

Robert Bosch Power Tools GmbH
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GERMANY

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1 609 92A 3BT

GOP 18V-28 Professional



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

pl Instrukcja oryginalna
cs Původní návod k používání
sk Pôvodný návod na použitie
hu Eredeti használati utasítás
ru Оригинальное руководство по эксплуатации
uk Оригінальна інструкція з експлуатації
kk Пайдалану нұсқаулығының түпнұсқасы
ro Instrucțiuni originale
bg Оригинална инструкция
mk Оригинално упатство за работа

sr Originalno uputstvo za rad
sl Izvirna navodila
hr Originalne upute za rad
et Algupärane kasutusjuhend
lv Instrukcijas oriģinālvadā
lt Originali instrukcija
ko 사용 설명서 원본
ar تعليمات التشغيل الأصلية
fa دفترچه راهنمای اصلی



www.powertool-portal.de, das Internetportal für Handwerker und Heimwerker.

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

Deutschland

Robert Bosch Power Tools GmbH
Servicezentrum Elektrowerkzeuge
Zur Luhne 2
37589 Kalefeld – Willershausen
Unter www.bosch-pt.de können Sie online Ersatzteile bestellen oder Reparaturen anmelden.
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Österreich

Unter www.bosch-pt.at können Sie online Ersatzteile bestellen.
Tel.: (01) 797222010
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Schweiz

Unter www.bosch-pt.com/ch/de können Sie online Ersatzteile bestellen.
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Transport

Die enthaltenen Li-Ionen-Akkus unterliegen den Anforderungen des Gefahrgutrechts. Die Akkus können durch den Benutzer ohne weitere Auflagen auf der Straße transportiert werden. Beim Versand durch Dritte (z. B.: Lufttransport oder Spedition) sind besondere Anforderungen an Verpackung und Kennzeichnung zu beachten. Hier muss bei der Vorbereitung des Versandstückes ein Gefahrgut-Experte hinzugezogen werden.

Versenden Sie Akkus nur, wenn das Gehäuse unbeschädigt ist. Kleben Sie offene Kontakte ab und verpacken Sie den Akku so, dass er sich nicht in der Verpackung bewegt. Bitte beachten Sie auch eventuelle weiterführende nationale Vorschriften.

Entsorgung



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

Werfen Sie Elektrowerkzeuge und Akkus/Batterien nicht in den Hausmüll!

Nur für EU-Länder:



Gemäß der europäischen Richtlinie 2012/19/EU müssen nicht mehr gebrauchsfähige Elektrowerkzeuge und gemäß der europäischen Richtlinie 2006/66/EG müssen defekte oder verbrauchte Akkus/Batterien getrennt gesammelt und einer umweltgerechten Wiederverwertung zugeführt werden.

Nicht mehr gebrauchsfähige Akkus/Batterien können direkt abgegeben werden bei:

Deutschland

Recyclingzentrum Elektrowerkzeuge
Osteroder Landstraße 3
37589 Kalefeld

Schweiz

Batrec AG
3752 Wimmis BE

Akkus/Batterien:



Li-Ion:

Bitte beachten Sie die Hinweise im Abschnitt „Transport“, Seite 15.

Änderungen vorbehalten.

English

Safety Notes

General Power Tool Safety Warnings

⚠ WARNING Read all safety warnings and all instructions. Failure to follow the warnings and instructions 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.

16 | English

► **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 and 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 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, clothing and gloves 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.

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 the battery pack 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. 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.

Battery tool use and care

► **Recharge only with the charger specified by the manufacturer.** A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.

► **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.

► **When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another.** Shorting the battery terminals together may cause burns or a fire.

► **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help.** Liquid ejected from the battery may cause irritation or burns.

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 Warnings for Cordless Multi-Cutters

► **Hold power tool by insulated gripping surfaces, when performing an operation where the cutting accessory may contact hidden wiring.** 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 the machine only for dry sanding.** Penetration of water into the machine increases the risk of an electric shock.

► **Caution, fire hazard! Avoid overheating the object being sanded as well as the sander. Always empty the dust collector before taking breaks.** In unfavourable

conditions, e. g., when sparks emit from sanding metals, sanding debris in the dust bag, micro filter or paper sack (or in the filter sack or filter of the vacuum cleaner) can self-ignite. Particularly when mixed with remainders of varnish, polyurethane or other chemical materials and when the sanding debris is hot after long periods of working.

