

# MULTI PURPOSE PRECISION ROTARY TOOL



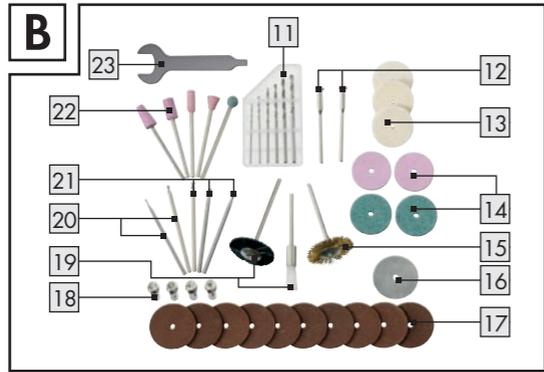
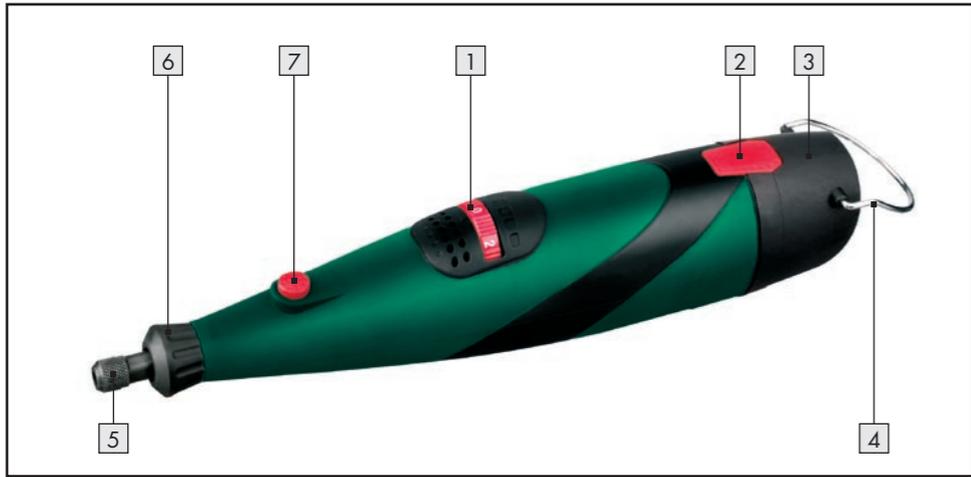
PFBS 9,6 V

**PARKSIDE**



- Ⓒ GB Before you begin reading this information, please unfold the page with the illustrations
- Ⓒ IE and familiarize yourself with all functions of the tool.
- Ⓒ CY

- Ⓒ GB **MULTI PURPOSE PRECISION**
- Ⓒ IE **ROTARY TOOL**
- Ⓒ CY Operating and safety instructions



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The following icons / symbols are used in this instruction manual:			
	Read instruction manual!	<b>W</b>	Watts (Effective power)
	Observe caution and safety notes!		Wear protective gloves and safety goggles
	Caution - electric shock! Dangerous electric current - danger to life!		Safety class II
<b>Ah</b>	Amp-hours (Battery capacity)		Proper procedure and handling.
<b>n<sub>0</sub></b>	Rated idle running speed		Keep children and other unauthorised personnel at a safe distance when using electrical tools.
	Direct current (Current and kind of tension)		Damaged appliances, power cables and power plugs mean potentially fatal risks from electric shock. Regularly check the condition of the appliance, the power cables and the power plugs.
<b>V<sub>~</sub></b>	Voltage		Dispose packaging and appliance in an environmentally-friendly way!

## Multi-purpose precision rotary tool PFBS 9.6

### ● Introduction

### ● For your safety



Please make sure you familiarise yourself fully with the way the device works before you use it for the first time and that you understand how to handle electrical power tools correctly. Further details can be found in the operating instructions. In addition to the above, you must also observe the general safety advice contained in the accompanying booklet. Keep these instructions in a safe place. If you pass the device on to anyone else, please ensure that you also pass on all the documentation.

### ● Proper use

The multi-purpose precision rotary tool is intended to be used for drilling, milling, engraving, polishing, cleaning, grinding, cutting and sawing wood, metal, plastic, ceramics or stone in dry environments. Any other use or modification to the drill / grinder shall be considered as improper use and could give rise to considerable dangers. The manufacturer will not accept liability for loss or damage arising from improper use. Not intended for commercial use.

