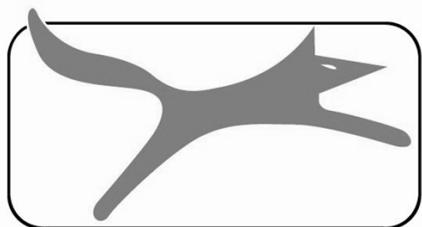


BANDSAW



(FOX model F28-186A)



FOX[®]

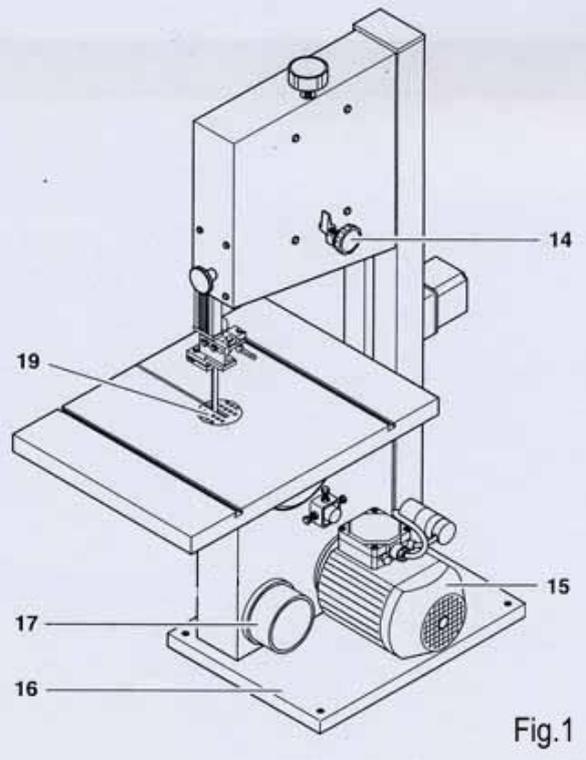
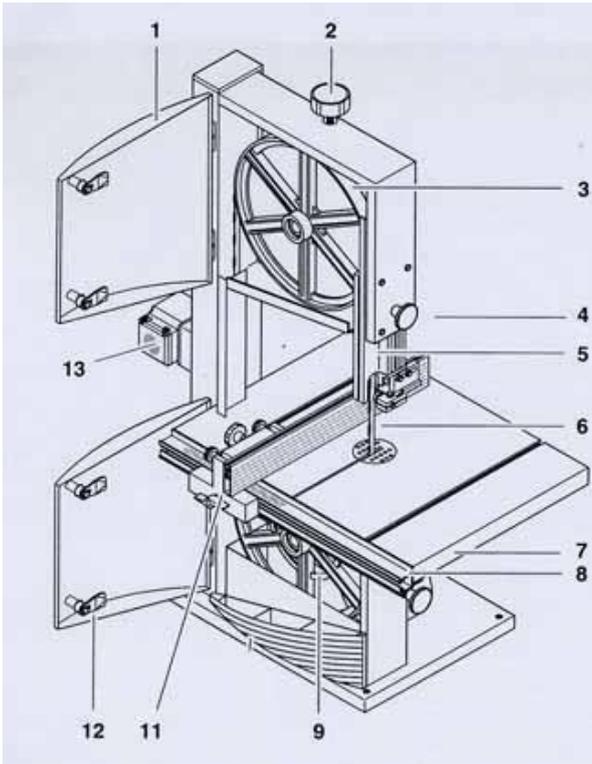


Fig.1

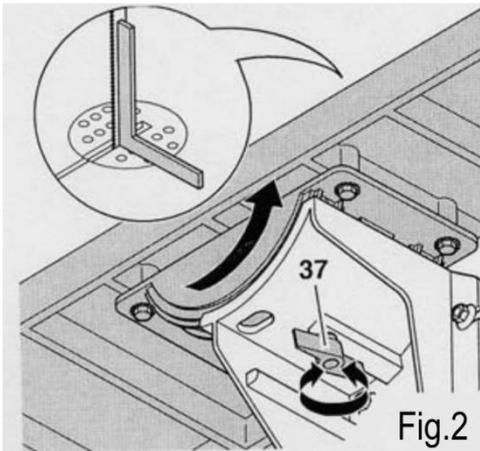


Fig.2

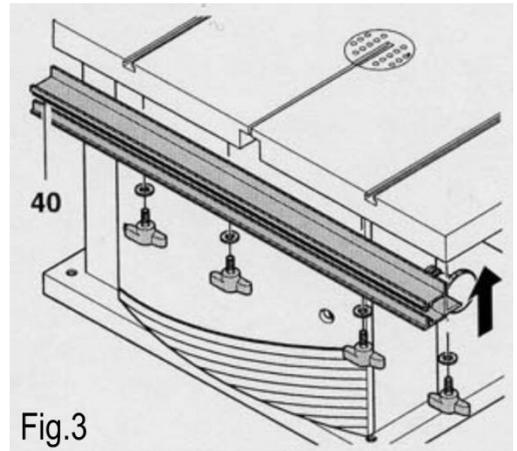


Fig.3

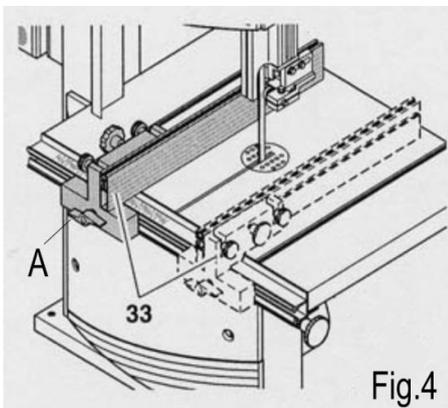


Fig.4



Fig.5

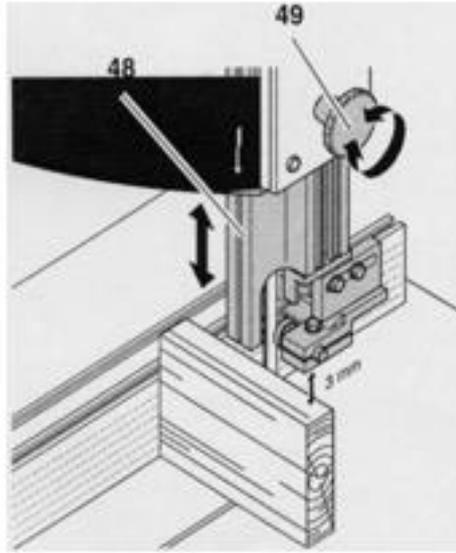
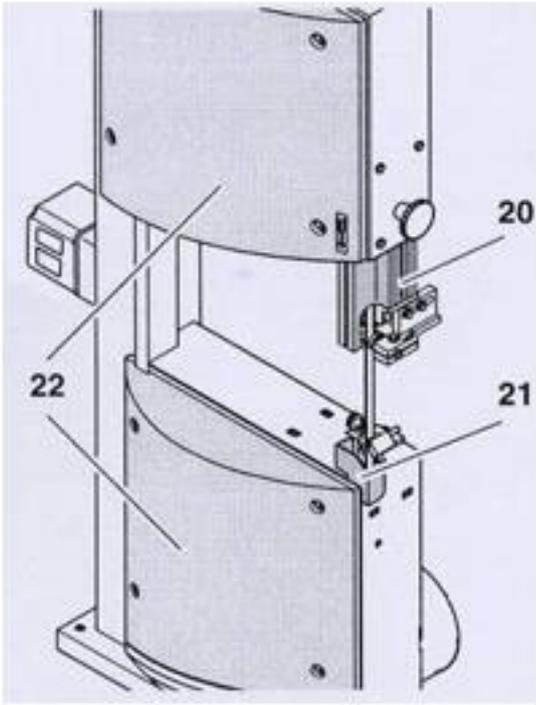


