



BOSCH

PMF

220 CE | 2000 CE

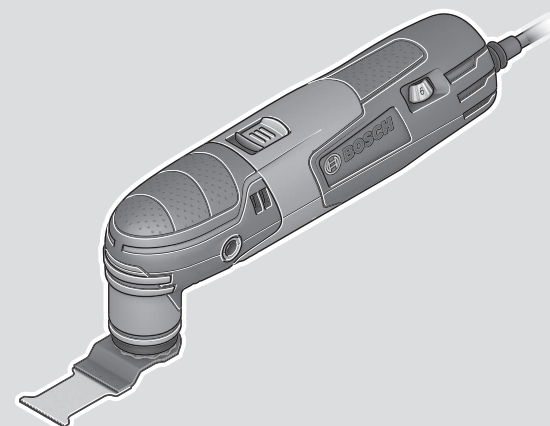
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GERMANY

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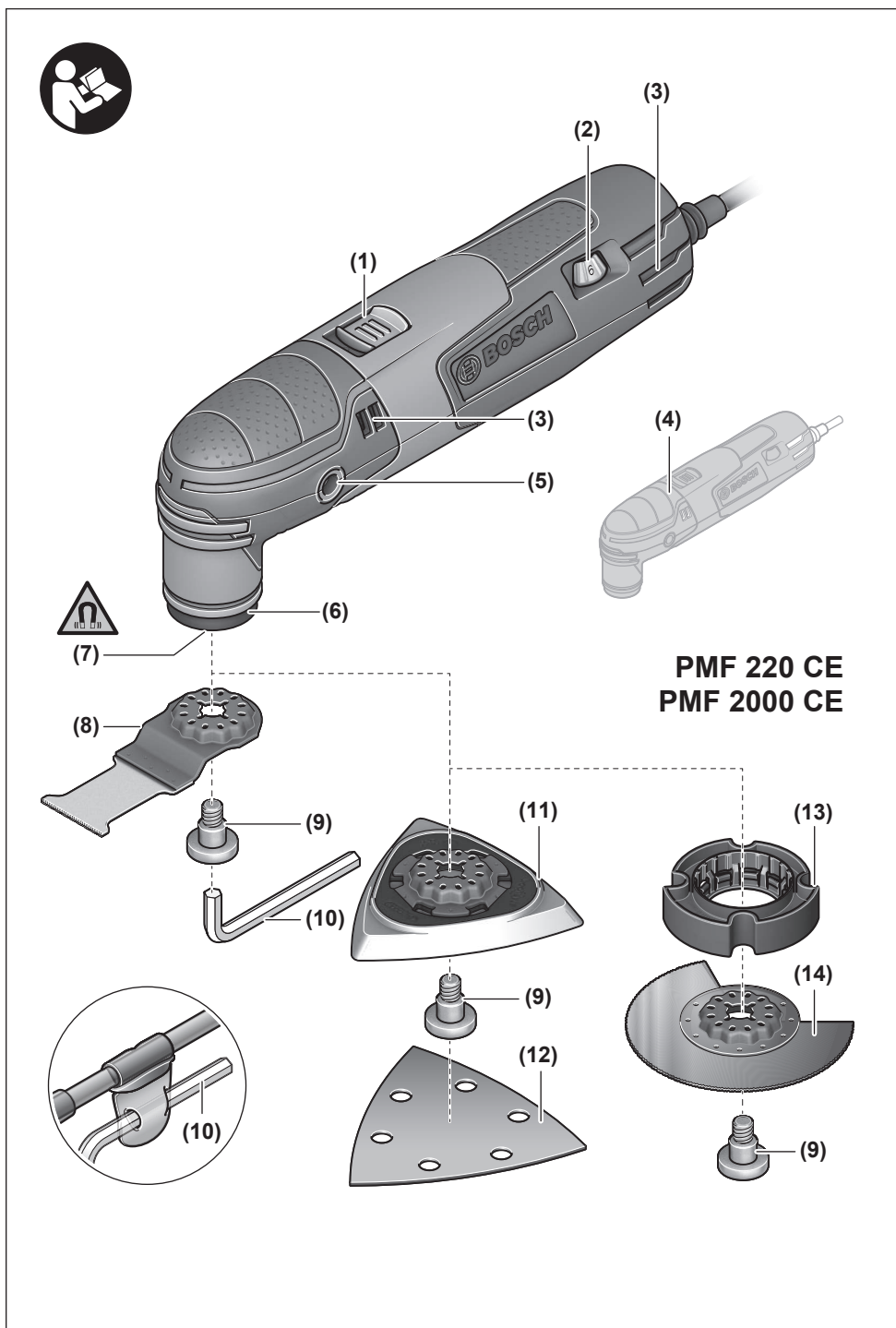