- ▶ **Keep hands away from the sawing range. Do not reach under the workpiece.** Contact with the saw blade can lead to injuries.
- ▶ **Use appropriate 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.
- ▶ **When working with the machine, always hold it firmly with both hands and provide for a secure stance.** The power tool is guided more secure with both hands.
- ▶ **Secure the workpiece.** A workpiece clamped with clamping devices or in a vice is held more secure than by hand.
- ▶ **Do not open the battery.** Danger of short-circuiting.



Protect the battery against heat, e. g., against continuous intense sunlight, fire, water, and moisture. Danger of explosion.

- ▶ **In case of damage and improper use of the battery, vapours may be emitted. Ventilate the area and seek medical help in case of complaints.** The vapours can irritate the respiratory system.
- ▶ **Use the battery only in conjunction with your Bosch power tool.** This measure alone protects the battery against dangerous overload.
- ▶ **The battery can be damaged by pointed objects such as nails or screwdrivers or by force applied externally.** An internal short circuit can occur and the battery can burn, smoke, explode or overheat.
- ▶ **Wear protective gloves when changing application tools/accessories.** Application tools/accessories become hot after prolonged usage.
- ▶ **Do not scrape wetted materials (e. g. wallpaper) or on moist surfaces.** Penetration of water into the machine increases the risk of an electric shock.
- ▶ **Do not treat the surface to be worked with solvent-containing fluids.** Materials being warmed up by the scraping can cause toxic vapours to develop.
- ▶ **Exercise extreme caution when handling the scraper.** The accessory is very sharp; danger of injury.

Product Description and Specifications



Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

While reading the operating instructions, unfold the graphics page for the machine and leave it open.

Intended Use

The machine is intended for sawing and cutting wooden materials, plastic, gypsum, non-ferrous metals and fastening elements (e. g., unhardened nails, staples). It is also suitable for working soft wall tiles, as well as for dry sanding and scraping of small surfaces. It is especially suitable for working close to edges and for flush cutting. Operate the power tool exclusively with Bosch accessories.

The light of this power tool is intended to illuminate the power tool's direct area of working operation and is not suitable for household room illumination.

Product Features

The numbering of the product features refers to the illustration of the machine on the graphics page.

- 1 On/Off switch
- 2 Venting slots
- 3 Battery pack
- 4 Thumbwheel for orbit frequency preselection
- 5 Battery charge-control indicator*
- 6 Button for charge-control indicator*
- 7 SDS lever for releasing the application tool
- 8 Tool holder
- 9 Plunge saw blade*
- 10 Worklight
- 11 Battery unlocking button
- 12 Dust extraction*
- 13 Sanding plate
- 14 Sanding sheet*
- 15 Clamping lever of the depth stop
- 16 Depth stop*
- 17 Handle (insulated gripping surface)
- 18 Clamping lever of the dust extraction
- 19 Vacuum connection
- 20 Extraction adapter*
- 21 Vacuum hose*

*Accessories shown or described are not part of the standard delivery scope of the product. A complete overview of accessories can be found in our accessories program.

Technical Data

Cordless Multi-Cutter		GOP 18V-28
Article number		3 601 HB6 ...
Rated voltage	V=	18
No-load speed n_0	min^{-1}	8000 – 20000
Oscillation angle, left/right	°	1.4
Weight according to EPTA-Procedure 01:2014	kg	1.8

1) Limited performance at temperatures <0 °C
 Technical data determined with battery from delivery scope.

18 | English

Cordless Multi-Cutter		GOP 18V-28	
Permitted ambient temperature			
- during charging	°C		0... +45
- during operation ¹⁾ and during storage	°C		-20... +50
Recommended batteries		GBA 18V ...	GBA 18V ... W
Recommended chargers		AL 18..	GAL 18.. W GAL 3680

1) Limited performance at temperatures < 0 °C
 Technical data determined with battery from delivery scope.

Noise/Vibration Information

Sound emission values determined according to EN 60745-2-4.

Typically the A-weighted noise levels of the product are: Sound pressure level 84 dB(A); Sound power level 95 dB(A). Uncertainty K = 3 dB.

Wear hearing protection!

Vibration total values a_h (triax vector sum) and uncertainty K determined according to EN 60745-2-4:

- Sanding: $a_h = 3.4 \text{ m/s}^2$, $K = 1.5 \text{ m/s}^2$,
- Sawing with plunge cut saw blade: $a_h = 8 \text{ m/s}^2$, $K = 1.5 \text{ m/s}^2$,
- Sawing with segment saw blade: $a_h = 5.7 \text{ m/s}^2$, $K = 1.5 \text{ m/s}^2$,
- Scraping: $a_h = 8.6 \text{ m/s}^2$, $K = 1.5 \text{ m/s}^2$.