Fig.6

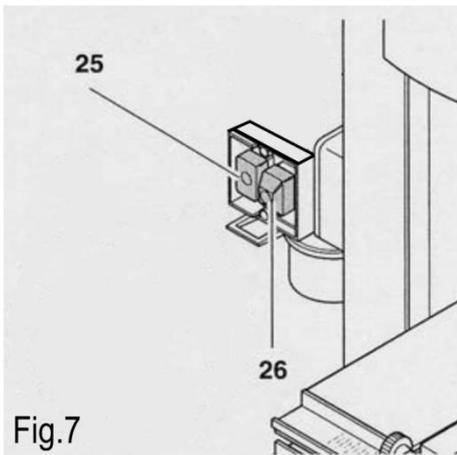


Fig.7

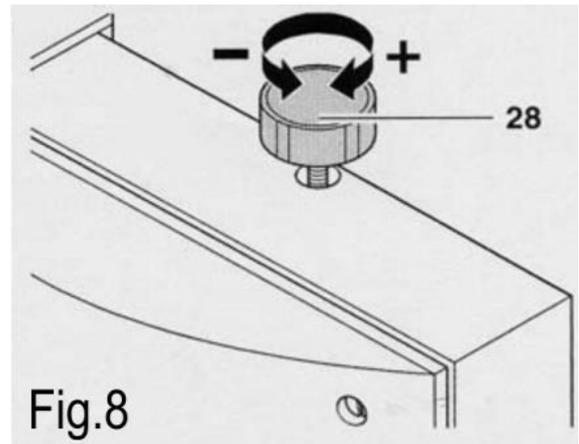


Fig.8

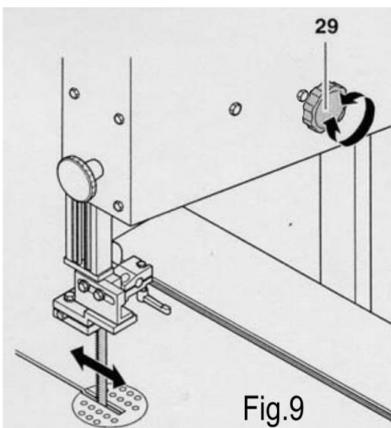


Fig.9

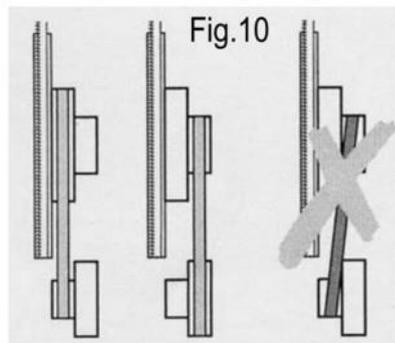
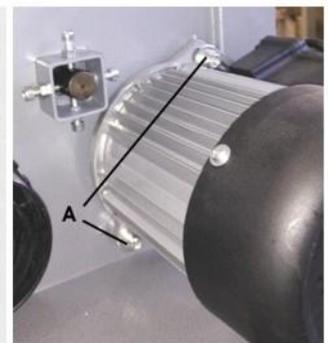
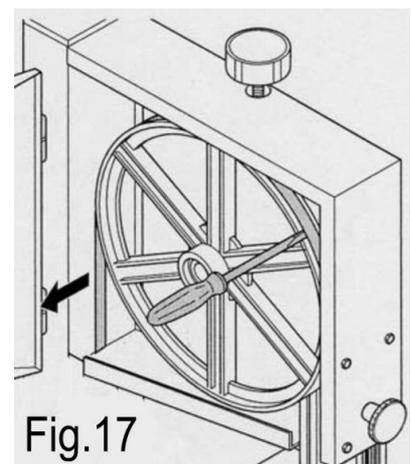
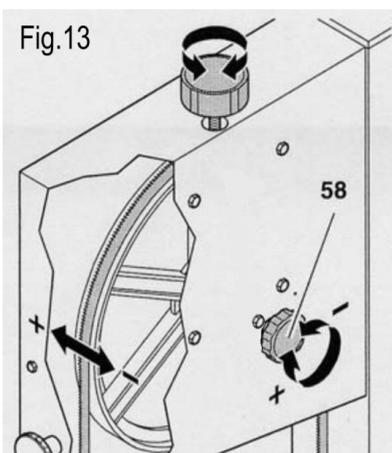
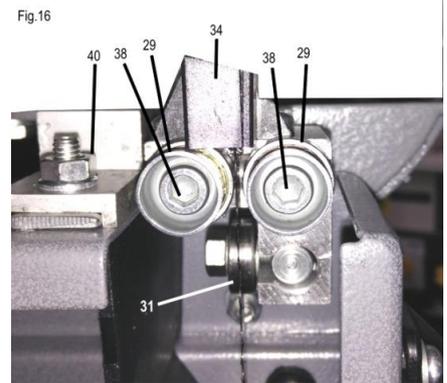
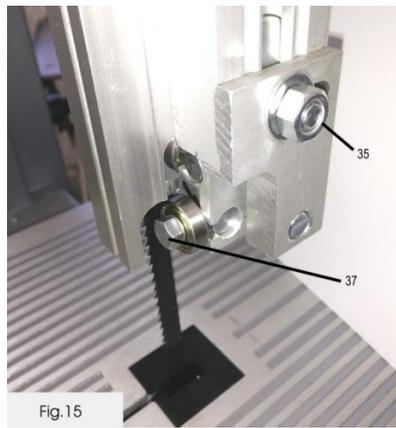
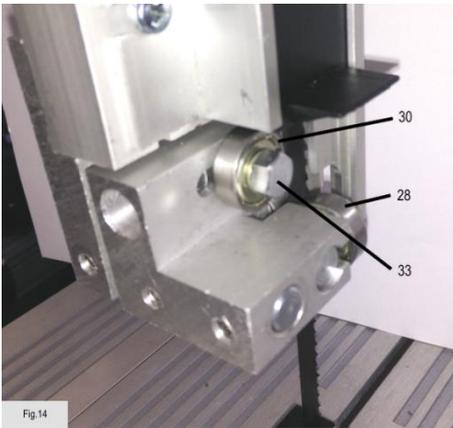
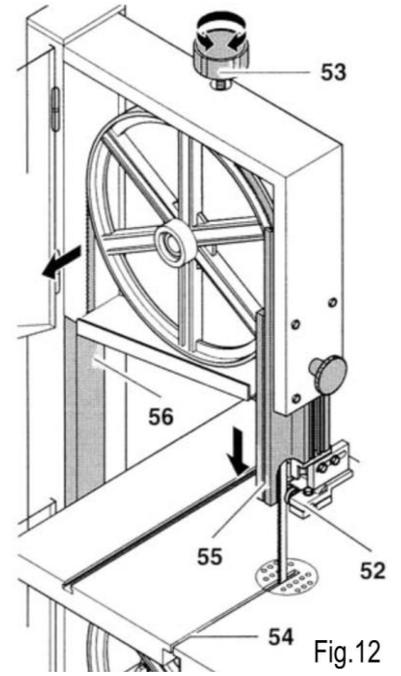
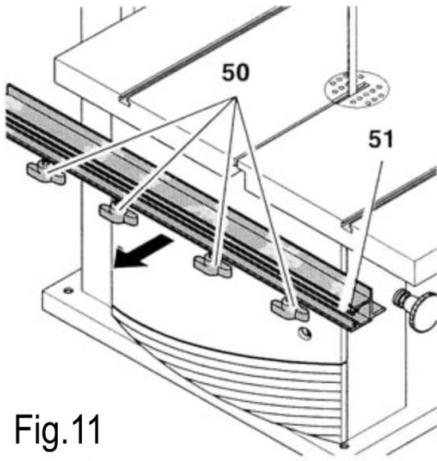