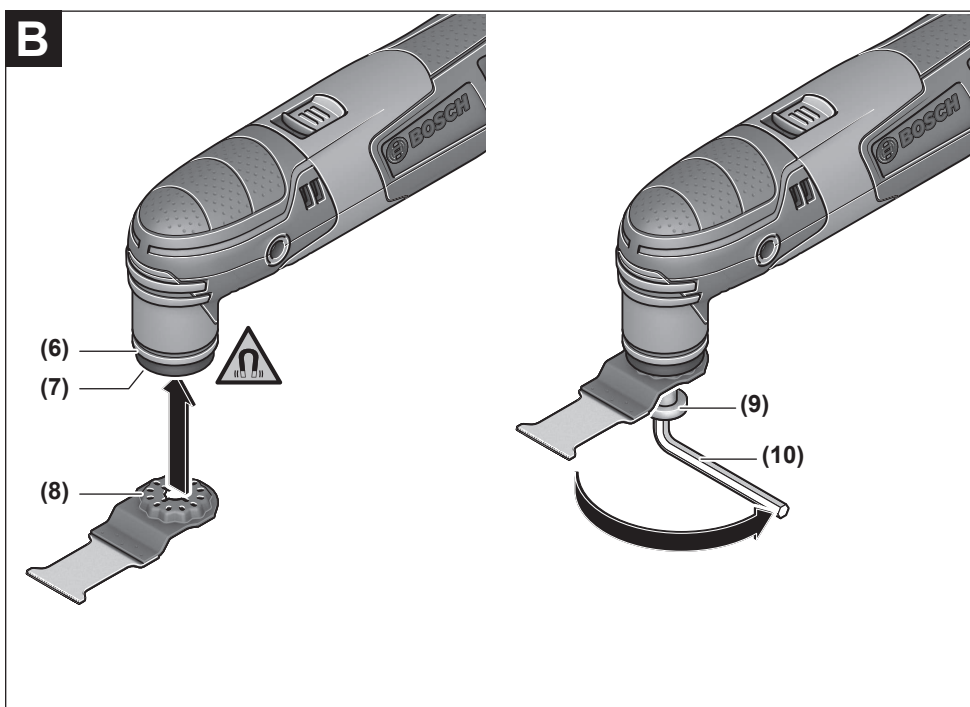
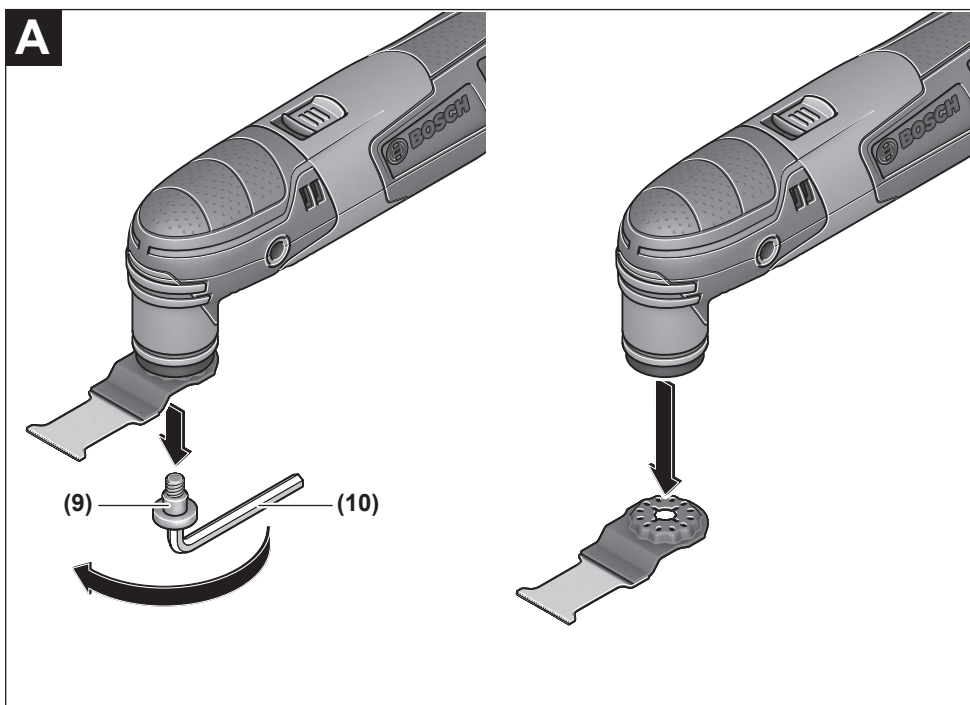
- de** Originalbetriebsanleitung
- en** Original instructions
- fr** Notice originale
- es** Manual original
- pt** Manual original
- it** Istruzioni originali
- nl** Oorspronkelijke gebruiksaanwijzing
- da** Original brugsanvisning
- sv** Bruksanvisning i original
- no** Original driftsinstruks
- fi** Alkuperäiset ohjeet
- el** Πρωτότυπο οδηγιών χρήσης
- tr** Orijinal işletme talimatı
- ar** دليل التشغيل الأصلي

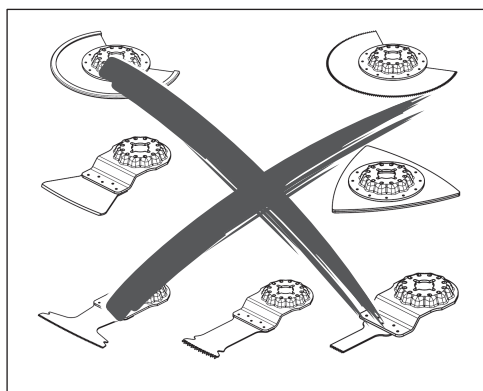
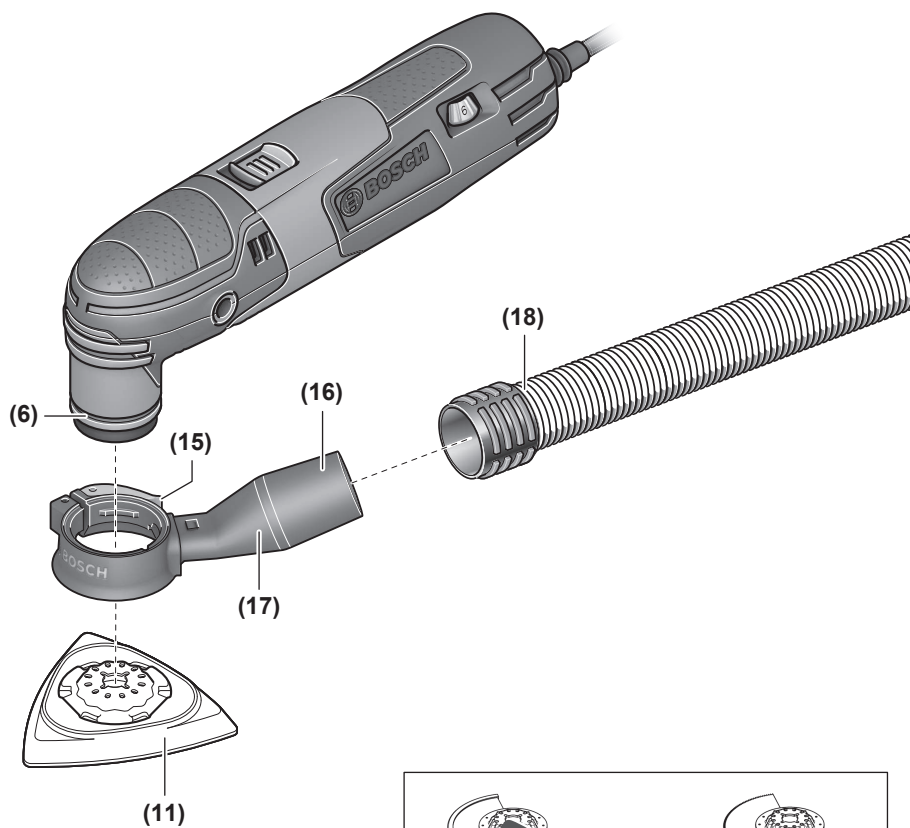


Deutsch	Seite	6
English	Page	14
Français	Page	22
Español	Página	31
Português	Página	39
Italiano	Pagina	48
Nederlands	Pagina	56
Dansk	Side	64
Svensk	Sidan	72
Norsk	Side	79
Suomi	Sivu	87
Ελληνικά	Σελίδα	94
Türkçe	Sayfa	103
عربي	الصفحة	112

CE/UK
CA..... I/i





C

Geben Sie bei allen Rückfragen und Ersatzteilbestellungen bitte unbedingt die 10-stellige Sachnummer laut Typenschild des Produkts an.

Deutschland

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Entsorgung

Elektrowerkzeuge, Zubehör und Verpackungen sollen einer umweltgerechten Wiederverwertung zugeführt werden.



Werfen Sie Elektrowerkzeuge nicht in den Hausmüll!

Nur für EU-Länder:

Gemäß der Europäischen Richtlinie 2012/19/EU über Elektro- und Elektronik-Altgeräte und ihrer Umsetzung in nationales Recht müssen nicht mehr gebrauchsfähige Elektrowerkzeuge getrennt gesammelt und einer umweltgerechten Wiederverwertung zugeführt werden.