The vibration level given in this information sheet has been measured in accordance with a standardised test given in EN 60745 and may be used to compare one tool with another. It may be used for a preliminary assessment of exposure.

The declared vibration emission level represents the main applications of the tool. However if the tool is used for different applications, with different accessories or insertion tools or is poorly maintained, the vibration emission may differ. This may significantly increase the exposure level over the total working period.

An estimation of the level of exposure to vibration should also take into account the times when the tool is switched off or when it is running but not actually doing the job. This may significantly reduce the exposure level over the total working period.

Identify additional safety measures to protect the operator from the effects of vibration such as: maintain the tool and the accessories, keep the hands warm, organisation of work patterns.

Assembly

Battery Charging

► **Use only the chargers listed in the technical data.** Only these chargers are matched to the lithium-ion battery of your power tool.

Note: The battery supplied is partially charged. To ensure full capacity of the battery, completely charge the battery in the battery charger before using your power tool for the first time.

The lithium-ion battery can be charged at any time without reducing its service life. Interrupting the charging procedure does not damage the battery.

Removing the battery

The battery **3** is equipped with two locking levels that should prevent the battery from falling out when pushing the battery unlocking button **11** unintentionally. As long as the battery is inserted in the power tool, it is held in position by means of a spring.

To remove the battery **3**, press the battery unlocking button **11** and pull the battery out of the power tool toward the rear. **Do not exert any force.**

Battery Charge-control Indication

The three green LEDs of the battery charge-control indicator **5** indicate the charge condition of the battery **3**. For safety reasons, it is only possible to check the status of the charge condition when the machine is at a standstill.

Press button **6** to indicate the charge condition. This is also possible when the battery **3** is removed.







LED	Capacity
Continuous lighting 3 x green	≥ 2/3
Continuous lighting 2 x green	≥ 1/3
Continuous lighting 1 x green	< 1/3
Flashing light 1 x green	Reserve

When no LED lights up after pushing button **6**, then the battery is defective and must be replaced.

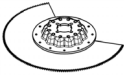

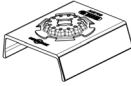
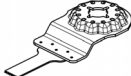
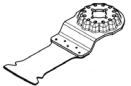

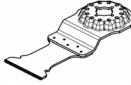
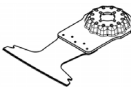
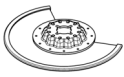
Changing the Tool

- **Before any work on the machine itself (e. g. maintenance, tool change, etc.) as well as during transport and storage, remove the battery from the power tool.** There is danger of injury when unintentionally actuating the On/Off switch.
- **Wear protective gloves when changing application tools/accessories.** Contact with the application tool/ accessory can lead to injuries.

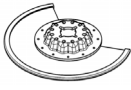
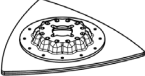
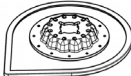
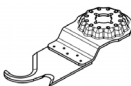
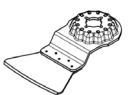
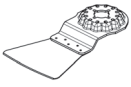
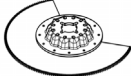

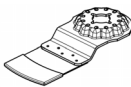
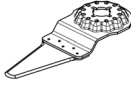
Selecting the Application Tool/Accessory

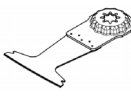
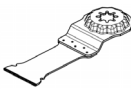
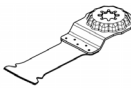
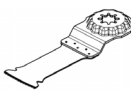
Accessory	GOP 18V-28	
 STARLOCK		✓
 STARLOCK PLUS		✓
 STARLOCK MAX		✗

The following table shows examples for application tools. Further application tools can be found in the extensive Bosch accessories program.

