

# Bona Scorpion



Operating Manual

**Bona**<sup>®</sup>

**ATTENTION:**

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.

**Note: The pictures are referring to 230-240V~50Hz version.**

**Bona**®

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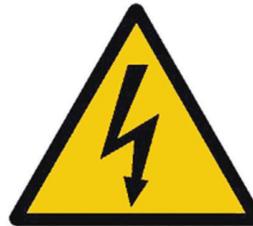
Read the instructions contained in this user and maintenance manual before using the machine.



Hearing protection during use is recommended.



Protection of the airways during use is recommended.



Hazard due to electricity.



Hazard due to moving parts.

## 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 Bona Scorpion 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.

## Operator Safety (Cont.)

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Sanding/finishing wood floors can create an environment that can be explosive.

The following safety procedures must be adhered to:

- Cigarette lighters, pilot lights, and any other sources of ignition can create an explosion when active during a sanding session. All sources of ignition should be extinguished or removed entirely, if possible, from the work area.
- Work areas that are poorly ventilated can create an explosive environment when certain combustible materials (solvents, thinners, alcohol, fuels, certain finishes, wood dust, etc.) are in the atmosphere. Floor sanding machines can cause flammable material and vapors to ignite. Read the manufacturer's label on all chemicals being used to determine combustibility. Keep the work area well ventilated.
- Hitting a nail while sanding can cause sparks and create an explosion or fire. Always use a hammer and punch to countersink all nails before sanding floors.

Electrocution could occur if the machine is used on a power circuit that repeatedly trips or is undersized. Have a licensed electrician check the fuse, breaker, or power supply.

Electrocution could occur if maintenance and repairs are performed on a unit that is not properly disconnected from the power source. Disconnect the machine from all power.

Electrocution could occur if the machine is used on an ungrounded electrical circuit. Never remove or disable the grounding supply conductor on the electrical cord.

Consult an electrician if the grounding conductor is missing or if you suspect your circuit is not grounded properly.

Use of this machine with a damaged power cord or plug could result in an electric shock. DO NOT pull or carry by cord, use power cord as a handle, close a door on cord, or pull cord around sharp edges or corners.

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

Electrocution or injury could occur if the power cord is run over and damaged by the sanding machines. Keep the cord away from contact with the sanding heads. Always lift the cord over the machine and sand away from the cord.

Moving parts on this machine can cause serious injury and or damage. Keep hands, feet, hair, and loose clothing away from all moving parts of the unit.

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.



### HAZARD

Injury to the operator or bystanders could occur if the machine is plugged in while performing maintenance, servicing, changing filter, or inspecting. Always unplug 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.



### WARNING

Airborne sanding dust should not be breathed in while operating a sanding machine. Always wear an approved particulate respirator while operating sanding equipment.

Injury to the eyes and or body can occur if protective clothing and or equipment is not worn while sanding. Always wear hearing protection, and a dust mask while sanding.

Exposure to high noise levels can cause hearing loss or impairment. Wear EN-ISO approved hearing protection (earmuffs) when using this equipment.

Bodily injury could occur if power is supplied to the machine with the power switch already in the "ON" position. Always check to assure the power switch is "OFF" before connecting the machine to its power source.

*DO NOT* use this machine to sand steps or furniture. *DO NOT* ride on this machine.

*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

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It is advisable to store the machine in its original packaging. Doing so makes it possible to form a column of two 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 d are not in contact with the ground. In this case use two supports at least 50mm in height to rest the machine on, ensuring contact is with the base frame.



### WARNING

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

With one person



*Request assistance to lift the machine due to its heavy weight.*

The machine can be dismantled into two parts to facilitate transportation:



*Suction tube/handle unit*



*Base frame with drum and motor*

Transporting the machine by yourself? Proceed as follows:

- 1) Ensure the power supply cable is disconnected from the mains and the machine.



With one person (cont.)

