KRAFTWERK®

FAVORITE TOOLS SINCE 1979

EN

Instruction Manual

Cordless impact drill 20 V 4 Ah 100 Nm

404.000.002

20 V	Li-Ion 20 V 4000 mAh
40 min	1.5-13 mm
max. 100	0- 500 1750 (1 min.)
1 min. 0-9600 0-32000	1.65 kg
13 mm 13 mm 40 mm	



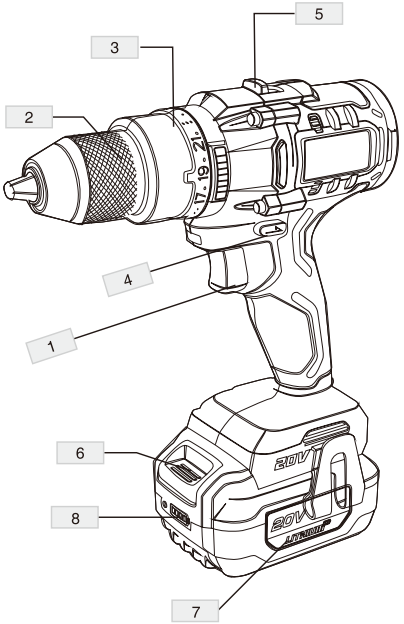


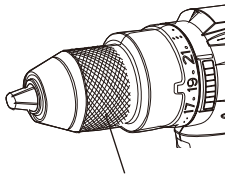
DESCRIPTION OF THE TOOL

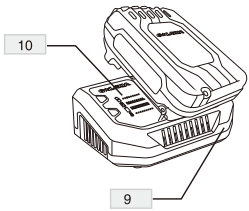
OPERATING CONTROL

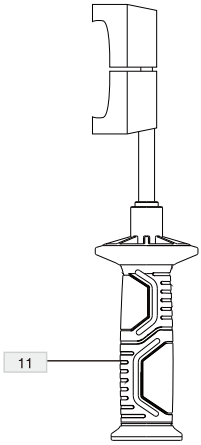
Read,understand and follow all safety rules and instructions before using this tool. Please keep this manual for future reference.

1. MAIN PARTS









1.On/Off switch
2.Keyless chuck
3.Torque-adjustment ring with impact function
4.Direction-of-rotation switch
5.Two speed adjustment switch
6.Battery pack release button
7.Battery pack
8.Power display button
9. Charger
10.Charger indicator
11.Auxiliary handle

2、TOOL SPECIFICATIONS

Model	404.000.002
Rated voltage(V)	20
No load speed(min^{-1})	0-500/0-1750
Impact rate(BPM)	0-9600/0-32000
Max torque(N.m)	100
Chuck size(mm)	1.5-13 mm

NOTE:
1: Due to Kraftwerk's continuing program of development, the specifications herein are subject of change without prior notice.

GENERAL SAFETY RULES

⚠ **WARNING:** Read all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or serious personal injury.

SAVE THESE INSTRUCTIONS
The term "power tool" in all of the warnings listed below refers to your mains operated (corded) power tool or battery operated (cordless) power tool.

1.Workplace
1）Keep workplace clean and well lit. Cluttered and dark workplaces 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.

2.Electrical safety
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 conduits, radiators, 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.

3.Personal safety
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 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 person- al injuries.
3)Avoid suddenly starting. Ensure the switch is in the off position before plugging in. When your finger on the switch or plugging in power tools that have the switch on invites accidents.
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 these devices can reduce dust related hazards.

4.Power tool use and care

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 does 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 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 tools 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 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.

5.Battery tool use and care
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 accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.
6.Service
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.

SAFETY RULLES FOR BATTERY PACK

1.Avoid unintentional switching on, ensure the on/off switch is in the off position before inserting battery pack. Carrying the power tool with your finger on the on/ off switch or inserting the battery pack into power tools that have the switch on invites accidents.
2.Do not open the battery. Danger of short-circuiting.
3.Protect the battery against heat, e.g., also against continuous sun irradiation and fire. There is danger of explosion.
4.In case of damage and improper use of the battery, vapors may be emitted.Provide for fresh air and seek medical help in case of complaints. The vapors can irritate the respiratory system.
5.When the battery is defective, liquid can escape and come into contact with adjacent components. Check any parts concerned. Clean such parts or replace them, if required.
6.Use the battery only in conjunction with KRAFTWERK power tool. This measure alone protects the battery against dangerous overload.
7.Only use charge the battery with the KRAFTWERK charger. Use with other type of charger may result in a fire.
8.Do not crush, drop or damage the battery pack. Do not use a battery pack or charger that has been dropped or received a sharp blow. A damaged battery is subject to explosion. Properly dispose of a dropped or damaged battery immediately.
9.Do not charger a battery tool in a damp or wet location. Following this rule will reduce the risk of electric shock.

