EDGE SANDER FOR WOOD Vega



Operating and maintenance manual



This manual contains important information on the safe use and operation of this machine. Failure to read this manual before operating, adjusting or servicing this machine could cause injury or damage to persons or objects.

Anybody operating the machine should understand how to use and operate it before starting it up. Keep this manual for future reference.

This manual is an ENGLISH translation of the original version in Italian.



For a new manual contact: Kunzle & Tasin S.r.l.

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Motor Type 230 V - 50 Hz - 1.25 kW

115 V - 60 Hz - 1.25 kW 220 V - 60 Hz - 1.25 kW

Motor Speed 11000 rpm

Disc Speed 3000 rpm

Disc Size Ø 178 mm

Abrasive Disc Size Ø 178 mm

Handles height and rotation can be adjusted

Disc Tilt Control using wheel support screw

Safety Motor Protection If there is no power, motor does not start without human intervention

Bearings ball bearings

Noise Level (IEC 60704 -1)

(continuous weighted sound pressure level A,

measured at a distance of 0.4 m from the handle

and a height of 1.5 m from the ground)

87.5 dB(A) max

Vibration (ISO 5349)

(weighted value of the

mean square deviation of the acceleration)

 \leq 1,66 m/s 2

Machine Dimensions (L x H x W) 280 mm x 360 mm x 310 mm

Packaging Dimensions (L x H x W) 300 mm x 440 mm x 420 mm

(Cardboard packages)

Net Weight 15 kg

Gross Weight 21 kg

(Cardboard packages)

Standard Equipment Dust bag

Electric cable with plug

Start-up keys

Operating and maintenance manual

Machine Symbols Key



Read the instructions contained in this user and maintenance manual before using the machine.



Hearing protection during use is recommended.



Protection of the airways during use is recommended.



Hazard due to electricity.

Operator Safety



HAZARD means: Serious injury or death may occur to the operator or others if 'HAZARD' warnings on the machine or in this manual are ignored or not kept to. Read and follow all 'HAZARD' warnings on this machine or in this manual.



WARNING means: Injury may occur to the operator or others if 'WARNING' notices on the machine or in this manual are ignored or not kept to. Read and follow all 'WARNING' notices on this machine or in this manual.



CAUTION means: Damage may occur to the operator or others if 'CAUTION' alerts on the machine or in this manual are ignored or not kept to. Read and follow all 'CAUTION' alerts on this machine or in this manual.



Failure to read the Vega machine manual before operating, adjusting or performing maintenance operations on the machine could cause injury or damage to persons or objects.

Anyone operating the machine should understand how to use and operate it before starting it up.



KEEP AWAY FROM CHILDREN

Children should be supervised to ensure that they do not play with the appliance. This machine 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 received instructions regarding the use and are supervised by a person responsible for their safety.





Sanding may create an explosive environment. Cigarettes, cigars, pipes, lighters, pilot flames, or any other source of fire may create an explosion, if lit during sanding operations. All sources of ignition should be removed entirely from the work area.

Poorly ventilated work areas may create an explosive environment, when some combustible materials (solvents, thinners, alcohol, fuel, some paints, wood dust, etc) are present in the atmosphere. Floor sanding may cause various materials and fumes to ignite. Read the manufacturer's instructions for each chemical product used and establish its combustibility. Always keep the work area well-ventilated.

Striking nails when sanding may generate an explosion or fire. Always ensure all nails are sunk before sanding surfaces.

Serious injury and/or death due to electrocution may occur, if the power supply circuit trips repeatedly or is undersized. Have the fuses, safety circuit and power supply line checked by an authorized electrician.

Performing maintenance and/or repairing the machine, when it is not fully disconnected from the power supply, may cause serious injury and/or death due to electrocution. Disconnect the power supply before carrying out any maintenance and/or repair work.

The use of this machine on a circuit which is not grounded may cause serious injury and/or death due to electrocution. Never disconnect or disable the grounding conductor. Consult an electrician, if the ground conductor is missing or it is suspected that the circuit is not suitably grounded.