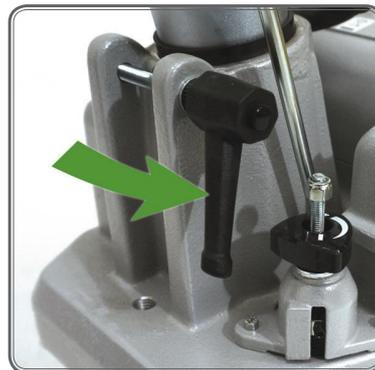
2) After releasing the knob (A) and moving the lever forwards (B), lift the tube (C) and release the bar (D) from the cylinder (E).



3) Remove the plug from the socket.



4) Loosen the handle, remove the tube from its housing and bring it to the place of work.



5) Lift the base frame by clasping the hub of the belt guard on the upper part and the base frame itself on the lower part.

## Transporting and Handling (Cont.)

With two people

Transporting the machine with two people? Proceed as follows:

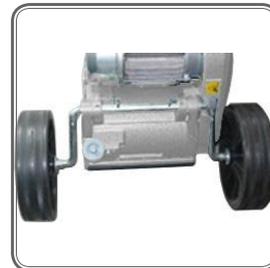
1) One operator should clasp the handle grip (A)...



2) The second, holding the hub of the belt guide (A), should lift the machine.



A special trolley is available as an accessory (P/N 2999940024).



**WARNING**

This equipment is not to be used by anyone (children included) with physical or mental disabilities, or anyone without the relevant experience and knowledge, unless they have received instructions on using the equipment and are supervised by a responsible person to ensure their safety.

Children must be supervised to ensure that they *DO NOT* play with the machine.

## Safe and correct use

This instruction manual should be read carefully before using the Bona Scorpion wood flooring 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 your distributor or Bona Representative.

The Bona Scorpion wood flooring 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.

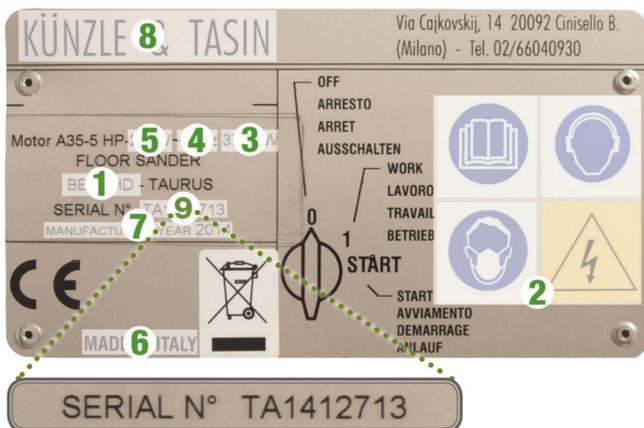
See **'Machine Warnings'** on page 18.

Keep hands and clothing away from moving mechanical parts.

The work area is protected via the base frame and the mobile cover on the abrasive drum.

## 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 (see 9 on next page)
- 8) Name of the manufacturer

## Introduction (Cont.)

### Machine data plate (cont.)

#### 9) Serial number:

- The first two numbers refer to the year of manufacture (14 = 2014)
- The second group of three numbers indicates the day of the year the machine was manufactured (127 = May 7<sup>th</sup>)
- The last two numbers indicate the progressive number of machines produced that day of manufacture (13 = 13<sup>th</sup> machine produced that day)

## Commencing Operation

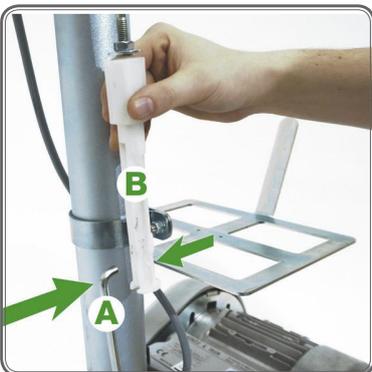
### Instructions for assembly following transportation

To re-assemble the machine after transportation, proceed as follows:

- 1) Insert the tube into its housing and tighten the handle.



- 2) Insert the bar (A) into the cylinder (B) and lower the tube (C).



## Instructions for assembly following transportation (cont.)

3) Insert the plug in the socket.



