

**SPECIFICATIONS**

	<b>BU 150</b>	<b>BU 150E</b>	<b>BUR 150E</b>
Model	650 W	650 W	600 W
Power input	2800 min <sup>-1</sup>	0-2800 min <sup>-1</sup>	0-2800 min <sup>-1</sup>
No load speed	no	yes	yes
Variable speed	no	no	yes
Reversing	1,5-13 mm	1,5-13 mm	1,5-13 mm
Chuck capacity			
Capacity:			
in steel	13 mm	13 mm	13 mm
in wood	25 mm	25 mm	25 mm
in concrete	15 mm	15 mm	15 mm
Weight	1,5 kg	1,5 kg	1,5 kg
Safety class (EN 50144)	II	II	II



These models SPARKY power tools are supplied from single-phase alternating current mains. They are double insulated according to EN 50144, IEC 60745 and can be connected to grounded or not grounded sockets. These power tools are radio suppressed in compliance with EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3 for radio interference.

**DESIGNATION**

This power tool is designed for impact drilling in steel, wood, plastics, etc. The provided impact-rotary operation mode ensures drilling openings in concrete, stone, masonry and various brittle materials.

**MAIN COMPONENTS**

1. Securing screw (BUR 150E)
2. Chuck
3. Place for spindle fixing
4. Drill journal
5. Operation mode selector switch
6. Ventilation slots
7. Depth gauge
8. Auxiliary handle
9. Reversing switch (BUR 150E)
10. Electronic regulator of rotation speed (BU/R 150E)
11. ON/OFF switch
12. Lock-on button

**ACCESSORIES TO BE USED WITH THIS POWER TOOL**

- Drill bits for metal Ø3 to Ø13 mm
- Drill bits for wood Ø3 to Ø25 mm
- Drill bits for concrete Ø3 to Ø15 mm
- Screwdriver bits with 6,35 mm (1/4") hexagon shaft



**FOR YOUR SAFETY  
READ BEFORE USE!**

**Attention, dangerous operation!**

The small chip and particles separated while operating the power tool, as well touching its rotating parts could cause severe physical injuries, and noise loading from continuous operation could damage the operator's hearing if the below-mentioned instructions and those in the enclosed Safety Instructions are not observed.

**Safety operation instructions and precautions**

Before starting to operate the drill, always check the following:

- Make sure power supply voltage corresponds to the value indicated on the name plate with technical data of the tool.
- Always check the position of ON/OFF switch. The drill must be connected to the power supply socket only when this switch is in OFF position.

● Make sure the cord and the plug are in order. In case the supply cord is damaged, it must be replaced with a special cord or assembly, available from the manufacturer or its service agent, in order to avoid hazard due to the replacement.



**DURING CARRYING OUT ANY WORK,  
PLEASE DO OBSERVE THE FOLLOWING  
SAFETY REQUIREMENTS:**



Do not operate the machine without goggles!



Wear ear protectors!

- Always tie long hair behind and do not wear loose clothing while working.
  - Always keep the cord away from the working area of the drill.
  - Always use the auxiliary handle.
  - Always search for a secure and stable position of your body.
  - Fix the machined piece in vice or in another appropriate way.
  - Unplug the machine prior to any adjustment, repair or maintenance or in case of mains drop out.
  - The chuck key should always be kept in its holder provided on the cord (For machines with three-jaw chuck).
  - Watch out for the initial torque reaction of the drill, especially when drill bit is tight.
  - SPARKY power tools must not be used outdoors in rainy weather, or in moist environment (after rain) or in close vicinity with easily flammable liquids and gases. The working place should be well lit.
  - Noise and vibration values  
The values typical for the device measured according to EN 50144 are:
- |                       |                         |
|-----------------------|-------------------------|
| Sound pressure level  | - 95 dB (A)             |
| Sound power level     | - 108 dB (A)            |
| Weighted acceleration | - 13,5 m/s <sup>2</sup> |

## OPERATING DIRECTIONS

### Switching on - switching off

- Brief activation

Switching on: press ON/OFF switch 11.

Switching off: release ON/OFF switch 11.

- Continuous use

Switching on: press ON/OFF switch 11 and in pressed position lock it by button 12.

Switching off: press ON/OFF switch 11 once and release it immediately.

### Stepless electronic rpm control (BU/R 150E)

Light pressure on ON/OFF switch 11 results in low rotation speed, further pressing the switch results in a stepless increase of the rpm to maximum when reaching the extreme position.

