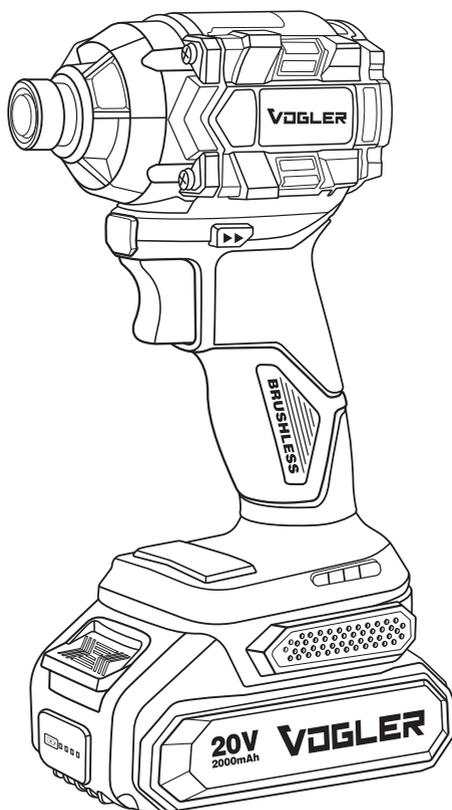


# VOGLER<sup>®</sup>

TOOLS, WORK, INTEGRITY

## V10310



**BRUSHLESS CORDLESS SCREWDRIVER 20V**

## TECHNICAL SPECIFICATIONS

<b>Model</b>	<b>V10310</b>
<b>Battery Chemistry</b>	Lithium-ion
<b>Chuck Type</b>	Hex socket
<b>Chuck Size</b>	6.35mm-1/4"
<b>Impact frequency</b>	0-4500BPM
<b>Bolt Specification</b>	M6-M16
<b>Battery Voltage</b>	20V
<b>Battery Capacity</b>	2000mAh
<b>No-load Speed</b>	0-3300RPM
<b>Max Torque</b>	230N·m
<b>Weight</b>	1.38Kg(with 1pc battery pack)
<b>Packaging</b>	BMC
<b>Includes</b>	2pcs battery packs 1pc charger 3pcs Hex shank twist drill ( $\varnothing$ 3.2mm/4.2mm/5.2mm) 2pcs heel block



### **READ THE INSTRUCTION MANUAL BEFORE USE!**

**PURPOSE:** This tool is mainly designed for loosening or fastening screws but can also be used for drilling holes in wood, metal, pottery, and plastic.

Please read all the safety warnings, instructions, and regulations provided with this power tool carefully before using it. Failure to follow the instructions listed below, may cause fire or result in electric shock and/or serious injury.

## **KEEP ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE**

The term “power tool” in the warning section refers to a commercially available (corded) tool or a battery-powered (cordless) one.

## **WORKPLACE SAFETY**

- Keep the workplace clean and well-lit. Working in disorganized and dark places can cause accidents.
- Do not operate electric tools in explosive atmospheres, such as near flammable liquid, gas, or dust as the sparks they generate can ignite dust or gas.
- Keep the electric tools away from children and bystanders during the operation. Being distracted, you might end up losing control of the tool.

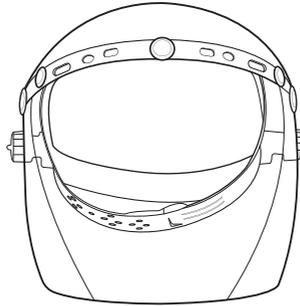
## **ELECTRICAL SAFETY**

- Avoid human contact with grounding surfaces, such as pipes, cooling fins, and refrigerators. If you touch the ground surface, you will increase the risk of electric shock.
- Do not use cordless tools in rain or damp environments. Water entering cordless tools will increase the risk of electric shocks.
- If it is impossible to avoid operating your cordless tools in a humid environment, use a residual current device (RCD) for protection. Using an RCD can reduce the risk of electric shock.
- Cordless tools will produce electromagnetic fields (EMF) that are harmless to users. However, those living with a pacemaker and other similar medical devices should consult the manufacturer and/or a doctor before using these tools.

## **PERSONAL SAFETY**

- Stay alert and focused when working with power tools. Do not operate these tools when feeling tired or under the influence of drugs, alcohol, or medications. A moment of distraction or lack of attention can lead to serious injuries to the operator.

