

Instruction Manual

MAKO Tools™

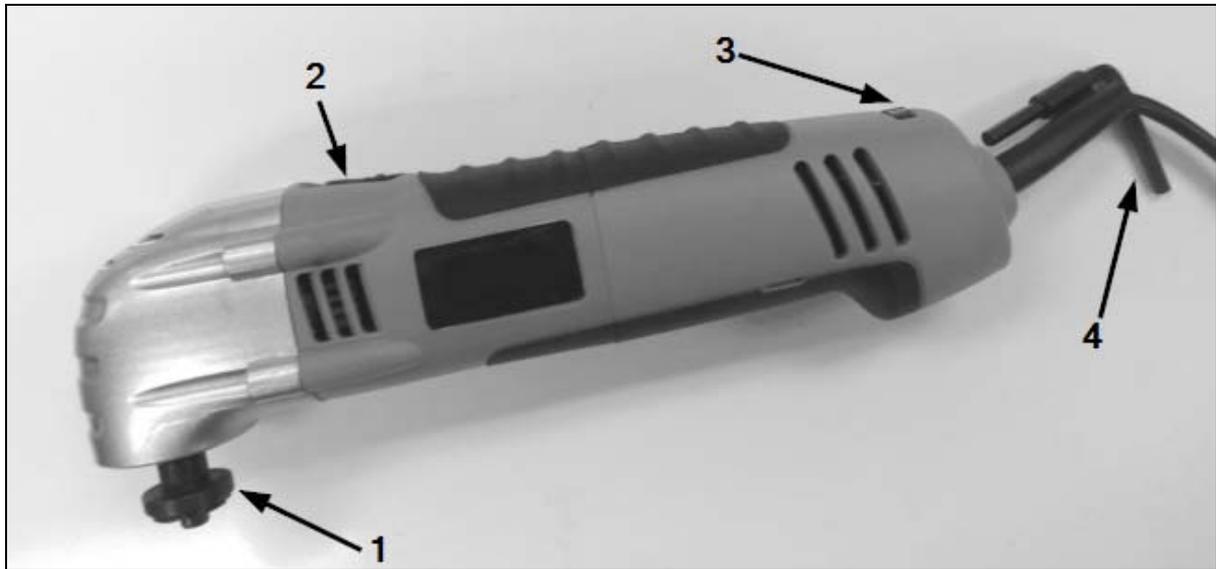
MULTI-FUNCTION TOOL

Model SROM 1179

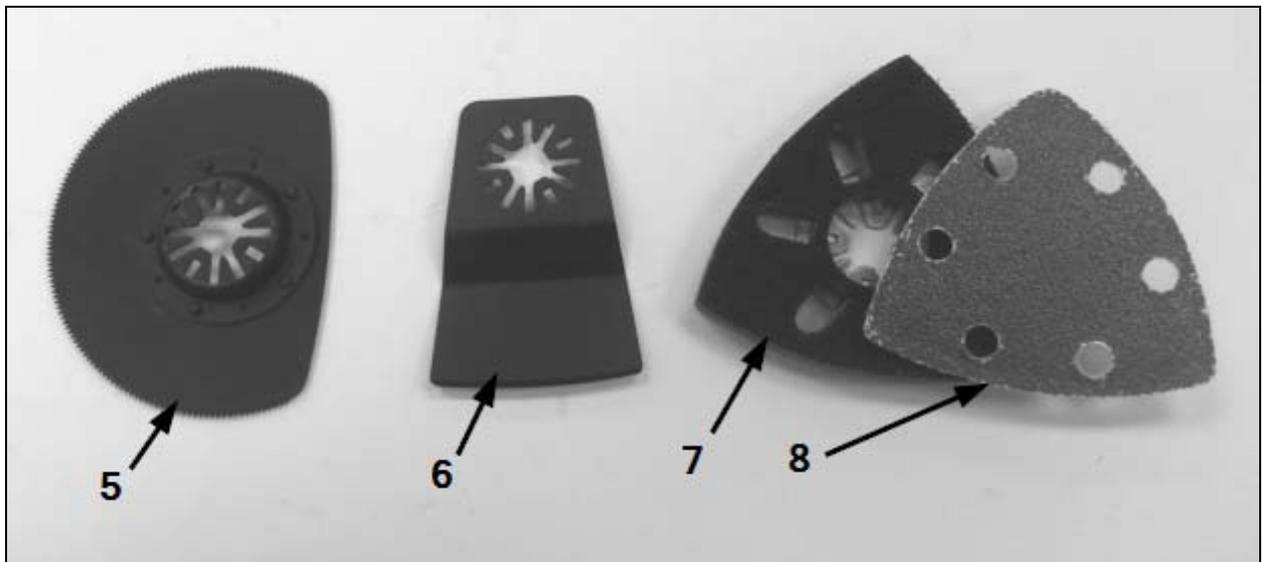


Our tool range has you covered for DIY. Whatever the job, make light work of it with MAKO tools.