Fig.10





BANDSAW

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SAFETY INSTRUCTIONS

CAUTION:

Besides following the instructions mentioned in this manual, when using electric equipment you must always observe all safety precautions to prevent risk of fire, electric shock and personal injury.

Read this instruction manual before use and keep it carefully.

Working with an electric machine can be dangerous if you do not follow suitable safety measures. As for any electric machine with moving parts, the use of a tool entails some risks. If you use the machine as prescribed in this manual, you pay careful attention to the work you are doing, you observe the regulations and you use the suitable personal devices of protection, you can reduce the probability of risk. The possible remaining risks are related to:

- 1 – direct or in direct contacts with electrical shock
- 2 – injuries due to contact with moving parts
- 3 – injuries due to contact with angular parts
- 4 – injuries due to the ejection of tool parts or of the material you are processing
- 5 – injuries due to noise

The probability of risk can be reduced by the machine safety equipment of the machines, as for example the protections, the blade case, the clamping, the stoppage and the personal protection devices as protective goggles, the dust mask, ear plugs, protective shoes and gloves. However, even the best protection devices cannot protect you from the risks due to lack of good sense and attention. Have always good sense and observe the necessary precautions. Carry out only the works that you consider safe. **DO NOT FORGET:** everyone is responsible for his safety.

This tool has been designed for specific purposes. We recommend you not to modify it or use it for purposes different from the ones for which it has been manufactured. If you have any doubts regarding specific applications, do not use the machine before having contacted us and received our instructions.

READ AND KEEP THIS MANUAL

GENERAL SAFETY INSTRUCTIONS

1. **Keep the work surface clean.** If the work area or surface is busy the probability of injuries is higher.
2. **Do not use** the machine in dangerous environment conditions. In order to prevent electric shock, **do not expose the machine** to rain and do not use it in a damp area. Keep the work area illuminated. **Do not use the machine** near gas or inflammable substances.
3. **Connect** the dust collection device. If the machine is provided with a dust collection device, make sure that this system is connected and correctly used.
4. **Keep** unknown persons and children away from the machine. All unknown persons and children must keep a safe distance from the work area.
5. **Protect yourself** from electric shock. Avoid any contact with earthing surfaces.
6. **Handle** the power supply cable with care. **Do not pull** the electric cable to disconnect it from the plug. Keep the electric cable away from heat, oil and sharp edges.
7. **Use** extension cables designed for outdoor use. When using the machine outdoors, use only extension cables suitable for outdoor use, having specific indications.
8. **Be vigilant.** Check carefully what you are doing, have good sense. Do not use the machine if you are tired.
9. **Do not use** the machine if you have taken medicines, alcohol, drugs.
10. **Avoid** accidental starts. Be sure that the switch is on the OFF position before inserting the plug into the socket.
11. **Wear appropriate clothing.** Do not wear loose-sleeved garments or pieces of jewellery which may get caught in the moving parts. For outdoor use we recommend non-slip shoes. Use headgear to cover hair if necessary.
12. **Use always personal protection devices:** wear protective goggles and masks in case dust or sawdust is produced. Wear ear muffs or plugs in noisy areas. Wear gloves when handling parts with sharp edges.
13. **Do not be off balance** over the machine. Always keep stand firmly.
14. **Ask** for advice to expert and qualified people if you are not familiar with using such a machine.
15. **Remove** the tools you do not use from the workbench. If you do not use the tools, you must arrange them in a dry area which is locked and away from the reach of children.
16. **Do not force** the machine. You can obtain better and safer results if you use the machine at the cutting pressure for which it has been designed.
17. **Use** the suitable tool. **Do not use** a small tool for an intensive job. For example, do not use a circular saw to cut branches or stumps.
18. **Block** the piece. If possible, use C-clamps or a holder to fix the piece. It is safer than using only your hands.
19. **Keep** the tools in perfect conditions. Keep the tools sharp and clean to obtain better and safer results. Follow the instructions to grease and change the accessories. Check regularly the electric cable and change it if it is damaged. Keep the handles and the handgrips dry, clean, unoiled and ungreased.
20. **Disconnect** the tool from electricity if you do not use it, before maintenance and change of the accessories or tools such as blades, drills, mills, etc.
21. **Remove** locking and adjustment wrenches from the workbench. Get used to check if the locking and adjustment wrenches have been removed before starting it.
22. **Check** the parts of the tool to verify that there are not any damages. Before using the machine, check if the safety devices or any other parts are damaged in order to be sure that it works properly and that it can accomplish the tasks for which it has been designed. Check that the moving parts are aligned, do not stop and are not broken. Check the assembly and any other condition that can influence the functioning of the machine. Any part or protection damaged must be repaired or changed from an authorised after sales centre. Do not use the machine if the switch does not work properly.

23. **Use** the machine, the tools and accessories in the way and for the purposes mentioned in this manual. Different uses and parts can cause possible risks for the operator.
24. **Get the machine repaired** by a qualified person. This electric tool is in compliance with local safety regulations. The machine must be repaired only by qualified people who use original spareparts, otherwise risks may arise for the operator.

