TOTAL

One-Stop Tools Station

IMPACT DRILL

TG111165,UTG111165

INDUSTRIAL

INNOVATED AND MARKETED BY TOTAL
1 YEAR
WARRANTY QUALITY
WARRANTY

1050W

1. PRODUCT DESCRIPTION

You must abide by certain safety precautions when using the equipment. In order to prevent injuries and damages from occurring, you must always read through this operating manual Carefully.

This manual must be kept in a safe place so that the information that it contains is always available. This operating manual must accompany the equipment if it is transferred to somebody else.

We do not accept any liability for accidents or damage arising from ignoring this manual and the safety instructions.

2. SPECIFICATIONS

Model No.		TG111165	UTG111165
Power		1050W	1050W
Rated Voltage		220-240V~	110-120V~
Frequency		50/60Hz	60Hz
No Load Speed		0-1100 min^{-1},0-3000min^{-1}	0-1100min^{-1},0-3000min^{-1}
Blows Per Minute		0-17600min^{-1},0 -48000min^{-1}	0-17600min^{-1},0 -48000min^{-1}
Chuck Capacity		3-16 mm	1/8″-5/8″
Drill Capacity	Metal	16mm	5 /8″
	Masonry	20mm	3 /4″
	Wood	40mm	1 -9/16″
Weight		3.7kg	3.7kg
Protection class		⧈ /II	⧈ /II

3. ACCESSORIES:

1pcs auxiliary handle
1set carbon brushes
1pcs depth gauge
1pcs chuck key

4. SAFETY INSTRUCTIONS

The following pictograms appear throughout these operating instructions:

Indicates danger of injury, risk to life and possible damage to the appliance if these instructions are not followed.

Indicates the presence of electric shocks.

Read through these operating instructions carefully before using the appliance. Become familiar with the functions and method of operation. To ensure proper operation, always maintain the appliance according to the instructions. The operating instructions and associated documents should always be kept close to the appliance. When using power tools, you must observe the following basic safety precautions in order to ensure protection from electric shocks, injury and fire. Read and follow all the instructions before using this power tool. Look after the notes on safety

Always check if your mains voltage corresponds with the value on the type plate

The machine has been double-insulated in accordance with EN60745: therefore, an earth wire is not necessary

USE CORRECT SUPPLY VOLTAGE: The power supply voltage must match the information quoted on the tools identification plate.

USE PROPER EXTENSION CORD: Only use an approved extension cable that is suitable for the machine's power. The cord must have a diameter of at least 1.00mm^2.When the extension cable is on a reel, unroll the cable in its entirety.

SWITCH OFF THE MACHINE IMMEDIATELY IN CASE OF:

1. Malfunction in the mains plug, power cable or damaging of cable.
2. Broken switch.
3. Smoke or stench of scorched insulation.

5. GENERAL SAFETY RULES

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

Save all warnings and instructions for future reference.

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

1) Work area safety

a) **Keep work area clean and well lit**. Cluttered or dark areas invite accidents.

b) **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.

c) **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

2) Electrical safety

a) **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce risk of electric shock.

b) **Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.

c) **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.

d) **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.**

Damaged or entangled cords increase the risk of electric shock.

e) **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.

f) **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.

3) Personal safety

a) **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.

b) **Use personal protective equipment. Always wear eye protection.** Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

c) **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.**

Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.

d) **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.

e) **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.

f) **Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.

g) **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of dust collection can reduce dust-related hazards.

4) Power tool use and care

a) **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.

b) **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.

c) **Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.

d) **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.**

Power tools are dangerous in the hands of untrained users.

e) **Maintain power tools. Check for misalignment or binding of moving parts,**

breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.

f) **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

g) **Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.

5) Service

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

6. HOW TO USE IMPACT DRILL

Before setting up, repair or maintenance of the appliance you must always turn off the operating switch and pull out the mains plug!

Before Initial Operation

Check if the rated frequency of the mains supply corresponds to the details of the type place.Before using the tool, read the instruction book carefully.

6.1 Wood Drilling

-For maximum performance, use high speed steel bits for wood drilling.

-Move drilling mode selector to drill model.

-Secure the workpiece to prevent it from turning when drilling.

-Begin drilling at a very low speed to prevent the bit from slipping off the starting point. Increase the speed as the drill bit bites into the material.

-When drilling through the holes, place a black of wood behind the workpiece to prevent ragged or splintered edges on the back side of the hole.

