

SPECIFICATIONS

Model	BUR2 160E BUR2 162E	BUR2 160ME BUR2 162ME
Power input	500 W	650 W
No load speed	0-1200/0-3500 min ⁻¹	0-1200/0-3500 min ⁻¹
Variable speed	yes	yes
Reversing	yes	yes
Chuck capacity	1,5-13 mm	1,5-13 mm
Capacity:		
in steel	13 mm	13 mm
in wood	30 mm	30 mm
in concrete	16 mm	16 mm
Weight	1,8 kg	1,8 kg
Safety class (EN 50144)	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.

MAIN COMPONENTS

1. Securing screw
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
10. Electronic regulator of rotation speed
11. ON/OFF switch
12. Lock-on button
13. Speed selector switch

ACCESSORIES TO BE USED WITH THIS POWER TOOL

- Drill bits for metal Ø3 to Ø13 mm
- Drill bits for wood Ø3 to Ø30 mm
- Drill bits for concrete Ø3 to Ø16 mm


READ BEFORE USE!
ATTENTION, DANGEROUS OPERATIONS!

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 (the symbol "O" must not be hidden by the slider).

- 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:


Always wear protective glasses.



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.
 - 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 | - 98 dB (A) |
| Sound power level | - 111 dB (A) |
| Weighted acceleration | - 14 m/s ² |

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.

- Two-speed selector switch

Rotate switch 13 to 180° clockwise or anti-clockwise, in order to select one or the other speed range. The direction of rotation for switching is shown on the switch.

- Stepless electronic rpm control

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

- Selection of rpm value

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

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 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.

ATTENTION! Do not use drill bits with diameters exceeding those specified on the name plate, otherwise the drill will be overloaded.

- Removing the chuck

- For three-jaw chuck drills:

Open the jaws of chuck 2 completely, and by means a screwdriver unwind the left-treaded 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-treaded 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

Following the above-described procedure, tighten the corresponding accessory in chuck 2. Set the operation mode selector switch 5 in the rightmost position 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.

ATTENTION! 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 largediameter holes, drill a small pilot hole.

The optimum capacity when drilling in concrete is up to 12 mm, and the possible capacity is up to 16 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.