

# TOLSEN MP20<sup>V</sup>

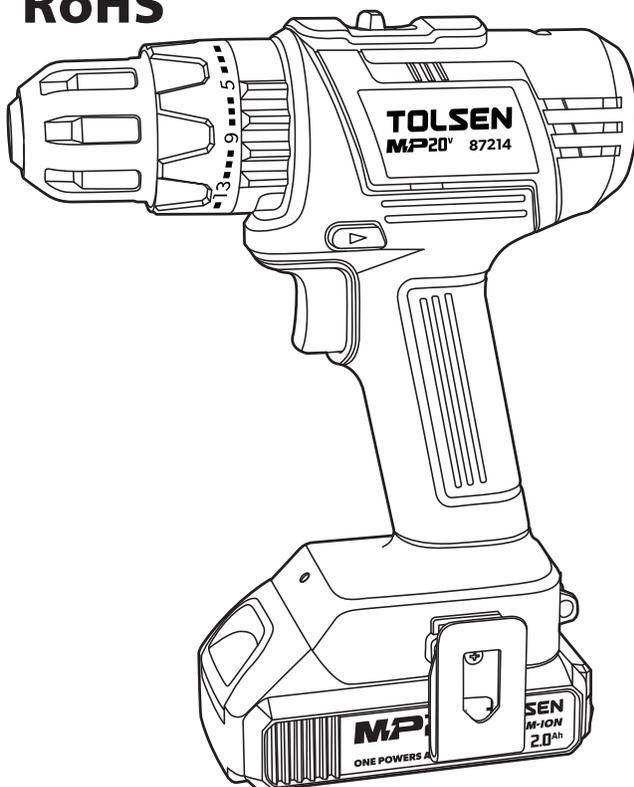
**87213/87214**

**LI-ION CORDLESS IMPACT DRILL**

**INSTRUCTION MANUAL**

**20V LITHIUM-ION**

**CE RoHS**



**SAVE THIS MANUAL !**

You will need this manual for safety instructions, operating procedures and warranty.  
Put it and the original sales receipt in a safe dry place for future reference.

## IMPORTANT SAFETY INFORMATION

### General Power Tool Safety Warnings

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**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.

**WARNING:** This appliance is not intended for use by persons (including children) with reduced, physical or mental capabilities or lack of experience or knowledge unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children must be supervised to ensure that they do not play with the appliance.

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.

### Work area safety

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1. Keep work area clean and well lit. Cluttered or dark areas invite accidents.
2. 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.
3. Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

### Electrical safety

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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. 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.
3. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
4. 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.
5. 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.
6. If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) or ground fault circuit interrupter (GFCI) protected supply. Use of an RCD or GFCI reduces the risk of electric shock.
7. Power tools can produce electromagnetic fields [EMF] that are not harmful to the user. However, users of pacemakers and other similar medical devices should contact the maker of their device and/or doctor for advice before operating this power tool.

### Personal safety

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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.
2. 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.
3. 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.
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.
5. Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations
6. 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.
7. 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.
8. Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles. A careless action can cause severe injury within a fraction of a second.

### Power tool use and care

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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.
2. Do not use the power tool if the switch could not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
3. 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.
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.
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.
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.
7. 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.
8. Keep handles and grasping surfaces dry, clean and free from oil and grease. Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

## Battery Tool Use and Care

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1. Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
2. Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.
3. When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.
4. Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.
5. Do not use a battery pack or tool that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.
6. Do not expose a battery pack or tool to fire or excessive temperature. Exposure to fire or temperature above 130 °C may cause explosion.
7. Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions. Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

## Service

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1. 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.
2. Never service damaged battery packs. Service of battery packs should only be performed by the manufacturer or authorized service providers.
3. Follow instruction for lubricating and changing accessories.

## Additional Safety for Battery-Operated Drills

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**WARNING:** Important: It is imperative to follow all national safety regulations concerning installation, operation and maintenance.