SPECIFIC SAFETY INSTRUCTIONS FOR BANDSAWS

1. **ALWAYS DISCONNECT** the bandsaw from the socket before any repair, maintenance or cleaning task and while changing the blade.
2. **DO NOT USE** the bandsaw until it is not completely assembled or installed according to this instruction manual.
3. **START** the bandsaw only after removing any object (tools, waste material, etc.) from the workbench.
4. **NEVER START** the bandsaw when the blade is in contact with the workpiece.
5. **START** the bandsaw only after ensuring that the two doors are perfectly closed.
6. **MOVE** the upper guide the nearest to the workpiece.
7. **CHECK** that the blade guides and blade support bearings are correctly adjusted.
8. **ENSURE** that the blade is correctly tightened and that the teeth point downwards.
9. **CHECK** that the dimensions and the kind of blade are suitable to the work you must carry out.
10. **DO NOT TRY** to cut a piece which has not any plane surface if you do not have a suitable support.
11. **PRESS** the piece firmly to the bench and push it at a moderate speed.
12. **STOP** the machine if it rejects the workpiece before it is completely cut.
13. **STOP** the bandsaw to remove the stuck pieces or waste material on the workbench.
14. **DO NOT CUT** too small pieces that cannot be safely blocked.
15. **CARRY OUT** lightening cuts on the piece when you must do curved cuts.
16. **NEVER CARRY OUT** any preparation, assembly or adjustment tasks on the workbench when the bandsaw is switched on.
17. **KEEP** always your hands and fingers far from the blade.
18. **ALWAYS WEAR** protective goggles.
19. **AVOID** uncomfortable positions in which your hands risk to slide or get in touch with the blade.
20. **DISCONNECT** the machine, clean the workbench and lower the upper protective cap before moving away from the machine. In case of long periods of inactivity loosen blade's tension.
21. **CHANGE** missing or damaged parts. Do not use the bandsaw if its parts do not perfectly work.
22. **REGULARLY CHECK** if the supply cable is damaged, in that case get it repaired by an authorised after-sales centre. Check regularly the extension cables and replace them if they are damaged.

ENVIRONMENT PROTECTION

INFORMATION FOR USERS

“Implementation of Directives 2011/65/UE 2012/19/UE, relative to reducing the use of hazardous substances in electric and electronic appliances and the disposal of waste”, please take note of the following:

- The crossed out wheelie bin symbol found on the appliance or the packaging indicates that the product must be disposed separately from ordinary household waste when it reaches the end of its working life.
- The user must consign the unwanted appliance to an authorised waste disposal centre for electric and electronic goods, or alternatively, hand it over to the relative dealer at the moment of purchasing a new appliance of the same type on a basis of a one to one ratio.
- Differentiated disposal to enable possible recycling or environmentally compatible elimination of the appliance, helps to limit undesirable effects on health and environment and promotes the reuse and/or recycling of the materials that compose the appliance.

WARNING!

In accordance with the relative legislation in force in the country of use, sanctions will be imposed on the user if the appliance is disposed of illegally.



SYMBOLS

The following symbols can appear on your machine or in this instruction manual. Their meanings are specified below:



Always wear protective goggles to avoid any spurts during the use of the machine.



Read and understand the instruction manual before use.



Always wear a dust mask if the operation produces dust.



Always wear ear protective devices which protect you from noise while using the machine.



Product in compliance with relative CE regulations.

ANNO DI COSTRUZIONE

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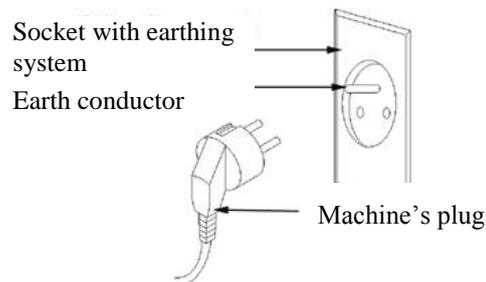
Serial number / year of production

ELECTRICAL CONNECTION

ELECTRICAL CONNECTIONS

Use 230 V 50 Hz alternate voltage equipped with a earthing conductor to supply your machine. Ensure that the power supply corresponds to this voltage, that it is protected by a differential and magnetothermal switch, and that the earthing system is efficient. If your machine does not work when connected to a socket, check carefully the power supply features. Use an extension cable in order to connect the machine to the power supply.

EARTHING INSTRUCTIONS



If the tool does not work properly or in case of short-circuit, the earthing system provides the current with a less resistance path and reduces the risk of electric shock. This tool has a plug to which a supply or extension cable must be connected, which in turn must be connected to a socket correctly installed and earthed, in conformity with local standards and regulations. Be sure that your earthing system is in good conditions and that your plug is protected by a differential and magnetothermal switch.

Do not modify the plug of the machine. If it does not enter the socket, get a suitable plug installed by a qualified person. If the earthing conductor is not correctly connected the risk of electric shock can occur. The conductor which has the green insulating jacket (with or without a yellow line) is the earthing conductor. If you must repair or change the supply cable, do not connect the earthing conductor to a low tension terminal.

Consult a qualified electrician or a person in charge of the maintenance if you have not understood or you have some doubts on the earthing instructions.

If the supply cable is damaged it must be changed by qualified people. Do not switch on the machine if the supply cable is damaged.

This tool is provided with a plug which must be connected to a suitable socket.

EXTENSION CABLES

Only use three conductors extension cables, with a plug with two plugs and a earthing contact and sockets with two holes and a earth corresponding to the plug of the tool. When using an electric tool at a remarkable distance from the power supply, use an extension cable with sufficient dimensions to transport the current which the tool needs. If the extension cable has not the sufficient dimensions a voltage drop can occur, thus causing an overheating and a voltage loss. You can only use extension cables which are in compliance with CE standards.

Extension cable length: up to 15 m

Cable dimensions: 3 x 2,5 mm²

Before using any kind of extension cable, check that it has not bare wires and that the insulation is not cut or worn. Repair and change immediately it if it is damaged or worn.



WARNING:

Extension cables must be arranged away from the working area in order that they do not get in touch with the workpieces, the tool or other parts of the machine, thus creating possible risks.



WARNING:

KEEP THE TOOLS AND THE EQUIPMENT AT A SAFE DISTANCE FROM CHILDREN

RECOMMENDED USE

This bandsaw has been manufactured for cross cutting and trimming of plastics, wood. Maximum cutting height is 120 mm with the workbench at 0°. The workbench can be inclined up to 45° to angle cut.

