



## SPECIFICATIONS

	<b>M 902</b>	<b>M 902A</b>	<b>M1200A</b>
Model	900 W	900 W	1200 W
Power input	9000 min <sup>-1</sup>	9000 min <sup>-1</sup>	9500 min <sup>-1</sup>
No load speed	M14	M14	M14
Spindle thread	20 mm	20 mm	20 mm
Spindle thread length	22,23 mm	22,23 mm	22,23 mm
Wheel arbor	150 mm	125 mm	150 mm
Wheel diameter, max	6 mm	6 mm	6 mm
Wheel thickness, max.	2,5 kg	2,5 kg	2,5 kg
Weight	II	II	II
Safety class (EN 50144)			



This model SPARKY power tool is supplied from single-phase alternating current mains. It is double insulated according to EN 50144, IEC 60745 and can be connected to grounded or not grounded sockets. This power tool is 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 cutting, grinding and brushing mainly metals without using water.

## MAIN COMPONENTS

1. Spindle
2. Wheel guard
3. Base support washer
4. Grinding / cutting wheel
5. Lock nut
6. Auxiliary handle
7. ON/OFF switch
8. ON/OFF switch locking button
9. Spindle lock button

## ACCESSORIES TO BE USED WITH THIS POWER TOOL

10. Wire cup brush
11. Plastic (rubber) backing pad
12. Sandpaper or polishing bonnet
13. Lock nut



**FOR YOUR SAFETY  
READ BEFORE USE!**



### Attention, dangerous operation!

The small particles separated from the abrasive wheel and from the machined piece, as well as touching rotating parts of the grinder could cause severe physical injuries, and noise loading from continuous operation could damage the operator's hearing if the below-mentioned requirements 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 angle grinder 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 grinding wheel diameter and thickness do not exceed the values specified on the name plate. The peripheral speed indicated on the wheel must not be less than 80 m/s. The wheels must be stored according the recommendations of the manufacturer.
- 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 use the auxiliary handle and hold the grinder with both hands.



- Never operate the machine without goggles!



- Wear ear protectors!

- Never switch on the grinder under load, and leave it down only after final rotation stop.
- Always keep the cord away from the working area of the wheel.
- Fix the machined piece in vice or in another appropriate way.
- Fasten the working wheel only by a special wrench, using the original base support washer and lock nut.
- Never use grinding wheels with cracks and indents.
- Never apply side pressure to stop the wheel rotation after switching off the grinder, or when using wheels for cutting.
- Unplug the machine prior to any adjustment, repair or maintenance or in case of mains drop out.
- When operating in dusty environment, the ventilation slots must be kept clean. If it should become necessary to clear dust, first disconnect the tool from the mains supply (use non metallic objects) and avoid damaging internal parts.
- Do not use reduction bushes or extensions to adapt wheels with arbour exceeding the recommended.
- Ensure that the sparks, separated during operation, are not a threat for people or that they do not fall on inflammable substances.

- 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	- 92 dB (A)
Sound power level	- 105 dB (A)
Weighted acceleration	- 5 m/s <sup>2</sup>

## OPERATING DIRECTIONS

### Switching on - switching off

The grinding machine is secured against unintentional switching on.

- Switching on: first press auxiliary locking button 8 placed at the upper side of the grip handle, then press the main lever of switch 7.

For continuous work switch 7 can be locked with auxiliary button 8, then the lever of switch 7 can be released.

- Switching off: release switch 7; in case the switch is locked, first press and then release that switch.

### Wheel guard

Wheel guard 2 must always be mounted on the machine! The wheel guard can be rotated as necessary after turning off the clamping bolt by a screwdriver. Its position can be different and depends on which side the auxiliary handle is placed, as well as when the machine is mounted on a stand.

### Grinding wheel replacement

Secure spindle 1 by depressing the spindle lock button 9 provided on the gear case.



#### **Never press the button while the spindle is still rotating!**

(With this button depressed turn the spindle in direction opposite to that shown on wheel guard 2, till its pronounced going deeper). Unscrew lock nut 5 by a lock nut wrench. Place the new wheel on base support washer 3 with the inscriptions facing up, and screw down nut 5 facing its flat side towards the wheel, using the lock nut wrench. Use blotters if the wheel has been delivered with them. After replacing the wheel operate the machine with the new wheel in no load mode for one minute. Vibrating or otherwise improperly rotating wheels must be replaced immediately and discarded. Cup brushes 10 are screwed directly on spindle 1 by means of an open-end spanner. (Check if the brush thread length is sufficient to accept the spindle thread). Grinding and polishing with abrasive sanding wheels is accomplished by means of plastic rubber backing wheel (pad) 11, under which sanding wheels and polishing jackets 12 are mounted. Place plastic pad 11 on base support washer 3 and secure it with lock nut 13, delivered with the tool. In case the flexible backing pad is equipped with a flange nut, the pad is screwed directly onto the spindle by a spanner without using lock nut 5. The pad with flange may be a resin filled sponge, foam polyurethane sponge with plastic insert for the nut with hook-and-loop fastening to the sandpaper or the bonnet. After replacing the pad perform a trial run for at least 30 sec at no load. Vibrating or otherwise improperly rotating pads must be replaced immediately.

### Auxiliary handle

Usually auxiliary handle 6 is screwed on the machine left side. It can be screwed also on the machine right side if this is more convenient for the operator.

### Recommendations

When cutting, do not apply pressure, do not oscillate the wheel. Work with moderate feed rate, suited to the material to be machined.

The direction of cutting is very significant. The machine must always be fed against the direction of wheel rotation. Otherwise, danger exists for the wheel to be forced uncontrolled out of the cut.

When cutting profiles or rectangular pipes, it is best to start with the smallest cross section.

When grinding do not apply pressure to the processed surface by rearing down on the machine but move the wheel regularly backwards and forwards. Special wheels should be used for work on non-ferrous metals (e.g. aluminium). Best results when roughing can be achieved with the wheel inclined at 30° to 40° to the processed surface. Never use cutting wheels for roughing operations. Usage of wheels thicker than 6 mm is not recommended.

### Maintenance and repair

This grinding machine does not require any special maintenance. Any work on the machine, save wheel replacement and guard turning to the fixed angle, 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 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.