4) Lift the drum with the lever (A).



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.

## 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 qualified 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.

## Commencing Operation (Cont.)

### Cables, extensions and plugs

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

#### CAUTION

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

#### WARNING

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 230V~50Hz MOTOR

For machines with a 230-240V~50Hz motor (EU) a H05VV-F-3x1.5mm<sup>2</sup> HAR-approved power supply cable must be used along with an approved SCHUKO 2P+E 16A 200-250V plug.

#### MACHINE WITH 115V~60Hz MOTOR

For machines with a 115V~60Hz motor (US) a HAR-approved SWO 10/3 yellow power supply cable must be used along with an approved TWIST LOCK 30A 250V plug.

### Removing sawdust generated during use

#### HAZARD

Sawdust can ignite spontaneously and cause injury or damage. Empty the contents of the dust bag when it is 1/3 full into metal containers which are located outside the building. 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.



## Personal safety measures



Sawdust can spread through the air and be inhaled when using the sander. Always wear a dust mask when using the sanding equipment.

The eyes and/or body may suffer injury if personal safety clothing is not used. Always wear safety goggles, protective clothing and a dust mask during sanding operations.

Lengthy exposure to noise levels during sanding operations may damage the hearing. Always use ear protectors during sanding operations.



Never become distracted during sanding operations, check what is happening continually. Use common sense. *DO NOT* use the machine when tired.

## 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.

Using the machine without the safety guards and covers in position may cause injury or damage. Always ensure that all safety guards and covers are in position and secured well.

The sanding machine 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. No sources of fire should be kept near the work area.

Poorly ventilated work areas may create an explosive environment when some combustible materials are present in the atmosphere, such as solvents, thinners, alcohol, fuel, some paints, wood dust or other combustible materials. Floor sanding machines 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 damage 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 death due to electrocution. Disconnect the power supply before carrying out any maintenance and/or repair work.

## Prevention Measures for Users (Cont.)

### Compliance with safety measures and warnings (cont.)

#### **HAZARD**

The use of this machine on a circuit which is not grounded may cause 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.

Injury or damage may occur if the machine runs over the power supply cable and it becomes damaged. Keep the cable away from the lower part of the machine to avoid contact with the abrasive. Always keep the power supply cable raised above the machine.

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.

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.

#### **WARNING**

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.

#### **CAUTION**

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

The machine may become damaged if it is not kept in a dry building. Keep in a dry building.

## 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 use the machine with the dust bag in the correct position.
- 5) *DO NOT* detach the dust bag when the motor is operating.
- 6) Always disconnect the power supply cable from the machine before performing maintenance.
- 7) Transport the machine with care due to the heavy weight of the individual parts making up the machine.
- 8) Always use the machine in well-ventilated areas.
- 9) Always keep the work area well-lit.
- 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 Specifications

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<i>Abrasive Dimensions:</i> (Per Drum)	Expansion (belt): 200mm x 480mm
<i>Drum Width:</i>	Expansion: 200mm
<i>Drum Diameter:</i>	Expansion: 150.5mm
<i>Drum Speed:</i>	Expansion: 3000 rpm (230V~50Hz) - 2600rpm (115V~60Hz)
<i>Motor:</i>	(A48) EU – 230V~50Hz – 1.5kW (A53) US – 115V~60Hz – 1.3kW
<i>Handles:</i>	Height adjustable
<i>Starting Control:</i>	Hand grip handle
<i>Safety Protection:</i>	Via "operator presence" start handle: motor stops when red handle is released
<i>Drum Control:</i>	Hand grip handle
<i>Wheels Adjustment:</i>	Via base frame screw
<i>Wheels:</i>	Ø 80mm replaceable
<i>Bearings:</i>	Lifetime lubricated ball bearings
<i>Drum Pressure Adjustment:</i>	Infinite adjustment
<i>Noise Level:</i> (IEC 60704-1 [continuous weighted sound pressure level A, measured at a distance of 0.4m from the handle and a height of 1.5m from the ground])	80dB(A) max
<i>Vibration:</i> (ISO 5349 [weighted value of the mean square derivation of acceleration])	≤ 1.45m/s <sup>2</sup>
<i>Machine Dimensions:</i> (assembled)	320mm x 810mm x 1070mm
<i>Net Weight:</i>	47kg
<i>Gross Packaging Dimension:</i>	2 cardboard packages Machine: 660mm x 370mm x 640mm Handle: 340mm x 220mm x 880mm
<i>Gross Weight:</i>	Cardboard packaging: 56kg
<i>Standard Equipment:</i>	Dust bag Start-up keys User and maintenance manual