TECHNICAL SPECIFICATIONS

Engine power:	420 W
Voltage and frequency:	230 V – 50 Hz
Blade rotational speed:	660/960 m/min
Blade's length:	1790 mm
Blade's width:	6 - 13 mm
Gooseneck:	244 mm
Maximum cutting height:	120 mm
Workbench inclination capacity:	from 0° to 45°
Workbench dimensions:	290x290 mm
Weight:	30 kg

NOISE CONDITIONS

The noise emitted, measured in conformity with the standards EN 3744 and EN 11201 is:

- Sound pressure level $L_{pA} = 92,7 \text{ dB(A)}$ with load
- Sound power level $L_{WA} = 102,3 \text{ dB(A)}$ with load
- Uncertainty of measurement $K = 3 \text{ dB}$

We recommend you to use ear protection devices.

The sources of the noise of the saw are: the electric engine and its ventilation system, the blade and the material to be cut.

We advise you to control the engine, its ventilation system and the aspiration passages. As far as the saw blade is concerned, it is preferable to use silenced type of blades and to keep them in good conditions. We recommend to use the correct saw blade and to keep firmly the workpiece to be cut.

Noise levels are emission levels and do not necessarily indicate safe working conditions. Even if there is a connection between emission levels and exposure levels, the first ones cannot be used to determine safely if other precautions are necessary. The factors that can influence the actual exposure level of the operator include exposure length, environment features and other sources of noise, as for example the number of machines and operations present. Besides, exposure levels can change from country to country. However, these instructions enable the user of the machine to better evaluate the dangers and risks.

REMOVAL OF PACKAGE

Your bandsaw is delivered complete in a package. Remove carefully the table saw and all the parts from the packaging, check if there are any missing or damaged parts.

If you find any faulty or damaged parts do not use them in order not to endanger the efficiency and the safety of the machine. To change faulty parts consult an after sales centre.

To make the table saw perfectly work you must assemble the various parts, for which you can find a detailed explanation later on.

We recommend you to read carefully the assembly instructions and to follow them to the letter. The following photo illustrates the bandsaw and all the parts included in the packaging.

List of parts included in the package:

- One bandsaw complete with blade (assembled)
- One workbench
- One sliding rail for the rip fence
- One rip fence
- One coupling for a dust collection device
- One pusher
- 4 legs
- 8 bars
- Various nuts and bolts

Front side of the machine FIG.1

1. Door of the upper flywheel
2. Knob for the adjustment of bandsaw's tensioning FIG.5
3. Blade's upper flywheel
4. Knob locking for the protection blade
5. Protection
6. Bandsaw's saw blade
7. Workbench
8. Guiding rail with graduated scale
9. Lower flywheel
11. Rip and trimming fence
12. Door of the lower flywheel
13. ON / OFF switch

Back side of the machine FIG.1

14. Knob for the adjustment of the upper flywheel
15. Motor
16. Base
17. Dust collection sleeve
- 18.
19. Bench inlay

ASSEMBLY OF THE SAW BLADE



WARNING

Do not start the bandsaw before fastening the machine, assembling and adjusting the workbench, checking belt tension and safety devices. Only after performing these tasks you can connect the saw to the power supply. Otherwise the bandsaw could start suddenly and cause personal injuries.

This machine is delivered almost completely assembled. Before use you must:

- I. Fix bandsaw's base
- II. Assemble the workbench
- III. Assemble the fence's rail
- IV. Assemble the fence
- V. Connect the dust collection device

I. Bandsaw fastening

The bandsaw can be fastened to a surface or assembled on the four legs that are included in the package. If you want to fix it on a surface:

1. Drill 4 holes on the surface on which you want to fix the bandsaw, while taking into consideration the base of machine.
2. Use 4 locking devices suitable with the surface and fix the saw.

If you want to use the legs and the bars included in the package, put the machine on its side and:

1. Assemble the 4 legs to bandsaw's blade with 8 screws and the corresponding nuts and washers.
2. Assemble the 8 bars with the screws and the washers.
3. Straighten up the bandsaw.
4. Firmly tighten all the screws.
5. Assemble the two wheels on the two left legs, to make the transport easier.

II. Workbench assembly FIG.2

A. Horizontal adjustment of the workbench

1. Raise the protective cap completely.
2. Check saw blade's tension and adjust it if it is loose.
3. Loosen the lock screw (37).
4. By using a square, place the workbench at a right angle with the blade and tighten the locking screw firmly (37).

III. Assembly of fence's rail FIG.3

Fix fence's rail (40) on the workbench with 4 wing screws and with washers.

IV. Assembly of the rip fence FIG.4

The rip fence can be assembled on the left and on the right of the saw blade. You can lock the guide by lowering the lever (A).

V. Connection of the dust collection device



DANGER!

The dust of certain kind of wood, as for example oak, beech or ash-tree has been proved to be especially dangerous for human health. We recommend you to work outdoors, to use an efficient dust collection device and personal safety devices as for example dust masks.

In the bandsaw there is a coupling to which you can connect the pipe of an external dust collector to extract the dust and wood shavings.

We recommend you to always connect a dust collector when processing wood and to use a dust mask.

If you do not have a dust collector, we recommend you to work outdoors, with a dust mask and for short periods of time.

You must periodically remove wood shavings piling up inside the bandsaw and in the pulley's compartments.

PROTECTION OF THE BLADE

I. Upper protection of the saw blade FIG.6

The upper protection of the saw blade (20), which is an integral part of the group including also the upper blade guide, prevents any unintentional contact with the blade and protects you the ejection of the shavings. You must always place the upper protection of the blade about 3 mm far from the workpiece in order to ensure the maximum safety degree.

Upper blade guide's height (48) 1 must be adjusted:

- before any cutting, in order that it is adjusted according to workpiece's height;
- after any modification of the saw blade or of the workbench (for example, after changing or tensioning the saw blade, or after adjusting the workbench).

The upper blade guide with its protection (48) is locking of a knob (49). To adjust the height of this blade guide, grip the blade guide with the left hand, unlocking knob (49) to adjust the height of the upper blade guide in the desired position. Locking knob (49).

II. Saw blade's lower protection FIG.6

Saw blade's lower protection (21) prevents from any unintentional contacts with the blade. This protection must be moved when you open the lower door. When you close this door this protection must be replaced in its position to not to compromise general safety. Saw blade's lower protection must be always assembled when you are using the machine.

III. Flywheels' doors FIG.6

By opening the doors (22) you can get at the flywheels-pulleys to change the blade, remove the sawdust which has piled up, change the speed by moving the belt on the pulleys. When using the machine, these doors are safety devices that isolate moving parts that could be dangerous.

To open and close the doors, give the locking devices a quarter of a turn by using a suitable flat screwdriver.

IMPORTANT:

Bandsaw's two doors must be always closed when the machine is in use. It is forbidden to start the machine if these two doors are open.

FUNCTIONING



WARNING!

Before performing any adjustment or maintenance task and before changing the blade you must switch off the machine, disconnect it from the power supply and wait for the saw blade to stop.



CAUTION

Connect the bandsaw to the electrical energy and start it only after checking that the machine is fastened, that the workbench is assembled and adjusted, that saw blade tensioning is correct and that all safety and protection devices are perfectly efficient.