The use of this machine with a damaged power supply cable may cause electric shock. Check the power supply cable regularly for damage, such as splitting or wear and tear. *DO NOT* use the machine, if the power supply cable is damaged. *DO NOT* use the electric cable to move the machine. *DO NOT* close a door on cord. *DO NOT* pull cord around sharp edges or corners.

DO NOT unplug by pulling on power supply cable. To unplug grasp the plug. *DO NOT* handle plug or operate machine with wet hands. *DO NOT* put any objects into motor openings.

Serious injury and/or death due to electrocution may occur if the machine runs over the power supply cable and it becomes damaged. Keep the cable away from the sanding tool. Always keep the power supply cable raised above the machine and sand away from the power supply cable.

The moving parts on this machine may cause serious injury and/or damage. Keep hands, feet and loose clothing away from all moving parts of the machine.

Operating the machine without all guards, doors, or covers in place can cause an injury or damage.

DO NOT pass with the machine on objects that are hot, burning or smoking, such as cigarettes, matches or cinders.

Operator Safety (Cont.)



Performing maintenance or replacing the dust bag may cause injury to the operator or people nearby, if the machine is connected to the power supply. Always unplug the machine when not in use.

DO NOT use solvents or other flammable products to clean this machine.

Dry use only. *DO NOT* use for liquid recovery, which could result in motor failure, electric shock, and electrocution.



Never become distracted during sanding operations, check what is happening continually. Use common sense. *DO NOT* use the machine, if you are tired, have consumed alcohol or have taken medication that may affect your judgement or your body control.

DO NOT smoke during sanding operation.



DO NOT use this machine to sand furniture.

DO NOT put any objects into openings. *DO NOT* use with blocked openings. Keep free from dust, lint, hair or anything that may reduce airflow.

Storage

It is advisable to store the machine in its original packaging. Doing so makes it possible to form a column of three packages maximum, with one on top of the other.

If the machine is removed from the original packaging and is not used for some time ensure the wheels and disc are not in contact with the ground.



This equipment is for dry use only and must not be used or kept outside in wet conditions. Store the machine in a dry building, otherwise the machine could be damaged. Storage temperature from -20°C to 50°C.



Transporting and Handling Machine

Vega

- 1) Ensure the power supply cable is disconnected from the mains and the machine.
- 2) Always move the sanding machine using the two handles with the bag support turned upwards. Protect the sanding disc with an abrasive disc and ensure the screws fastening the abrasive disc are secured well. When transporting the sanding machine on a vehicle always ensure it is well-secured and cannot move. Always lift and move the machine with care, as it is very heavy.

Introduction

Safe and correct use

This instruction manual should be read carefully before using the Vega Edge Sander for the first time.

The instruction manual contains important information on safety and preventing improper use of the machine and will resolve any doubts or questions, making possible to operate the machine safely and with ease. Removing safety features could cause death or physical injury. Familiarize yourself with the machine before using it for the first time.

If a situation arises which has not been described in this manual, contact Kunzle &Tasin s.r.l. or your retailer.

The Vega edge sander is suitable for the dry sanding of wood floors. Any other use without the consent of the manufacturer is prohibited. *DO NOT* use on wet floors.

See 'Machine Warnings' on page 13.

Keep hands and clothing away from moving mechanical parts!

Introduction (Cont.)

Machine data plate

The following information can be found on the machine data plate:



- 1) Machine model
- 2) Safety symbols
- 3) Motor power
- 4) Frequency
- 5) Supply voltage
- 6) Country of manufacture
- 7) Year of manufacture (or see serial number 8)
- 8) Serial number:
 - The first two numbers refer to the year of manufacture (13 = 2013)
 - The second group of three numbers indicates the day of the year the machine was manufactured (245 = September 2nd)
 - The last two numbers indicate the progressive number of machines produced that day of manufacture (08 = 8th machine produced that day)

Commencing Operation

Instructions for electrical connection



This machine only operates with the voltage and frequency shown on the machine data plate. Before connecting the cable to the power supply ensure the correct voltage and frequency are available.



DO NOT expose the machine to rain. This machine is intended for dry use only. Keep the machine in a dry building and *DO NOT* use it in damp or wet places.