-Do not tack the trigger in the "on" position when the drill may need to be stopped suddenly.

6.2 Metal Drilling

-For maximum performance, use high speed steel bits for metal or steel drilling.

-Move drilling mode selector to drilling mode.

-Use a center punch to mark the hole location on the workpiece.

-Begin drilling at a very low speed to prevent the bit from slipping off the starting point.

-Maintain speed and pressure which allows cutting without overheating the bit. Applying too much pressure will:

Overheat the drill

Wear the bearings

Bend or burn bits

Produce off-center or irregular shaped holes

-When drilling large holes in metal, it is recommended to drill with a small bit at first, then finish with a larger bit. Also, lubricate the bit with oil to improve drilling action and increase bit life.

6.3 Masonry Drilling

-For maximum performance use tungsten carbide-tipped masonry act bit when drilling holes in brick, tile, concrete,etc.

-Move drilling mode selector to hammer mode.

-Apply light pressure and medium speed for best results in brick.

-Apply additional pressure and high speed for hard materials such as concrete.

-When drilling in tile, practice on a scrap piece to determine the best speed and pressure.

6.4 Chuck Removal

The chuck of reversible drills are always fixed by a screw with left-hand thread. The screw, which is located in the center of the chuck, must be removed before the chuck can be removed.

1. Tighten the chuck around the shorter end of a hex key of 1/4' in the clockwise direction. This will loosen the screw inside the chuck.
2. Open chuck jaws fully.
3. Insert a screwdriver into front of chuck between jaws to engage screw head. Remove screw by turning clockwise.
4. Place a hex key in chuck and tighten. Using a wooden mallet or similar object, strike key sharply in the counterclockwise direct. This will loosen the chuck so that it can be unscrewed by hand.

6.5 Chuck Installation

1. Screw the chuck by hand as far as it will go and insert screw.
2. Tighten the chuck around the shorter end of a 1/4' or larger hex key strike the longer end in the clockwise direction with a wooden mallet.
3. Remove the hex key and put the screw in the center of chuck. Then tighten the screw firmly.

Hints for use

1. Hold the drill with your first two fingers on the trigger switch.
2. Use the side handle where possible to gain extra control and to prevent fatigue.
3. Use sharp drill bits only.
4. For wood, use twist drill bits, spade bits, power auger bits, or hole saws.
5. For metal use high speed steel twist drill bits or hole saws.
6. For masonry such as brick, cement, cinder block, etc., use carbide tipped drill bits.
7. Be sure that the material to be drilled is anchored or clamped firmly.
8. If drilling thin material use a "back-up" block to prevent damage to the material.
9. Always apply pressure in a straight line with the bit.
10. Use enough pressure to keep the bit biting but do not push so hard that you stall the motor or damage the bit.
11. Hold the drill firmly to control the twisting of the drill.

WARNING

If the drill stalls, release the trigger immediately, remove the drill from the work and determine the cause of the stalling. Do not click the switch on and off as this can damage the motor.

12. To minimize the chance of stalling and breaking through the material, reduce pressure on the drill and ease the bit through the last part of the hole.
13. Keep the motor running when pulling the bit back out of a drilled hole. This will help prevent jamming.

6.6 Switching on and off

1.Connect the plug to the power point.

2.Start the tools by squeezing the on/off bigger switch.

3.Release the trigger to stop the tool.

4.If you press the lock-on button while the trigger switch is depressed, the switch is kept in the operating position.

5.To release the lock-on button, press and release the trigger switch.

6.7 Forward/Reverse lever switch lock

1.The forward/reverse lever switch determines the direction of rotation of the tool and off button.

2.To select forward rotation, release the trigger switch and push the forward/reverse lever switch to the left side of the tool.

3.To select reverse, push the forward/reverse lever switch to the right side of the tool.

4.When changing the position of the lever switch be sure the trigger switch is released and the motor is

stationary.

6.8 Variable speed dial

1.The variable speed dial provides a safety feature to the user when driving screws.

2.You can use this dial to vary the speed.

3.Turn the dial clockwise direction to increase the speed and counterclockwise direction to decrease the speed.

6.9 Drill/Hammer mode selector

1.Set the drilling/hammer selector to the  position to select the hammer mode.

2.Set the drilling/hammer selector to the  position to select the drill mode.

6.10 Speed selection dial

Rotate dial to select the speed range appropriate for the application.