Bei unsachgemäßer Entsorgung können Elektro- und Elektronikaltgeräte aufgrund des möglichen Vorhandenseins gefährlicher Stoffe schädliche Auswirkungen auf die Umwelt und die menschliche Gesundheit haben.

Nur für Deutschland:

Informationen zur Rücknahme von Elektro-Altgeräten für private Haushalte

Wie im Folgenden näher beschrieben, sind bestimmte Vertrieber zur unentgeltlichen Rücknahme von Altgeräten verpflichtet.

Vertreiber mit einer Verkaufsfläche für Elektro- und Elektronikgeräte von mindestens 400 m² sowie Vertrieber von Lebensmitteln mit einer Gesamtverkaufsfläche von mindestens 800 m², die mehrmals im Kalenderjahr oder dauerhaft Elektro- und Elektronikgeräte anbieten und auf dem Markt bereitstellen, sind verpflichtet,

1. bei der Abgabe eines neuen Elektro- oder Elektronikgeräts an einen Endnutzer ein Altgerät des Endnutzers der gleichen Geräteart, das im Wesentlichen die gleichen Funktionen wie das neue Gerät erfüllt, am Ort der Abgabe oder in unmittelbarer Nähe hierzu unentgeltlich zurückzunehmen; Ort der Abgabe ist auch der private Haushalt, sofern dort durch Auslieferung die Abgabe er-

folgt: In diesem Fall ist die Abholung des Altgeräts für den Endnutzer unentgeltlich; und

2. auf Verlangen des Endnutzers Altgeräte, die in keiner äußeren Abmessung größer als 25 cm sind, im Einzelhandelsgeschäft oder in unmittelbarer Nähe hierzu unentgeltlich zurückzunehmen; die Rücknahme darf nicht an den Kauf eines Elektro- oder Elektronikgerätes geknüpft werden und ist auf drei Altgeräte pro Geräteart beschränkt.

Der Vertrieber hat beim Abschluss des Kaufvertrags für das neue Elektro- oder Elektronikgerät den Endnutzer über die Möglichkeit zur unentgeltlichen Rückgabe bzw. Abholung des Altgeräts zu informieren und den Endnutzer nach seiner Absicht zu befragen, ob bei der Auslieferung des neuen Geräts ein Altgerät zurückgegeben wird.

Dies gilt auch bei Vertrieb unter Verwendung von Fernkommunikationsmitteln, wenn die Lager- und Versandflächen für Elektro- und Elektronikgeräte mindestens 400 m² betragen oder die gesamten Lager- und Versandflächen mindestens 800 m² betragen, wobei die unentgeltliche Abholung auf Elektro- und Elektronikgeräte der Kategorien 1 (Wärmeüberträger), 2 (Bildschirmgeräte) und 4 (Großgeräte mit mindestens einer äußeren Abmessung über 50 cm) beschränkt ist. Für alle übrigen Elektro- und Elektronikgeräte muss der Vertrieber geeignete Rückgabemöglichkeiten in zumutbarer Entfernung zum jeweiligen Endnutzer gewährleisten; das gilt auch für Altgeräte, die in keiner äußeren Abmessung größer als 25 cm sind, die der Endnutzer zurückgeben will, ohne ein neues Gerät zu kaufen.

English

Safety Instructions

General Power Tool Safety Warnings

WARNING

Read all safety warnings, instructions, illustrations and specifications provided with this power tool.

Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

Work area safety

- **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.

- **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

Electrical safety

- **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce risk of electric shock.
- **Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
- **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
- **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.
- **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.

Personal safety

- **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
- **Use personal protective equipment. Always wear eye protection.** Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.
- **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.
- **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- **Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.

- **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of dust collection can reduce dust-related hazards.
- **Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.** A careless action can cause severe injury within a fraction of a second.

Power tool use and care

- **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.
- **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- **Disconnect the plug from the power source and/or remove the battery pack, if detachable, from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
- **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
- **Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
- **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- **Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.
- **Keep handles and grasping surfaces dry, clean and free from oil and grease.** Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

Service

- **Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.

Safety information for multifunction tools

- **Hold power tool by insulated gripping surfaces, when performing an operation where the cutting accessory may contact hidden wiring or its own cord.** Cutting accessory contacting a "live" wire may make exposed metal

parts of the power tool "live" and could give the operator an electric shock.

- **Use clamps or another practical way to secure and support the workpiece to a stable platform.** Holding the workpiece by hand or against your body leaves it unstable and may lead to loss of control.
- **Only use the power tool for dry sanding.** Water entering a power tool will increase the risk of electric shock.
- **Warning: Danger of fire! Avoid overheating the workpiece and the sander. Always empty the dust collector before taking a break from work.** Sanding dust in the dust bag, microfilter, paper bag (or in the filter bag or vacuum cleaner filter) can spontaneously combust under certain conditions, for example if flying sparks are created when sanding metals. This risk is increased if the sanding dust is mixed with paint or polyurethane residue or with other chemical substances and if the workpiece is hot as a result of prolonged work.
- **Keep hands away from the sawing area. Do not reach under the workpiece.** Contact with the saw blade can lead to injuries.
- **Clean the air vents on your power tool regularly.** The motor's fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.
- **Use suitable detectors to determine if utility lines are hidden in the work area or call the local utility company for assistance.** Contact with electric lines can lead to fire and electric shock. Damaging a gas line can lead to explosion. Penetrating a water line causes property damage or may cause an electric shock.
- **Hold the power tool firmly with both hands and make sure you have a stable footing.** The power tool can be more securely guided with both hands.
- **When changing the application tool, wear protective gloves.** Application tools can become hot when used for prolonged periods of time.
- **Do not scrape any dampened materials (e.g. wallpaper) or on damp surfaces.** Water entering a power tool increases the risk of electric shock.
- **Do not treat the surface you will be working on with any fluids that contain solvents.** Poisonous vapours may develop due to the materials heating up when being scraped.
- **Take particular care when handling scrapers and blades.** The application tools are very sharp. Danger of injury.

Products sold in GB only:

Your product is fitted with an BS 1363/A approved electric plug with internal fuse (ASTA approved to BS 1362).

If the plug is not suitable for your socket outlets, it should be cut off and an appropriate plug fitted in its place by an authorised customer service agent. The replacement plug should have the same fuse rating as the original plug.

The severed plug must be disposed of to avoid a possible shock hazard and should never be inserted into a mains socket elsewhere.



Keep the magnet away from implants and other medical devices, e.g. pacemakers or insulin pumps. The magnet generates a field that can impair the function of implants and medical devices.

- **Keep the power tool away from magnetic data carriers and magnetically sensitive equipment.** The effect of the magnet can lead to irreversible data loss.

Product Description and Specifications



Read all the safety and general instructions.

Failure to observe the safety and general instructions may result in electric shock, fire and/or serious injury.

Please observe the illustrations at the beginning of this operating manual.

