



fig. 1

## SPECIFICATIONS

Model

Power input

No load speed

Collet capacity

Wheel diameter, max.

Weight

Safety class (EN 50144)



### MKL 550E

550 W

10 000 - 33 000 min<sup>-1</sup>

Ø6 mm, Ø8 mm

25 mm

1.55 kg

II

### MKL 710CE

710 W

10 000 - 30 000 min<sup>-1</sup>

Ø6 mm, Ø8 mm

25 mm

1.55 kg

II

These models SPARKY power tools are supplied from single-phase alternating current mains. They are double insulated according to EN 50144-1, 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 minor finish processing of metals, plastics and wood by means of abrasive wheels and HSS tools.

## MAIN COMPONENTS

1. Nut
2. Collet
3. Spindle
4. ON/OFF switch
5. Cord with plug
6. Electronic regulator of speed

## ACCESSORIES TO BE USED WITH THIS POWER TOOL

- Grinding wheel with Ø6 shank
- Grinding wheel with Ø8 shank
- Collet Ø6
- Collet Ø8



**FOR YOUR SAFETY  
READ BEFORE USE!**



### Attention, dangerous operation!

Operating with unsecured workpiece or touching the moving parts of the grinder, as well as small particles separated from the machined piece could cause severe physical injuries, and noise loading 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 grinder, 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 straight grinder must be connected to the power supply socket only when this switch is in OFF position (the slider must be in position "O").
- Before starting to operate, check the type of fixing and the maximum number of revolutions of the used tool.
- Check if the tool is well tightened in the collet.
- 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:**



Never operate the machine without goggles!



Wear ear protectors!

- Use of protective gloves is recommended.
- Always tie long hair behind and do not wear loose clothing while working.
- Never switch on the grinder under load.
- Always keep the cord away from the working area of the grinder.
- Unplug the machine prior to any adjustment, repair or maintenance or in case of mains drop out.
- Always search for a secure and stable position of your body.
- Fix the machined piece in vice or in another appropriate way.
- Watch out for the initial torque reaction of the machine or upon jamming the wheel.
- 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	- 84 dB (A)
Sound power level	- 97 dB (A)
Weighted acceleration	- 7,0 m/s <sup>2</sup>

## OPERATING DIRECTIONS

The straight grinder can be used for grinding, cleaning burrs and welds and polishing. It is designated to operate with grinding wheels allowing peripheral speed 45 m/s. Cylindrical collars Ø35 mm and Ø43 mm are shaped on the front of the machine for attaching handles or other accessories. Both models MKL 710CE and MKL 550E are equipped with electronic regulator of rotation speed for choosing the optimum duty. Model MKL 710CE is equipped with electronic device for sustaining constant speed under load.

### Switching on - switching off

- Switching on: push the slider of ON/OFF switch 4 forward until its front end will sag, thus fixing itself, and the symbol "I" will appear.
- Switching off: press the back, lifted end of the switch 4 and release it to move back in its initial position, thus revealing the symbol "O".



**In case ambient temperature is lower than 0°C the straight grinder must be switched on only in "G" position of the speed electronic regulator. After several minutes operation at no-load the straight grinder can be used also in the rest of regulator positions.**

Do not cover ventilation slots 7 with hand during operation.

### Collet replacement

To replace collet 2, take off nut 1 from spindle 3 and then move out the collet forward. Before mounting the collet it is necessary to clean the collet and the spindle aperture.

### Mounting the grinding wheel

Insert the wheel shank into the collet. By means of open end spanner S17 hold spindle 2 and tighten nut 1 by spanner S17. Use only undamaged spanners, otherwise there exists a danger of injuring the nut. Make sure the wheel shank diameter corresponds to the collet aperture.

Tighten the grinding tools as deep as possible into the collet. Dimension  $l_0$  should not exceed a value dependent on grinding tool dimensions (refer to fig.1 and table 1).

Table 1

$d_1$ , mm	$b$ , mm	$l_2$ , mm	$l_0$ , mm
13	25	40	25
16	25	40	25
	32	40	15
	40	40	10
20	10	40	25
	20	40	20
	25	40	15
	32	40	5
25	10	40	25
	16	40	20
	20	40	15
	25	40	10

### Adjusting the rotation speed

The rotation speed can be varied smoothly from position A to G by turning electronic regulator 6, placed on the rear of the straight grinder.

### Maintenance and repair

These models straight grinders do not require any special maintenance. It is recommended to clean the machine from the dust separated during operation. Any work on the machine, save wheel replacement, must be accomplished by authorised persons in 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 are to 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.