Product Features:



1. Mounting Flange
2. ON/OFF Switch
3. Speed Dial
4. Hex Key



5. Circular Saw Blade
6. Scraper Blade
7. Sanding Backing Pad
8. Sand Paper

Dear Valued Customer,

Thank you for purchasing this Mako Power Tool.

We are dedicated to providing quality Mako Power Tools at competitive prices. Whether you are serious about DIY or just a casual user, our range of power tools are perfect for any job.

Mako 2 Year DIY Warranty:

All Mako Power Tools are backed by a comprehensive 2 year DIY warranty. If for any reason you experience a fault with this power tool, please contact the retailer that it was purchased from, present the receipt and warranty card (at the back of the operating manual), for a full refund or replacement. The warranty is void if damage is not attributable to normal wear and tear, if the tool is used commercially, the motor is overloaded or is tampered with, is damaged by accident or if it is bought second hand. Continued use after partial failure, or the use with the incorrect accessories will void the warranty.

This warranty excludes all Mako accessories, which are covered by their own appropriate warranties.

MAKO TOOLS ARE FOR DIY USE ONLY. THEY ARE NOT DESIGNED OR APPROVED FOR INDUSTRIAL OR COMMERCIAL USE.

CONTENTS:

- **General Safety Rules**
 - Work Area safety
 - Electrical Safety
 - Personal Safety
 - Power Tool Use and Care
 - Service
- **Specific Multi-Function Tool Safety Instructions**
- **Mako Multi-Function Tool Operating Instructions**
- **Maintenance & Cleaning**
- **Mako Multi-Function Tool Technical Data**

DESCRIPTION OF SYMBOLS:



Please read all of the safety and operating instructions carefully before using this multitool. Please pay particular attention to all sections of this User Guide that carry warning symbols and notices.

	Observe caution and safety notes!
	Caution - electric shock! Danger to life!
n_0	No-load speed.
V~	AC Voltage
	Wear hearing protection, dust protection mask, protective glasses and protective gloves.
	Keep children away from electrical power tools!
	Protect electrical power tools from moisture!
	Check that the device, mains lead and plug are in good condition!
	Safety class II
	Dispose of packaging and appliance in an environmentally friendly way!

GENERAL POWER TOOL SAFETY WARNINGS:



WARNING Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

1) Work area safety

- a) **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- b) **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.
- c) **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

2) Electrical safety

- a) **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.
- b) **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.
- c) **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- d) **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.
- e) **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.
- f) **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.

3) Personal safety

- a) **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.
- b) **Use personal protective equipment. Always wear eye protection.** Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- c) **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.
- d) **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.
- e) **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- f) **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.
- g) **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of dust collection can reduce dust-related hazards.

4) Power tool use and care

- a) **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.

- b) **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.*
- c) **Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** *Such preventive safety measures reduce the risk of starting the power tool accidentally.*
- d) **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.*
- e) **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.*
- f) **Keep cutting tools sharp and clean.** *Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.*
- g) **Use the power tool, accessories and tool bits etc. in accordance with these instructions, 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.*

5) Service

- a) **Have your power tool serviced by a qualified repair person using only identical replacement parts.** *This will ensure that the safety of the power tool is maintained.*

SPECIFIC SAFETY WARNINGS CONCERNING MULTI-FUNCTION TOOL



WARNING: Contact with or inhalation of harmful /toxic dusts arising from sanding lead-based painted surfaces, woods and metals can endanger the health of operator and bystanders.