I. ON / OFF switch FIG.7

- Start = push the green button (25).
- Stop = push the red button (26).

In case of an interruption of the electrical energy, a "minimum voltage" relay inside the switch stops the machine. This prevents from the start of the machine when the electrical energy recovers. You must press the green button to re-start the saw that has stopped.

II. Saw blade's tension FIG.8



WARNING!

A too high tension can break the saw blade. If the tension is too low, the saw blade can slip from the driving wheel and stop.

Saw blade's tension must be adjusted according to the different width of the saw blades in order to obtain a correct alignment, efficiency and suitable life's length.

- Lift the upper blade guide completely.
- To check blade's tension, push sideways the saw blade, in the middle between the workbench and the upper blade guide: the saw blade must bend on its side from 1 to a maximum of 2 mm.
- If necessary, adjust saw blade's tension:
 - turn the handle 28 clockwise to increase the tension;
 - turn the handle 28 anti-clockwise to reduce the tension.

III. Knob for the adjustment of the blade's position FIG.9

To work correctly the saw blade must be centred on flywheel rubber coatings. If it is not aligned you must modify upper flywheel's inclination. By using the knob (29) you can modify the inclination of the flywheel and thus:

- Turn the knob clockwise to move the blade backwards.
- Turn the knob anti-clockwise to move the blade forwards.

To lock upper flywheel's inclination, tighten the plastic wing screw located under the adjustment knob.

IV. Speed adjustment FIG.10

By moving the belt on the engine and flywheel pulleys you can use the bandsaw at two different speeds.

Inside the lower door there are some instructions explaining how to place the belt to obtain two different speeds.

1. Open the lower door with a screwdriver.
 2. Loosen the screws motor indicated
 3. Loosen the belt by turning the motor unclockwise.
Move the belt on the desired position, tighten the belt again and close the lower door by using a screwdriver.
- SMALL ENGINE PULLEY – LARGE FLYWHEEL PULLEY: blade speed 660 m/min, suitable for hard wood types, plastics and metal materials (by using a suitable saw blade).
 - LARGE ENGINE PULLEY – SMALL FLYWHEEL PULLEY: blade speed 960 m/min for all soft wood types.

Caution!

Do not place the belt obliquely, since it would suffer damages.

V. Adjustment of workbench's inclination FIG.2

The workbench can be moved from 0 and 45°. To move it, loosen the lock screw (37), move the workbench to the desired angle and tighten the screw (37).

VI. Rip fence FIG.4

The rip fence (33) can be assembled both on the left and on the right of the saw blade. Choose the position by using a graduated scale, place the guide and lock it by lowering the front lever A.

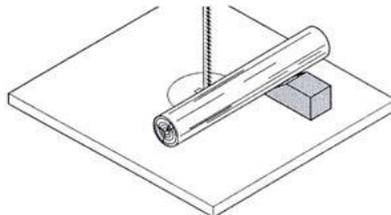
VII. Cutting



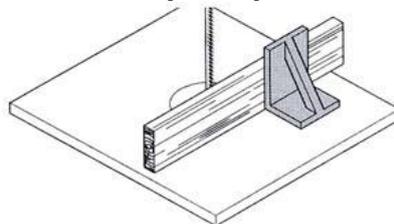
DANGER!

To reduce the risk of injuries, respect the following safety regulations during any kind of processing:

- use personal safety equipment;
- saw only one piece at a time;
- when cross cutting, always press the workpiece against the workbench;
- do not slow down the saw blade by exerting a side pressure on it;
- For all kinds of work and according to your necessities always use:
 - + a pusher if the distance between the rip fence and the saw blade is less than or equal to 120 mm;
 - + a support surface for long pieces if they risk to fall from the workbench after being cut;
 - + a dust collection device;
 - + a suitable locking device, in order that the piece cannot rotate crosswise.



- + a square with suitable stops to prevent the piece from bending.



Maintain a correct working position when using the machine (saw blade's teeth must point towards the operator and downwards).

Do not pile the pieces to cut them. If they get caught by the blade uncontrollably risks may arise for the operator.

Never cut pieces fastened with ropes, strings, cables or wires, or containing these materials.

1. Be sure of the perfect conditions of the saw blade and of the protection devices.
2. If necessary, adjust workbench's inclination.

3. Place the rip fence according to the type of cutting you want to carry out, or choose the outline of the support for the piece to be cut.
4. Position and lock the upper blade guide at a distance of 3 mm over the workpiece.
5. Select blade speed.
6. Before starting working, do a shear test on a piece.
7. Connect the bandsaw to the power supply and switch on the machine.
8. Place the piece on the workbench.
9. Cut one piece at a time.
10. Once you have finished cutting, switch off the machine, disconnect from the power supply and clean it.

ASSEMBLY OF THE BLADE AND ADJUSTMENTS

I. Replacement of the saw blade FIG.11 – 12



DANGER!

Before performing any adjustment or maintenance task and before changing the blade you must switch off the machine, disconnect it from the power supply and wait for the saw blade to stop.



DANGER!

The risk of cut exist also when the saw blade is still. When changing the saw blade, wear protective gloves. Use only suitable blades.

1. Loosen the 4 wing nuts (**50**) and remove the rail of the rip fence (**51**).
2. Open the two doors with a screwdriver.
3. Place the upper blade guide (**52**) in its lowest position.
4. Turn the adjustment knob (**53**) until when the saw blade is loose.
5. Remove the saw blade and let it pass through the bench hole, the upper and lower blade guides.
6. Insert a new blade. Pay attention to the position of the blade: teeth must point towards the operator and downwards.
7. Place the blade in the middle of flywheels rubber coatings.
8. Turn the tensioning knob clockwise to tighten the saw blade.
9. Close the two doors.
10. Then:
 - adjust the saw blade if necessary;
 - adjust the blade guides;
 - let the blade turn for at least a minute;
 - switch off the machine, remove the plug from the socket and check the adjustment of the blade guides

II. Adjustment of the saw blade FIG.13

The saw blade must be perfectly centred on the rubber coatings of the flywheels. If it is not the case, you must change the upper flywheel inclination:

1. Loosen the lock nut (57).
2. Turn the adjustment screw (58):
 - Turn the adjustment screw (58) clockwise when the saw blade tends to move frontally.
 - Turn the lock screw (58) anti-clockwise when the saw blade tends to move backwards.
3. Tighten firmly the lock nut (57).

UPPER SAW BLADE GUIDE ADJUSTMENT FIG.14 - 15

Upper saw blade guide is composed of :

- a support bearing (30) Fig.14 (which support the blade from the back),
- two wheels (28) Fig.14 (which guide the blade sideways).

The support bearing and the side wheels must be adjusted each time the blade is replaced or adjusted.



Note: Check regularly if the wheels are worn out, and if necessary, replace them both at the same moment.

Loosen screw (33) Fig.14 to free support bearing (30) in order that there is a gap of maximum 0,5 mm between it and the saw blade.

