

# YATO

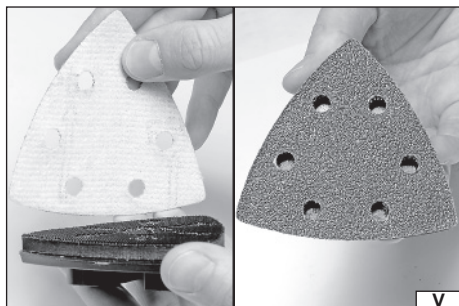
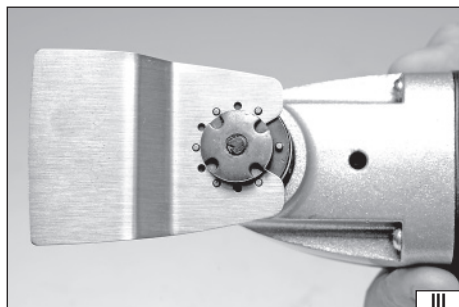
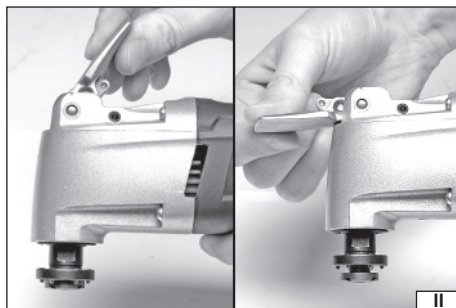
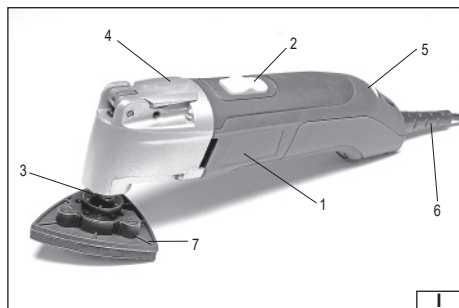


EN MULTI-PURPOSE OSCILLATING TOOL

YT-82220



I N S T R U K C J A O R Y G I N A L N A



## PROPERTIES OF THE TOOL

Multi-purpose oscillating tool is a regular electric tool of the 2nd insulation class designed principally for finishing works at wood, plastics and metal processing, particularly in corners and in areas which are difficult to reach. The tool permits to cut, grind, clean surfaces and polish with an adequate insertion tool. Under no circumstances may the tool be used for the purpose of processing other materials than those mentioned above, e.g. for grinding of finishing coats, fibre-reinforced putty, etc. A correct, reliable and safe functioning of the grinder depends upon its adequate operation, and therefore:

**Before you proceed to use the tool, read the whole manual and keep it.**

**Attention! Dust generated while grinding certain surfaces may be harmful and even toxic.**

The note above regards for example grinding surfaces coated with lead-containing paints, certain kinds of woods, some metals (e.g. lead) and materials, and therefore during work it is necessary to apply an efficient dust extraction system, dust masks and other means of protection of the skin and respiratory system. The supplier shall not be held responsible for any damage due to failure to observe safety regulations and the recommendations included in this manual.

## EQUIPMENT

The tool is provided complete and it does not require assembly, save for installation of the insertion tool described below.

The tool is supplied with accessories.

## TECHNICAL PARAMETRES

| Parameter                               | Unit of measurement  | Value           |
|-----------------------------------------|----------------------|-----------------|
| Catalogue number                        |                      | YT-82220        |
| Mains voltage                           | [V~]                 | 230-240         |
| Mains frequency                         | [Hz]                 | 50              |
| Nominal power                           | [W]                  | 300             |
| Number of oscillations                  | [min <sup>-1</sup> ] | 15 000 - 22 000 |
| Mass                                    | [kg]                 | 2,0             |
| Level of noise                          |                      |                 |
| - acoustic pressure $L_{pa} \pm K_{pa}$ | [dB(A)]              | 89,2 ± 3        |
| - acoustic power $L_{wa} \pm K_{wa}$    | [dB(A)]              | 100,2 ± 3       |
| Class of insulation                     |                      | II              |
| Vibration $a_h \pm K$                   | [m/s <sup>2</sup> ]  | 4,464 ± 1,5     |
| Grade of protection                     |                      | IP20            |

## GENERAL WARNINGS FOR THE SAFETY OF POWER TOOLS

**Warning! Read all safety warnings, illustrations and specifications provided with this power tool.** Failure to do so may result in electric shock, fire or serious injury.