- All persons entering the work area must wear an approved mask specially designed for protection against harmful /toxic dusts, in addition to using a dust extraction facility, and keeping work area well ventilated.
- Children and pregnant women must not enter the work area
- Do not eat, drink or smoke in the work area.
- Any pre-1960 building may have paint containing lead on wood or metal surfaces. If you suspect the work-piece contains lead seek professional advice.
- Some wood and wood type products especially MDF (Medium Density Fiberboard) can produce dust that can be hazardous to your health. We recommend the use of an approved face mask with replaceable filters when using this machine in addition to using the dust extraction facility.
- This tool is designed for single handed operation. Adopt a stable distance and make sure that the mains cable is prevented from coming into contact with the machine or getting caught up on other objects preventing completion of the sanding pass.
- Ensure that you have removed foreign objects such as nails and screws from the work-piece before commencing sanding.
- Don't use the tool for wet sanding, it is for dry sanding only.
- Do not scrape wet or dampened materials (e.g. wallpaper) or on moist surfaces. Penetration of water into the machine increases the risk of an electric shock.
- Hold power tools by their insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord. Contact with a "live" wire will make exposed metal parts of the tool "live" and shock the operator.
- Where possible, secure smaller work-pieces to prevent them from moving under the tool.
- Do not force the tool; let the tool do the work at a reasonable speed. Overloading will occur if too much pressure is applied and the motor slows resulting in inefficient sanding and possible damage to the motor.
- Only use application accessories in good condition. Do not use them if they are torn or worn.
- Do not touch moving sanding sheet.
- Do not treat the surface to be worked with solvent-containing fluids. Materials being heated by scraping or sanding can cause toxic vapors to develop.
- Exercise extreme caution when handling the scraper accessory. The accessory is very sharp - danger of injury.

- Keep your hands away from the cutting area. Do not reach under the material being cut.
- The tool must be used only for its prescribed purpose. Any use other than those mentioned in this Manual will be considered a case of misuse. The user, and not the manufacturer, shall be liable for any damage or injury resulting from such cases of misuse.
- To use this tool properly, you must observe the safety regulations, the assembly instructions and the operating instructions to be found in this Manual. All persons who use and service the machine have to be acquainted with this Manual and must be informed about its potential hazards. Children and frail people must not use this tool. Children should be supervised at all times if they are in the area in which the tool is being used. It is also imperative that you observe the accident prevention regulations in force in your area.
- The same applies for general rules of occupational health and safety.
- The manufacturer shall not be liable for any changes made to the tool nor for any damage resulting from such changes.
- Even when the tool is used as prescribed it is not possible to eliminate all residual risk factors.
- The following hazards may arise in connection with the tool's construction and design:
 - a) Damage to the lungs if an effective dust mask is not worn. Wear appropriate dust mask.
 - b) Damage to hearing if effective hearing protection is not worn. Wear hearing protection.
 - c) Hand-Arm Vibration Syndrome can occur if the tool's use is not adequately managed. Rest often – avoid prolonged use.

It is recommended that the Multi-Tool is always supplied via a residual current device with a rated current of 30mA or less.



Wear hearing protection while operating the power tool.



Wear eye protection while operating the power tool.



Use a dust mask or respirator for applications which generate dust.

Intended Use & Foreseeable Misuse:

This machine is intended for sanding, cutting and scraping on wood, plasterboard, soft plastics and metals. Do not use machines, tools and accessories for additional applications or for purposes other than those for which they are designed for. All other applications are expressly ruled out.

Suggestions for Use:

- a) Wear gloves during operation;
- b) Limit operating time;
- c) **Never hold the tool tightly when in use – keep the tool under control, but let the tool do the work.**

MAKO MULTI-FUNCTION TOOL OPERATING INSTRUCTIONS

Attaching an Application Tool:



WARNING: Disconnect the multi-tool from power supply before any adjustment.

CAUTION: For all work or when changing application tools, always wear protective gloves. Sharp edges on some application tools will cause personal injury. Application tools can be very hot while working or after use.

WARNING: Check that the application tools are correctly attached. Incorrect or insecurely fastened application tools can come loose during operation and cause a hazard.

- a) Loosen the flange bolt with the hex key provided.
- b) Ensure that the inner threads and the drive shaft are clean.
- c) Align the grooves on the application tool with the four raised ribs on the drive shaft and put the application tool onto the drive shaft.
- d) With your gloved hand holding the blade, put on and tighten the flange bolt using the hex key.

NOTE: Attach the application tool at the desired orientation for the task at hand. The shaft is configured so that the application tool can be attached every 30° around the shaft, from 0° to 330°.