## 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 wooden floors which are level or have a maximum incline of 2%. **DO NOT** use the machine to sand steps or furniture. **DO NOT** sit astride the machine when it is operating.

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

To start the machine proceed as follows:

- 1) Become familiar with the machine and read all instructions & safety notices. Ensure that all operators read this manual.
- 2) If using DCS, connect the provided DCS adaptor with clamp to DCS pipe and fasten the clamp. If using a dust bag, place the dust bag on the suction pipe by tying the cord over the black rubber ring.



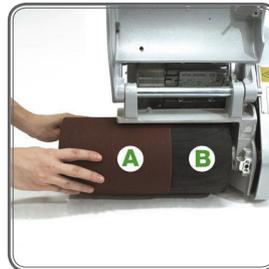
- 3) Locate the power supply. The socket must be compatible with the plug. To avoid electrical hazards the socket must be grounded with a fuse.
- 4) Keep the cable away from the pathway of the machine.

## Starting the Machine (Cont.)

5) Open the abrasive belt cover (A).



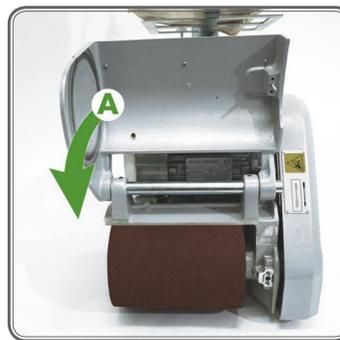
6) Fit the abrasive (A) to the drum (B) according to the 'Abrasive Assembly Procedures' on page 24.



7) Ensure the lever (A) is engaged and the drum is raised off the floor.



8) Close the abrasive belt cover (A).



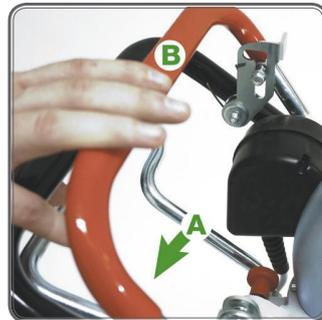
9) Connect the plug to the socket.



- 10) Standing behind the machine, release the safety lever (A) and press the start handle (B) until the handle underneath is clasped (the motor will start). Keeping the start handle pressed, release the knob (C) and push the drum control lever forwards (D). Commence sanding operations.



- 11) To stop the machine, engage the drum control lever (A) and release the start handle (B), which will immediately return to its initial position.



## Machine Adjustment Procedures

### Adjusting sanding pressure

To vary drum pressure on the floor, use the adjustment knob and proceed as follows:

## Machine Adjustment Procedures (Cont.)

### Adjusting sanding pressure (cont.)

- 1) Turn the adjustment knob (A) clockwise to decrease drum pressure on the floor.



- 2) Turn the adjustment knob (A) counter-clockwise to increase drum pressure on the floor.



### Wheel adjustment

To adjust wheel position, proceed as follows:

- 1) Loosen the locking nut.



- 2) Turn the screws clockwise to raise the end of the side drum cover off the floor. Turn the screws counter-clockwise to lower the end of the side drum cover towards the floor.



- 3) Once the desired position has been reached, secure the locking nut.



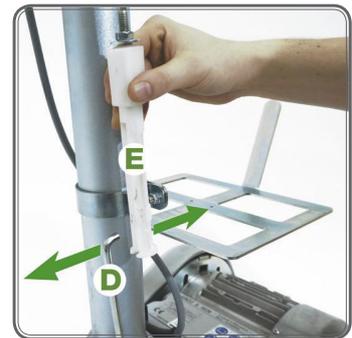
## Adjusting handle height

To adjust handle height, proceed as follows:

- 1) Ensure the power supply cable is disconnected from the mains and the machine.