**Keep all warnings and instructions for future reference.**

The term "power tool" used in warnings applies to all tools driven by power both wired and wireless.

### Workplace safety

**Keep the workplace well-lit and clean.** Disorder and poor lighting can be causes of accidents.

**Do not work with power tools in an environment with an increased risk of explosion, containing flammable liquids, gases or vapors.** Power tools generate sparks that can ignite dust or fumes.

**Children and third persons should not be allowed to enter the workplace.** Loss of concentration can result in loss of control.

### Electrical safety

**The plug of the electric cable must match the power socket. You must not modify the plug in any way. Do not use any plug adapters with earthed power tools.** An unmodified plug that fits the outlet reduces the risk of electric shock.

**Avoid contact with earthed surfaces such as pipes, radiators and coolers.** Grounding the body increases the risk of electric shock. **Do not expose power tools to contact with atmospheric precipitation or moisture.** Water and moisture that gets inside the power tool increases the risk of electric shock.

**Do not overload the power cable. Do not use the power cord to carry, pull or unplug the power plug from the power outlet.** **Avoid contact of the power cable with heat, oils, sharp edges and moving parts.** Damage or entanglement of the power cord increases the risk of electric shock.

**In the case of working outside closed rooms, use extension cords intended for work outside closed rooms.** The use of an extension cord adapted for outdoor use reduces the risk of electric shock.

When using a power tool in a humid environment is unavoidable as a protection against supply voltage use a residual current device (RCD). The use of RCD reduces the risk of electric shock.

### Personal safety

**Stay alert, pay attention to what you do and keep common sense while working with the power tool. Do not use a power tool when you are tired or under the influence of alcohol or medication.** Even a moment of inattention while working can lead to serious personal injury.

**Use personal protective equipment. Always wear eye protection.** The use of personal protective equipment such as dust masks, anti-slip safety shoes, helmets and hearing protection reduce the risk of serious personal injury.

**Prevent accidental operation. Make sure that the electric switch is in the "off" position before connecting to the power supply and / or battery, lifting or moving the power tool.** Moving the power tool with the finger on the switch or powering the power tool, when the switch is in the "on" position can lead to serious injuries.

**Before turning on the power tool remove any keys and other tools that were used to adjust it.** The key left on the rotating parts of the power tool can lead to serious injuries.

**Do not reach and do not lean too far. Keep the right attitude and balance all the time.** This will allow easier control over the power tool in case of unexpected work situations.

**Dress accordingly. Do not wear loose clothing or jewelry. Keep your hair and clothing away from moving parts of the power tool.** Loose clothing, jewelry or long hair can be caught by moving parts.

**If the devices are fitted for the connection of dust extraction or dust collection, make sure that they are connected and used properly.** The use of dust extraction reduces the risk of dust hazards.

**Do not let the experience acquired from frequent use of the tool resulted in carelessness and ignoring safety rules.** Carefree action can cause serious injuries in a fraction of a second.

### Use and care of the power tool

**Do not overload the power tool. Use the power tool appropriate for the selected application.** The right power tool will provide a better and safer job if used according to the designed load.

**Do not use the power tool, if the electric switch does not allow switching on and off.** Power tool, which cannot be controlled by means of a power switch is dangerous and must be returned for repair.

**Disconnect the plug from the power socket and / or remove the battery if it is detachable from the power tool before adjusting, changing accessories or storing the tool.** Such preventive measures will allow you to avoid accidentally turning on the power tool. **Keep the tool out of the reach of children, do not let people who do not know how to operate the power tool or these instructions use a power tool.** Power tools are dangerous in the hands of untrained users.

**Maintain power tools and accessories. Check the tool for mismatches or jams of moving parts, damage to parts and any other conditions that may affect the operation of the power tool. Damage must be repaired before using the power tool.** Many accidents are caused by incorrectly maintained tools.

**Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp edges are less prone to jamming and are easier to control when working.

**Use power tools, accessories and inserted tools etc. in accordance with these instructions, taking into account the type and conditions of work.** The use of tools for work other than designed is likely to result in a dangerous situation.

**Handles and gripping surfaces must be dry, clean and free from oil and grease.** Slippery handles and gripping surfaces do not allow for safe operation and control of the tool in dangerous situations.

### Repairs

**Repair the power tool only in authorized facilities using only original spare parts.** This ensures proper operation safety of the power tool.

## OPERATION OF THE TOOL

### *Installation of the insertion tool*

Attention! The actions described in this point must be realised when the power supply is off. Remove the plug of the cord of the tool from the socket!