- Using personal protective equipment is a **MUST**. Always wear safety glasses. Using dust masks, anti-slip safety shoes, safety helmets, hearing protection, and other PPEs based on necessity in different conditions, can reduce the risk of personal injury.
- Prevent accidental starting. Make sure the switch is off before connecting the tool to the power supply and/or battery pack, picking it up, or carrying it around. Putting your fingers on the switch while carrying the tool or energizing it when the switch is on, can be dangerous.
- Remove all adjustment keys or wrenches before the power tool is turned on. Wrenches or keys left on rotating parts of the tool can lead to injury.
- Don't stretch your hands too far. Always pay attention to the foothold and body balance. This way you can control the electric tools better in case of an accident.
- Dress appropriately. Do not wear loose clothes or accessories. Keep your hair and clothes away from the moving parts. Loose clothes, accessories, or long hair may get caught in the moving parts.
- If a tool is to be used with chip removal and dust collection equipment, ensure that the equipment is well-connected and properly used. The proper use of dust collection devices can reduce the dangers related to dust.
- Don't be overconfident over your frequent use of power tools and ignore the safety precautions. Any careless move and mistake may cause serious injury before you know it!
- Always wear safety glasses while using electric tools to avoid eye injury. The safety glasses you use must comply with ANSI Z87.7 in the United States, EN166 in Europe, or AS/NZS 1336 in Australia/New Zealand. In Australia/New Zealand, the law also requires you to wear a mask to protect your face.



The employer is responsible for supervising the tool operators and other personnel near the work area to ensure they are wearing appropriate safety protection equipment

### **TIPS ON POWER TOOL USE AND MAINTENANCE**

- Choose power tools according to the purpose. This will enhance your efficiency and safety.
- If the switch doesn't turn the power supply on or off, the power tool should not be used. Power tools that cannot be controlled by switches, are dangerous and must be repaired.
- Before making any adjustments, replacing accessories, or storing the power tools, you must unplug the power supply and/or remove the battery pack (if detachable). This protective safety measure reduces the risk of accidental starting of the power tool.
- Store power tools out of children's reach and do not allow people unfamiliar with these tools and those who do not understand these instructions to touch them. Power tools are dangerous if used by untrained users.
- Maintain electric tools and their accessories properly. Check whether the moving parts are in place or stuck, and check the parts for damage and other conditions affecting the operation. If damaged, repair the power tool before use. Many accidents are caused by poorly maintained tools.
- Keep the cutting tools sharp and clean. A well-maintained tool with

a sharp cutting edge is less likely to get stuck and is easier to control.

- Select the power tools, their cutting edges, and accessories according to the instructions in this manual and by taking the working conditions and tasks at hand into consideration. The use of power tools for tasks they are not made for can lead to dangerous scenarios.
- Keep the handle and surface dry and clean, free of any grease stain. In the event of an accident, a slippery handle prevents a secure grip and makes it hard to control the tool.
- Avoid operating this tool while wearing cloth work gloves, as they may become tangled and caught in the moving parts, potentially causing injury to the user.

### **TIPS ON BATTERY OPERATED TOOLS USE AND MAINTENANCE**

- Only use the charger specified by the manufacturer for charging. The charger used for one battery pack may cause fire hazards if used for other packs.
- Only use battery packs specially designed for your tool. Using other battery packs may cause injury and fire hazards.
- When the battery pack is not in use, keep it away from other metal objects, such as paper clips, coins, keys, nails, screws, or other small metal objects, to prevent the negative and positive terminals connect and causing a short circuit which may start a fire or cause an explosion.
- If misused, the battery pack may start leaking. Avoid contact with the liquid and if you did by accident, rinse the contaminated skin thoroughly with water. In case of any contact with the eyes, you should also seek medical help immediately. The fluid spilled from the battery may cause irritation or burns.
- Do not use damaged or modified battery packs as they may cause fire, explosion, or injury.
- Do not expose the battery packs to fire or temperatures higher than 130°C as it may explode.
- Follow the charging instructions. Do not charge the battery pack outside the temperature range specified in the manual. Improper

charging or charging outside the specified temperature range, may damage the battery and increase the risk of ignition

## **REPAIR**

- Leave your tool in the hands of professional maintenance personnel and make sure they replace the faulty parts with identical spare parts. This will ensure the safety of the power tool.
- Never repair a damaged battery pack. It can only be repaired by the manufacturer or its authorized service provider.
- Please follow the instructions in this manual, when applying lubricating oil and replacing accessories.