Accessory	Material	Application
 BIM segment saw blade	Wooden materials, Plastic, Non-ferrous metals	Separating and plunge cuts; also for sawing close to edges, in corners and hard to reach areas; example: shortening already installed bottom rails or door hinges, plunge cuts for adjusting floor panels
 Base plate for sanding, series Delta 93 mm	Depends on sanding sheet	Sanding surfaces close to edges, in corners or hard to reach areas; depending on the sanding sheet for, e. g., sanding wood, paint, varnish, stone Fleeces for cleaning and for texturing wood, removing rust from metal and for keying varnishes, polishing felt for pre-polishing
 Profile sander	Wood, Pipes/Profile, Paint, Varnishes, Filler, Metal	Convenient, efficient sanding of profiles up to a diameter of 55 mm; Red sanding sheets for sanding wood, pipes/profiles, varnishes, fillers and metal
 BIM plunge cut saw blade, wood and metal	Softwood, Soft plastics, Plasterboard, Thin-walled aluminium and non-ferrous metal profiles, Thin sheet metals, Non-hardened nails and screws	Smaller separating and plunge cuts; example: cutting an opening for sockets, flush cutting a copper pipe, plunge cuts in plasterboard Filigree adjustment work in wood; example: sawing openings for locks and fittings
 HCS plunge cut saw blade, wood	Wooden materials, Soft plastics	Separating and deep plunge cuts; also for sawing close to edges, in corners and hard to reach areas; example: narrow plunge cut in solid wood for installing a ventilation grid
 Bi-metal plunge cut saw blade, hardwood	Hardwood, Laminated panels	Plunge cuts in laminated panels or hardwood; example: installing skylights
 TC plunge cut saw blade, metal	Metal, Severely abrasive materials, Fibreglass, Plasterboard, Cement-bonded fibre boards	Plunge cuts in severely abrasive materials or metal; example: cutting kitchen front covers, easy cutting through hardened screws, nails and stainless steel
 BIM plunge cut saw blade, wood and metal	Softwood, Hardwood, Veneered panels, Plastic-laminated panels, Non-hardened nails and screws	Plunge cuts in laminated panels or hardwood; example: shortening door frames, cutting openings for a shelf
 HM-Riff segment saw blade	Cement joints, Soft wall tiles, Glass fibre reinforced plastics, Porous concrete	Cutting and separating close to edges, in corners or hard to reach areas; example: removing grouting joints between wall tiles for repair work, cutting openings in tiles, gypsum boards or plastic

20 | English

Accessory	Material	Application
 Diamond-Riff segment saw blade	Cement joints, Soft wall tiles, Epoxy resin, Glass fibre reinforced plastics	Precise routing and cutting of tile/joint material, epoxy resins and glass fibre reinforced plastics; example: making smaller cutouts in soft wall tiles and routing openings in glass fibre reinforced plastic
 HM-Riff delta plate	Mortar, Concrete residues, Wood, Abrasive materials	Rasping and sanding on hard surfaces; example: removing mortar or tile adhesive (e.g. when replacing damaged tiles), removing carpet adhesive residues
 HM-Riff grout and mortar remover	Mortar, Joints, Epoxy resin, Glass fibre reinforced plastics, Abrasive materials	Routing and cutting joint and tile material and rasping and sanding on hard surfaces; example: removing tile adhesive and grout
 HCS multi blade	Roofing felt, Carpets, Artificial turf, Cardboard, PVC flooring	Fast, precise cutting of soft material and flexible abrasive materials; example: cutting carpets, cardboard, PVC flooring, roofing felt, etc.
 Scraper, rigid	Carpets, Mortar, Concrete, Tile adhesive	Scraping on hard surfaces; example: removing mortar, tile adhesive, concrete and carpet adhesive residues
 Scraper, flexible	Carpet adhesive, Paint residues, Silicone	Flexible scraping on soft surfaces; example: removing silicone joints, carpet adhesive and paint residues
 BIM serrated segment saw blade	Insulation material, Insulation panels, Floor panels, Sound-dampening floor panels, Cardboard, Carpets, Rubber, Leather	Precise cutting of soft materials; example: cutting insulation panels to size, flush cutting protruding insulation material to length
 HM-Riff sanding finger	Wood, Paint	Sanding wood or paint in hard to reach areas without sanding paper; example: sanding off paint between shutter louvres, sanding wooden floors in corners
 HM-Riff plunge cut saw blade	Fibreglass, Mortar, Wood	Plunge cuts in severely abrasive materials; example: routing thin mosaic tiles
 HCS universal joint cutter	Expansion joints, Putty, Insulation materials (rock wool)	Cutting and separating soft materials; example: cutting silicone expansion joints or putty

Accessory	Material	Application
 <p>BIM plunge cut saw blade, wood and metal</p>	Softwood, Hardwood, Veneered panels, Plastic-laminated panels, Non-hardened nails and screws	Fast, deep plunge cuts in wood and metal; example: quick cutting of wood containing nails, deep plunge cuts in laminated panels and precise shortening of door frames
 <p>TC plunge cut saw blade, metal</p>	Stainless steel (Inox), Screws and nails, Epoxy resin, Glass fibre reinforced plastics, Fibreglass, Plasterboard, Porous concrete	Fast, deep plunge cuts in severely abrasive materials or metal; example: fast cutting of kitchen front covers, easy cutting through hardened screws, nails and stainless steel
 <p>BIM plunge cut saw blade, wood and metal</p>	Wood, Abrasive wooden materials, Plastics, Hardened nails and screws, Non-ferrous metal pipes	Fast, deep plunge cuts in wood, abrasive wooden materials and plastics; example: fast cutting of non-ferrous metal pipes and profiles with smaller dimensions, easy cutting of non-hardened nails, screws and steel profiles with smaller dimensions
 <p>HCS plunge cut saw blade, wood</p>	Softwood, Dowels, Tenons, Furniture components	Fast, deep separating and plunge cuts; also for sawing close to edges in corners and hard to reach areas; example: deep plunge cut in softwood for installing a ventilation grid