1. **DO NOT** allow anyone under the age of 18 years to use this tool, and ensure that operators are qualified and familiar with the operating and safety instructions.
2. Battery chargers are for indoors use only. Ensure that the power supply and charger are protected against moisture at all times.
3. When using the drill, use safety equipment including safety glasses or shield, ear defenders, and protective clothing including safety gloves. Wear respiratory protection suitable for the work being undertaken. A minimum rating of FFP2 is recommended. If operating the tool causes discomfort in any way, stop immediately and review your method of use.
4. Use metal and voltage detectors to locate concealed electric, water or gas lines. Avoid touching live components or conductors.
5. Ensure that the lighting is adequate.
6. Ensure that the drill bit is securely fixed in the chuck. Insecure drill bits can be ejected from the machine causing a hazard.
7. Ensure that the drill bit is not in contact with the workpiece prior to starting up the tool.
8. Before drilling, check that there is sufficient clearance for the drill bit under the workpiece.
9. **DO NOT** exert pressure on the tool. To do so would shorten its service life.
10. Drill bits get hot during operation, allow to cool prior to handling them.
11. **NEVER** use your hands to remove sawdust, chips or waste close by the bit.
12. If you are interrupted when operating the drill, complete the process and switch off before looking up.
13. Where possible, use clamps or a vice to hold your work.
14. Examine the chuck regularly for signs of wear or damage. Have damaged parts repaired by a qualified service center).
15. **ALWAYS** wait until the drill has come to a complete stop before putting it down.
16. Periodically check all nuts, bolts and other fixings and tighten where necessary.

## Battery Safety

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### WARNING

This battery can only be used in the machines included in the TOLSEN MP20V lithium-ion power platform system.

This battery can only be used cooperatively with the designated battery charger.

Li-Ion batteries, if incorrectly used, stored or charged will cause a fire, burn and explosion hazard.

Failure to follow these instructions may cause overheating or fire.

1. Keep the battery out of reach of children.
2. The battery should be charged at ambient temperatures between 5 and 40°C (ideally around 20°C) . After charging, allow 15 minutes for the battery to cool before use.
3. The Battery Charger monitors battery temperature and voltage while charging. DO NOT leave batteries on charge for extended periods and NEVER store batteries on charge. Ensure that the charger is disconnected from the mains supply after use.
4. When not in use batteries should be stored at room temperature. Do not store the tool and battery cartridge in locations where the temperature may reach or exceed 40°C (ideally around 20°C) .
5. Ensure that battery contacts cannot accidentally short in storage. Keep batteries clean; foreign objects or dirt may cause a short. Keep away from other metal objects, for example, paperclips, coins, keys, nails and screws.
6. **DO NOT** store lithium-ion battery packs in a discharged state over a long period as this can damage the lithium-ion cells. For long-term storage, store batteries in a high charge state disconnected from the power tool.
7. Batteries can become faulty over time, individual cells in the battery can fail and the battery could short. The charger will not charge faulty batteries. Use another battery, if possible, to check correct functionality of the charger and purchase a replacement battery if a faulty battery is indicated.
8. **DO NOT** open, disassemble, crush, heat or incinerate. Do not dispose of in fire or similar.

## Battery Charger Safety

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### WARNING

This charger can only be used to charge the batteries which has TOLSEN MP20V symbol. If it is used to charge other kinds of batteries, there is a risk of explosion. **DO NOT** attempt to recharge non-rechargeable batteries.

1. This is class 2 power supply. It is suitable for indoor use only.
2. Before use, the input and output technical data must be checked to secure correct use.
3. Do not use the Battery Charger in the circumstances that the output polarity does not match the load polarity.
4. Do not attempt to use the charger with any batteries other than those supplied. Keep your battery charger clean; foreign objects or dirt may cause a short or block air vents. Failure to follow these instructions may cause overheating or fire
5. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

## Before Use

### Removing a battery

Remove the Battery from the tool by pressing the lock button, then slide the Battery out of the Battery Slot.

#### WARNING:

**DO NOT** try to remove the Battery without pressing the lock button. The tool or Battery could be damaged.

### Fitting a battery

1. Fit a battery by sliding it on to the Battery Slot of the tool until it clicks and locks into position

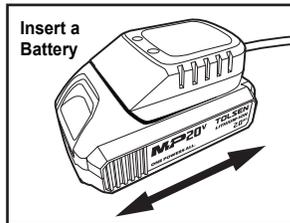
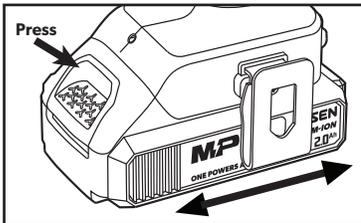
**Note:** Make sure the Battery and tool are lined up correctly. If the Battery does not slide into the tool easily, do not force it. Instead, slide the Battery out of the tool again, check the top of Battery and the tool battery slot are clean and undamaged and that the contacts are not bent

### Setting up the battery charger

1. If there is battery fitted, remove any battery from battery charger first

2. Insert the Battery Charger mains plug into a suitable mains socket

**Note:** The Green LED on the Charger will always bright to indicate that the charger is ready to charge the battery.



**WARNING:** Use this charger **ONLY** to charge the supplied battery or additional purchased batteries that are specifically designed for this tool.