1= 0-1100/min

2= 0-3000/min

NOTE:

Do not operate speed selection dial while the drill is in motion. This will damage the internal components.

6.11 Side handle and depth gauge

1.Rotate the side handle counter-clockwise to loosen the collar and slip it over the chuck onto the drill.

2.2.Insert the depth gauge in the hole of the side handle clomp.

3.The side handle can be rotated through 360° to find the position that offers extra most comfort and the easiest operation.

4.Tighten the side handle by rotating it clockwise.

5.The depth gauge helps achieve an accurate depth when drilling holes.

6.To change the position of the depth gauge, rotate the side handle counter clockwise until the depth gauge is hosing enough to slide through the hole. Set the depth, checking the measurement with a steel rule for more accuracy where required and then rotate the side handle clockwise to tighten both the depth stop and the side handle in the required position.

6.12 Inserting and removing bits

CAUTION. Always ensure that the drill is switched off and the plug is removed from the power point before making any adjustments.

The drill has a key chuck, which means that a chuck key is needed to secure the bit in the drill.

1.Open the chuck by holding the rear section of the chuck firm and rotating the front section in an counter-clockwise direction,sufficient to allow the drill bit to be inserted into the jaws of the chuck.

2.Ensure the drill bit is fully inserted in the chuck.

3.Holding the rear section of the chuck firmly, rotate the front section of the chuck clockwise until the jaws

tighten on the drill bit. The front section of the chuck needs to be a firmly to ensure the bit is held securely.
4.To move the drill bit, hold the rear section of the chuck firmly and rotate sharply the front section of the chuck in a counter-clockwise direction, sufficient to allow the drill bit to be removed.

7. CARE AND MAINTENANCE

Remove the plug from the socket before carrying out any adjustment, servicing or maintenance.

Your power tool requires no additional lubrication or maintenance. Always store your power tool in a dry place.

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.

If a fault can not be rectified, return the drill to an authorized dealer for repair.

Cleaning

unit by rubbing it with a clean cloth or blow it clean using low-pressure compressed air.

Keep the safety devices, ventilation slots and Motor housing as free of dirt and dust as possible.

We recommend that you always clean the unit immediately after using it.

Clean the unit regularly by rubbing it with a damp cloth and a little soft soap. Do not use cleaners or solvents; these will attack the plastic parts in the unit. You must also ensure that water cannot get into the inside of the unit.

Carbon brushes

If excessive sparking occurs you must have the carbon brushes checked by a qualified electrician.

Attention! Only a qualified electrician is allowed to change the brushes.

8. CORRECTIVE ACTION IN CASE OF FAILURE

(1) The operating switch is switched on, but the motor is not working.

-- Wires in the mains plug or in the socket are loose.

Have socket and plug checked or repaired.

-- The switch is faulty.

Have the switch replaced.

(2) The operating switch is switched on, but unusual noises can be heard, the motor is not working or only very slowly.

-- Switch contact has failed.

Have the switch replaced.

-- Component jammed.

Have the electric tool checked or repaired.

-- Too much thrust, as a result the motor is dragging.

Use less thrust during the task.

(3) Motor gets hot.

-- Foreign substances have got inside the motor.

Have the foreign substances removed.

-- Lack of or contaminated lubrication grease.

Have lubricating grease applied or replaced.

-- Pressure too high

Use less pressure during the task

(4) Frequent or strong sparks on the commutator.

-- Short circuit on the armature.

Have the armature replaced.

-- Carbon brushes worn out or jammed

Have the carbon brushes checked.

-- Rough running of the commutator.

Have the surface of the commutator cleaned or ground.

For your own safety, never remove parts or accessories of the electric tool during operation. In case of fault or damage have the electric tool repaired only by a specialist workshop or by the manufacturer.

9. LABELS ON YOUR TOOL (if any)a

V	Volts	**Hz**	Hertz
~	Alternating current	**W**	Watts
n_0	No-load speed	**/min or min^{-1}**	Revolutions or reciprocation per minute
	Class II tool		To reduce the risk of injury, user must read instruction manual
	Wear Ear Protection		Wear Eye Protection

For your personal safety, READ and UNDERSTAND before using.
Save This Instruction For Future Reference