Intended Use

The power tool is intended for sawing and cutting wood-based materials, plastic, plasterboard, non-ferrous metals and mounting elements (e.g. nails, clamps). It is also suitable for working on soft wall tiles and for dry sanding and scraping of small areas. It is ideal for working close to edges and flush with surfaces.

Product Features

The numbering of the product features refers to the diagram of the power tool on the graphics page.

- (1) On/off switch
- (2) Orbital stroke rate preselection thumbwheel
- (3) Ventilation slots
- (4) Handle (insulated gripping surface)
- (5) Thread for auxiliary handle
- (6) Tool holder
- (7) Magnet
- (8) Plunge cut saw blade^{a)}
- (9) Clamping bolt
- (10) Hex key
- (11) Sanding plate^{a)}
- (12) Sanding sheet^{a)}
- (13) Depth stop^{a)}
- (14) Segment saw blade^{a)}
- (15) Clamping lever for dust extraction system^{a)}
- (16) Dust extraction outlet^{a)}
- (17) Dust extraction system^{a)}

(18) Dust extraction hose^{a)}

- a) **Accessories shown or described are not included with the product as standard. You can find the complete selection of accessories in our accessories range.**

Technical Data

Multifunction tool		PMF 220 CE PMF 2000 CE
Article number		3 603 A02 0..
Orbital stroke rate preselection		●
Constant electronic control		●
Soft start		●
Rated power input	W	220
Power output	W	130
No-load speed n_0	min ⁻¹	15000–20000
Oscillation angle on left/right	°	1.4
Weight according to EPTA-Procedure 01:2014	kg	1.1
Protection class		□/II

The specifications apply to a rated voltage [U] of 230 V. These specifications may vary at different voltages and in country-specific models.

Noise/Vibration Information

Noise emission values determined according to

EN 62841-2-4.

Typically, the A-weighted noise level of the power tool is: **84 dB(A)**; sound power level **95 dB(A)**. Uncertainty **K=3 dB**.

Wear hearing protection**Working without the Auxiliary Handle**

Vibration total values a_h (triax vector sum) and uncertainty K determined according to **EN 62841-2-4** (Sanding),

EN 62841-2-11 (Cutting):

Sanding: $a_h = 10 \text{ m/s}^2$, $K = 1.5 \text{ m/s}^2$,

Cutting with plunge cut saw blade: $a_h = 16 \text{ m/s}^2$, $K = 2 \text{ m/s}^2$,

Cutting with segmental saw blade: $a_h = 14 \text{ m/s}^2$, $K = 3 \text{ m/s}^2$,

Scraping: $a_h = 12 \text{ m/s}^2$, $K = 1.5 \text{ m/s}^2$.

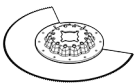
Working with the auxiliary handle

Vibration total values a_h (triax vector sum) and uncertainty K determined according to **EN 62841-2-4** (Sanding),

EN 62841-2-11 (Cutting):

Sanding: $a_h = 9 \text{ m/s}^2$, $K = 1.5 \text{ m/s}^2$,

The following table shows examples of application tools. You can find additional application tools in Bosch's extensive range of accessories.

Application tool	Material	Application
 Bi-metal segment saw blade	Wood-based materials, plastic, non-ferrous metals	Separating cuts and plunge saw cuts; including sawing close to edges, in corners and in difficult-to-reach areas; example: Shortening skirting boards that are already installed or door frames, plunge cuts when adapting floor panels

Cutting with plunge cut saw blade: $a_h = 17 \text{ m/s}^2$, $K = 2 \text{ m/s}^2$,
Cutting with segmental saw blade: $a_h = 18.5 \text{ m/s}^2$, $K = 3 \text{ m/s}^2$,
Scraping: $a_h = 16 \text{ m/s}^2$, $K = 1.5 \text{ m/s}^2$.

The vibration level and noise emission value given in these instructions have been measured in accordance with a standardised measuring procedure and may be used to compare power tools. They may also be used for a preliminary estimation of vibration and noise emissions.

The stated vibration level and noise emission value represent the main applications of the power tool. However, if the power tool is used for other applications, with different application tools or is poorly maintained, the vibration level and noise emission value may differ. This may significantly increase the vibration and noise emissions over the total working period.

To estimate vibration and noise emissions accurately, the times when the tool is switched off or when it is running but not actually being used should also be taken into account. This may significantly reduce vibration and noise emissions over the total working period.

Implement additional safety measures to protect the operator from the effects of vibration, such as servicing the power tool and application tools, keeping their hands warm, and organising workflows correctly.

Assembly

- **Pull the plug out of the socket before carrying out any work on the power tool.**

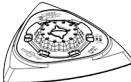
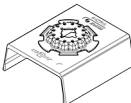
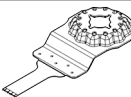
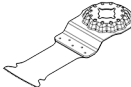
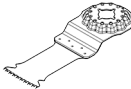
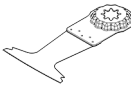
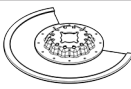
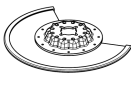
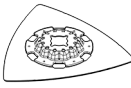
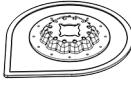
Changing the tool

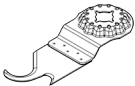
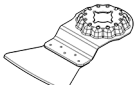
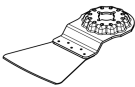
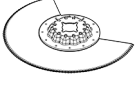
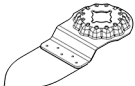
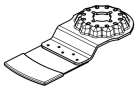
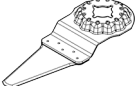
- **Wear protective gloves when changing tools.** There is a risk of injury when touching the application tools.

Selecting an Application Tool

Please observe the application tools intended for your power tool.

Application tool		PMF 220 CE PMF 2000 CE
STARLOCK 		✓
STARLOCK PLUS 		✗
STARLOCK MAX 		✗

