



SPECIFICATIONS

Model
 Power input
 No load speed
 Flexible backing pad
 Polishing/sanding accessory
 Spindle thread
 Spindle thread length
 Weight (without accessories)
 Safety class acc. EN 50144



PMB 1200CE
 1200 W
 600-2800 min⁻¹
 Ø148
 Ø180_{max}
 M14
 20 mm
 2,5kg
 II

This power tool is supplied from single-phase alternating current mains. It is double insulated according to EN 50144 and 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 rough and fine dry grinding, refurbishing and brushing, polishing and rubbing all kinds of surfaces at optimum chosen rotation speed.

MAIN COMPONENTS

1. Spindle
2. Flexible backing pad
3. Auxiliary handle
4. ON/OFF switch
5. ON/OFF switch locking button
6. Spindle lock button
7. Accessory
8. Thumbwheel for electronic speed preselection
9. Protective cover
10. Screw

ACCESSORIES TO BE USED WITH THIS POWER TOOL

Wire brush
 Sandpaper Ø150 mm
 Polishing bonnet



**FOR YOUR SAFETY
 READ BEFORE USE!**

**Attention, dangerous operation!**

The small particles separated from the machined piece, as well as touching rotating parts of the power tool 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 power tool, 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 machine 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:**



Always wear goggles, ear defenders and dust mask.

- Always use the auxiliary handle and the protective cover (in case the machine is completed with it) and hold the machine with both hands.
- Wear protective gloves and stable footwear. Wear an apron if necessary.
- The polishing accessory should be properly mounted and should rotate freely. Perform a trial test for at least 30 sec at no load. Do not use damaged, non-circular or vibrating polishing or sanding accessories.
- Strictly observe manufacturer's directions for mounting and utilization of the polishing and sanding accessories.
- This power tool is designed for dry sanding only.
- Do not process materials containing asbestos.
- Do not fasten the machine in a vice.
- Use only accessories, which marked maximum speed does not exceed the maximum no load speed of the machine.
- Guide the machine towards the processed material only if the machine is switched on.
- Protect the sanding accessories from shocks and grease. Do not use damaged or worn out accessories for polishing and fine sanding.
- Keep your hands away from rotating accessories.
- Observe the direction of rotation. Always guide the machine in such a way that dust released when polishing or brushing can scatter away from your body.
- Never switch on the machine under load, and leave it down only after final rotation stop.



The polishing/sanding accessory is still rotating even after the machine has been switched off.

- Do not apply side pressure to stop the pad rotation after switching the machine off.
- Fix the machined piece in vice or in another appropriate way.
- Never mount circular blades or grinding wheels for angle grinders.
- Use only accessories corresponding entirely to the processed material and the speed.

- Unplug the machine prior to any adjustment, repair, maintenance or in case of mains drop out.

- This power tool must not be used outdoors in rainy weather, in moist environment (after rain) or in close vicinity with easily flammable liquids and gases. The working place should be well lit.
- Ensure that the working area is not cluttered.
- Noise emission and vibration values

The values, typical for the device, measured in accordance with EN 50144 are:

Sound pressure level	- 87 dB (A)
Sound power level	- 100 dB (A)
Weighted acceleration	< 2,5 m/s ²

OPERATING DIRECTIONS

Switching on - switching off

The polisher is secured against unintentional switching on.

Switching on: first press the auxiliary button 5 placed at the upper side of the grip handle, and then press the main lever of switch 4.

Switching off: release switch 4; in case the switch is locked, first press and then release that switch.

Electronic control



Do not operate the machine if the electronic device is out of order, because this is associated with increasing the rpm. Electronic device failure can be detected by the lack of soft start or inability to select rpm value.

The polisher has been designed with sinusoidal electronic control featuring:

- Soft start and restriction of the starting current
The soft start allows smooth initiating the machine without jerks and prevents mains voltage fluctuations.

- Electronic speed preselection

This feature ensures smooth speed control, depending on the type of operation. The speed can be adjusted in the range 600-2800 min⁻¹ (acc. Table 1).