SAFETY RULLES FOR CHARGER

1.Protect the battery charger from rain and moisture. Water penetration in a battery charger increases the risk of electric shock.
2.Do not charge other batteries. The battery charger is suitable only for charging KRAFTWERK lithium-ion batteries within the listed voltage range. Otherwise there is danger fire and explosion.
3.Keep the battery charger clean. Contamination may increase the risk of electric shock.
4.Before using, always check the charger, cable and plug. If defects are detected, do not use the charger; never open the charger. Instead, have it opened and repaired only by qualified personnel who will use original spare parts. Damaged chargers, cables and plugs increase the risk of electric shock.
5.Do not operate the charger on easily inflammable surface (e.g. paper, textiles, etc.) or combustible surroundings. The heating of the charger during

charging may cause a fire.
6.Plug the charger within the listed voltage range on the charger.
7.Unplug the charger from the electrical outlet before attempting any maintenance or cleaning to reduce the risk of electric shock.
8.Disconnect charger form the power supply when not in use. This will reduce the risk of electric shock or damage to the charger if metal items should fall into the opening.
9.Risk of electric shock. Do not touch the un-insulated portion of output connector or un-insulated battery terminal.

ADDITIONAL SAFETY RULES FOR DRILL

1.Use suitable detectors to determine if utility lines are hidden in the work area or call the local utility company for assistance. Contact with electric lines can lead to fire and electric shock. Damaging a gas line can lead to explosion. Penetrating a water line causes property damage.
2.Switch off the power tool immediately when the tool inserts jams. Be prepared for high reaction torque that can cause kickback. The tool insert jams when:
--the power tool is subject to overload or
--it becomes wedged in the workpiece.
3.Hold the power tool only by the insulated grpping surfaces, when performing an operation where the cutting tool may run into hidden wiring. Contact with a “live” wire will make exposed metal parts of the tool “live” and shock the operator.
4.Hold the power tool with a firm grip. High reaction torque can briefly occur while driving in and loosening screws.
5.Secure the workpiece. A workpiece clamped with clamping devices or in a vice is held more secure than by hand.
6.Keep your workplace clean. Blends of materials are particularly dangerous. Dust from light alloys can burn or explode.
7.Always wait until the power tool has come to a complete stop before placing it down. The tool insert can jam and lead to loss of control over the power tool.
8.The tool can only be used with battery 5150 series together.
9.Never use the battery pack as a hammer, beat the battery pack could result in accident short, fire or explode.

⚠ **WARNING:** Some dust created by power Cutting contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- lead from lead-based paints
- Arsenics and chromium from chemically reacted lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment.

STANDARD ACCESSORIES

- Clip
- Charger
- Battery pack

Be sure to check the accessories as it is subject to change by areas and models.

ASSEMBLY

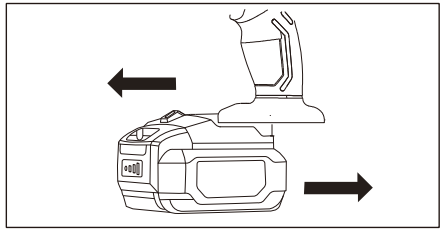
⚠**CAUTION!** Always be sure that the tool is switched off before assembly, including insertion or removal of the battery pack.

1.Installing the Battery Pack

• Align the ribs on battery pack with the slots on the bottom of tool.
• Slide the battery pack into the tool.
• Make sure the latches on each side of the battery pack snap in place and securely attach to the tool.

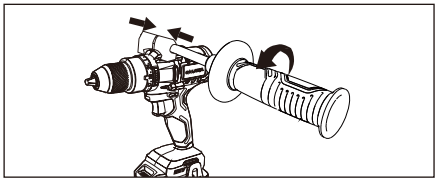
2.Removing the Battery Pack
1)Depress the release button on each side of the battery pack.
2)Slide the battery pack backward off the tool.

⚠**WARNING!**
Always be sure that the tool is switched off before insertion or removal of the battery pack.



3.Installing Adapter/Driving Bits
Pull the collet sleeve forward and insert the hex shank of the adaptor/driving bit into the collet. Release

the collet sleeve and slowly pull the adapter/driving bit forward with proper force until the detent pin inside the collet is engaged with the groove on the shank.
4.Selecting Correct Socket
Always use the correct size socket for bolts and nuts. An incorrect size socket will result in inaccurate and inconsistent fastening torque and/or damage to the bolt or nut.
5.Installing Socket
Insert the square end of the socket into the socket end of the adapter with proper force.
6.Installing Auxiliary Handle
Always make sure the auxiliary handle is secure before any job takes place as a loose handle could invite injuries.
The auxiliary handle is secured to the equipment by a clamp. Turning the auxiliary handle anti-clockwise tightens this clamp. Turning it clockwise will release the clamp.



OPERATION

1.Switching On and Off
Ensure that the tool is in good condition.
The trigger switch of this tool features variable speed control. Slowly depress the trigger switch, the tool will be turned on and runs from slow to fast. The tool reaches its full speed when the trigger switch is fully depressed. Fully release the trigger switch will turn the tool off.
2.Forward/Reverse Selection
The rotation direction of the tool can be preset through pushing the forward/reverse selector to the left or right. This can only be done when the tool has come to a complete stop.

⚠ **Note:** Putting the selector at the center position will lock the switch and prevent accidental starting of the tool.