## **SAFETY TIPS ON USING CORDLESS SCREWDRIVERS**

- Wear earmuffs.
- Check the sleeve carefully for any signs of wear and tear, cracks, or damage before use.
- hold the tool firmly.
- Keep your hands away from the rotating parts.
- Do not touch the sleeve, nuts and bolts, or the workpiece immediately after the operation as they can be very hot and may cause skin burns.
- Stand firm! When using the tool at heights, make sure there is no one standing below you.
- Appropriate tightening torque varies based on the type or size of the bolts. Use a torque wrench to check and adjust the torque.

## PLEASE KEEP THIS MANUAL

### **WARNING**

Do not disregard the relevant product safety guidelines for the sake of convenience or familiarity gained from repeated use.

Improper use or failure to follow the safety rules outlined in the instruction manual may result in serious personal injury.

### **IMPORTANT SAFETY PRECAUTIONS FOR BATTERY PACKS**

- Before using the battery packs, please carefully read all the instructions on it and the warning signs on the products you are going to use the battery on.
- Do not disassemble or modify the battery pack. Otherwise, it may cause fire, overheat, or explode.
- If the runtime of the battery becomes too short, stop using it immediately. Otherwise, it may cause overheating, fire, and even explosion.
- If electrolyte enters your eyes, rinse them with clean water and seek medical attention immediately; otherwise, your vision may be damaged.
- Do not short-circuit the battery pack:
  - (1) Do not let any conductive material touch the terminals.
  - (2) Avoid placing the battery pack and other metal objects such as nails, coins, etc., in the same container.
  - (3) Do not put the battery pack in water or expose it to rain. A short circuit will generate a large current, cause overheating, and may result in fire or even breakdown.
- Do not store and use tools and battery packs in places where the temperature may reach or exceed 50° C (122° F).
- Do not burn the battery pack even if it is severely damaged or completely broken as it will explode in fire.
- Do not shoot nails at the battery pack, or cut, squeeze, throw, drop, or hit it with hard objects. Otherwise, it may cause fire, overheating, or explosion.

- Do not use damaged batteries.
- The lithium-ion battery attached to this tool must comply with Dangerous Goods Regulations (DGR). Third-party or forwarding agents shall comply with special requirements for packaging and marking when conducting commercial transportation. Consult professionals in the field of dangerous goods for the preparation of transportation projects. At the same time, please comply with (possibly more detailed) national regulations. Please use adhesive tape to protect and not cover the contact information on the surface, and firmly seal the battery so that it cannot be moved in the package.
- When discarding the battery pack, remove it from the tool and dispose of it in a safe place. Please follow local regulations on how to dispose of unwanted batteries.
- Use the battery only for the products specified by VOGLER. Using a battery with an incompatible product will cause fire, overheating, explosion, or electrolyte leakage.
- If you are not planning to use your rechargeable tool for a long time, remove the battery.
- During and after using the tool, the battery pack may become excessively hot, potentially causing burns. Handle the battery pack with care when it is hot.
- Avoid touching the terminals of the tool immediately after use to prevent burns.
- To maintain optimal performance and prevent potential damage, ensure that sawdust, dust, or dirt does not accumulate in the terminals, holes, or grooves of the battery pack.
- Do not operate the battery pack near high-voltage power lines unless the tool is specifically designed for such use. Failure to follow this instruction may result in tool or battery pack failure.
- Keep the battery pack out of reach of children to prevent accidents.

 **WARNING**

Only use the original battery provided with the product. The use of

non-original or modified batteries may cause battery explosions, leading to fire, personal injury, or damage to goods.

### **TIPS ON MAXIMIZING THE BATTERY LIFE**

- Charge the battery pack before it fully discharges. When the tool's power is low, stop the tool and recharge the battery pack.
- Do not recharge a fully charged battery pack. Overcharging will reduce the battery's service life.
- Charge the battery pack within a room temperature range of 10°C to 40°C (50°F to 104°F). Wait for the battery pack to cool down before recharging if it's hot.
- When not in use, remove the battery pack from the tool or charger.
- If the battery is not used for an extended period (more than six months), recharge it once in a while.