Mounting/Replacing the Application Tool/Accessory

If required, remove an already mounted application tool/accessory.

To do so, open the SDS lever **7** all the way. The application tool/accessory will be ejected.

Mount the requested application tool/accessory (e.g. plunge cut saw blade **9**) in such a manner on the tool holder **8** that the offset faces downward (see illustration on the graphics page; marking on the application tool/accessory is readable from above).

When doing so, place the application tool/accessory in a position which is convenient for the job at hand. Twelve different positions are possible, each offset by 30°.

Press the application tool/accessory in the required position firmly onto the clamping jaws of the tool holder until it is automatically locked.

► **Check the tight seating of the application tool/accessory.** Incorrect or not securely fastened application tools/accessories can come loose during operation and pose a hazard.

Mounting and Adjusting the Depth Stop

The depth stop **16** can be used when working with segment and plunge cut saw blades.

If required, remove an already mounted application tool/accessory.

Slide the depth stop **16** in the required work position all the way over the tool holder **8** onto the collar of the power tool. Allow the depth stop to engage. Twelve different positions are possible, each offset by 30°.

Set the required working depth. Press shut the clamping lever **15** of the depth stop in order to fix the depth stop.

Mounting/Replacing a Sanding Sheet on the Sanding Plate

The sanding plate **13** is fitted with Velcro backing for quick and easy fastening of sanding sheets with Velcro adhesion.

Before attaching the sanding sheet **14**, free the Velcro backing of the sanding plate **13** from any debris by tapping against it in order to enable optimum adhesion.

Position the sanding sheet **14** flush alongside one edge of the sanding plate **13**, then lay the sanding sheet onto the sanding plate and press firmly.

To ensure optimum dust extraction, pay attention that the punched holes in the sanding sheet match with the holes in the sanding plate.

To remove the sanding sheet **14**, grasp it at one of the tips and pull it off from the sanding plate **13**.

You can use all sanding sheets, fleece pads/polishing cloth pads of the Delta 93 mm series of Bosch accessory program. Sanding accessories, such as fleece pads/polishing cloth pads, are attached to the sanding plate in the same manner.

22 | English

Selecting the Sanding Sheet

Depending on the material to be worked and the required rate of material removal, different sanding sheets are available:

Sanding disc	Material	Application	Grain size
best FOR Wood	<ul style="list-style-type: none"> - All wooden materials (e. g., hardwood, softwood, chipboard, building board) - Metal materials 	For coarse-sanding, e. g. of rough, unplanned beams and boards	coarse 40 60
		For face sanding and planing small irregularities	medium 80 100 120
		For finish and fine sanding of wood	fine 180 240 320 400
best FOR Paint	<ul style="list-style-type: none"> - Paint - Varnish - Filling compound - Filler 	For sanding off paint	coarse 40 60
		For sanding primer (e. g., for removing brush dashes, drops of paint and paint run)	medium 80 100 120
		For final sanding of primers before coating	fine 180 240 320 400

Dust/Chip Extraction

- ▶ Dust from materials such as lead-containing coatings, some wood types, minerals and metal can be harmful to one's health. Touching or breathing-in the dust can cause allergic reactions and/or lead to respiratory infections of the user or bystanders.

Certain dust, such as oak or beech dust, is considered carcinogenic, especially in connection with wood-treatment additives (chromate, wood preservative). Materials containing asbestos may only be worked by specialists.

- As far as possible, use a dust extraction system suitable for the material.
- Provide for good ventilation of the working place.
- It is recommended to wear a P2 filter-class respirator.

Observe the relevant regulations in your country for the materials to be worked.

- ▶ **Prevent dust accumulation at the workplace.** Dust can easily ignite.

Connecting the Dust Extraction (see figure A)

The dust extraction **12** is intended only when working with the sanding plate **13**; it is not of use in combination with other application tools.

For sanding, always connect the dust extraction.

To mount the dust extraction **12** (accessory), remove the application tool and the depth stop **16**.