### Selection of rpm value (BU/R 150E)

The necessary speed can be preselected by rotating the regulator dial 10 in direction towards "+" for increasing, and towards "-" for decreasing the speed, thus ensuring the optimum mode for drilling in different materials - metal, wood, plastics, etc.

### Reversing (BUR 150E)

The extreme position of lever 9 to the right is equivalent to clockwise rotation, the extreme position to the left - to anti-clockwise rotation. When the ON/OFF switch 11 is depressed lever 9 can not be actuated. Reversing can be performed only when the spindle is not rotating.

### Operation mode selection



- Drilling holes in metal, wood, etc.

The switch 5 is in its extreme right position the symbol "drill bit" being exposed.



- Drilling holes in concrete, stone, etc.

The switch 5 is in its extreme left position the symbol "hammer" being exposed.

Changing the operation mode may be performed even while the tool is operated.

### Inserting and fastening drill bits

- For three-jaw chuck drills:

Through turning the collar of the chuck 2 clockwise or anti-clockwise the jaws are positioned so the drill bit shank can be inserted inside the choke. By turning the collar of chuck 2 clockwise the jaws tighten the drill bit shank. Fix the drill bit finally in the chuck by means of the special chuck key, tightening equally in all three bores.

- For keyless-chuck drills:

Grip rear collar of keyless chuck and rotate front collar until chuck is opened sufficiently for the tool to be inserted. Grip rear collar and manually rotate front collar until tight. An audible "click" indicates that the chuck has automatically locked.

### Removing the chuck

- For three-jaw chuck drills:

Open the jaws of chuck 2 completely, and by means a screwdriver unwind the left-threaded securing screw. Fix the drill spindle with an open end spanner. Put the special key for chuck tightening in one of the three bores and rotate the chuck anti-clockwise, using the chuck key as a lever, to unscrew chuck 2 from the drill spindle.

- For keyless-chuck drills:

Grip rear collar of keyless chuck 2 and rotate front collar until chuck is opened. By means a screwdriver unwind the left-threaded securing screw. Insert Allen key or screwdriver bit into the chuck and clamp its free end in appropriate way. Position open-end spanner on drill journal and rotate it in anti-clockwise direction.

### Screwing/unscrewing bolts, screws and nuts (BUR 150E)

Following the above-described procedure, tighten the corresponding accessory in chuck 2. Set the operation mode selector switch 5 in the rightmost position or turn it until the "drill bit" symbol could be seen entirely. Select the rotation direction necessary by lever 9. These operations must be performed only at low rpm.



**In case of screwing / unscrewing long bolts and screws there is a danger of slipping the drill.**

### Auxiliary handle

Tighten the auxiliary handle 8 on journal 4 of the drill. In the interests of safety, the auxiliary handle 8 should always be used. The depth gauge 7 can be used for fixing the depth of the drilled bores.

### Recommendations for operation

Apply moderate pressure during drilling in concrete (approximately 80-100 N). Higher pressure will not increase drilling efficiency, but it will lead to decreasing the operation life of the machine. For machines with electronic speed control, drill with speed lower than the maximum, suited to the material.

Use carbide tipped straight shank drill bits.

Take the drill out of the opening from time to time to remove dust.

Watch out the stage of blunting of the bit and change it if considerable decrease of efficiency is observed.

Before drilling large-diameter holes, drill a small pilot hole.

The optimum capacity when drilling in concrete is up to 10 mm, and the possible capacity is up to 15 mm.

### **Maintenance and repair**

These models impact drills do not require any special maintenance. Ventilation slots 6 on the motor casing should be cleaned out periodically. If the drill should happen to fail despite the care taken, please notify the authorised service centres for warranty and post-warranty servicing of SPARKY power tools.

### **Warranty**

The guarantee period for SPARKY power tools is determined in the guarantee card.

Faults due to normal wear, overloading or improper handling will be excluded from the guarantee.

Faults due to defective materials implemented as well as defects in workmanship will be corrected free of charge through replacement or repair.

The complaints for defective SPARKY power tools will be recognised if the machine is sent back to the dealer or is presented to the authorised warranty service centre undismantled, in its initial condition.



### **Environmental Protection**

The machine, accessories and packaging should be sorted for environmental-friendly recycling.

These instructions are printed on recycled paper manufactured without chlorine.

The plastic components are labelled for categorised recycling.