

WARNING! PLEASE, READ BEFORE USING.

MANUAL AND WARRANTY



HIGH FREQUENCY

TOOLS

TECMAF[®]
soluções em spindle

SPECIFIC SAFETY RULES FOR POWER TOOLS


Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury. The term “power tool” in all of the warnings listed below refers to your mains operated (corded) power tool.

TECMAF HIGH FREQUENCY GRINDERS WARRANTY: 06 (SIX) MONTHS FROM THE DATE OF SHIPMENT

1. Keep work area clean and well lit. Cluttered and dark areas invite accidents.
 - 1.1 Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
 - 1.2 Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.
2. Electrical Safety
 - 2.1 Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
 - 2.2 Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
 - 2.3 Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
 - 2.4 Never use the tool with a damaged mains cable. Using the tool with a damaged cable can lead to an electrical shock, risk of fire, or serious injuries.
 - 2.5 Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
 - 2.6 When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.
3. Personal safety
 - 3.1 Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
 - 3.2 Use safety equipment. Always wear eye protection. Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

- 3.4 Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- 3.5 Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- 3.6 Always hold the tool so that the sparks are projected in the opposite direction to the user.
- 3.7 Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
- 3.8 At the time of work, move the tool forward and backward using moderate pressure. You get a better performance according to an inclination of 30° to 40° of the disc diameter in relation to the piece.
- 3.9 If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of these devices can reduce dust related hazards.

4. Power Tool Use and Care

- 4.1 Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
 - 4.2 Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
 - 4.3 Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
 - 4.4 Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
 - 4.5 Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
 - 4.6 Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
 - 4.7 Use the power tool, accessories and tool bits etc., in accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.
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ACCESSORIES

1. Make sure that the accessories are in perfect condition.
2. For exchange of grinding wheels, use keys provided by manufacturer.
3. Always use protective cover for the type of grinding wheel used. The protective cover must be fixed firmly in the power tool, so that it reached a maximum of security, namely that a minimum amount of wheel exposed towards the operator.
4. Always use flange and nuts with correct size, undamaged for your selected grinding wheel.

SPECIFIC SAFETY RULES FOR STATIC CONVERTER

Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

Static Converters are electronic power transducers that serve exclusively for supplying voltage to three-phase asynchronous motors. The operation of equipment other than that approved by TECMAF is not allowed. With the operation of other equipment, danger to life exists as the result of electrical shock and the equipment could be destroyed.



TECMAF SINGLE STATIC CONVERTER WARRANTY: 12 (TWELVE) MONTHS FROM THE DATE OF SHIPMENT

1. Route the mains cable to the rear away from the Static Converter. Do not damage the cable by driving over, crushing, or pulling it. If the cable is damaged while working, do not touch it. Pull the mains plug immediately. Never use the Static Converter with a damaged mains cable. Using the Static Converter with a damaged cable can lead to an electrical shock, risk of fire, or serious injuries.
2. Take care that the voltage and frequency of the power supply agree with those on the nameplate of the Static Converter.
3. Plug the mains plug of the Static Converter only into a socket with a protective contact. The Static Converter must be connected exclusively to a properly earthed industrial power distribution network (network type: TN, TT). Industrial networks have their own transformer equipment that delivers the required alternating current.
4. Never touch the mains plug or socket with wet hands. This could lead to an electrical shock.
5. The Static Converter must be secured with a fault current protection device when working in an environment where special protection for persons is necessary. The special protection of persons is required, for example, when working in damp rooms or with materials that can produce current-conducting dust. Not using a fault current protection device can lead to electrical shock, risk of fire, or serious injuries.
6. The fault current protection device should be installed in the power supply network only by a qualified electrician. Only in this manner can flawless functioning be ensured.
7. The Static Converter should not be operated near equipment that produces very strong electrical or magnetic fields. Otherwise, the function of the Static Converter can be degraded.
8. The output voltage and frequency of the Static Converter must agree with those given on the nameplate of the high-frequency tool.
9. Operate the Static Converter exclusively with the tools intended for it. Operation with other electrical equipment can lead to destruction of the Static Converter and the equipment.

10. The safety rules and working instructions for the high-frequency tool being used are to be strictly followed!
11. Use the original cables exclusively! Check the Static Converter, cables, and plugs before each use for possible damage. The cables are not to be repaired but must be replaced.
12. Have maintenance and repair work performed only by qualified specialists. In this manner, it can be ensured that the safety of the tool is maintained.

SYMBOLS

Important notice: Some of the following symbols could have meaning for the use of your tool. Please take note of the symbols and their meaning. The correct interpretation of the symbols will help you to use the tool in a better and safer manner.

Symbol	Name	Meaning
V ; kV	Volt ; Kilovolt	Voltage
A	Ampere	Current
Hz	Hertz	Frequency (cycles per second)
H ; min ; s	Hour ; Minutes ; Seconds	Time
°C ; °F	Degrees Celsius ; Degrees Fahrenheit	Temperature
∅	Diameter	Size of drill bits, grinding wheels, etc.
0	Off position	Zero speed, zero torque
	Protection Class I (Earthing terminal)	Grounding terminal
IP54	Type of protection provided by the housing according to IEC 60529	Equipment with protection class IP 54 is protected against dust and splash water.
	Warning symbol	Alerts user to warning messages. Read and understand instructions before operation.

PUTTING INTO OPERATION

The Static Converter must first be put into operation before the high-frequency tool is switched on.

On/Off Switching of the Static Converter

Switching on: Turn on the on/off switch. The connection to the power network is established. When the green LED indicator lights, the Static Converter is ready for operation.

Switching off: Turn off the on/off switch again. The green LED indicator goes off.

On/Off Switching of the High Frequency Tool

The green LED indicator shows the operational state of the Static Converter. If it is lit, the Static Converter is ready for operation and the high-frequency tool can be put into operation.

When the High Frequency Tool is turned on, the yellow LED indicator lights.

Restarting Protection

If the Static Converter is disconnected from the power supply while working with the high-frequency tool and the on/off switch of the high-frequency tool remains in position On, a restarting protection is activated. The high-frequency tool can be started again only after the on/off switch is first placed in position Off and then again in position On.

MAINTENANCE

1. Disconnect the plug from the power supply before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally. Should the tool fail in spite of careful manufacturing and testing procedures, have the repairs performed by an authorized customer service location for TECMAF power tools. Routinely clean the connection sockets, couplers, and plugs of the tool, after it has been disconnected from the power network, with a dry, lintless cloth and remove dust and dirt particles.
2. Use the original cables exclusively! Check the Static Converter, cables, and plugs before each use for possible damage. The cables are not to be repaired but must be replaced.
3. Have maintenance and repair work performed only by qualified specialists. In this manner, it can be ensured that the safety of the tool is maintained. Any TECMAF customer service center can perform this work quickly and reliably.
4. Dispose of lubricants and cleaning agents in an environment-friendly manner. Comply with the legal regulations.

SERVICE

TECMAF is responsible for the delivery of the tool in accordance with the sales contract within the framework of the legal/country-specific regulations. For claims with respect to the tool, please contact the following location:

Fax: +55 (19) 3463.5087

Web: www.tecmaf.com.br

DISPOSAL

Power tools, accessories, and packaging should be disposed of for recycling in an environmentally friendly manner.

Do not dispose of power tools into household waste!

According to the European Guide Lines 2002/96/EC for waste electric and electronic equipment and its implementation into national law, power tools that are no longer usable must be collected separately and recycled in an environmentally friendly manner.

If your tool can no longer be used, deliver it to a recycling center or return it to a dealer – for example, an authorized TECMAF service center.



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