- 2) After releasing the knob (A) and moving the lever forwards (B), lift the tube (C) and release the bar (D) from the cylinder (E).



- 3) Loosen the screws (A) until the handle unit is mobile.



- 4) Raise or lower the handle unit (A) until reaching the upper or lower stop.



## Machine Adjustment Procedures (Cont.)

### Adjusting handle height (cont.)

5) Tighten the screws (A).



6) Insert the bar (A) into the cylinder (B) and lower the tube (C).



7) Lift the drum with the lever (A).



### Wall edge castor

A support with a free castor has been fitted to avoid damage to the skirting board or wall when sanding along the wall.

#### **WARNING**

The wall edge castor is correctly positioned when the machine is approximately 8mm away from the wall with the castor up against it.

Before starting work, position the castor correctly by loosening the fastening screw (A) on the support, moving the support to the required position and tightening the screw (A).



## Abrasive Assembly Procedures

Fit the abrasive to the drum ensuring that the abrasive protrudes approximately 1.5mm from the drum itself.



Do not start the machine without the abrasive inserted, otherwise the drum will be damaged and must be replaced.

The abrasive is in the correct position when it protrudes approximately 1.5mm from the sander drum. Using a damaged abrasive may cause damage to the machine or floor.



Using a damaged abrasive which could then tear while sanding may damage the machine or floor.

## Routine Maintenance

To keep the machine in good working condition the following items must be checked and serviced regularly.

### Sawdust chamber (for the user)

Vacuum the sawdust chamber (A) regularly.



## Routine Maintenance (Cont.)

### Drums (for the user)

Check the outer surface of the drum (A) regularly. Remove any dirt.



### Wheels (for the user)

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



### Dust bag (for the user)

Remove the bag and shake it well to remove sawdust.

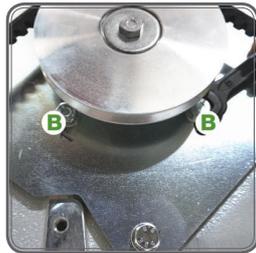
Turn the bag inside out and wash it in the machine in cold water to prevent blockage of the pores and a decrease in dust collection ability. We *strongly* recommend the Bona DCS as an alternative to the fabric bag.



## Belt tension (for the user)

Check the belt tension every 500 hours of operation.

1) Remove the belt cover after removing the two screws (A).  
Loosen the 4 motor fastening screws (B).



2) Belt tension can be adjusted using the screw (A). After adjustment, lock the motor fastening screws and replace the belt cover (B).



If the belt is excessively worn it must be replaced.

## CAUTION

Excessive belt tension may cause the premature failure of the ball bearings.  
The drum belt must have a 10.5mm stretch with a center load of  $30 \pm 3N$ .

## Bearings (only for tech support service)

Check bearings regularly for wear or damage according to the following timescales:

*Wheels:* After the first 2500 hours

*Fan Shaft:* After the first 2500 hours

*Sanding Drum:* After the first 5000 hours

*Motor Shaft:* After the first 5000 hours

## Spare Parts

Always use Bona/Künzle & Tasin spare parts.

Failure to use Bona/Künzle & Tasin 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 Bona/Künzle & Tasin spare parts, otherwise the user may suffer serious injury.