### ● Features and equipment

#### Multi-purpose precision rotary tool:

- 1 On / Off switch / Rotational speed control
- 2 Battery pack release button
- 3 Battery pack
- 4 Metal stirrup hanger
- 5 Clamping nut

- 6 Spigot nut
- 7 Spindle lock

### Battery charger (see Fig. A):

- 8 Charging cradle with connector
- 9 Mains adapter
- 10 LED

### Accessories (see Fig. B):

- 11 6 HSS drills
- 12 2 Mandrels for mounting tools
- 13 3 Polishing wheels
- 14 4 Grinding wheels
- 15 1 Metal brush
- 16 1 Saw blade
- 17 10 Cutting wheels
- 18 4 Collets
- 19 2 Plastic brushes
- 20 3 Milling bits
- 21 2 Engraving bits
- 22 5 Grinding bits
- 23 Combination tool

### ● Included items

- 1 Multi-purpose precision rotary tool with rechargeable battery pack
- 1 Battery charger
- 1 Plastic case
- 1 Accessory kit (44-piece)
- 1 Operating instructions
- 1 Booklet "Guarantee and service"
- 1 Booklet "General safety advice"

### ● Technical information

#### Model PFBS 9.6:

Rated voltage:	9.6VDC ===
No-load speed:	$n_0$ 5000-25 000 min <sup>-1</sup>
Max. disc ø:	25 mm

#### Rechargeable battery pack PFBS 9.6-2:

Rated voltage:	9.6VDC ===
Capacity:	1000mAh NI-MH

### Battery charger PFBS 9.6-1:

#### Primary:

Rated voltage:	230V ~ 50 Hz
Rated output:	8.5W

#### Secondary:

Rated voltage:	12VDC ===
Charging current:	400 mA
Charging duration:	approx. 3 hours
Protection class:	II / 

### Noise and Vibration Informationen:

Determined noise level with A evaluation.

Sound pressure level: 61 dB (A)

Acoustic power level: 75 dB (A)

Evaluated acceleration, typical.

Hand-arm vibration: 2,63 m/s<sup>2</sup>



### ● Safety



#### Safety advice

- Ensure that the drill / grinder is always used in accordance with the advice in these operating instructions and only by persons over 16 years of age.
-  Keep children away from the drill / grinder. Store the drill / grinder indoors in an enclosed, dry place where it cannot be reached by children.



## To avoid danger to life from electric shock:

-  A damaged drill / grinder, mains lead or plug presents a serious danger to life from electric shock. Check the condition of the drill / grinder, charger, mains lead, mains plug and battery pack at frequent intervals. Do not use a drill / grinder with damaged parts. If a dangerous situation arises pull out the mains plug from the socket immediately. Never open up the drill / grinder or equipment. Always have any repairs carried out or replacement parts fitted at the service centre or by an electrical equipment repair specialist.
- Protect the charger, battery pack and the drill / grinder from moisture.
- **Warning!** Do not use the drill / grinder with chargers or batteries other than the charger / battery pack supplied.
- **Warning!** Never short circuit the battery pack. Overheating, fire or destruction of the battery pack may result. Therefore:
  - Do not connect any wires to the battery pack poles.
  - Take care that no metal objects (nails, screws, etc.) can short circuit the battery pack connectors.
- **Attention!** Never throw the battery pack into fire or water. Danger of explosion! Handle the battery pack with care, protect it from impacts and sharp blows!



## Attention! To avoid the danger of injury, burning and damage to health:

- **Warning!** If you come into contact with the acid from the battery pack, wash off the acid thoroughly with water immediately. If acid should enter your eyes, flush them immediately with water and find a doctor immediately.
-  **Caution!** The tool continues to rotate after it has been switched off! Avoid contact with rapidly rotating drill / grinder components.



When you use the drill / grinder wear the following protective equipment: safety glasses and protective gloves.



## To work safely:

- Before cleaning or maintaining the charger or battery pack always pull the plug out of the mains socket.
- Never charge the battery pack if the ambient temperature is below 10 °C or above 40 °C.
- ▲ **Attention!** To avoid damaging the tool or workpiece.
- Do not allow the tool to come to a standstill by overloading it!

## ● Operation

### ● Charging the battery pack

▲ **Attention!** A battery pack that has been unused for a while or never been charged must be charged before reuse or first use. The battery pack requires about 3-5 cycles before it can reach its full charge.

▲ **Attention!** Always pull out the mains plug (mains adapter **9**) before you insert the battery pack into or take it out of the charger.

- Connect the adapter **9** to a mains socket.
- Insert the battery pack **3** into the charging cradle **8**. Make sure that the polarity of the battery pack matches that of charging cradle **8**.
- The LED **10** lights up green whenever the battery pack **3** is in the charging cradle **8** and the adapter **9** is connected to a mains socket.
- Do not use the quick-charge process to charge a battery pack for a second time in close succession. Otherwise there is the danger that the battery pack will become overcharged and its useful life and that of the charger reduced.

- Switch the charger off for at least 15 minutes between successive charging processes. To do this pull the mains plug (mains adapter **9**) out of the socket.

## ● Inserting / removing the battery pack into / out of the drill / grinder

### Inserting the battery pack:

- Set the On / Off switch **1** to position "0".
- Insert the battery pack **3** into the drill / grinder until it engages.

### Removing the battery pack:

- Pressing the battery pack buttons **2** at the sides at the same time allows you to remove the battery pack **3**.

## ● Changing a collet

- Press the spindle lock **7** and keep it pressed.
- Rotate the clamping nut **5** until the lock engages.
- Release the clamping nut **5** from the thread and remove the collet **18**.
- Insert the correct collet **18** and screw it tight with the clamping nut **5**.
- Release the spindle lock **7**.