1. Tighten screw (33).
2. Loosen hex head screw (35) Fig.15.
3. Move the part (36) in order that the wheels (28) are about 1 mm behind teeth's base.
4. Tighten firmly screw (35)
5. Loosen hex head screws (37).
6. Push the two wheels (28) in the direction of the saw blade until they come in contact with the saw blade (saw blade musn't get stuck).
7. Tighten hex head screws (37).
8. Make the upper wheel rotate clockwise by hand in order to place the wheels correctly (they must touch lightly the saw blade).

LOWER SAW BLADE GUIDE ADJUSTMENT FIG.16

Lower saw blade guide is composed of :

- a support bearing (31) Fig.16 (which support the blade from the back),
- two wheels (29) Fig.16 (which guide the blade sideways).

The support bearing and the side wheels must be adjusted each time the blade is replaced or adjusted.



Note: Check regularly if the wheels are worn out, and if necessary, replace them both at the same moment.

1. Disassemble the workbench (7) Fig.1.
2. Move the saw blade protection (34) backwards.
3. Lower support bearing adjustment can be carried out by following the same instructions regarding upper support bearing adjustment.

The two support bearings (30) and (31) Fig.9 support the saw blade (26) only during cutting operations. When the machine works in no-load condition, the saw blade mustn't touch the ball bearings.

4. Loosen hex head screw (40)
5. Move the part (49) in order that the wheels (29) are about 1 mm behind teeth's base. Tighten firmly screw (40).
6. Loosen hex head screws (38) .

7. Push the two wheels (29) in the direction of the saw blade until they come in contact with the saw blade (saw blade musn't get stuck).
8. Tighten hex head screws (38).
9. Make the upper wheel (7) rotate clockwise by hand in order to place the wheels correctly (they must touch lightly the saw blade).
10. After finishing adjustment operations, close the saw blade protection (34).



DANGER!

Before performing any adjustment or maintenance task and before changing the blade you must switch off the machine, disconnect it from the power supply and wait for the saw blade to stop.

I. General regulations

In case you find out any damage to the protection devices or irregularities while processing or checking the machine, you must get it repaired immediately by qualified persons. Before use check that the protection and safety devices are perfectly efficient. After carrying out the work, make a general cleaning of the machine by removing dust and chips.

Do not use any thinner to clean plastic pieces. Most of the kinds of plastic risk to get damaged by commercially available thinners. Use a clean cloth to remove impurities, dust, etc.

Extract periodically sawdust that can pile up inside the machine by opening the two doors. Clean also the ventilation inlets of the engine.

Be sure that the protective cap can slide freely.

Periodically check the tensioning and the conditions of the belt.

Periodically check the conditions of the flywheels' coatings.

Periodically check bench inlay's conditions.

II. Replacement of the flywheels' coatings FIG.17

Regularly check the flywheels' coatings and if necessary change both of them:

1. remove the saw blade (see previous paragraphs);
2. let a small screwdriver slide under the coatings and remove them;
3. place the new plastic coatings and re-assemble the saw blade.

III. Replacement of the bench inlay

The bench inlay must be changed when the hole for the passage of the blade is damaged.

1. remove the bench inlay (**80**) from the workbench by pushing from below.
2. Insert a new bench inlay.

MALFUNCTIONS



DANGER!

Before performing any tasks after a failure:

- **Switch off the machine.**
- **Remove the plug from the socket.**
- **Wait for the saw blade to stop.**

After any intervention, replace all safety devices and check them.

The engine does not work

A possible tension reduction has made the minimum voltage relay start.

- Re-start the machine.

There is not any supply voltage:

- Check the cable, the socket and the switch.

Saw blade moves away the cutting line or decentralizes itself

The saw blade is not centred on the driving wheel:

- Modify the upper flywheel inclination (see par. "Adjustment knob").

The saw blade has broken

Saw blade tension is unsuitable:

- Adjust saw blade's tension (see par. "Saw blade tension").

The forcing is too high:

- Reduce the pressure exerting against the saw blade.

The saw blade is inadequate:

- Change the saw blade (see par. "Replacement of the blade"):
 - If you must cut a thin workpiece, you must use a thin saw blade.
 - If you must cut a wide workpiece, you must use a wide saw blade.

The saw blade is misshapen

The forcing is too high:

- Do not force sideways on the saw blade.

The saw blade stops

The forcing is too high:

- Reduce the pressure you are exerting on the workpiece.
- Check the sharpness and the kind of blade.

Machine vibrations:

Insufficient fastening:

- Firmly fasten the bandsaw to the ground (see par. "bandsaw fastening")

The workbench is loose:

- Place the workbench and fix it. (see par. "assembly of the workbench")

The motor is loose:

- Check the lock screws and tighten them if necessary.

The aspiration coupling is obstructed

No dust collection device is connected or the aspiration leg is too small.

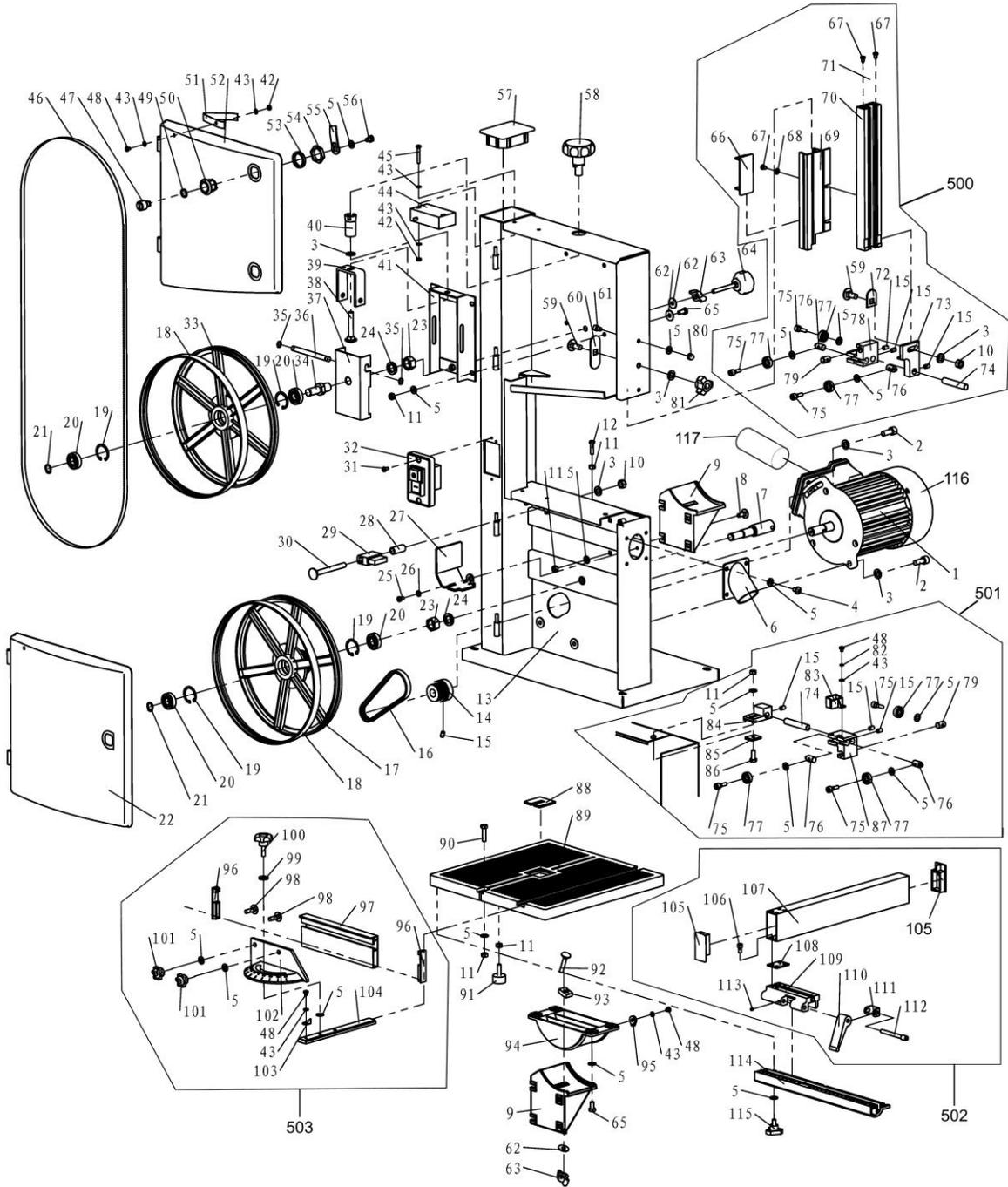
- Connect the dust collection device or increase aspiration power (air speed ≥ 20 m/sec at the degree of the dust collection coupling).