Always Wear Ear Protection With This Tool

Always Wear Eye Protection With This Tool

Always Wear a breathing Mask With This Tool

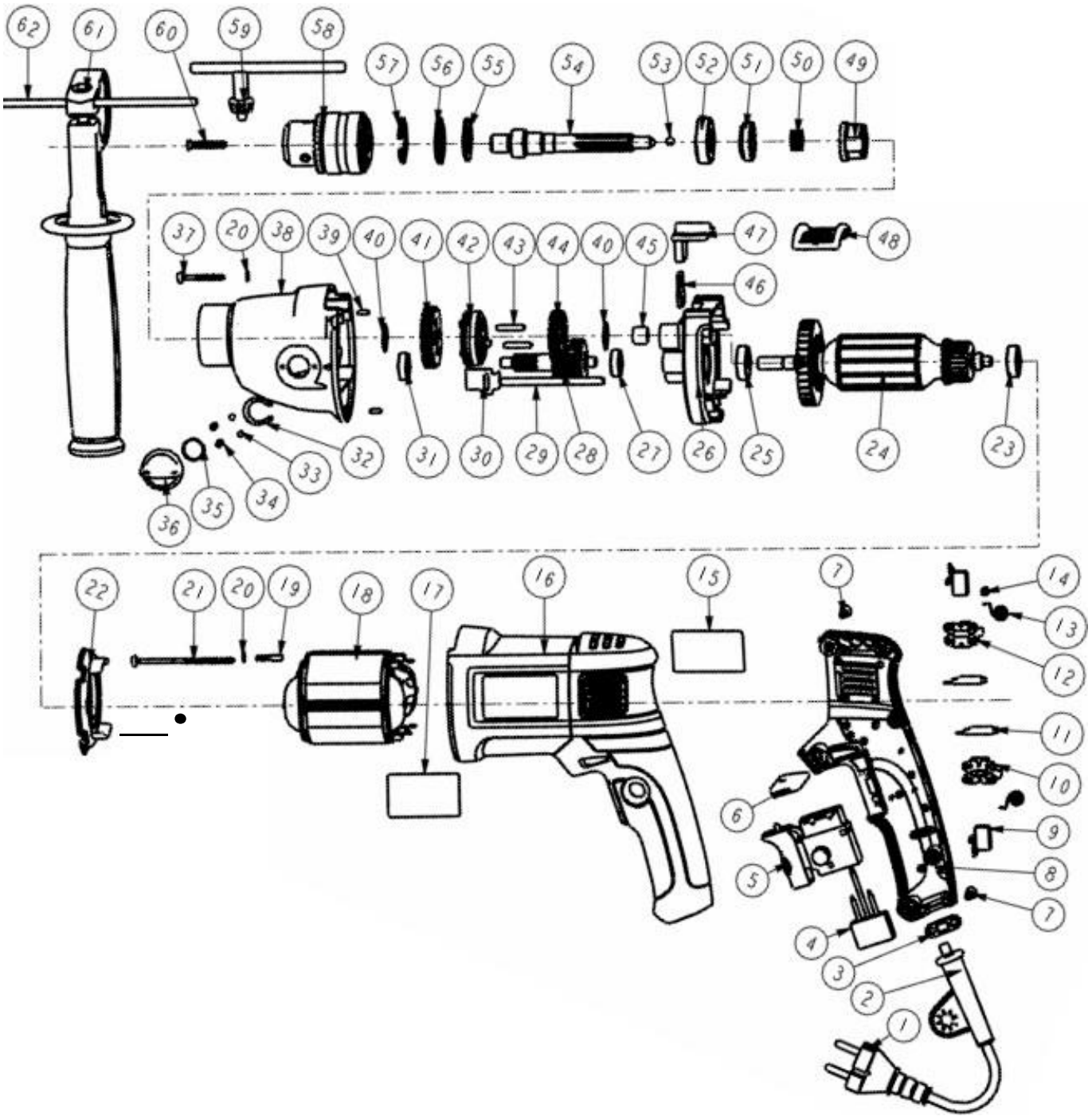
10.ENVIRONMENTAL PROTECTION

00 not dispose of in general household waste. Instead dispose of in an environmental way contact your local recycling center of council for advice. Please take the care of the environment very seriously.