### Charging the battery

**WARNING:** Failure to follow the correct procedure when charging batteries will result in permanent damage.

**Note:** Normal charging time is approximately 1hr for a recently discharged 2.0Ah capacity battery. However, if the Battery has been left in a discharged state for some time, it may take additional time to charge.

1. Slide a fully or partially discharged Battery on to the Battery Charger .

2. Once charging commences, the Red LED will on.

3. When the Battery is fully charged, the Red LED will off and Green LED will on.

**IMPORTANT:** When a low charge level is indicated, the tool may stop operating while in use, which is dangerous when operating it. Always ensure the battery pack has a good charge level.

### Note: Symbology

	Class II Double insulated for additional protection
	CE conformity
	Read the instruction manual before using
	Wear hearing protection while operating the tool
	Wear hand protection
	Always use breathing apparatus when machining materials which generate dust.
	Wear ear protection.
	Operating environmental temperature Max 45°C
	Do not incinerate battery pack
	Do not expose to water
	Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.
 Li-ion	Batteries and rechargeable batteries are not household waste! As a consumer, you are required by law to dispose of all batteries and accumulators, whether or not they contain harmful substances *, at a collection point in your municipality / neighborhood or in commerce so that they can be disposed of in an environmentally sound manner.
 Li-ion	Battery pack is recyclable and should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice
	Safety alert
	For indoor use only
 T2A	Internal time lag fuse with a maximum current of 2A.

## SPECIFICATIONS

Rated Voltage	20VDC
No-load Speed	0-400/0-1500 min <sup>-1</sup>
Impact frequency	6000/22500 bpm
Chuck Capacity	10mm (3/8")
Torque Max.	35N·m (310in.lbs.)
Max. Drilling Capacity in Steel	10mm (3/8")
Max. Drilling Capacity in Concrete	10mm (3/8")
Max. Drilling Capacity in Wood	25mm (1")
Battery pack Voltage	20VDC
Battery capacity	2.0Ah
Charger	
Input Voltage	220-240VAC 50/60Hz
Output Voltage	21VDC
Rated output current	2.0A
Charging Time	1hr fast charging(2.0Ah battery)
Protection class	□



## FUNCTIONS



### OPERATING INSTRUCTIONS

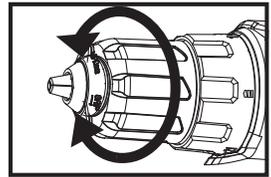
#### Fitting drill bits and accessories

**WARNING: ALWAYS** remove the Battery from the drill before attaching, adjusting or removing accessories.

**WARNING: DO NOT** attempt to tighten drill bits (or any other accessory) by gripping the front part of the chuck and switching the tool on. This can lead to personal injury and can cause damage to the chuck.

**WARNING: NEVER** fit any accessory or bit with a maximum speed lower than the no load speed of the power tool.

1. Open the Chuck by rotating the Chuck anti-clockwise
2. Place the drill bit or accessory centrally into the chuck
3. Tighten the Chuck Jaws by rotating the Chuck Collar clockwise
4. When the drill bit or accessory is securely fastened, carefully run the Machine to test that it is running centrally, smoothly and evenly.  
If the bit is 'wobbling' or not running centrally, release the chuck, check the accessory for damage, correct its position, retighten and test again.



#### Operating

##### Direction control

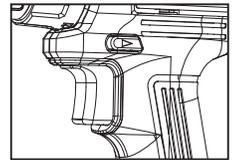
**WARNING: NEVER** change the direction of rotation while the tool is running. This may cause permanent damage to the tool.

- The direction of rotation can be set using the Forward/Reverse Switch
- For anti-clockwise rotation, push the switch to the right
- For clockwise rotation, push the switch to the left

**Note:** When the Forward/Reverse Switch is in the central position, the drill is locked and cannot be switched on.

Use this setting as a safety feature to prevent the drill from being switched on accidentally.