Slide the dust extraction **12** all the way over the tool holder **8** onto the collar of the power tool. Turn it to the required position. Press shut the clamping lever **18** to fix the dust extraction.

Plug the tool sleeve **20** of the vacuum hose **21** onto the vacuum connection **19**. Connect the vacuum hose **21** to a vacuum cleaner (accessory). You will find an overview of connecting to various vacuum cleaners on the fold-out page.

The vacuum cleaner must be suitable for the material being worked.

When vacuuming dry dust that is especially detrimental to health or carcinogenic, use a special vacuum cleaner.

Operation**Starting Operation****Inserting the battery**

- ▶ **Use only original Bosch lithium-ion batteries with the voltage listed on the nameplate of your power tool.**

Using other batteries can lead to injuries and pose a fire hazard.

Note: Use of batteries not suitable for the machine can lead to malfunctions of or cause damage to the power tool.

Insert the charged battery pack **3** from the rear into the base of the power tool. Press the battery pack completely into the base until the red stripe can no longer be seen and the battery pack is securely locked.

Switching On and Off

To **start** the machine, push the On/Off switch **1** forward so that the "I" is indicated on the switch.

To **switch off** the machine, push the On/Off switch **1** toward the rear so that the "O" is indicated on the switch.

To save energy, only switch the power tool on when using it.

The worklight improves visibility in the immediate work area. It is automatically switched on and off with the power tool.

- ▶ **Do not look directly into the work area illumination – your sight can be temporarily degraded!**

The lithium-ion battery is protected against deep discharging by the “Electronic Cell Protection (ECP)”. When the battery is empty, the machine is switched off by means of a protective circuit: The inserted tool no longer rotates.

Note: If the machine should automatically switch off because of a discharged or overheated battery, make sure to set the machine's On/Off switch **1** to off. Charge the battery and allow it to cool down before restarting the machine. Otherwise the battery can become damaged.

Preselecting the Orbital Stroke Rate

With the thumbwheel for preselection of the orbital stroke rate **4**, you can preselect the required orbital stroke rate, even during operation.

The required stroke rate depends on the material and the working conditions and can be determined through practical testing.

Working Advice

- ▶ **Before any work on the machine itself (e. g. maintenance, tool change, etc.) as well as during transport and storage, remove the battery from the power tool.**

There is danger of injury when unintentionally actuating the On/Off switch.

- ▶ **Wait until the machine has come to a standstill before placing it down.**

Note: Do not cover off the venting slots **2** of the machine while working, as this reduces the working life of the machine.

Operating Principle

Due to the oscillating drive the application tool/accessory oscillates up to 20 000 times per minute at 2.8°. This allows for precise work in narrow spaces.



Work with low and uniform application pressure, otherwise, the working performance will decline and the application tool can become blocked.



While working, move the machine back and forth, so that the application tool does not heat up excessively and become blocked.

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 light building materials, observe the statutory provisions and the recommendations of the material suppliers.**
- ▶ **Plunge cuts may only be applied to soft materials, such as wood, gypsum plaster boards, etc.!**

Before sawing with HCS saw blades in wood, particle board, building materials, etc., check these for foreign objects such as nails, screws, or similar. If required, remove foreign objects or use BIM saw blades.

Separating

Note: When separating wall tiles take into consideration that the application tools/accessories wear heavily when used for longer periods of time.

Sanding

The removal rate and the sanding pattern are primarily determined by the choice of sanding sheet, the preset oscillation rate and the applied pressure.

Only flawless sanding sheets achieve good sanding capacity and extend the service life of the machine.

Pay attention to apply uniform sanding pressure; this increases the working life of the sanding sheets.

Intensifying the sanding pressure does not lead to an increase of the sanding capacity, but to increased wear of the machine and the sanding sheet.

For precise on-the-spot sanding of edges, corners and hard to reach areas, it is also possible to work only with the tip or an edge of the sanding plate.

When selectively sanding on the spot, the sanding sheet can heat up considerably. Reduce the orbital stroke rate and the sanding pressure, and allow the sanding sheet to cool down regularly.

A sanding sheet that has been used for metal should not be used for other materials.

Use only original Bosch sanding accessories.

For sanding, always connect the dust extraction.

Scraping

For scraping, select a high oscillation rate.

Work on a soft surface (e. g. wood) at a flat angle, and apply only light pressure. Otherwise the scraper can cut into the surface.