## ● Inserting / changing tools

- Press the spindle lock **7** and keep it pressed.
- Rotate the clamping nut **5** until the lock engages.
- Release the clamping nut **5** using the open spanner end  of the combination tool **23**.
- If a tool is already inserted remove it.
- First insert the tool you wish to use through the clamping nut **5** before you insert it into the collet **18**.
- Press the spindle lock **7** and keep it pressed.
- Insert the collet **18** into the threaded insert and screw the clamping nut **5** tightly on the thread

using the open spanner end  of the combination tool **23**.

**Note:** Use the screwdriver end  of the combination tool **23** to release or tighten the screw of the mandrels **12**.

## ● Switching on and off / Setting the speed range

### Switching on / Setting the speed range:

- Set the On / Off switch **1** to a position between "2" and "10".

### Switching off:

- Set the On / Off switch **1** to position "0".

## ● Advice on working with materials / Tools / Speed ranges

- Make sure that no debris from working the material adheres to the tool. Use paraffin, cutting oil or similar medium to lubricate the tool.
- Use the highest speed when working on steel or iron with the milling bits.
- Use a short trial on a test piece to determine the optimum rotational speed range for working on zinc, zinc alloy, aluminium, copper and lead.
- Use the low speed range for working on plastics and low-melting point materials.
- Use high speeds on wood.
- Use the medium speed range for cleaning, polishing and buffing.

The following information shall be considered as recommendatory only. Learn by practical experience which tools and settings are the best for the materials you work with.

## Setting the appropriate speed

Symbols on On/off switch <sup>1</sup>	Material		
<b>0</b>	(Drill/grinder switched off)	<b>6</b>	Softwood, metal
<b>2</b>	Plastics and low melting point materials	<b>8</b>	Hardwood
<b>4</b>	Stone, Ceramics	<b>10</b>	Steel

## Examples of appropriate tool selection Function

Function	Accessory	Application
<b>Drilling</b>	HSS drill <sup>11</sup>	Drilling wood (see Fig. C)
<b>Milling</b>	Milling bits <sup>20</sup>	Various tasks, e.g. hollowing out, gouging, shaping, grooving or slotting
<b>Engraving</b>	Engraving bits <sup>21</sup>	Markings (see Fig. D)
<b>Polishing, derusting</b>	Metal brush <sup>15</sup>	Derusting (see Fig. E)
	Polishing wheel <sup>13</sup>	Working on various metals and plastics, in particular noble metals like gold or silver (see Fig. F)
<b>Cleaning</b>	Plastic brush <sup>19</sup>	E.g. cleaning complex plastic housings or the area around a door lock
	Metal brush <sup>15</sup>	E.g. cleaning cutlery, jewellery, tools (see Fig. E) (The metal brush is softer than steel)
<b>Grinding</b>	Grinding wheels <sup>14</sup> , grinding bits <sup>22</sup>	Grinding of stone, precise tasks on hard materials, such as ceramics or alloy steel (see Fig. G)
<b>Cutting and sawing</b>	Cutting discs <sup>17</sup>	Cutting metal, plastic or wood (see Fig. H)
	Saw blade <sup>16</sup>	Saw blade Sawing steel, metal, wood or plastic (see Fig. I)

## ● Tips and tricks

If you use press too hard you run the risk of breaking the tool or damaging the workpiece. You will achieve the best results by operating the tool at a constant rotational speed and using a low contact pressure on the workpiece.

## ● Maintenance and cleaning

### ● Maintenance

- Before and after a prolonged period of non-use fully charge the battery pack 3.

### ● Cleaning

- Clean all the dirt off the drill / grinder. Use a dry cloth for cleaning.

## ● Disposal



The packaging is wholly composed of environmentally-friendly materials that can be disposed of at a local recycling centre.



**Do not dispose of electric tools in the household waste!**

In accordance with European Directive 2002 / 96 / EC about waste electrical and electronic equipment and its transposition into national legislation, worn out electric tools must be collected separately and taken for environmentally compatible recycling.

Faulty or used rechargeable batteries must be recycled in accordance with Directive 91 / 157 / EEC. Return the appliance with integrated rechargeable battery via the available collection facilities. Contact your local refuse disposal authority for more details of how to dispose of your electric tools.

## ● Information

### ● Service

Please see the warranty documents for details of the Service Office responsible for your country.

### ● Manufacturer's Declaration of Conformity / Manufacturer CE

We, Kompernaß GmbH, Burgstr. 21, D-44867 Bochum, Germany, declare that this product complies with the following EU directives:

**Machinery Directive (98 / 37 / EC)**

**EU Low Voltage Directive (2006 / 95 / EC)**

**Electromagnetic compatibility (89 / 336 / EEC), (92 / 31 / EEC)**

#### **Type / Device description:**

Multi-purpose precision rotary tool PFBS 9.6

Bochum, 31.10.2007

Hans Kompernaß  
- Managing Director -

We reserve the right to make technical modifications in the course of further development.