3.Driving/Loosening Screws/Bolts
1) Use the proper bit/socket for the screw/bolt that you wish to work on.
2)Before starting your job, always perform a test operation to determine the proper fastening torque.
3)When fastening screw M8 or smaller, carefully adjust pressure on the switch trigger so that the screw is not damaged.
4) Hold the tool pointed straight at the screw/bolt to be worked on. Apply forward pressure to the tool to the extent that the bit will not slip off the screw and turn the tool on to start operation.
5) Do not tighten the screw/bolt too long to avoid damaging it.

⚠ **Note:** The proper fastening/loosening torque may differ depending upon the kind or size of the screw/bolt, the material of the work piece to be fastened, etc. The proper fastening torque may differ depending upon the kind or size of the bolt. Check the torque with a torque wrench.

⚠ **Note:** Your 20V tool has a "sleep" mode that helps to extend the run time of the battery.After a period of non-use, the tool will hesitate slightly before starting. This is the battery coming out of "sleep" mode and is normal.

APPLICATIONS

⚠ WARNING: Apply the power tool to the screw only when it is switched off. Rotating tool inserts can slip off.

Check and make sure the direction-of rotation switch 5 is at the correct setting (left or right), hold the drill firmly on the insulated grip, and place the drill bit at the point to be drilled. Move the drill bit into the workpiece, applying only enough pressure to keep the bit cutting. Do not force the drill or apply side pressure to elongate a hole. Let the tool do the work.

NOTE: If the bit jams in the workpiece or if the drill stalls, stop the tool immediately. Remove the bit from the workpiece and determine the reason for jamming.

TOOL MAINTENANCE

⚠ WARNING: Before any work on the machine itself, remove the battery pack from the drill.

1.Inspect bolts periodically. If the bolts loosen, tighten them immediately, or will result in serious accident.
2.Inspect tool cords periodically. If damaged, have repaired at your nearest Authorized Service Center.
3.Keep the vents clean. Clean all parts of the tool, clean dust periodically. To prevent debris from entry.
4.All service MUST only be performed by Authorized Service Center. ALWAYS use only accessories that are recommended for this tool.
5.Cleaning. Avoid the use of plastic cracks caused by damage to the solvent. Use clean cloths and mild soap to remove dirt, dust, etc.

⚠ WARNING: Do not allow the water entering the motor and the tool full immersed in the ware, which will result in motor malfunction and electric shock.

ENVIRONMENT PROTECTION



1.Tool, accessories and packaging should be sorted for environment-friendly recycling.
2.Power tools and accessories at the end of their service life still contain large amounts of valuable raw materials and plastics which can likewise be fed back into a recycling process.
3.Some dust created by working contains harmful chemicals must be collected by special garbage recycle site.

SERVICE

1.In case of guarantee, repair or purchase of replacement parts, always contact the qualified service center. And supplied with the efficient service card and invoice.

2.It is without the scope of guarantee when the tool was normal wear, overload or improper use of damage.

Please contact:
KRAFTWERK Sàrl.
25, rue du Stade
F – 67870 Bischoffsheim
France
Tel. +33-388 48 64 50

Trouble shooting

Problems	Reasons	Ways to Solve The Problems
The machine does not work	Battery is depleted	Charge the battery
Motor overheating	Be sure cooling vents are free from saw dust and obstacles	Clean, clear vents. Do not cover with hand during operation

DECLARATION OF CONFORMITY

Model: 404.000.002
Cordless impact drill 20 V 4 Ah 100 Nm
KRAFTWERK Sàrl, 25 rue due Stade, F-67870 Bischoffsheim

Declares under sole responsibility that the product to which this declaration relates is in conformity with the following standard(s) or other normative document(s):

EN62841-1: 2015
EN62841-2-1: 2018/A11: 2019
EN55014-1: 2017
EN55014-2: 2015

Following the provisions of Directive(s)
Machinery Directive:

2006/42/EC (MD)
2014/30/EU (EMC)

Bischoffsheim, 25/01/2021



Alexander Pieper
CEO



Waste electrical products should not be disposed of together with household waste. Please recycle where designated facilities exists. Check with your local authority or retailer for recycling advice.

- The battery must be removed from the appliance before it is scrapped.
- The appliance must be disconnected from the main power supply when removing the battery.
- The battery must be disposed of safely.

WARRANTY

We do not take responsibility for any damage caused by misuse or any use that is not in compliance with the safety standards described herein.

CUSTOMER SERVICES

Contact your local importer of your specialized dealer to obtain address of our service department.

FROM DATE OF PURCHASE RECEIPT
2 YEAR GUARANTEE
ON MATERIAL OR PRODUCTION DEFECTS

KRAFTWERK®

FAVORITE TOOLS SINCE 1979

KRAFTWERK Group AG
Mettlenbachstrasse 23
CH-8617 Mönchaltorf
Switzerland
Tel. +41-44 949 40 50

KRAFTWERK Sàrl.
25, rue du Stade
F – 67870 Bischoffsheim
France
Tel. +33-388 48 64 50

www.kraftwerktools.com