If the machine is not connected correctly to the electricity network, death due to electrocution may occur. To prevent electric shocks always use a grounded three wire electrical system. For maximum protection against electric shocks use a circuit protected with a differential cut-out switch.

Tampering with the grounding plug in any way may result in death from electrocution. *DO NOT* cut, remove or break the grounding plug. If the socket does not match the plug consult a gualified electrician.

Do not use the machine if the switch malfunctions.

If the machine is used with a damaged plug or power supply cable, death may occur from electrocution. If cables or plugs are worn or damaged in any way, have them replaced by the manufacturer or certified machine repair center in order to prevent risks to safety.



Cables, extensions and plugs

Only use approved cables. The maximum recommended cable length is 7 m; for greater lengths use cables with a larger cross-section.



Using the machine with unsuitable and/or excessively long cables may cause injury or damage to people or objects.



The machine must never be moved using its cable and the cable must never be pulled when disconnecting from the socket.

Keep the cable away from sources of heat, oil and sharp edges.

MACHINE WITH 230 V - 50 Hz MOTOR

For machines with a 230 $V\sim50$ Hz motor, a H05VV-F-3x1,5 mm² HAR-approved power supply cable must be used along with an approved SCHUKO 2P+T 16 A 200÷250 V.

MACHINE WITH 220 V - 60 Hz MOTOR

For machines with a 220 $V\sim60$ Hz motor, a H05VV-F-3x1,5 mm² HAR-approved power supply cable must be used along with an approved SCHUKO 2P+T16 A 200÷250V.

MACHINE WITH 110 V - 60 Hz MOTOR

For machines with a 110 V~60 Hz motor, a SEO 12/3 105 approved power supply cable must be used along with an approved TWIST LOCK 16 A 125 V.

Instruction on removing sawdust generated during use



Sawdust can ignite spontaneously and cause injury or damage. It must be disposed of appropriately. Always empty the sawdust into metal containers which are located outside the building.

Sawdust can ignite spontaneously and cause injury or damage. Empty the contents of the dust bag when it is 1/3 full. Empty the dust bag at the end of each machine use. Never leave the dust bag unattended when it contains sawdust. Do not empty the contents of the dust bag above a fire.



For minimized dust environment use a vacuum cleaner intended for wooden dust.

Prevention Measures for Users

Personal safety measures



Sawdust can spread through the air and be inhaled when using the sanding machine. Always wear a dust mask of at least class P2, when using the sanding equipment.

The eyes and/or body may suffer injury if personal safety clothing is not used. It is adviceble to wear safety goggles, protective clothing during sanding operations.

Lengthy exposure to noise levels during sanding operations may damage the hearing. Always use EN-ISO approved ear protectors (earmuffs) during sanding operations.

Compliance with safety measures and warnings



Using the machine when not fully assembled may cause injury or damage to people or objects. *DO NOT* use the machine when it is not fully assembled. Keep all fittings tightly closed. Maintain machine settings in accordance with the specifications.

Failure to comply with instructions on this machine and in this manual may cause serious injury and/or damage. Read and comply with all safety instructions. Ensure that all plates, labels, warnings and instructions are secured to the machine. New plates can be obtained from an authorized Bona dealer.



Injury or damage may occur if maintenance operations or repairs are carried out by any unauthorized personnel.



Read this manual carefully and become familiar with the machine.

The equipment is suitable for industrial use (e.g. in hotels, schools, hospitals, offices, factories and shops).

The following information highlights particularly hazardous situations for the operator and/or machine. Understand when these conditions may be present. Removing safety features could cause death or physical injury. Take all steps necessary to instruct personnel who may use the machine. Report any damage on the machine or incorrect operation immediately.