Temperature Dependent Overload Protection

In normal conditions of use, the power tool cannot be overloaded. If the power tool is overloaded or not kept within the permitted battery temperature range, the speed is reduced or the power tool switches off. At reduced speed, the power tool will run again at full speed once the permitted battery temperature is reached or the load is reduced. During automatic shut-down, switch off the power tool, allow the battery to cool down, then switch the power tool back on.

Recommendations for Optimal Handling of the Battery

Protect the battery against moisture and water.

Store the battery only within a temperature range between –20 °C and 50 °C. As an example, do not leave the battery in the car in summer.

A significantly reduced working period after charging indicates that the battery is used and must be replaced.

Observe the notes for disposal.

Maintenance and Service

Maintenance and Cleaning

- ▶ **Before any work on the machine itself (e. g. maintenance, tool change, etc.) as well as during transport and storage, remove the battery from the power tool.**

There is danger of injury when unintentionally actuating the On/Off switch.

- ▶ **For safe and proper working, always keep the machine and ventilation slots clean.**

Clean Riff application tools (accessory) regularly with 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. Exploded views and information on spare parts can also be found under:

www.bosch-pt.com

Bosch's application service team will gladly answer questions concerning 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.

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Fax: (011) 6519880
E-Mail: rbsa-hq.pts@za.bosch.com

Transport

The contained lithium-ion batteries are subject to the Dangerous Goods Legislation requirements. The user can transport the batteries by road without further requirements.

When being transported by third parties (e. g.: air transport or forwarding agency), special requirements on packaging and labelling must be observed. For preparation of the item being shipped, consulting an expert for hazardous material is required.

Dispatch batteries only when the housing is undamaged. Tape or mask off open contacts and pack up the battery in such a manner that it cannot move around in the packaging. Please also observe possibly more detailed national regulations.

Disposal



The machine, rechargeable batteries, accessories and packaging should be sorted for environmental-friendly recycling.

Do not dispose of power tools and batteries/rechargeable batteries into household waste!

STARLOCK



2 608 661 640 (20 mm, BIM)
 2 608 661 641 (10 mm, BIM)
 2 608 662 019 (20 mm, Carbide)



2 608 661 691 (28 mm, HCS)



2 608 661 644 (32,5 mm, BIM)
 2 608 661 645 (32,5 mm, BIM)
 2 608 661 688 (32,5 mm, BIM)
 2 608 662 018 (32,5 mm, Carbide)
 2 608 662 360 (32,5 mm, HCS)
 2 608 661 637 (32,5 mm, HCS)



2 608 661 868 (33,6 mm, Carbide)



2 608 662 431 (32,5 mm, HCS)



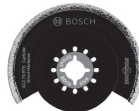
2 608 661 646 (52 mm, HCS)
 2 608 661 647 (52 mm, HCS)



2 608 661 781 (64,3 mm, BIM)
 2 608 662 017 (64,4 mm, BIM)
 2 608 662 357 (64,3 mm, HCS)
 2 608 662 354 (64,4 mm, HCS)



2 608 662 610 (32,5 mm, Carbide)
 2 608 662 611 (32,5 mm, Carbide)



2 608 661 692 (Ø 70 mm, Carbide)
 2 608 661 689 (Ø 86 mm, Diamond)
 2 608 661 642 (Ø 86 mm, Carbide)



2 608 661 636 (Ø 85 mm, BIM)
 2 608 661 758 (Ø 85 mm, BIM-Tin)
 2 608 661 643 (Ø 87 mm, HCS)
 2 608 661 633 (Ø 95,5 mm, BIM)
 2 608 661 693 (Ø 95,5 mm, BIM)



2 608 661 757
 (87 x 71,4 mm, Carbide)



2 608 661 648
 (78 x 73 mm, Carbide)



2 608 000 493 (85,6 x 90,8 mm)



2 608 662 346 (64,5 mm)

STARLOCK PLUS

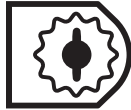


2 608 662 555 (32,5 mm, Carbide)
 2 608 662 558 (32,5 mm, BIM)
 2 608 662 561 (32,5 mm, HCS)



2 608 662 564 (64,7 mm, BIM)

STARLOCK MAX



2 608 662 567 (32,5 mm, Carbide)
 2 608 662 568 (32,5 mm, HCS)
 2 608 662 571 (32,5 mm, BIM)
 2 608 662 574 (52 mm, BIM)



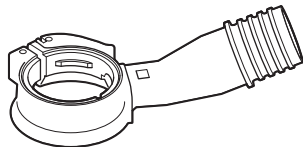
2 608 662 577 (68,5 mm, Carbide)
 2 608 662 578 (68,4 mm, Carbide)
 2 608 662 579 (66,1 mm, HCS)
 2 608 662 580 (68,3 mm, Diamond)
 2 608 662 581 (68,4 mm, Diamond)
 2 608 662 582 (68,4 mm, Carbide)