### **OPERATION**

#### **WARNING**

Before adjusting or checking the function of the tool for any changes or maintenance, be sure to turn off the power of the tool and take out the battery pack.

### **INSTALLING/REMOVING THE BATTERY PACK**

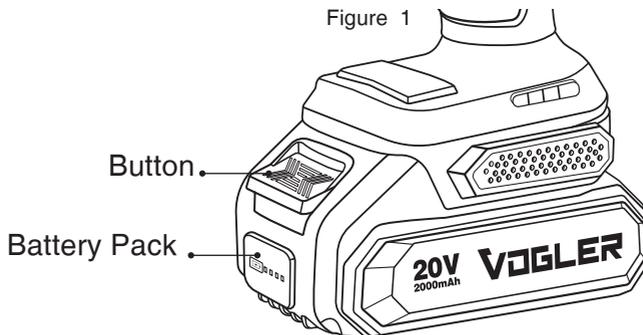
#### **WARNING**

Before installing or removing the battery pack, ensure that the power supply of the tool is switched off.

#### **WARNING**

when installing or removing the battery pack, hold the tool and the pack tight. Otherwise, they may slip from your hands, get damaged, or and even cause personal injury.

Figure 1



When removing the battery pack, press the button located on the front side of the battery pack and pull it out of the tool at the same time. When installing it, ensure the tongue spring on the battery pack aligns with the groove on the cover. Then, push and slide it into place until fully inserted, locking it with a click. If the red indicator on the upper side of the button is still visible after insertion, it indicates that the battery pack is not fully locked.

**⚠ WARNING**

Make sure the battery pack is fully seated and the clip is not visible. Otherwise, it may fall off accidentally from the tool and cause injury to you or others.

**⚠ WARNING**

Do not force the battery pack in. If it is difficult to insert, you might be using an improper insertion method.

## **TOOL / BATTERY PROTECTION SYSTEM**

This tool is equipped with a tool/battery protection system which is designed to automatically cut off the power, when needed, to prolong the life of the tool and battery. During operation, the tool will automatically stop running under the following conditions:

## OVERLOAD

The protection function will activate if the tool is operated in a manner that causes an abnormally high current. In that case, turn the tool off and stop the operation that has led to overload. Restart the tool afterward.

## OVERHEAT

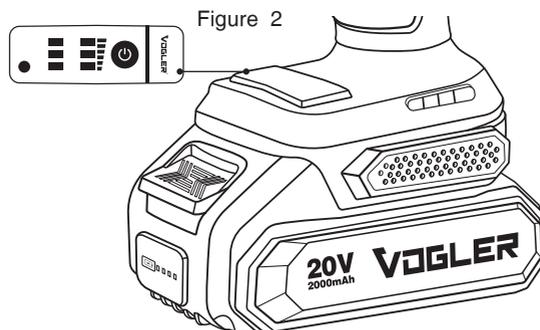
When the tool overheats, it will automatically stop running and the indicator will flash. In this case, wait for the tool and the battery to cool before restarting it.

## OVER-DISCHARGE

This protection function will be activated when the battery gets too low on charge. In such cases, please take the battery out of the tool and charge it.

## BATTERY POWER INDICATOR: EASILY MONITOR REMAINING CHARGE

Press the step-less speed change switch to view the remaining battery power. The indicator will illuminate for several seconds.



## GREEN INDICATOR

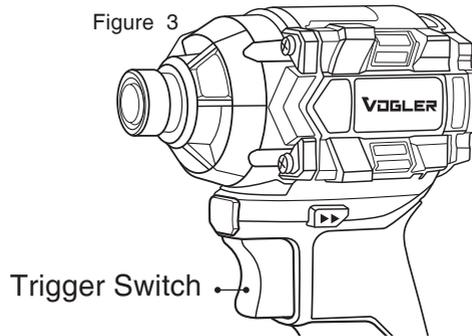
Indicator light Functionality	The light is on 	OFF 	Flashing 
Remaining power			67%-100%
			33%-67%
			0%-33%
Fault Alert			Three Lights Flashing Simultaneously
Under voltage protection			Single Flash Alert

**NOTE:** Under different operating conditions and ambient temperatures, the indicator may show slight deviations from actual power levels.