## Emergency Situations (for the user)

PROBLEM	CAUSES	SOLUTIONS
<b>Motor does not start</b>	<i>No power supply voltage</i>	Check power supply or try on a different job-site
	<i>Insufficient voltage for unstable connections</i>	Contact an authorized Bona dealer
	<i>Faulty switch</i>	Contact an authorized Bona dealer
	<i>Faulty capacitor</i>	Replace it
	<i>Faulty motor</i>	Contact an authorized Bona dealer
<b>Insufficient motor speed</b>	<i>Excessive cable length or unsuitable cross section</i>	Use cables of suitable length and cross section
	<i>Unstable connections</i>	Contact an authorized Bona dealer
	<i>Driving belt at a wrong tension</i>	Set it at a right one
	<i>Faulty capacitor</i>	Contact an authorized Bona dealer
	<i>Faulty motor</i>	Contact an authorized Bona dealer
<b>The drum speed is not enough</b>	<i>Excessive cable length or unsuitable cross section</i>	Use cables of suitable length and cross section
	<i>Unstable connections</i>	Contact an authorized Bona dealer
	<i>Driving belt too tightened</i>	Set it at a right tension value
	<i>Worn-out bearings</i>	Contact an authorized Bona dealer
	<i>Faulty capacitor</i>	Replace it
	<i>Faulty motor</i>	Contact an authorized Bona dealer
<b>The drum doesn't come off enough from the floor</b>	<i>Wheels joint, between the two parts of the drum lifting rod, not properly adjusted</i>	Adjust it at the right position
<b>The abrasive doesn't sand enough or its speed is not enough or it doesn't keep the right place</b>	<i>Unsuitable or worn-out abrasive</i>	Replace the abrasive
	<i>Insufficient drum pressure</i>	Increase drum pressure
	<i>Dust prevents adjusting the drum pressure</i>	Remove the dust
	<i>Driving belt at a wrong tension</i>	Set it at a right tension value
	<i>Worn-out driving belt or pulleys or bearings</i>	Replace the belt or contact an authorized Bona dealer, for pulleys and bearings replacement
	<i>Worn-out drum</i>	Replace it
	<i>Faulty abrasive</i>	Replace the abrasive
<b>The floor surface is not regularly sanded</b>	<i>Incorrect wheel adjustment</i>	Correct the wheel position
	<i>Bearings, pulleys or shafts dirty or faulty</i>	Clean them or contact an authorized Bona dealer, for replacement
	<i>Driving belt and wheels dirty, badly adjusted or faulty</i>	Clean, adjust or replace them
	<i>Drum surface dirty or faulty</i>	Clean, correct or replace the rubber-coated drum
	<i>Drum surface out of roundness</i>	Replace the rubber-coated drum and remember never to let the drum laying on the floor while the machine is not working in order to avoid ovality

<b>PROBLEM</b>	<b>CAUSES</b>	<b>SOLUTIONS</b>
<b>Scorching on work surface</b>	<i>Worn-out or unsuitable abrasive</i>	Replace the abrasive
	<i>Excessive pressure on drum</i>	Decrease sanding pressure
<b>Insufficient dust collection</b>	<i>Dust bag more than 1/3 full</i>	Empty the cloth bag or change the paper bag
	<i>Dust bag dirty or with blocked pores</i>	Shake out the dirt and wash the cloth bag or change the paper bag
	<i>Vacuum ducts and/or pipes obstructed</i>	Clean air ducts
	<i>Suction bearings and shaft in bad conditions</i>	Contact an authorized Bona dealer
<b>The paper dust bag breaks down while working or while putting it on the machine</b>	<i>Paper bag put in the wrong direction</i>	Change the bag direction: the side with the full sign must be towards the abrasive drum
	<i>Mistake while putting the bag on the machine</i>	While putting the bag on the machine, stop before the black ring; this must stay outside the paper bag.
	<i>Dust bag more than 1/3 full</i>	Change the paper bag

# Declaration of Conformity

2006/95 EC, 2006/42 EC, 2004/108 EC, 2011/65 EU, 2012/19 EU

## KUNZLE & TASIN S.r.l.

*Registered Headquarters  
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*Business Management and Production Site  
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20092 - Cinisello Balsamo (MI) - Italy*

*Manufacturer and entity authorized to compile and maintain the technical file,  
declares that under its sole responsibility the product*

**Bona Scorpion**  
DRUM SANDER FOR WOOD FLOORING

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

2006/95 EC (Low Voltage Directive), 2006/42 EC (Machinery Directive), 2004/108 EC (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

Safety of machinery - Electrical equipment of machines - Part 1: General requirements - EN IEC 60204-1