If the motor carbon brush show sporadic spark during the use, it is the normal phenomenon.



**Direction control**

##### Torque control

**Note:** This cordless drill is equipped with a torque control clutch allowing the machine to be set to the correct torque for the individual application.

- The clutch settings are indicated by the symbols on the torque selector
- Rotate the Torque Selector to select the desired setting: the higher the number displayed on the torque ring, the higher the torque produced by the tool.

##### Gear selection

- Select gear 1 on the Gear Switch for the higher torque. A lower speed gear is generally more suitable for driving screws and fasteners.
- Select gear 2 on the Gear Switch for the lower torque. A higher speed gear is for drilling and must not be used for driving screws and fasteners.

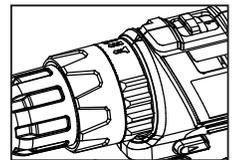
**Note: ALWAYS** read the documentation provided with drill bits and accessories for the recommended or maximum speed setting and use the most appropriate gear. See 'Specification' for the maximum no load speed of each gear.

##### Switching on/off

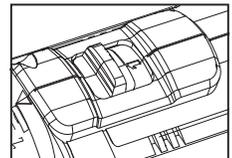
**WARNING: ALWAYS** wear adequate personal protection equipment when setting up and operating this machine.

1. To start the drill, squeeze the Trigger Switch.
2. The built-in Work Light will illuminate when the Trigger Switch is squeezed.

**Note:** If the Trigger Switch cannot be pressed down, check if Forward/Reverse switch is set to its middle position, which locks the device (see 'Direction control').



**Torque control**



**Gear selection**

- The speed of the drill is controlled by the movement of the trigger: the further the Trigger Switch is pressed down, the faster the drill will run.
- Release the Trigger Switch to stop the machine.

#### Screwdriver use

**Note:** Always use a universal bit holder when working with screwdriver bits. Do not insert screwdriver bits directly into the chuck.

- Select gear 1 using the Gear Switch . 
  - Rotate the Mode Selector to Drive. 
  - Adjust the drill to the appropriate torque setting (see 'Torque control' )
- When driving screws **NEVER** use the machine in drill mode.

**Note:** If in doubt which torque setting best suits the application, start with a low setting and increase.

#### Drilling masonry and concrete

- Select gear 1 using the Gear Switch
  - Rotate the Mode Selector to the hammer drill position. 
- Hammer drill mode should be used for drilling into masonry and concrete.
- Apply moderate pressure to the rear of the drill, in line with the drill bit.
- Use masonry drill bits only. Ensure that the bit size is within the maximum capacity of the machine (see 'Specification' ).
- **DO NOT** apply too much pressure. If debris blocks the drill hole, run the drill slowly and remove the bit from the hole. Repeat until hole is cleared.

**WARNING:** The drill bit, especially the tip, will become very hot when drilling masonry and concrete.

**DO NOT** touch the bit and never allow it to come into contact with combustible materials.

**WARNING: DO NOT** inhale masonry dust. Wear adequate breathing protection. Dust from masonry, concrete and similar substances is harmful and may be toxic.

#### Drilling wood

- Select the appropriate gear using the Gear Switch 
  - Rotate the Mode Selector to the drill position 
- Ensure that drill bits are suitable for wood, and are within the maximum capacity of this machine (see 'Specification' )
- WARNING: DO NOT** inhale wood dust. Wear adequate breathing protection. Some wood dusts may be toxic.

#### Drilling metal

- Select the appropriate gear using the Gear Switch 
  - Rotate the Mode Selector to the drill position 
- Ensure that drill bits are suitable for the grade of metal being drilled, and are within the maximum capacity of the machine (see 'Specification' ).
- To ensure accuracy, mark the intended hole position using a hammer and centre punch.

**WARNING:** The drill bit and the work piece will become very hot when drilling metal. **DO NOT** touch the bit and never allow it to come into contact with combustible materials when hot. Always use a suitable lubricant or cutting fluid, and drill at appropriate speeds.

- **ONLY** apply moderate pressure to the drill bit, ensuring efficient cutting and prolonged drill bit life.

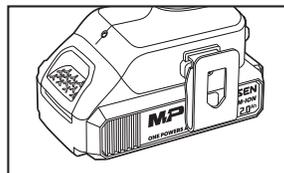
- Use a countersink bit to remove sharp burrs from the hole, preventing cuts and other kinds of injury.