Application tool	Material	Application
	Sanding plate for Delta series 93 mm sanding sheets	Depends on the sanding sheet Sanding surfaces at edges, in corners or in difficult-to-reach areas; depending on the sanding sheet, e.g. for sanding wood, paint, varnish, stone; fleeces for cleaning and for texturing wood, removing rust from metal and for keying varnish, polishing felt for pre-polishing
	Profile sander	Wood, pipes/profiles, paint, varnish, filler, metal Convenient and efficient sanding of profiles up to a diameter of 55 mm; red sanding sheets for sanding wood, pipes/profiles, varnish, filler and metal
	Bi-metal plunge cut saw blade for wood and metal	Softwood, soft plastics, plasterboard, thin-walled aluminium profiles and non-ferrous metal profiles, thin sheet metal, non-hardened nails and screws Small separating cuts and plunge cuts; example: Cutting a recess for sockets, cutting a copper pipe so that it is flush with a surface, making plunge cuts in plasterboard Delicate adaptation work in wood; example: Sawing recesses for locks and fittings
	HCS plunge cut saw blade for wood	Wood-based materials, soft plastics Separating cuts and plunge saw cuts; including sawing close to edges, in corners and in difficult-to-reach areas; example: Thin plunge cut in solid wood for installing a ventilation grille
	Bi-metal plunge cut saw blade for hardwood	Hardwood, laminated boards Plunge cuts in laminated boards or hardwood; example: Installation of skylights
	TC plunge cut saw blade, metal	Metal, extremely abrasive materials, fibreglass, plasterboard, cement-bonded fibreboard Plunge cuts in extremely abrasive materials or metal; example: Cutting kitchen front covers, easy cutting through hardened screws, nails and stainless steel
	Bi-metal plunge cut saw blade for wood and metal	Softwood, hardwood, veneered boards, plastic-coated boards, non-hardened nails and screws Plunge cuts in laminated boards or hardwood; example: Shortening door frames, recesses for a shelf
	TC-Riff segment saw blade	Cement joints, soft wall tiles, fibreglass-reinforced plastics, porous concrete Making cuts near edges, in corners or in difficult-to-reach areas; example: Removing joints between wall tiles for improvement work, cutting recesses in tiles, plasterboard or plastics
	Diamond-Riff segment saw blade	Cement joints, soft wall tiles, epoxy resin, fibreglass-reinforced plastics Precise routing and cutting of tile/joint material, epoxy resin and fibreglass-reinforced plastics; example: Producing small cut-outs in soft wall tiles and routing recesses in fibreglass-reinforced plastic
	TC-Riff Delta plate	Mortar, concrete residue, wood, abrasive materials Rasping and sanding on a hard surface; example: Removing mortar or tile adhesive (e.g. when replacing damaged tiles), removing carpet adhesive residue
	TC-Riff grout and mortar remover	Mortar, joints, epoxy resin, fibreglass-reinforced plastics, abrasive materials Routing and cutting of joint material and tile material, as well as rasping and sanding on a hard surface; example: Removing tile adhesive and joint mortar

Application tool	Material	Application
 HCS multi blade	Roofing felt, carpets, artificial turf, cardboard, PVC flooring	Fast and precise cutting of soft material and flexible abrasive materials; example: Cutting carpets, cardboard, PVC flooring, roofing felt, etc.
 Scraper, fixed	Carpets, mortar, concrete, tile adhesive	Scraping on a hard surface; example: Removing mortar, tile adhesive, concrete residue and carpet adhesive residue
 Scraper, flexible	Carpet adhesive, paint residue, silicone	Flexible scraping on a soft surface; example: Removing silicone joints, carpet adhesive residue and paint residue
 Bi-metal segment serrated blade	Insulation material, insulation boards, floor panels, impact sound insulation boards, cardboard, carpets, rubber, leather	Precise cutting of soft materials; example: Cutting insulation boards to size, cutting protruding insulation material to length so that it is flush with the surface
 TC-Riff sanding finger	Wood, paint	Sanding of wood or paint in hard-to-reach areas without sanding paper; example: Sanding off paint between window shutter slats, sanding wooden flooring in corners
 TC-Riff plunge cut saw blade	Fibreglass, mortar, wood	Plunge cuts in extremely abrasive materials; example: Routing of thin mosaic tiles
 HCS universal joint cutter	Expansion joints, window putty, insulation materials (rock wool)	Cutting soft materials; example: Cutting silicone expansion joints or window putty

Fitting/changing the application tool (see figures A and B)

Remove the application tool if one has already been fitted.

To remove the application tool, use the hex key (10) to loosen the clamping bolt (9) and remove the tool.

Position the required application tool (e.g. plunge cut saw blade (8)) on the tool holder (6) so that the depressed centre is facing downwards (see figure on the graphics page, text on the application tool should be legible from above).

Turn the application tool to a position which is convenient for the job at hand and allow it to lock into place in the cams of the tool holder (6). Twelve positions offset by 30° are possible for this.

The built-in magnet (7) holds the application tool in the required position in order to make it easier to mount.

Secure the application tool using the clamping bolt (9).

Tighten the clamping bolt using the hex key (10) until it is flush with the application tool.

- **Check that the application tool is seated securely.** Application tools that are attached incorrectly or are not securely fixed in place may come loose during operation, thereby putting you at risk.

Fitting and Adjusting the Depth Stop

The depth stop (13) can be used when working with segment saw blades.

Remove the application tool if one has already been fitted.

Slide the depth stop (13) over the tool holder (6) and onto the collar of the power tool as far as it will go, with the labelled side facing upwards.

The depth stop is intended for the following cutting depths:

- With segment saw blades ACZ 85 .. with a diameter of 85 mm: Cutting depths 8 mm, 10 mm, 12 mm and 14 mm (information on the depth stop in a larger font size and without brackets).
- With segment saw blades ACZ 100 .. with a diameter of 100 mm: Cutting depths 14 mm, 16 mm, 18 mm and 20 mm (information on the depth stop in a smaller font size and in brackets).

Insert the appropriate segment saw blade for the desired cutting depth. Slide the depth stop (13) from the tool holder (6) in the direction of the application tool until you can rotate it freely. Rotate the depth stop (13) so that the desired cutting depth is above the section of the saw blade that will be used to saw. Slide the depth stop (13) onto the collar of the power tool once again as far as it will go.

Remove the depth stop (13) for all other cutting depths and for working with other application tools. To do this, remove

the application tool and pull the depth stop away from the collar.

Fitting the Auxiliary Handle (accessory)

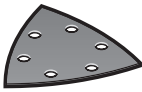
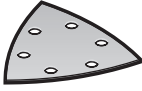
The low-vibration auxiliary handle enables the tool to be used safely and more comfortably.

Screw the auxiliary handle into the thread **(5)** on the left or right of the machine head depending on how you are working.

► **Do not continue to use the power tool if the auxiliary handle is damaged. Do not make any alterations to the auxiliary handle.**

Choosing the Sanding Sheet

Different sanding sheets are available, depending on the material you are working with and the required surface removal rate:

Sanding sheet	Material	Application	Grit	
 Red quality	– All wood and wood-based materials (e.g. hardwood, softwood, chipboard, construction boards) – Metal materials	For pre-sanding, e.g. of rough and uneven beams and boards	Coarse	40 60
		For surface sanding and levelling of slight irregularities	Medium	80 100 120
		For finish-sanding and fine sanding of wood	Fine	180 240 320 400
 White quality	– Paint – Varnish – Filler – Bodyfiller	For sanding down paint	Coarse	40 60
		For sanding undercoats (e.g. removing brushstrokes, paint drips and paint runs)	Medium	80 100 120
		For final sanding of primers prior to painting	Fine	180 240 320

Attaching/changing the sanding sheet on the sanding plate

The sanding plate **(11)** is fitted with a hook-and-loop fastening, allowing sanding sheets with a hook-and-loop backing to be secured quickly and easily.

Tap the hook-and-loop fastening of the sanding plate **(11)** before fitting the sanding sheet **(12)** to facilitate maximum adhesion.

