



BOSCH

Professional HEAVY DUTY GNA 18V-16 E

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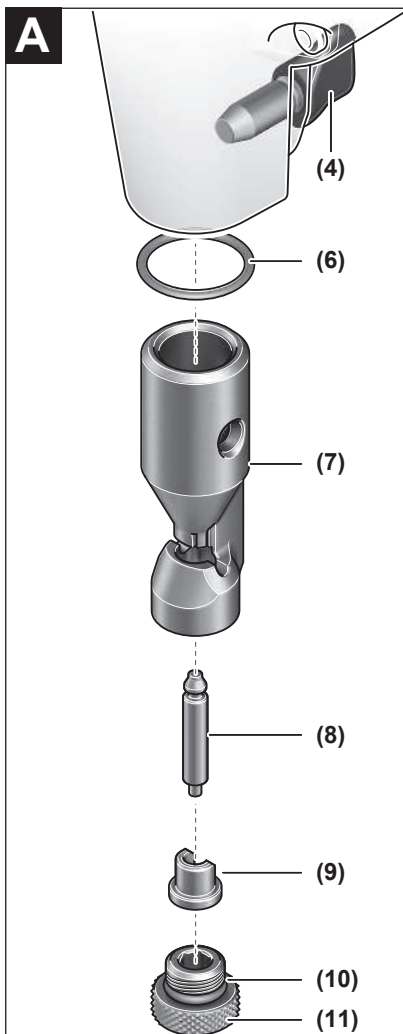
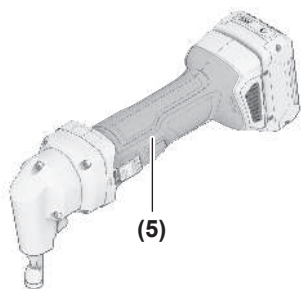
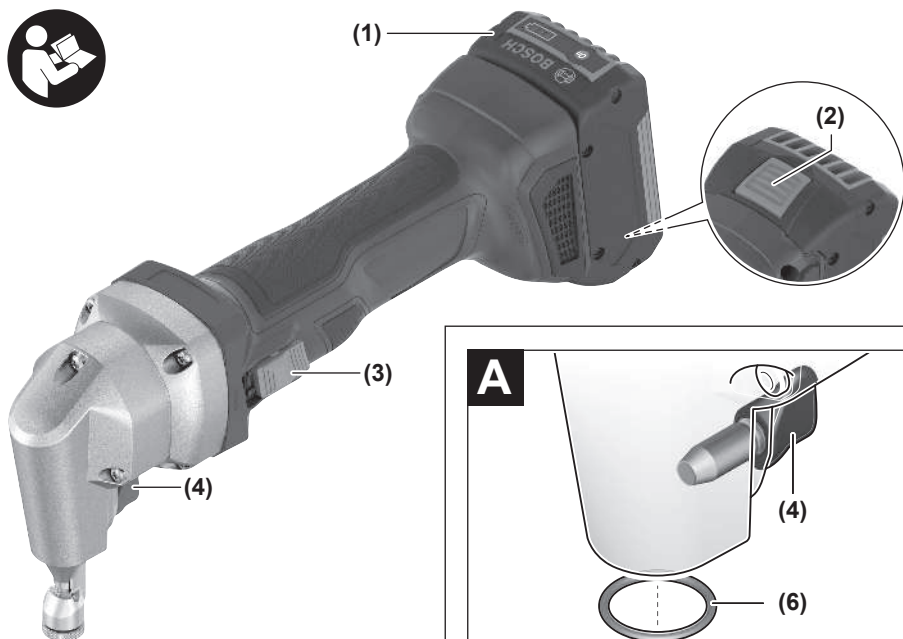
1 609 92A 7AX



en Original instructions







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

- ▶ **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase 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.

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.
- ▶ **Do not use a battery pack or tool that is damaged or modified.** Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.
- ▶ **Do not expose a battery pack or tool to fire or excessive temperature.** Exposure to fire or temperature above 130°C may cause explosion.
- ▶ **Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions.** Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

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.
- ▶ **Never service damaged battery packs.** Service of battery packs should only be performed by the manufacturer or authorized service providers.

Safety instructions for nibblers

- ▶ **Hold the 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.
- ▶ **This power tool is not suitable for bench-mounted use.** It must not be clamped into a vice or fastened to a workbench, for example.
- ▶ **Wear protective gloves during work.** Sharp burrs develop on the cut sheets; these can cause injury.
- ▶ **In case of damage and improper use of the battery, vapours may be emitted. The battery can set alight or explode.** Ensure the area is well ventilated and seek medical attention should you experience any adverse effects. The vapours may irritate the respiratory system.
- ▶ **Do not modify or open the battery.** There is a risk of short-circuiting.
- ▶ **The battery can be damaged by pointed objects such as nails or screwdrivers or by force applied externally.**

An internal short circuit may occur, causing the battery to burn, smoke, explode or overheat.