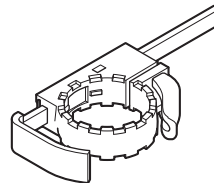
2 608 662 575 (10,7 mm, HCS)



2 608 662 583 (29,2 mm, HCS)




2 608 000 636



2 608 000 590

CE		I
de	EU-Konformitätserklärung Multi-Cutter 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 Multi-Cutter 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 Multi-Cutter 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 Multi-Cutter N° 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 CE Multi-Cutter 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 Multi-Cutter 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 Multi-Cutter 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 Multi-Cutter 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 Multi-Cutter 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 Multi-Cutter 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 Multi-Cutter 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 kesici 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: *

II		CE
pl	Deklaracja zgodności UE Narzędzie wielofunkcyjne Multi-Cutter 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 o shodě Multi Cutter Objednací číslo	Prohlašujeme na výhradní zodpovědnost, že uvedený výrobek splňuje všechna příslušná ustanovení níže uvedených směrnic a nařízení a je v souladu s následujícími normami: Technické podklady u: *
sk	EU vyhlásenie o zhode Multifunkčné náradie Multi-Cutter Vecné číslo	Vyhlasujeme na výhradnú zodpovednosť, že uvedený výrobok spĺňa všetky príslušné ustanovenia nižšie uvedených smerníc a nariadení a je v súlade s nasledujúcimi normami: Technické podklady má spoločnosť: *
hu	EU konformitási nyilatkozat Multi-Cutter Cikkszám	Egyedüli felelősséggel kijelentjük, hogy a megnevezett termék 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 Многофункциональный резак 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 різак Товарний номер	Мизаявляємо під нашу одноособову відповідальність, що названі вироби відповідають усім чинним положенням нищезначених директив і розпоряджень, а також нищезначеним нормам. Технічна документація зберігається у: *
kk	ЕО сәйкестік мағлұмдамасы Мультикескіш 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 Multi-Cutter 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 Multi-Cutter Каталожен 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 Multi-Cutter 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 Multi-Cutter Broj predmeta	Na sopstvenu odgovornost izjavljujemo, da navedeni proizvodi odgovaraju svim dotičnim odredbama naknadno navedenih smernica u uredba i da su u skladu sa sledećim standardima. Tehnička dokumentacija kod: *
sl	Izjava o skladnosti ES Večnamenski rezalnik 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 skladnosti Univerzalni rezač Kataloški br.	Pod punom odgovornošću izjavljujemo da navedeni proizvodi odgovaraju svim relevantnim odredbama direktiva i propisima navedenima u nastavku i da su skladni sa sljedećim normama. Tehnička dokumentacija se može dobiti kod: *

CE		III	
et	EL-vastavusdeklaratsioon Multifunktsionaalne lõikur	ootenumber	Kinnitame ainuvastutajatena, et nimetatud tooted vastavad järgnevalt loetletud direktiivide ja määruste kõikidele asjaomastele nõuetele ja on kooskõlas järgmiste normidega. Tehnilised dokumendid saadaval: *
lv	Deklarācija par atbilstību EK standartiem Vibrozāģis	Izstrādājuma numurs	Mēs ar pilnu atbildību paziņojam, ka šeit aplūkoti izstrādājumi atbilst visiem tālāk minētajās direktīvās un rīkojumos ietvertajām saistošajām nostādņēm, kā arī sekojošiem standartiem. Tehniskā dokumentācija no: *
lt	ES atitikties deklaracija Daugiafunkcinis įrankis „Multi-Cutter“	Gaminio numeris	Atsakingai pareiškiame, kad išvardyti gaminiai atitinka visus privalomus žemiau nurodytų direktyvų ir reglamentų reikalavimus ir šiuos standartus. Techninė dokumentacija saugoma: *
GOP 18V-28	3 601 HB6 ...	2006/42/EC 2014/30/EU 2011/65/EU	EN 60745-1:2009+A11:2010 EN 60745-2-4:2009+A11:2011 EN 55014-1:2006+A1:2009+A2:2011 EN 55014-2:1997+A1:2001+A2:2008 EN 50581:2012
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		Henk Becker Executive Vice President Engineering	Helmut Heinzelmann Head of Product Certification
		 	
		Robert Bosch Power Tools GmbH, 70538 Stuttgart, GERMANY Stuttgart, 01.01.2017	