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

- Part 3-2: Limits - Limits for harmonic current emissions (equipment input current  $\leq 16$  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) – 04/03/2016

*(The place and date of issue)*



*Michela Caresana - CHIEF EXECUTIVE OFFICER*



*Smaltimento di apparecchiature da rottamare da parte di privati nell'Unione Europea.* Questo simbolo che appare sul prodotto o sulla confezione indica che il prodotto non deve essere smaltito assieme ad altri rifiuti domestici. Gli utenti devono provvedere allo smaltimento delle apparecchiature da rottamare, portandole al luogo di raccolta indicato per il riciclaggio delle apparecchiature elettriche ed elettroniche. La raccolta e il riciclaggio separati dalle apparecchiature da rottamare in fase di smaltimento favoriscono la conservazione delle risorse naturali e garantiscono che tali apparecchiature vengano rottamate nel rispetto dell'ambiente e della tutela della salute. Per ulteriori informazioni sui punti di raccolta delle apparecchiature da rottamare, contattare il proprio comune di residenza, il servizio di smaltimento dei rifiuti locale o il negozio presso il quale è stato acquistato il prodotto. *Per indicare che questo prodotto comporta requisiti speciali di smaltimento, è stata fissata un'etichetta sulla scatola motore, inoltre, essendo presente una fonte di alimentazione esterna, è stata fissata un'altra etichetta nella stessa posizione.*



*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. *To indicate that this product has special disposal requirements a label is attached to the motor box. Besides, being a power supply included, another label is attached in the same position.*



*Entsorgung von Ausschusselektrogeräten durch Benutzer in privaten Haushalten in der EU.* Dieses Symbol auf dem Produkt oder dessen Verpackung gibt an, dass das Produkt nicht zusammen mit dem Restmüll entsorgt werden darf. Es obliegt daher Ihrer Verantwortung, das zum Verschrotten bestimmte Gerät an einer für die Entsorgung oder Wiederverwertung von Elektrogeräten aller Art entsprechenden Stelle abzugeben. Die separate Sammlung und das Recycling Ihrer zur Entsorgung bestimmten Elektrogeräte trägt zum Schutz der Umwelt bei und gewährleistet, dass sie auf eine Art und Weise recycelt werden, die keine Gefährdung für die Gesundheit des Menschen und der Umwelt darstellt. Für weitere Informationen darüber, wo Sie alte Elektrogeräte zum Recyceln abgeben können, setzen Sie sich mit den örtlichen Behörden, Wertstoffhöfen im Kontakt oder fragen Sie dort, wo Sie das Gerät erworben haben. *Um darauf hinzuweisen, dass für dieses Produkt spezielle Entsorgungsrichtlinien gelten, wurde an dem Motorgehäuse ein Aufkleber angebracht. Außerdem, da eine externe Versorgung im Lieferumfang enthalten ist, wurde ein anderer Aufkleber auf dem Motorgehäuse angebracht.*



*Évacuation des équipements usagés par les utilisateurs dans les foyers privés au sein de l'Union européenne.* La présence de ce symbole sur le produit ou sur son emballage indique que vous ne pouvez pas vous débarrasser de ce produit de la même façon que vos déchets courants. Au contraire, vous êtes responsable de l'évacuation de vos équipements usagés et à cet effet, vous êtes tenu de les remettre à un point de collecte agréé pour le recyclage des équipements électriques et électroniques usagés. Le tri, l'évacuation et le recyclage séparés de vos équipements usagés permettent de préserver les ressources naturelles et de s'assurer que ces équipements sont recyclés dans le respect de la santé humaine et de l'environnement. Pour plus d'informations sur les lieux de collecte des équipements usagés, veuillez contacter votre mairie, votre service de traitement des déchets ménagers ou le magasin où vous avez acheté le produit. *Une étiquette sur la boîte du moteur a été fixée pour signaler que la machine doit être évacuée selon une procédure particulière. Comme une alimentation externe est fournie, une autre étiquette a été fixée en même position.*





**Bona**<sup>®</sup>



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