### FAULT PROMPT GUIDE

- LED Flash: Undervoltage Protection
- LED Continuous Full Flash Once: Short Circuit Protection
- LED Full Flash For 2 Consecutive Times: Battery Pack Over-Temperature Protection
- LED Flashes Three Times Continuously: Controller MOS Tube Over-Temperature Protection
- LED Flashes Four Times Continuously: Motor Locked-Rotor
- LED Flashes Continuously For 5 Times: Overcurrent Protection
- LED Continuously Flashes For 6 Times: Protection Against Sudden Power Failure
- LED Full Flash For 8 Consecutive Times: Overvoltage Protection
- LED Flashes For 9 Consecutive Times: Forward and Reverse Switching Abnormal Protection

## SWITCH'S FUNCTION

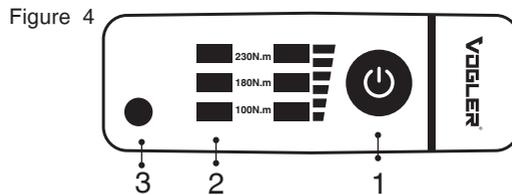


### **WARNING**

Before inserting the battery pack into the tool, be sure to check whether the switch trigger can be pulled freely and can return to the “OFF” position when it is released.

When starting the tool, just pull the trigger switch (.1). As the pressure on the trigger increases, the tool speed will increase. Release the trigger for the tool to stop.

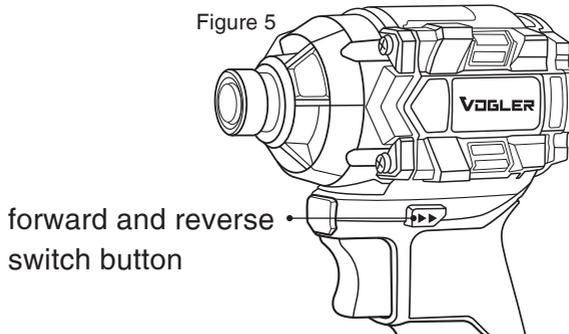
## REGULATION OF FUNCTION



Indicator (2) displays the torque level ranging from 100N.m to 230N.m. Adjust the force by pressing trigger switch (1). Use button number (3) to change the device's direction.

## REVERSE SWITCH FUNCTION

Figure 5



### **⚠ WARNING**

Check the rotational direction of the tool before operation.

### **⚠ WARNING**

The reverse switch can only be used when the tool has completely stopped rotating. Changing the direction of rotation before the tool stops running, may damage the tool.

### **⚠ WARNING**

When the tool is not in use, make sure the reverse switch button is in the neutral position.

This tool features a reverse switch for altering the rotation direction. Press the reverse switch button located on the front to rotate clockwise; Press from the rear to rotate counterclockwise. When the reverse switch button is in the neutral position, the trigger switch cannot be pulled.

## **AUTO-STOP REVERSE ROTATION FEATURE**

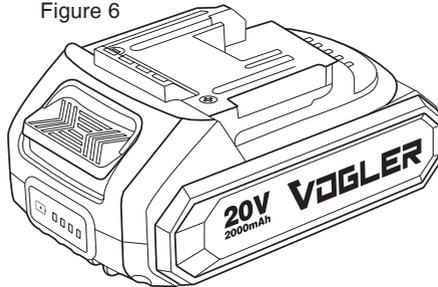
When the trigger switch is pressed, the function adjustment panel lights up. To activate the auto-stop reverse rotation function, simply press the forward or reverse switch key.

**⚠ WARNING**

Avoid direct eye contact with the light or light source.

## BATTERY PACK

Figure 6



### HOW TO USE AND MAINTAIN THE BATTERY PACK

Protect the battery pack from moisture. The battery pack must be stored in an environment of 0 to 45 degrees Celsius. Do not leave the battery pack in the car during summer. If the service time of the pack is significantly shortened after charging, it has been damaged and must be replaced with a new one.

### CONTINUOUS USE

If the battery becomes exhausted during continuous use, allow the tool to cool for 15 minutes before replacing the battery pack with a new one.

### OVER-DISCHARGE PROTECTION

The machine is equipped with an over-discharge protection circuit. When the battery power is insufficient, the protection circuit will be opened and the machine will stop rotating.

