warning:** Use only 175 mm diameter sanding disks

5. Locate the main supply. The socket must be compatible with the plug. To prevent electric shock hazard the socket must be fitted with a 20 A fuse. Insert the plug in the socket.
6. Raise the disk so the machine is supported by its wheels.
7. Press the GREEN START BUTTON.
8. Keep the machine moving while the sanding disk is in contact with the floor.
9. To stop, raise the disk so the machine is resting on its wheels and press the RED STOP BUTTON.

**Warning:** This machine is fitted with a safety switch. In the event of power failure when working the switch automatically disables the machine to prevent accidental restart when power is restored. To resume sanding, repeat the starting instructions given above.

## **8. ADJUSTING THE MACHINE**

### **FITTING THE SANDING DISK**

1. Make sure the main lead is disconnected from the main supply.
2. Turn the machine over so the handles rest on the floor.
3. Remove screw Y (fig. 1 ) and the conical washer while locking plate P with pin A in the hole on the machine casing.
4. Check that the plate surface is clean and choose a sanding disk (diameter 175 mm ) of a suitable grade and with surface intact.
5. Fasten the sanding disk using screw Y (fig. 1 ) and the conical washer, locking plate P with pin A in the hole on the machine casing.

### **ADJUSTING SANDING DISK-FLOOR ANGLE**

The sanding plate P (fig. 1) is in the form of a wide truncated cone. For the plate to work flat its axis must be slightly inclined to the floor surface.

The angle is given by the position of the wheels mounted on support S, which slides along a guide and can be locked using knob M. The wheel mounting can be raised or lowered to the required position by loosening the knob.

### **ERGONOMIC HANDLE ADJUSTMENT**

To bring each handle to the most comfortable position, loosen screw V, raise or lower (max. travel 20 mm) and rotate (max. travel 360°) the handle until the desired position is found. Then tighten screw V.

## **9. PERIODIC MAINTENANCE**

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

### **SANDING CHAMBER** (users)

Periodically remove sawdust from the chamber to prevent build-up of potentially hazardous dust.

### **PLATE** (users)

Periodically check the plate surface. Remove any accumulated dirt.

### **WHEELS** (users)

Periodically remove any dirt from the machine housing and wheels. Accumulated dirt may cause undulations on the surface being sanded.

### **DUST BAG** (users)

Remove the dust bag and shake it vigorously to remove the collected sawdust. Turn the bag inside out and wash it in the wash machine in cold water to prevent pore blockage which decreases dust suction capacity.

### **GRAPHITE BRUSHES** (maintenance personnel only)

The motor has two graphite brushes that must be checked every six months or 500 working hours. To check the brushes proceed as follows:

1. Remove the four motor cover screws using the Allen key provided.
2. Remove the cable terminal screws from each brush.
3. Pull back the brush spring and extract the brush.
4. Check the brushes. If one of them is more than 12 mm shorter, replace both brushes.

**Warning:** When installing new brushes, check that the cables do not interfere with the rotor before replacing the cover.

### **LUBRICATION** (users)

The machine does not require lubrication. All moving parts, including motor components, are fitted with sealed bearings with lubrication for approx. 10,000 working hours.

## **10. REPLACEMENT PARTS**

Always use original K&T replacement parts. The guarantee and all consequent liability will be forfeited if non-original K&T parts are used or repairs are carried out by unauthorised persons.



## 11. TROUBLESHOOTING (USERS)

PROBLEM	CAUSE	REMEDY
Insufficient sanding depth	Abrasive worn or unsuitable	Replace abrasive disk
Motor speed too low	Insufficient voltage due to:	
	Excessive length or unsuitable section of power cables	Use cables of adequate length and section
	Poor connections	Use suitable plugs and sockets
	Motor defective	Contact an authorised K&T dealer
Working surface scored	Defective abrasive	Replace abrasive
	Plate surface soiled or defective	Clean plate surface or replace plate
	Incorrect wheel adjustment	Adjust wheels (see "Adjusting the wheels")
	Dust bag over 1/3 full	Empty bag
Insufficient dust suction	Dust bag soiled or with closed pores	Shake out dust and wash bag
	Blocked suction and/or delivery pipe	Clean air pipes
	Defective switch	Contact an authorised K&T dealer
	Insufficient voltage due to precarious connections	Contact an authorised K&T dealers
Motor does not start	Faulty motor	Contact an authorised K&T dealer
	No power	Check power supply and connection
	Abrasive worn	Replace abrasive
	Abrasive too fine	User coarser abrasive

## **DECLARATION OF CONFORMITY**

<p><b>EC DECLARATION OF CONFORMITY</b> <b>73/23CEE, 98/37CEE, 89/336/CEE,</b> <b>92/31/CEE.</b></p>
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**We**

**KUNZLE & TASIN S.P.A.**

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**declare under our responsibility that the product**

**VEGA EDGER**

**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)