Position the sanding sheet **(12)** so that it is flush with one side of the sanding plate **(11)**, then place the sanding sheet on the sanding plate and press it on firmly.

To ensure optimum dust extraction, make sure that the punched holes in the sanding sheet are aligned with the drilled holes in the sanding plate.

To remove the sanding sheet **(12)**, take hold of it by an edge and pull it away from the sanding plate **(11)**.

You can use all sanding sheets, polishing and cleaning fleeces from the Delta 93 mm series in the **Bosch** range of accessories.

Sanding accessories such as fleece/polishing felt are attached to the sanding plate in the same way.

Dust/Chip Extraction

The dust from materials such as lead paint, some types of wood, minerals and metal can be harmful to human health. Touching or breathing in this dust can trigger allergic reactions and/or cause respiratory illnesses in the user or in

people in the near vicinity.

Certain dusts, such as oak or beech dust, are classified as carcinogenic, especially in conjunction with wood treatment additives (chromate, wood preservative). Materials containing asbestos may only be machined by specialists.

- Use a dust extraction system that is suitable for the material wherever possible.
- Provide good ventilation at the workplace.
- It is advisable to wear a P2 filter class breathing mask.

The regulations on the material being machined that apply in the country of use must be observed.

► **Avoid dust accumulation at the workplace.** Dust can easily ignite.

Connecting the dust extraction system (see figure C)

The dust extraction system **(17)** is only designed for use with the sanding plate **(11)**; it serves no purpose when used together with other application tools.

Always connect a dust extraction system for sanding.

Remove the application tool and the depth stop **(13)** for fitting the dust extraction system **(17)** (accessory).

Slide the dust extraction system **(17)** as far as it will go over the tool holder **(6)** onto the collar of the power tool. Turn the dust extraction system to the required position (not directly under the power tool). Push the clamping lever **(15)** shut to fix the dust extraction system in position.

Plug the tool sleeve of the extraction hose (18) onto the extraction outlet (16). Connect the dust extraction hose (18) to a dust extractor (accessory).

You will find an overview of how to connect various dust extractors at the end of these operating instructions.

The dust extractor must be suitable for the material being worked.

When extracting dry dust that is especially detrimental to health or carcinogenic, use a special dust extractor.

Operation

Starting Operation

- **Pay attention to the mains voltage.** The voltage of the power source must match the voltage specified on the rating plate of the power tool.
- **Products that are only sold in AUS and NZ:** Use a residual current device (RCD) with a nominal residual current of 30 mA or less.

Switching On/Off

- **Make sure that you are able to press the On/Off switch without releasing the handle.**

To **switch on** the power tool, slide the on/off switch (1) forward so that "I" appears on the switch.

The electronic soft start limits the torque when the power tool is switched on and increases the service life of the motor.

The Constant Electronic keeps the orbital stroke rate at no load and under load virtually consistent, guaranteeing uniform performance.

To **switch off** the power tool, slide the on/off switch (1) backwards so that "0" appears on the switch.

Preselecting the orbital stroke rate

You can even preselect the required orbital stroke rate during operation using the orbital stroke rate preselection thumbwheel (2).

The required orbital stroke rate is dependent on the material and the work conditions and can be determined using practical tests.

Orbital stroke rate level "6" is recommended for sawing, cutting and sanding harder materials, such as wood or metal; orbital stroke rate level "4" is recommended for softer materials, such as plastic.

Working Advice

- **Pull the plug out of the socket before carrying out any work on the power tool.**
- **Always wait until the power tool has come to a complete stop before placing it down.**

Note: Do not keep the ventilation slots (3) on the power tool closed when working as this will reduce the service life of the power tool.

Operating principle

The oscillating drive causes the application tool to oscillate back and forth by 2.8° up to 20000 times per minute. This enables precise work in the tightest of spaces.



Use a consistent, low contact pressure when performing work; otherwise, the performance will be impaired and the application tool may jam.



While working, move the power tool back and forth to prevent the application tool overheating and jamming.

Sawing

- **Use only undamaged saw blades that are in perfect condition.** Bent or dull saw blades can break, negatively influence the cut, or lead to kickback.
- **When sawing lightweight materials, take into account the statutory provisions and recommendations of the material manufacturers.**
- **Plunge cuts may only be applied to soft materials, such as wood, gypsum board, etc.**

Before using HCS saw blades to saw into wood, chipboard, building materials, etc., check these saw blades for foreign objects, such as nails, screws, etc. Remove the foreign objects as required or use bi-metal saw blades.

Cutting

Note: When cutting wall tiles, please bear in mind that the application tools are subject to high wear if used for extended periods.

Sanding

The material removal rate and sanding result are primarily determined by the choice of sanding sheet, the preselected orbital stroke rate level and the contact pressure.

Only immaculate sanding sheets achieve good sanding performance and make the power tool last longer.

Be sure to apply consistent contact pressure in order to increase the lifetime of the sanding sheets.

Excessively increasing the contact pressure will not lead to increased sanding performance, rather it will cause more severe wear of the power tool and of the sanding sheet.

To sand corners, edges and hard-to-reach areas accurately, you can also work with the tips alone or with an edge of the sanding plate.

The sanding sheet may heat up significantly when used to sand specific points rather than entire surfaces. Reduce the orbital stroke rate and contact pressure and allow the sanding sheet to cool down at regular intervals.

Do not use a sanding sheet for other materials after it has been used to work on metal.

Use only original **Bosch** sanding accessories.

Always connect a dust extraction system for sanding.

Scraping

Select a high orbital stroke rate level for scraping.
Work on a soft surface (e.g. wood) at a flat angle and with low contact pressure. Failure to do so may cause the scraper to cut into the surface underneath.

Maintenance and Service

Maintenance and Cleaning

- **Pull the plug out of the socket before carrying out any work on the power tool.**
- **To ensure safe and efficient operation, always keep the power tool and the ventilation slots clean.**

In order to avoid safety hazards, if the power supply cord needs to be replaced, this must be done by **Bosch** or by an after-sales service centre that is authorised to repair **Bosch** power tools.

Regularly clean Riff application tools (accessories) using a wire brush.

After-Sales Service and Application Service

Our after-sales service responds to your questions concerning maintenance and repair of your product as well as spare parts. You can find explosion drawings and information on spare parts at: www.bosch-pt.com

The Bosch product use advice team will be happy to help you with any questions about our products and their accessories.

In all correspondence and spare parts orders, please always include the 10-digit article number given on the nameplate of the product.

Great Britain

Robert Bosch Ltd. (B.S.C.)

P.O. Box 98

Broadwater Park

North Orbital Road

Denham Uxbridge

UB 9 5HJ

At www.bosch-pt.co.uk you can order spare parts or arrange the collection of a product in need of servicing or repair.

Tel. Service: (0344) 7360109

E-Mail: boschservicecentre@bosch.com

You can find further service addresses at:

www.bosch-pt.com/serviceaddresses

Disposal

The power tool, accessories and packaging should be recycled in an environmentally friendly manner.



Do not dispose of power tools along with household waste.