AFTER SALES SERVICE

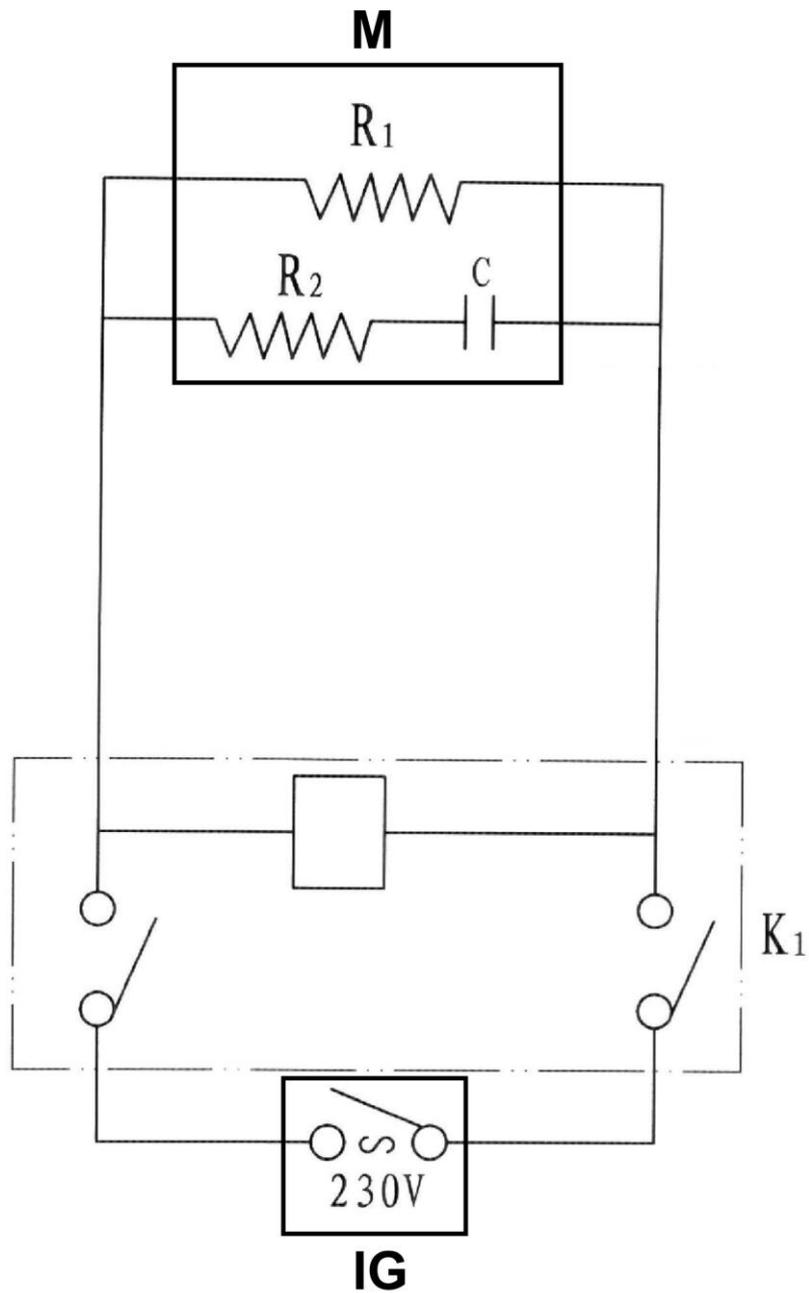
All the tools and accessories are made and checked by using the safest and most modern productive methods. However, if a tool gets damaged, it must be repaired by an authorised after sales centre.

You can sending a request to the e-mail address info@fox-machines.com.

EXPLODED VIEW



WIRING DIAGRAM



- M: Motore, Motor, Moteur, Motor, Motor, Moottori
IG: Interruttore generale magnetico, Magnetic main switch,
Interruteur général magnetique, Interruptor general
magnetico, Interruptor general magnético, Magneettinen kytkin
K1: Micro interruttore, Microswitch, Microinterrupteur, Microinterruptor,
Microinterruptor, Mykrokytin

DECLARATION OF CONFORMITY

in accordance with EU Directive 2006/42/EC, Annex II, Part A

FEMI SpA

Via del Lavoro, 4

40023 Castel Guelfo - (BO) ITALY

hereby declares that the machine:

VERTICAL BANDSAW Art: F28-186A

manufactured in: (see label)

conforms to the provisions of Machinery Directive 2006/42/EC and all provisions of implementation.

furthermore it also conforms to the following provisions and relative implementation; 2006/95/EC, 2004/108/EC, 2011/65/UE,2012/19/UE.

EN 61029-1/A11:2010,EN 61029-2-5:2011

EN 55014-1/A2:2011

EN 55014-2/A2:2009

EN 61000-3-2/A2:2009

EN 61000-3-3:2008



Castel Guelfo (BO) Italy 28/10/2015

Il Presidente del Consiglio

The Director

*FEMI S.p.A.
Il Presidente del Consiglio
Maurizio Casanova*



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