**WARNING:** If the power tool gets excessively hot in use, stop using the tool immediately and allow to cool before continuing work. The cooling period can be reduced by operating the drill at maximum speed with no load.

Always make sure the Motor Vents (5) are not blocked and do not allow dust to enter the body of the tool through the Motor Vents; dust, especially metallic dust, may damage or destroy the tool.

#### Install Belt Clip

The Belt clip is convenient for temporarily hanging the tool. This can be installed on the tool. To install the belt clip, install it into a groove in the tool housing and then secure it with a screw. To remove, loosen the screw and take it out.



## MAINTENANCE

**WARNING: ALWAYS** disconnect from the mains power supply, before carrying out any maintenance/ cleaning of the charger. Remove the battery before carrying out any maintenance/ cleaning of the drill.

**Note:** Both the drill and the charger contain no user-serviceable parts. If the device does not perform as outlined in this manual, return it to an authorised service centre for repair

### General inspection

- Regularly check that all the fixing screws are tight
- Inspect the supply cord of the tool, prior to each use, for damage or wear. Repairs should be carried out by an authorised service centre. This advice also applies to extension cords used with this tool.

### Cleaning

- Keep your tool clean at all times. Dirt and dust will cause internal parts to wear quickly, and shorten the machine's service life. Clean the body of your machine with a soft brush, or dry cloth. If available, use clean, dry, compressed air to blow through the ventilation holes
- Clean the tool casing with a soft damp cloth using a mild detergent. Do not use alcohol, petrol or strong cleaning agents
- Never use caustic agents to clean plastic parts

### Lubrication

- Slightly lubricate all moving parts at regular intervals with a suitable spray lubricant



### Disposal

Always adhere to national regulations when disposing of power tools that are no longer functional and are not viable for repair.

- Do not dispose of power tools, or other waste electrical and electronic equipment (WEEE), with household waste.
- Contact your local waste disposal authority for information on the correct way to dispose of power tools

## TROUBLESHOOTING

problem	possible causes	Likely Solutions
Tool will not start.	<ol style="list-style-type: none"> <li>1. Battery Pack not properly connected.</li> <li>2. Battery Pack not properly charged.</li> <li>3. Battery Pack worn out.</li> <li>4. Internal damage or wear. (Carbon brushes or Trigger, for example.)</li> <li>5. Contact chips of switch or battery pack deformed.</li> <li>6. Battery is not suitable for TOLSEN MP20V lithium-ion power platform system</li> <li>7. Overload operation</li> </ol>	<ol style="list-style-type: none"> <li>1. Remove Battery Pack, make sure there are no obstructions, clean battery contacts on tool, reinsert the Battery Pack according to its shape (it should only fit one way), and press firmly until the Battery Pack locks in place.</li> <li>2. Make sure Charger is connected and operating properly. Give enough time for Battery Pack to recharge properly.</li> <li>3. Dispose of old Battery Pack properly or recycle. Replace Battery Pack.</li> <li>4. Have technician service tool.</li> <li>5. Replace switch or Battery Pack</li> <li>6. Replace the battery of TOLSEN MP20V</li> <li>7. Stop to use and restart the machine after cooling.</li> </ol>
Tool operates slowly.	<ol style="list-style-type: none"> <li>1. Excess pressure applied to workpiece.</li> <li>2. Battery Pack wearing out.</li> <li>3. Low battery</li> </ol>	<ol style="list-style-type: none"> <li>1. Have qualified technician replace brushes.</li> <li>2. Have qualified technician replace chuck.</li> <li>3. Dispose of old Battery Pack properly or recycle. Replace Battery Pack.</li> </ol>
Performance decreases over time.	<ol style="list-style-type: none"> <li>1. Carbon brushes worn or damaged.</li> <li>2. Chuck damaged.</li> <li>3. Battery Pack worn out.</li> </ol>	<ol style="list-style-type: none"> <li>1. Have qualified technician replace brushes.</li> <li>2. Dispose of old Battery Pack properly or recycle. Replace Battery Pack.</li> </ol>
Excessive noise or rattling.	Internal damage or wear.(Carbon brushes, gear or bearings, for example.)	Have technician service tool.
Overheating.	<ol style="list-style-type: none"> <li>1. Forcing tool to work too fast.</li> <li>2. Blocked motor housing vents.</li> </ol>	<ol style="list-style-type: none"> <li>1. Allow tool to work at its own rate.</li> <li>2. Clean the Blocked motor housing vents</li> </ol>