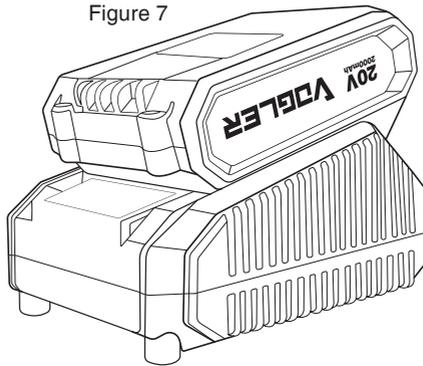
### DISPOSAL OF WASTE BATTERY PACKS

To protect natural resources, please properly recycle or dispose of the battery pack. The battery contains a lithium battery. Please consult the

relevant local authorities for information on recycling (/or) treatment. After the battery pack is discharged, remove the battery pack and wrap the terminal with strong adhesive tape to avoid short circuits and leakage. It is absolutely forbidden to try to open or take any parts or components.

## BATTERY PACK CHARGING

Figure 7



### BATTERY CHARGING

- Charge indoors.
- Only use batteries and chargers that match your power tool.
- The battery is only partially charged at the time of delivery. Before using electric tools for the first time, the battery must be fully charged to ensure its power.
- Lithium batteries can be charged at any time without shortening their service life. If the charging process is suddenly interrupted, the battery will not be damaged.
- It takes 60 minutes for a fully depleted 2.0AH battery, 120 minutes for a 4.0AH battery, 180 minutes for a 6.0AH battery, and 240 minutes for an 8.0AH battery to recharge at temperatures ranging from 0 to 45°C.
- An NTC temperature monitoring device is installed on the battery. The battery can be charged when the temperature is between 5 and
- Please adhere to the regulations regarding the disposal of lithium batteries.

## UNDERSTANDING THE CHARGER INDICATOR LIGHTS

Indicator Light	State
The red light is always on	Charging
The green light is always on	Standby/charging completed

Part	Hazardous substances					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent chromium (Cr(VI))	Polybrominated biphenyls (Pb)	Polybrominated diphenyl ethers (Pb)
Enclosure	0	0	0	0	0	0
Switch	0	0	0	0	0	0
Charger	X	0	X	0	0	0
Battery	X	0	0	0	0	0
Electric Machinery	X	0	0	0	0	0
Circuit board	X	0	0	0	0	0
Copper insert	X	0	0	0	0	0
Working head	0	0	0	0	0	0
Working head clamping or fixing device	0	0	0	0	0	0
Other parts	0	0	0	0	0	0

0: It means that the content of the hazardous substance in all homogeneous materials of the component is below the limit specified in GB/T26572. 7 0: It means that the content of the hazardous substance in at least one homogeneous material of the component exceeds the limit specified in GB/T26572. Some hazardous substances listed above in the products exceed the limit requirements due to production process and technology but are all listed in the EU exemption for hazardous substances control. Please rest assured to use them within the environmental protection service life.

## SERVICE AND MAINTENANCE

- Get your power tool serviced regularly by a qualified repair person using only identical replacement parts. This will help maintain the safety and performance of your power tool.
- Follow instruction for lubricating and changing accessories.
- Keep handles dry, clean and free from oil and grease.

## CAUTION

**For your safety:** Always ensure the tool is switched off, unplugged, and the battery cartridge is removed before attempting to perform inspection or maintenance.

**Maintain airflow:** Regularly clean the tool's air vents to prevent overheating and ensure optimal performance. Clean them more frequently if working in dusty environments.

**Cleaning:** Never use gasoline, benzine, thinner, alcohol, or the like. Discoloration, deformation, or cracks may result.

**Professional maintenance:** For optimal safety and reliability, we recommend that repairs, and any other maintenance tasks beyond user capabilities be performed by an Authorized VOGLER Service Center using genuine VOGLER replacement parts.

**Environmental Protection:** This electronic device contains components that require special disposal. To protect resources and the environment, please do not throw it away with regular household garbage. Recycle this product through your local electronics recycling program. If you have any questions, you can also contact your local waste management office or a certified electronics recycler.



[www.voglertools.de](http://www.voglertools.de)



[voglertools](https://www.instagram.com/voglertools)



[Vogler Tools](https://www.facebook.com/VoglerTools)