- 1) Keep hands and clothes away from rotating parts.
- 2) Keep hands on the handle when the motor is operating.
- 3) DO NOT leave the machine unattended when the motor is operating.
- 4) Always disconnect the power supply cable from the machine before performing maintenance.
- 5) Transport the machine with care, due to the machine weight.
- 6) Always use the machine in well-ventilated areas.
- 7) Always keep the work area well-lit.
- 8) Always dispose of the sanding dust appropriately.
- 9) DO NOT detach the dust bag when the motor is operating.
- 10) Always dispose of the sawdust appropriately.
- 11) Use the type and amount of abrasive specified in the instruction manual.
- 12) The use of accessories other than those recommended in this manual may cause injury.
- 13) The machine is for indoor use only.

Machine Warnings

Prohibited use



Children should be supervised to ensure that they do not play with the appliance. This machine 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 received instructions regarding the use and are supervised by a person responsible for their safety.



This equipment is not suitable for collecting hazardous dust.

Using the machine to move objects or moving on an incline may cause injury or damage. The machine must only be used to sand dry floors which are level or have a maximum incline of 2%. *DO NOT* use the machine to sand furniture.



Work surfaces may be seriously damaged if the machine is left turning on one point while the tool is in contact with the surface. To avoid damaging the surface approach the cutting line carefully. *DO NOT* stop when lowering and raising the equipment, keep moving at constant speed.

Starting the Machine Description

Machine use

The machine is intended for the edge sanding of wooden floors. It maybe used on newly laid and untreated floors and existing floors that have been treated with lacquer or oil.

The main function of the machine is to serve as a complement to a belt or a drum sander for sanding edges.

The machine has been thoroughly checked and approved before leaving the factory.

Working method



When sanding hold the machine, use both handles and move the machine in circles in the direction of rotation over the surface which is to be sanded. It is important that the machine rests on three points, both the wheels and the sanding disc.

The best result is obtained by letting the machine work with its own weight.

When using fine abrasives you must be careful not to make any burn marks due to high friction created.

In addition to the points noted the sanding must be adapted to the type, patter and composition of the floor.

Starting the Machine

1) Become familiar with the machine and read all instructions and safety notices. Ensure that all operators have read this manual.

2) Place the dust bag on the pipe by tying the cord over the pipe flange.



As an alternative to the fabric bag the following may be used:

a) Disposable paper bags available in packs along with the special bag support. The limit for use is 1/3 of the total capacity.

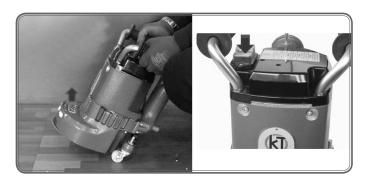


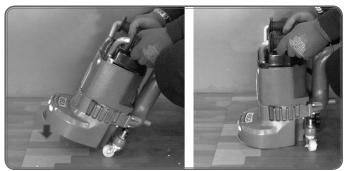
b) Remote control industrial vacuum cleaner (maximum length of pipe: 10 metres) along with adaptor.



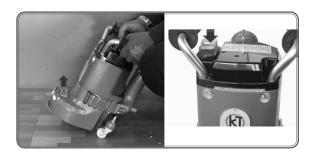


- 4) Fit the disc in accordance with the "**Abrasive assembly procedure**" (pg.16).
- 5) Locate the power supply. The socket must be compatible with the plug. To avoid electrical hazards the socket must be earth protected with a fuse (20 A). Connect the plug to the socket.
- 6) Raise the disc so that the machine is only resting on the floor with its wheels and press the green ON button (GREEN BUTTON).
- 7) Keep the machine moving when the abrasive disc is lowered and in contact with the work surface.





8) To stop the machine raise the disc so that the machine is only resting on the floor with its wheels and press the red OFF button. (RED BUTTON).





The disc does not stop immediately! Take care not to touch it with any part of the body during this phase.

A safety contactor is fitted to the machine. If the power fails when sanding the contactor is activated automatically, stopping the machine from accidentally starting up when the power is restored. To recommence sanding repeat the start-up operations described above.



Allow the motor to "rest" during periods of heavier use.

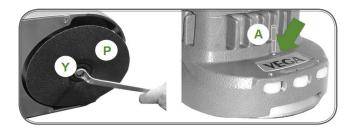
Machine adjustment procedures

Abrasive assembly procedure

- 1) Ensure the electric cable is disconnected to the power.
- 3) Remove the screw Y and the tapered washer keeping disk P locked with pin A in the hole on the machine body.
- floor.