Only for EU countries:

According to the European Directive 2012/19/EU on Waste Electrical and Electronic Equipment and its implementation into national law, power tools that are no longer usable must be collected separately and disposed of in an environmentally friendly manner.

If disposed incorrectly, waste electrical and electronic equipment may have harmful effects on the environment and human health, due to the potential presence of hazardous substances.

Only for United Kingdom:

According to The Waste Electrical and Electronic Equipment Regulations 2013 (SI 2013/3113) (as amended), products that are no longer usable must be collected separately and disposed of in an environmentally friendly manner.

Français

Consignes de sécurité

Avertissements de sécurité généraux pour l'outil électrique

⚠ AVERTISSEMENT

Lire tous les avertissements de sécurité, les instructions, les illustrations et les spécifications fournis

avec cet outil électrique. Ne pas suivre les instructions énumérées ci-dessous peut provoquer un choc électrique, un incendie et/ou une blessure sérieuse.

Conserver tous les avertissements et toutes les instructions pour pouvoir s'y reporter ultérieurement.

Le terme "outil électrique" dans les avertissements fait référence à votre outil électrique alimenté par le secteur (avec cordon d'alimentation) ou votre outil électrique fonctionnant sur batterie (sans cordon d'alimentation).

Sécurité de la zone de travail

- **Conserver la zone de travail propre et bien éclairée.**
Les zones en désordre ou sombres sont propices aux accidents.
- **Ne pas faire fonctionner les outils électriques en atmosphère explosive, par exemple en présence de liquides inflammables, de gaz ou de poussières.** Les outils électriques produisent des étincelles qui peuvent enflammer les poussières ou les fumées.
- **Maintenir les enfants et les personnes présentes à l'écart pendant l'utilisation de l'outil électrique.** Les distractions peuvent vous faire perdre le contrôle de l'outil.

Sécurité électrique

- **Il faut que les fiches de l'outil électrique soient adaptées au socle. Ne jamais modifier la fiche de quelque façon que ce soit. Ne pas utiliser d'adaptateurs avec des outils électriques à branchement de terre.** Des



EasyVac 3
0 603 3D1 0..



UniversalVac 15
0 603 3D1 1..



AdvancedVac 20
0 603 3D1 2..



Ø 35 mm:
2 609 256 F29 (2,2 m)

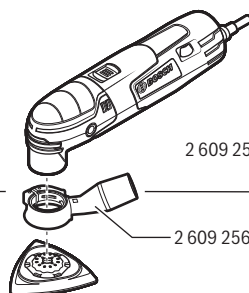


Ø 35 mm:
2 609 256 F30 (2,2 m)



Ø 19 mm:
2 609 256 F38 (2 m)

2 609 256 F28



2 609 256 F28



2 609 256 D57

de	EU-Konformitätserklärung Multifunktionswerkzeug	Sachnummer	Wir erklären in alleiniger Verantwortung, dass die genannten Produkte allen einschlägigen Bestimmungen der nachfolgend aufgeführten Richtlinien und Verordnungen entsprechen und mit folgenden Normen übereinstimmen. Technische Unterlagen bei: *
en	EU Declaration of Conformity Multifunction tool	Article number	We declare under our sole responsibility that the stated products comply with all applicable provisions of the directives and regulations listed below and are in conformity with the following standards. Technical file at: *
fr	Déclaration de conformité UE Outil multifonctions	N° d'article	Nous déclarons sous notre propre responsabilité que les produits décrits sont en conformité avec les directives, règlements normatifs et normes énumérés ci-dessous. Dossier technique auprès de : *
es	Declaración de conformidad UE Herramienta multifuncional	Nº de artículo	Declaramos bajo nuestra exclusiva responsabilidad, que los productos nombrados cumplen con todas las disposiciones correspondientes de las Directivas y los Reglamentos mencionados a continuación y están en conformidad con las siguientes normas. Documentos técnicos de: *
pt	Declaração de Conformidade UE Ferramenta multifuncional	N.º do produto	Declaramos sob nossa exclusiva responsabilidade que os produtos mencionados cumprem todas as disposições e os regulamentos indicados e estão em conformidade com as seguintes normas. Documentação técnica pertencente à: *
it	Dichiarazione di conformità UE Utensile multifunzione	Codice prodotto	Dichiariamo sotto la nostra piena responsabilità che i prodotti indicati sono conformi a tutte le disposizioni pertinenti delle Direttive e dei Regolamenti elencati di seguito, nonché alle seguenti Normative. Documentazione Tecnica presso: *
nl	EU-conformiteitsverklaring Multifunctioneel gereedschap	Productnummer	Wij verklaren op eigen verantwoordelijkheid dat de genoemde producten voldoen aan alle desbetreffende bepalingen van de hierna genoemde richtlijnen en verordeningen en overeenstemmen met de volgende normen. Technisch dossier bij: *
da	EU-overensstemmelseserklæring Multifunktionsværktøj	Typenummer	Vi erklærer som eneansvarlige, at det beskrevne produkt er i overensstemmelse med alle gældende bestemmelser i følgende direktiver og forordninger og opfylder følgende standarder. Tekniske bilag ved: *
sv	EU-konformitetsförklaring Multiverktyg	Produktnummer	Vi förklarar under eget ansvar att de nämnda produkterna uppfyller kraven i alla gällande bestämmelser i de nedan angivna direktiven och förordningarna och att de stämmer överens med följande normer. Teknisk dokumentation: *
no	EU-samsvarserklæring Multiverktøy	Produktnummer	Vi erklærer under eneansvar at de nevnte produktene er i overensstemmelse med alle relevante bestemmelser i direktivene og forordningene nedenfor og med følgende standarder. Teknisk dokumentasjon hos: *
fi	EU-vaatimustenmukaisuusvakuutus Monitoimityökalu	Tuotenumero	Vakuutamme täten, että mainitut tuotteet vastaavat kaikkia seuraavien direktiivien ja asetusten asiaankuuluvia vaatimuksia ja ovat seuraavien standardien vaatimusten mukaisia. Tekniset asiakirjat saatavana: *
el	Δήλωση πιστότητας ΕΕ Πολυλειτουργικό εργαλείο	Αριθμός ευρετηρίου	Δηλώνουμε με αποκλειστική μας ευθύνη, ότι τα αναφερόμενα προϊόντα αντιστοιχούν σε όλες τις σχετικές διατάξεις των πιο κάτω αναφερόμενων οδηγιών και κανονισμών και ταυτίζονται με τα ακόλουθα πρότυπα. Τεχνικά έγγραφα στη: *
tr	AB Uygunluk beyanı Çok amaçlı alet	Ürün kodu	Tek sorumlu olarak, tanımlanan ürünün aşağıdaki yönetmelik ve direktiflerin geçerli bütün hükümlerine ve aşağıdaki standartlara uygun olduğunu beyan ederiz. Teknik belgelerin bulunduğu yer: *