TG111165,UTG111165 Spare part list

1	Cable	32	Circlip for shaft Φ16
2	Cable Armor	33	Ball Φ4
3	Cable Clip	34	Spring A
4	Capacitor	35	Rubber Ring 17
5	Switch	36	Knob
6	Switch Lever	37	Tapping Screw ST4X35
7	Tapping Screw ST4X16	38	Gear Box
8	Right Handle	39	Pin 3X8
9	Carbon Brush	40	Washer
10	Lower brush holder	41	Slow Gear
11	Inductor	42	Clutch
12	Upper brush holder	43	Gudgeon
13	Coil spring	44	Quick Gear
14	Tapping Screw ST3X8	45	Bearing HK081210
15	Right Nameplate	46	Shifting Block
16	Housing	47	Push Button
17	Left Nameplate	48	Push Button Seat
18	Stator	49	Calm Impact Tooth
19	Waveform buckle	50	Spring B
20	Plane Washer Φ4	51	Act Impact Tooth
21	Tapping Screw ST4X70	52	Bearing 6002
22	Fan Guide	53	Ball Φ5
23	Bearing 627	54	Output Spindle
24	Rotor	55	Wool felt
25	Bearing 609	56	Seal Ring
26	Supporter	57	Circlip for shaft Φ32
27	Bearing 627	58	Chuck Φ13
28	Middle Gear	59	Chuck Key Φ13
29	Pin B5X70	60	Anti-clockwise Screw M5X25
30	Slide	61	Side Handle
31	Bearing 607	62	Scale

TG111165JTG111165 Expioding view



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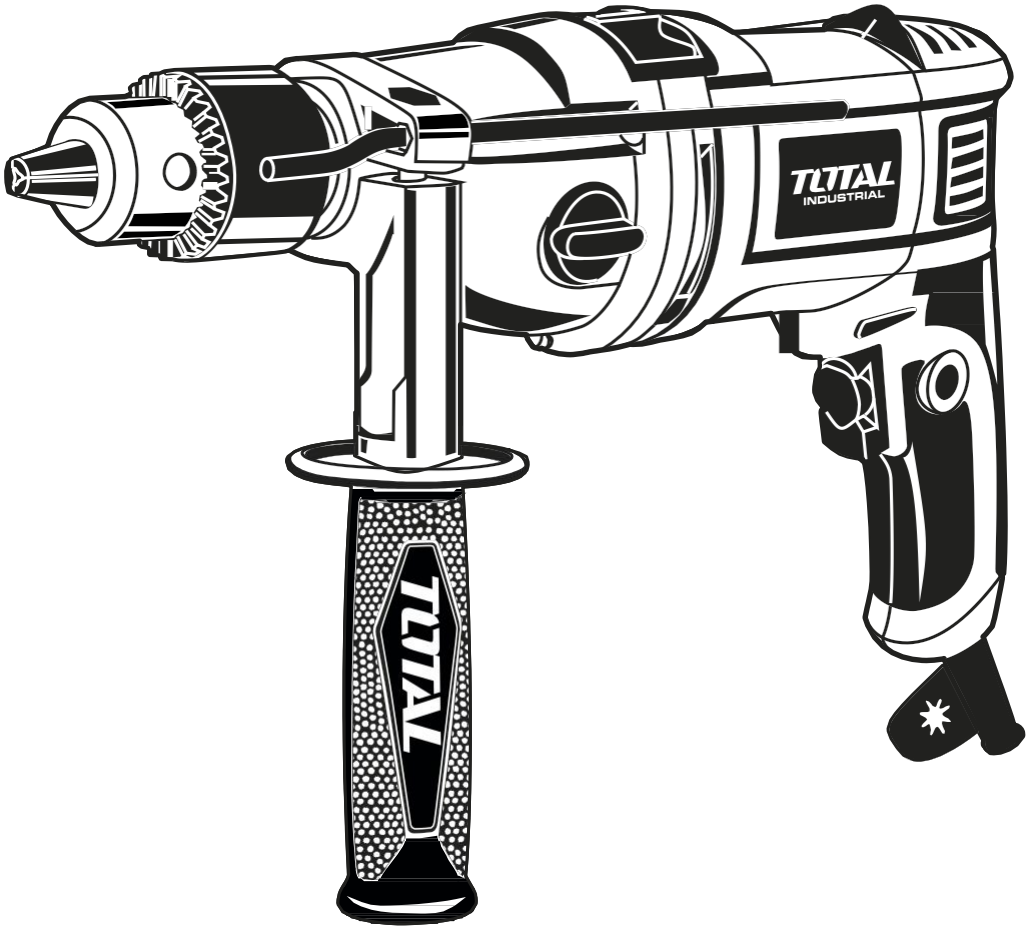

IMPACT DRILL

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