2) Turn the machine over, resting the handles on the

4) Ensure the surface of the disc is clean and select an abrasive disc (178mm diameter) with a suitable grain which does not have a damaged surface.



5) Secure the abrasive disc using screw Y and the tapered washer keeping disk P locked with pin A in the hole on the machine body.

CAUTION

Only use discs with a diameter of 178 mm.

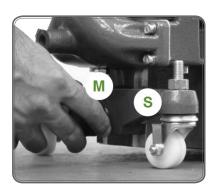
As an alternative to the standard version (with professional disc), when ordering it is possible to request the version with velcro-backed disc or subsequently with kit.





Adjusting the working surface on the floor

- 1) The abrasive disc holder has a truncated cone shape with a large opening. For the disc to work on the flat its axis must be tilted with respect to the floor.
- 2) The tilt is determined by the position of the wheels fitted on support S sliding along a guide which can be locked using knob M. Loosening the knob lowers the wheel-holder support to the required position.



Adjusting the handles

1) To move the handle to the most comfortable and effective position loosen screws V, and raise/lower (max. displacement 120 mm) and turn (max. displacement 360°) the handle until the required position is reached. Then tighten screws V.





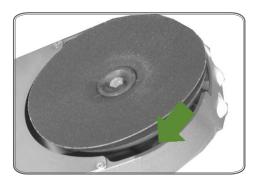
Keep the handle clean and free from grease.

Routine Maintenance

To keep the machine in good working condition the following items must be checked and serviced regularly (every 250 working hours or at least once a year).

Sawdust chamber (for the user)

1) Hoover the sawdust from the chamber regularly to prevent the hazardous accumulation of dust.



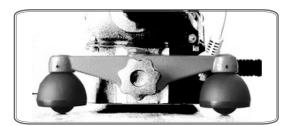
Disc (for the user)

1) Check the disc surface regularly. Remove any dirt.

Wheels (for the user)

1) Remove dirt from the machine unit and wheels regularly. Dirt may cause uneven sanding.

As an alternative to standard wheel U-bolts it is also possible to use a SW (spherical wheel) bolt.





Dust bag (for the user)

1) Remove the bag and shake it well to remove sawdust. Turn the bag inside out and wash it in the machine in cold water to prevent blockage of the pores and a decrease in dust collection ability.



Graphite brushes (for the user)

The motor has two graphite brushes that must be checked every six months or after 500 hours of operation. The check the brushes carry out the following procedure:

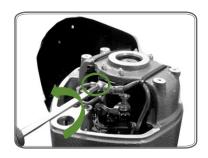
1) Remove the cover of the motor by unscrewing the four fixing screws with the Allen key.



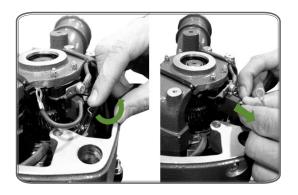
3) Pull the brush spring backwards and remove the brush.



2) Using a screwdriver remove the end fixing screws on the wire for each brush.



4) Check the brushes. If one of the brushes is shorter by 12 mm replace both brushes.







When fitting new brushes ensure the cables are away from the motor before replacing the cover.

Routine Maintenance (Cont.)

Lubrication (for the user)

The machine does not require lubrication. All moving parts, including the motor, have watertight ball bearings lubricated for approximately 10,000 hours of operation.

Spare parts and exploded views

To order spare parts, always specify the type and serial number of your machine. This information is located on the data plate of the machine.

The spare parts of the machine are shown in the exploded views on our website www.kunzletasin.com

Always use K&T spare parts.

Failure to use K&T spare parts, or repairs/adjustments carried out by unauthorized personnel, will invalidate the guarantee and any resulting liability.

The machine must only be repaired by qualified personnel. This electric equipment is compliant with the relevant safety legislation.

Repairs must be carried out by qualified personnel using K&T spare parts, otherwise the user may suffer serious injury.