While installing insertion tools with sharp edges, be careful and use personal protection equipment, particularly protective gloves.

Lift and turn the fast-assembly mechanism lever by 180° (II).

Install the insertion tool designed for the given kind of work. Install the insertion tool on the spindle holder in a manner that facilitates the job and at the same time guarantees its safety.

Attention! It is prohibited to carry out the installation procedure where the working section of the insertion tool (the blade) is directed towards the operator of the tool.

Make sure the holes of the insertion tool are aligned with the pins of the spindle holder (III). Attention! It is prohibited to carry out the installation procedure where the insertion tool is fixed with fewer than two pins.

Attention! It is accepted to carry out the installation procedure of insertion tools solely with open clamping systems.

Turn the fast-assembly mechanism lever by 180° installing an insertion tool in the spindle holder. Press the fast-assembly mechanism lever so as to secure it from accidental opening during work (IV).

#### *Installation of the abrasive sheet (V)*

If a grinding tool is to be the insertion tool, then before you proceed to operate the machine, it is required to install an abrasive sheet. The attachment is equipped with a Velcro fastener to which the abrasive sheet must be fastened in such a manner that the edges of the sheet are aligned with the edges of the attachment. In case of attachments with holes used to extract dust, it is required to use abrasive sheets with holes. While attaching the sheet to the attachment, make sure the holes in the sheet are aligned with the holes of the attachment.

#### *Dust extraction*

The tool is not equipped with an integral dust extraction system. In case external dust extraction systems are used, observe the recommendations they are provided with.

#### *Adjustments of the speed of oscillations (VI)*

The tool is equipped with a rotational regulator of the speed of oscillations, which permits smooth adjustments within the range indicated in the table. In order to adjust the speed of oscillation, move the handwheel to the desired position.

## **PREPARATION FOR WORK**

Remove the plug of the power supply cable from the socket.

Before any work with the tool, it is required to make sure the housing and the connection cord with plug are not damaged. In case any damage is detected, it is prohibited to connect the tool to the mains!

Insert the insertion tool designed for the given kind of work.

Wear eye and hearing protectors and working gloves.

Make sure the switch is „OFF“, and then insert the plug of the power supply cable to the mains socket.

Adopt an adequate position, which guarantees stability during work and turn the tool on using the switch.

## **USING THE TOOL**

Commence work applying the insertion tool to the material to be processed. During work do not exert excessive pressure against the material being processed and do not make sudden movements, so as to avoid any damage to the insertion tool or the abrasive sheet.

Due to the level of vibration noise and dust generated by the tool, it is necessary to make regular breaks during work. Avoid overloading the tool, the temperature of the external surfaces at any time must not exceed 60°C.

Always use individual protection means: working gloves, safety goggles and hearing protection.

Remove accumulated dust from the abrasive sheet from time to time. In order to do so turn the tool off and slightly tap the foot of the grinder. Do not process different materials using the same abrasive sheet!

Once the work has concluded turn the tool off, remove the plug of the power supply cable from the mains socket and realise maintenance and inspection of the tool.

The declared total value of vibration has been measured through a standard measurement method and may be used to compare different tools. The declared total value of vibration may be used for the purpose of preliminary evaluation of exposure.

Attention! The actual vibration while operating the tool may vary from the declared value, depending on the use of the tool.

Attention! It is required to specify the safety measures to protect the operator, which are based upon the evaluation of exposure under actual conditions of work (including all the stages of the working cycle, e.g. the periods when the tool is off or is idling and the periods of active operation).

## **MAINTENANCE AND OVERHAUL**

**ATTENTION!** Before any adjustment, technical service or maintenance operations unplug the tool. Once the operations have been finished, the technical conditions of the tool must be assessed by means of external evaluation and inspection of the following elements: body and handle, conductor with a plug and deflection, functioning of the electric switch, patency of ventilation slots, sparking of brushes, noise level of functioning of bearings and gears, start-up and smoothness of operation. During the guarantee period, the user cannot dismantle the electric tools or change any sub-assemblies or elements, since it will cancel any guarantee rights. All irregularities detected at overhaul or during functioning of the tools are a signal to have the tool repaired at a service shop. Once the functioning has been concluded, the casing, ventilation slots, switches, additional handle and protections must be cleansed with a stream of air (at a pressure not exceeding 0.3 MPa), with a brush or a cloth without any chemical substances or cleaning liquids. Tools and handles must be cleansed with a clean cloth.