Mounting or Changing the Sandpaper:

Follow the directions above for attaching the application tool to attach the sanding plate to the multi-tool.

- a) Align the sandpaper with the sanding plate and use your hand to press it firmly on the sanding plate.
- b) Press the sandpaper firmly against a smooth surface for a short period, and then switch on the tool. The burr will form a non-slip bond with the outer edge of the sandpaper felt. This will avoid premature wear.
- c) If one point has become worn, pull off the sandpaper, turn it 120° and place it on again.

Scraping:

Use the scraping blade to remove paint, coatings and vinyl on wood, and to scrape off adhesive residue or cut carpet.

To cut and remove carpet, place the Scraping Blade vertically on the work piece and cut the carpet into sections, then put the tool on the work piece at a flat angle (not over 20°), and apply light pressure to cut the glue line. If the angle is too high, the scraper can cut into the surface beneath the carpet.

Cutting:

Circular Saw Blades are ideal for making precise cuts in tight areas, close to edges or flush to a surface.

- a) Select the lowest speed for making the initial plunge cut. Start off at lowest speed for increased control. After making your initial cut, you can increase motor speed for faster cutting.
- b) Flush cutting blades are intended to make precise cuts to allow for installation of flooring or wall material. When flush cutting, it is important not to force the tool during the plunge cut. If you experience strong vibration during the plunge cut, this indicates that you are applying too much pressure. Back the tool out and let the speed of the tool do the work.
- c) While keeping the teeth of the blade in the work surface, move the back of the tool in a slow sideways motion. This motion will help speed the cut.

The Flat Saw Blade is ideal for making precise cuts in wood, plaster and drywall material.

Applications include cutting openings in flooring for venting, repairing damaged flooring, cutting openings for electrical boxes. The Flat Saw Blade can also be used for window restoration making glazing easy to remove. The saw blade can be placed directly against the edge of the window frame, guiding the blade through the glazing.

Note that the blade works best on softer woods such as pine. For harder woods, the blade life will be limited.

Sanding:

Do not touch the gear box after prolonged use: it could be very hot!

The removal rate and the sanding pattern are determined by the choice of sanding sheet and the wood surface

Apply a uniform sanding pressure to extend the life of the sanding sheets.

Intensifying the sanding pressure does not lead to an increase of the sanding speed, but instead increases wear on the machine and the sanding sheet.

Use only the tip or an edge of the sanding sheet for precise sanding of edges, corners and hard to reach areas.

When selectively sanding on one spot, the sanding sheet can heat up considerably. Remove the tool from the surface periodically to permit the sanding sheet to cool down.

A sanding sheet that has been used for metal should not be used for other material.

Use only original sanding accessories.

When sanding, always connect to a dust extraction system.

Switching Multi-Tool On and Off:

Hold the Multi-Tool firmly to control the twisting of the toll when turned on.

To turn ON – slide the switch forward to **I**

To turn OFF – slide the switch back to **O**

Adjusting the Speed:

The rate of oscillation can be selected during use by rotating the speed adjustment dial to the left or right.

The best speed depends on the material and Application Tool being used, and should be determined by carrying out a practical test.

MAINTENANCE AND CLEANING

Attention! Always disconnect the tool from the power supply before carrying out any work on it.

Servicing this tool must be done by a qualified person only. Service or maintenance performed by unqualified personnel could result in a risk of injury.

Disconnect the tool immediately if the supply cord is damaged.

If the supply cord is damaged it must be replaced by a qualified service agent only in order to avoid a hazard.

If the tool does not work properly, return the tool to a service facility for repair.

To clean the tool, use a dry or moist, but not wet, towel. Many cleaning agents contain chemical substances which may cause damage to the plastic parts of the tool. Do not use any strong or inflammable cleaners such as petrol, paint thinner, turpentine or similar cleaning agents.

Always keep air ventilation holes free of dust deposits to prevent overheating. Wear a dust mask and use a soft brush to clean the ventilation holes.

All bearing are lubricated for life – no further lubrication is required.

DISPOSAL:

Do not dispose of electrical appliances with your domestic waste! Dispose of it in your local recycling containers, or at your local recycling station.

TECHNICAL DATA

MULTI-FUNCTION TOOL	SROM1179
Voltage Rating (charger)	230-240V,50Hz 300W
No-load Speed n_0	10000-18500 min ⁻¹