On the Internet, you will find a list of spare parts and exploded views for the Vega Edge Sander and other machines in our product range.

Visit: http://www.kunzletasin.com/index.php/download/viewcategory/5-esplosi-exploded-views



PROBLEM	CAUSE	SOLUTION
Motor does not start	No power supply voltage	Check power supply or try on a different job-site
	Unstable connections	They must be checked and arragged (contact an authorized K&T dealer)
	Faulty switch	It must be replaced (contact an authorized K&T dealer)
	Burnt rotor	It must be replaced (contact an authorized K&T dealer)
	Faulty motor	It must be replaced (contact an authorized K&T dealer)
Insufficient motor speed	Excessive cable length or unsuitable cross section	Change it
	Unstable connections	They must be checked and arragged (contact an authorized K&T dealer)
	Worn-out carbon brushes	Replace them
	Burnt rotor	It must be replaced (contact an authorized K&T dealer)
	Faulty motor	It must be replaced (contact an authorized K&T dealer)
Insufficient cutting	Unsuitable or worn abrasive	Replace the abrasive
	Worn-out driving belt or pulleys or bearings	Replace them (contact an authorized K&T dealer)
The velcro backing disc wears-out too quickly	Pressing on the arm while sanding	Avoid it: this over-warms the backing disc thus resulting in an early wearing out.
Scratched work surface	Faulty abrasive	Replace the abrasive
	Disc surface dirty, faulty or worn	Clean or replace the disc
	Incorrect wheels adjustment	Correct the wheels position
	Worn-out driving belt or pulleys or bearings	Replace them (contact an authorized K&T dealer)
Scorching on work surface	Worn or abrasive too fine	Replace the abrasive
	Excessive pressure on the disc	Check and adjust the wheels position - don't press on the arm while working
Insufficient dust collection	Dust bag more than 1/3 full	Empty the bag
	Dust bag dirty or with blocked pores	Shake out the dirt and wash the bag
	Vacuum ducts and/or pipes obstructed	Clean air ducts
	Worn-out bearings or suction fan	They must be replaced (contact an authorized K&T dealer)

Declaration of Conformity

2006/42 EC, 2014/30 EU, 2011/65 EU, 2012/19 EU

We

KUNZLE & TASIN S.r.l.

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Manufacturer and entity authorized to compile and maintain the technical file, declare that under our sole responsibility the product

Vega EDGE SANDER

to which this declaration refers, is compliant with the following Directives:

2006/42 EC (Machinery Directive), 2014/30 EU (EMC Directive), 2011/65 EU (RoHS Directive), 2012/19 EU (WEEE Directive).

The product is compliant with the following harmonized standards:

Safety of machinery - General principles for design - Risk assessment and risk reduction - EN ISO 12100

Household and similar electrical appliances - Safety - Part 1: General requirements - EN IEC 60335-1

Household and similar electrical appliances - Safety - Part 2-67: Particular requirements for floor treatment machines, for commercial use - EN IEC 60335-2-67

Electromagnetic compatibility (EMC):

- Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission - EN 55014-1

- Requirements for household appliances, electric tools and similar apparatus Part 2: Immunity EN 55014-2
- Part 3-2: Limits Limits for harmonic current emissions (equipment input current ≤ 16 A per phase) EN IEC 61000-3-2
- Part 3-11: Limits Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems Equipment with rated current \leq 75 A and subject to conditional connection EN IEC 61000-3-11

CASSOLNOVO (PV) - 04/03/2012

(The place and date of issue)

Mile Romana







Disposal of Waste Equipment by Users in Private Households in the European Union. This symbol on the product or packaging indicates that it must not be disposed of with other household waste. It is your responsibility to dispose of your waste by bringing it to a designated collection point that recycles electrical and electronic equipment waste. The separate collection and recycling of waste at the time of disposal helps to conserve natural resources and ensures it is recycled in a manner that safeguards health and the environment. For more information about where to take waste equipment for recycling, please contact your local council office, household waste disposal service or retailer where you purchased the product. Specific label attached to the machine indicates that the product has special disposal requirements and possible presence of a power supply.



Additional Note



2017 Edition