# CE DECLARATION OF CONFORMITY

WE  
SUZHOU TOLSEN TOOLS CO.,LTD.  
198 HUASHAN ROAD, ZHANGJIAGANG,  
JIANGSU, CHINA

Declare that the product  
87213/87214  
LI-ION CORDLESS IMPACT DRILL

Complies with the essential health and safety requirements of the following Directices:  
council directive 2006/42/EC

Standards and technical specifications referred to:

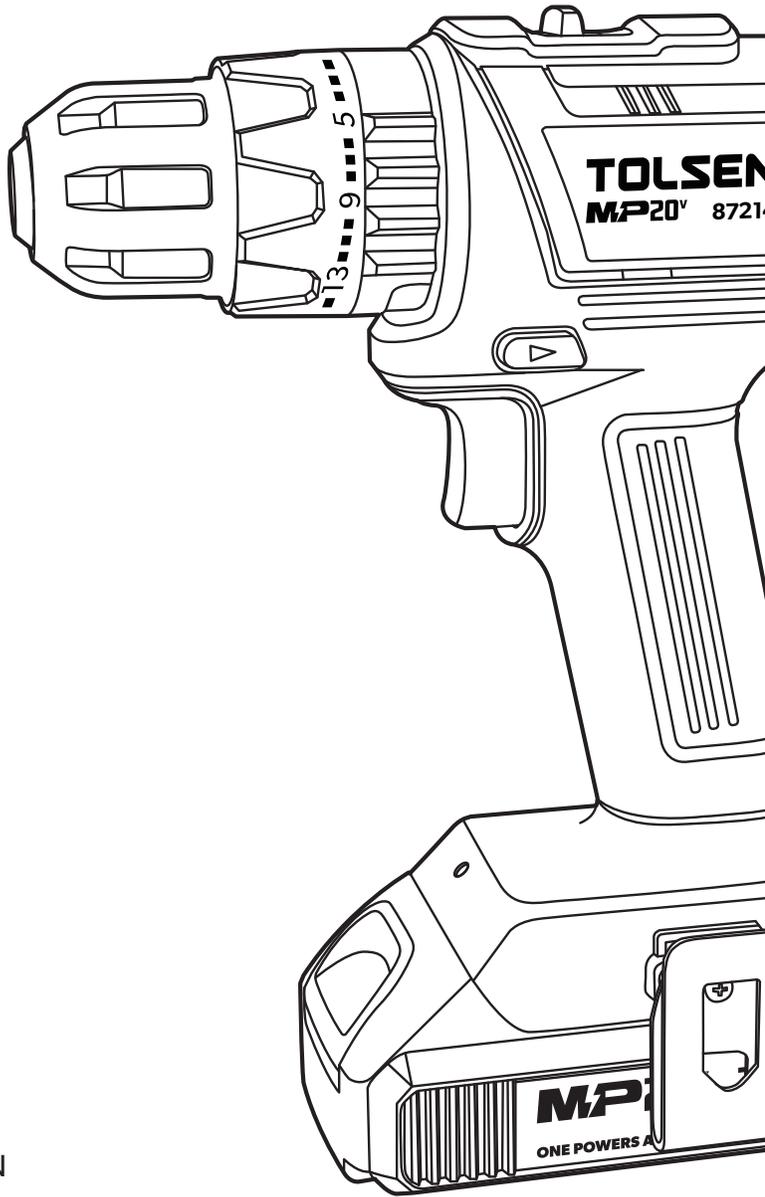
EN 62841-1:2015  
EN 62841-2-1:2018+A11:2019  
EN 55014-1:2017  
EN 55014-2:2015  
EN 60335-2-29:2004+A2:2010+A11:2018  
to be used in conjunction with EN 60335-1:2012  
+A11:2014+A13:2017+A1:2019+A2:2019+A14:2019 and  
EN 62233:2008 the Low Voltage Directive 2014/35/EU

Authorised Signatory and technical file holder

Signed for and on behalf of:  
SUZHOU TOLSEN TOOLS CO.,LTD.  
198 HUASHAN ROAD, ZHANGJIAGANG,  
JIANGSU, CHINA  
WANG QING

Group Quality Director  
on:07/02/2022





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