Table 1

Position	Speed, min ⁻¹
A	600
B	900
C	1200
D	1500
E	1900
F	2300
G	2800



Select the appropriate speed for the operation by thumbwheel 8 (acc. table 2). Use the right tool for the operation and speed chosen.

Table 2

Material	Accessories	Application	Thumbwheel position
Painted and varnish coated surfaces Plastics Wood Stone	Operation with polishing paste Brilliance polishing	Felt wheel, polishing sponge, lamb wool-polishing bonnet, wool disc	A,B
Plastics Non-ferrous metals Stone	Polishing	Felt wheel	C
Plastics Wood Non-ferrous metals	Smoothing surfaces	Sandpaper	E,D
Metals Wood	Paint removal	Sandpaper	F
Metals Wood	Rust removal Brushing	Wire brushes	F
Wooden profiles Window frames	Re-sanding and brushing dry cracked paint	Wire brushes	G

For polishing do not use speed higher than the selected by position E of the thumbwheel.

Constant electronic speed control

The feature provides automatically maintaining high rotation speed to limit speed reduction regardless of loading.

Thermal overload protection

This feature is provided to protect the motor from overheating during extended operation and upon overloading. The electronic device switches the machine to safety mode before the critical temperature is reached. In safety mode the speed is low to accelerate motor cooling, but the machine cannot be used. The machine will cool down in about 3-5 min. To select normal duty, first switch off and on the main switch 4.

Mounting the accessories

The machine is completed with flexible backing pad with flange, for direct screwing onto the spindle and hook-and-loop fastening of the accessory to the pad.

To mount the polishing/sanding accessories, fix spindle 1 by depressing button 6 on the gear case.



Never press lock button 6 while the spindle is still rotating.

Flexible pad

Screw the pad 2 directly onto the spindle. The

accessories 7 (sandpaper, sponge, wheel, etc.) can be fixed to the pad with hook-and-loop system. The accessory dimensions must be $\varnothing 148_{\min}$ - $\varnothing 180_{\max}$. Ensure the accessory is well attached to the backing pad and that they are co-axial.

To dismount the backing pad, use a wrench if necessary. In case the flexible backing pad is equipped with a flange nut, the pad is screwed directly onto the spindle. Screw the flange nut and tighten it by the flange nut wrench.



Use only pads with undamaged hook-and-loop system. Before starting to operate the tool, ensure the hook-and-loop system is not damaged by misuse. Perform a trial test for at least 30 sec at no load.

Vibrating or otherwise improperly rotating pads must be replaced immediately.

Wire brush

The machine can be operated with cup/wheel wire brush with thread M14.

Screw the cup/wheel wire brush onto the spindle 1 and tighten it by the wrench.

Lamb wool-polishing bonnet

Place the lamb wool-polishing bonnet on the flexible backing pad and check the correct distribution of the bonnet. Fix the bonnet on the pad by the cord. Push the cord ends inside the bonnet.

Felt polishing wheel and polishing sponge with flange

Screw the felt-polishing wheel or the polishing sponge with flange onto the spindle 1.

Cloth wheel (buff)

The cloth wheel is fastened by a carrier consisting of threaded stud with opening, washer and lock nut. Screw the cloth wheel onto the spindle 1.

Mounting the protective cover

Place the protective cover 9 onto the gear case and fix it on both sides with plastic screws 10 or with screw on one side and auxiliary handle 3 on the opposite side.

Mounting the auxiliary handle

The auxiliary handle 3 must be always mounted during any work with the machine except for the case when the protective cover is mounted and the auxiliary handle is not used for the specific operation.

The auxiliary handle 3 can be mounted alternatively on the right, left or upper side of the gear box.

Recommendations

When sanding and polishing do not apply pressure to the processed surface by rearing down on the machine but move the pad smoothly.

Maintenance and repair

Always keep the machine and the ventilation slots clean for best results and safe operation.

Clean the rotor casing through the ventilation slots with compressed air to ensure effective motor cooling and faultless operation.

These models power tools do not require any special maintenance. Any work on the machine, save backing pad replacement, must be accomplished by authorised experts 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.