pl	Deklaracja zgodności UE Narzędzie wielofunkcyjne	Numer katalogowy	Oświadczamy z pełną odpowiedzialnością, że niniejsze produkty odpowiadają wszystkim wymaganiom poniżej wyszczególnionych dyrektyw i rozporządzeń, oraz że są zgodne z następującymi normami. Dokumentacja techniczna: *
cs	EU prohlášení oshodě Multifunkční nářadí	Objednací číslo	Prohlašujeme na výhradní zodpovědnost, že uvedený výrobek splňuje všechna příslušná ustanovení níže uvedených směrníc aniž aje vsouladu snásledujícími normami: Technické podklady u: *
sk	EÚ vyhlásenie ozhode Multifunkčné náradie	Vecné číslo	Vyhlasujeme na výhradnú zodpovednosť, že uvedený výrobok spĺňa všetky príslušné ustanovenia nižšie uvedených smerníc anariadení aje vsúlade snasledujúcimi normami: Technické podklady má spoločnosť: *
hu	EU konformitási nyilatkozat Többfunkciós szerszám	Cikkszám	Egyedüli felelősséggel kijelentjük, hogy a megnevezett termékek megfelelnek az alábbiakban felsorolásra kerülő irányelvek és rendeletek valamennyi idevágó előírásainak és megfelelnek a következő szabványoknak. Műszaki dokumentumok megőrzési pontja: *
ru	Заявление о соответствии ЕС Мультифункциональный инструмент	Товарный №	Мы заявляем под нашу единоличную ответственность, что названные продукты соответствуют всем действующим предписаниям нижеуказанных директив и распоряжений, а также нижеуказанных норм. Техническая документация хранится у: *
uk	Заява про відповідність ЄС Багатофункціональний інструмент	Товарний номер	Мизаявляємо під нашу одноособову відповідальність, що названі вироби відповідають усім чинним положенням нищеозначених директив і розпоряджень, а також нищеозначеним нормам. Технічна документація зберігається у: *
kk	EO сәйкестік мағлұмдамасы Көп функциялы құрал	Өнім нөмірі	Өз жауапкершілікпен біз аталған өнімдер төменде жзылған директикалар мен жарлықтардың тиісті қағидаларына сәйкестігін және төмендегі нормаларға сай екенін білдіреміз. Техникалық құжаттар: *
ro	Declarație de conformitate UE Sculă electrică multifuncțională	Număr de identificare	Declarăm pe proprie răspundere că produsele menționate corespund tuturor dispozițiilor relevante ale directivelor și reglementărilor enumerate în cele ce urmează și sunt în conformitate cu următoarele standarde. Documentație tehnică la: *
bg	ЕС декларация за съответствие Мультифункционален инструмент	Каталоген номер	С пълна отговорност ние декларираме, че посочените продукти отговарят на всички валидни изисквания на директивите и разпоредбите по-долу и съответства на следните стандарти. Техническа документация при: *
mk	EU-Изјава за сообразност Мультифункционален алат	Број на дел/артикл	Со целосна одговорност изјавуваме, дека опишаните производи се во согласност со сите релевантни одредби на следните регулативи и прописи и се во согласност со следните норми. Техничка документација кај: *
sr	EU-izjava o usaglašenosti Multifunkcionalni alat	Број предмета	Na sopstvenu odgovornost izjavljujemo, da navedeni proizvodi odgovaraju svim dotičnim odredbama naknadno navedenih smernica u uredaba i da su u skladu sa sledećim standardima. Tehnička dokumentacija kod: *
sl	Izjava o skladnosti EU Multifunkcijsko orodje	Številka artikla	Izjavljamo pod izključno odgovornostjo, da je omenjen izdelek v skladu z vsemi relevantnimi določili direktiv in uredb ter ustreza naslednjim standardom. Tehnična dokumentacija pri: *
hr	EU izjava o sukladnosti Višenamjenski alat	Kataloški br.	Pod punom odgovornošću izjavljujemo da navedeni proizvodi odgovaraju svim relevantnim odredbama direktiva i propisima navedenima u nastavku i da su sukladni sa sljedećim normama. Tehnička dokumentacija se može dobiti kod: *

et	EL-vastavusdeklaratsioon	Kinnitame ainuvastutajatena, et nimetatud tooted vastavad järgnevalt loetletud direktiivide ja määruste kõikidele asjaomastele nõuetele ja on kooskõlas järgmiste normidega. Tehnilised dokumendid saadaval: *	
Mitmeotstarbeline tööriist		Tootenumber	Mēs ar pilnu atbildību paziņojam, ka šeit aplūkotie izstrādājumi atbilst visiem tālāk minētajās direktīvās un rīkojumos ietvertajām saistošajām nostādnēm, kā arī sekojošiem standartiem. Tehniskā dokumentācija no: *
lv	Deklarācija par atbilstību ES standartiem	Izstrādājuma numurs	
Daudzfunkcionālie instrumenti			Atsakingai pareiškiame, kad išvardyti gaminiai atitinka visus privalomus žemiau nurodytų direktyvų ir reglamentų reikalavimus ir šiuos standartus. Techninė dokumentacija saugoma: *
lt	ES atitikties deklaracija	Gaminio numeris	
Daugiafunkcis įrankis			PMF 220 CE 3 603 A02 0.. 2006/42/EC 2014/30/EU 2011/65/EU EN 62841-1:2015 EN 62841-2-4:2014 EN 55014-1:2017+A11:2020 EN 55014-2:2015 EN IEC 61000-3-2:2019 EN 61000-3-3:2013+A1:2019 EN IEC 63000:2018  BOSCH * Robert Bosch Power Tools GmbH (PT/ECS) 70538 Stuttgart GERMANY Henk Becker Chairman of Executive Management Helmut Heinzelmann Head of Product Certification   Robert Bosch Power Tools GmbH, 70538 Stuttgart, GERMANY Stuttgart, 05.10.2020

Declaration of Conformity

Multifunction tool

PMF 220 CE
PMF 2000 CE

Article number

3 603 A02 070

We declare under our sole responsibility that the stated products comply with all applicable provisions of the regulations listed below and are in conformity with the following standards.

Technical file at: Robert Bosch Ltd. (PT/SOP-GB), Broadwater Park, North Orbital Road, Uxbridge UB9 5HJ, United Kingdom

The Supply of Machinery (Safety) Regulations 2008
The Electromagnetic Compatibility Regulations 2016
The Restriction of the Use of Certain Hazardous Substances in
Electrical and Electronic Equipment Regulations 2012

EN 62841-1:2015
EN 62841-2-4:2014
EN 55014-1:2017+A11:2020
EN 55014-2:2015
EN IEC 61000-3-2:2019
EN 61000-3-3:2013+A1:2019
EN IEC 63000:2018

**BOSCH**

Robert Bosch Power Tools GmbH, 70538 Stuttgart, Germany
represented (in terms of the above regulations) by
Robert Bosch Limited, Broadwater Park, North Orbital Road,
Uxbridge UB9 5HJ, United Kingdom

Vonjy Rajakoba
Managing Director - Bosch UK

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