- ▶ **Only use the battery in the manufacturer's products.** This is the only way in which you can protect the battery against dangerous overload.



Protect the rechargeable battery against heat, e.g. including prolonged sun exposure, fire, water, and moisture. There is a risk of explosion and short circuit.

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 cutting sheet metal without deforming the material and is suitable for straight cuts, cut-outs and narrow curves.

Product features

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

- (1) Battery^{a)}
- (2) Battery release button^{a)}
- (3) On/off switch
- (4) Die holder screw
- (5) Handle (insulated gripping surface)
- (6) O-ring
- (7) Die holder
- (8) Punch
- (9) Die
- (10) Rubber ring for knurled screw
- (11) Knurled screw for die

a) **This accessory is not part of the standard scope of delivery.**

Technical data

Nibbler		GNA 18V-16 E
Article number		3 601 E29 6..
Rated voltage	V=	18
No-load stroke rate n_0	min^{-1}	1400 ^{A)}
Max. steel sheet cutting capacity ^{B)}	mm	1.6
Cutting width	mm	5
Smallest curve radius	mm	40

Nibbler		GNA 18V-16 E
Weight ^{C)}	kg	1.7
Recommended ambient temperature during charging	°C	0 to +35
Permitted ambient temperature during operation ^{D)} and during storage	°C	-20 to +50
Compatible rechargeable batteries		GBA18V... GBA 18V... ProCORE18V... EXPERT18V... EXBA18V... CORE18V...
Recommended battery chargers		GAL18... GAL 18... GAL 36... GAL12V/18... GAL 12V/18... GAX 18... EXAL18...

- A) Measured at 20–25 °C with rechargeable battery **GBA 18V 4.0Ah** and depending on the battery's state of charge as well as the power tool's operating temperature
- B) with reference to steel sheet of up to 400 N/mm²
- C) Without rechargeable battery (you can find the battery weight at www.bosch-professional.com)
- D) Limited performance at temperatures < 0 °C
- Values can vary depending on the product, scope of application and environmental conditions. To find out more, visit www.bosch-professional.com/wac.

Noise/Vibration Information

Noise emission values determined according to **EN 62841-2-8**.
Typically, the A-weighted noise levels of the power tool are: Sound pressure level **90 dB(A)**; sound power level **98 dB(A)**. Uncertainty K = **3 dB**.

Wear hearing protection!

Vibration values a_h (continuous vibrations), p_f (repeated shock vibrations) and uncertainty K determined according to **EN 62841-2-8**:

$a_h = 5.4 \text{ m/s}^2$ ($K = 1.5 \text{ m/s}^2$), $p_f = 321.9 \text{ m/s}^2$ ($K = 52.3 \text{ m/s}^2$)

The vibration level and noise emission value given in these instructions have been measured in accordance with a standardised measuring procedure and can be used to compare power tools. They can 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 accessories or is poorly maintained, the vibration level and noise emission value can differ. This can 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 can 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 accessories, keeping their hands warm, and organising workflows correctly.

Rechargeable battery

Bosch sells some cordless power tools without a rechargeable battery. You can tell whether a rechargeable battery is included with the power tool by looking at the packaging.

Charging the battery

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

Note: Lithium-ion rechargeable batteries are supplied partially charged according to international transport regulations. To ensure full rechargeable battery capacity, fully charge the rechargeable battery before using your tool for the first time.

Inserting the Battery

Push the charged battery into the battery holder until it clicks into place.

Removing the Battery

To remove the rechargeable battery, press the battery release button and pull the battery out. **Do not use force to do this.**
The rechargeable battery has two locking levels to prevent the battery from falling out if the battery release button is pressed unintentionally. The rechargeable battery is held in place by a spring when fitted in the power tool.

Battery charge indicator

The green LEDs on the battery charge indicator indicate the state of charge of the battery. For safety reasons, it is only possible to check the state of charge when the power tool is not in operation.
Press the button for the battery charge indicator  or  to show the state of charge. This is also possible when the battery is removed.
If no LED lights up after pressing the button for the battery charge indicator, then the battery is defective and must be replaced.

Rechargeable battery type GBA 18V... | GBA18V...



LED	Capacity
3× continuous green light	60–100 %
2× continuous green light	30–60 %

LED	Capacity
1 × continuous green light	5–30 %
1 × flashing green light	0–5 %

Battery model ProCORE18V... | EXPERT18V... | EXBA18V... | CORE18V...



LED	Capacity
5 × continuous green light	80–100 %
4 × continuous green light	60–80 %
3 × continuous green light	40–60 %
2 × continuous green light	20–40 %
1 × continuous green light	5–20 %
1 × flashing green light	0–5 %

Battery defect risk detection

EXPERT18V... | EXBA18V...

In addition to the state of charge of the rechargeable battery, the LEDs on the battery charge indicator can also indicate the risk of a battery defect.

To activate the function, press and hold the button for the battery charge indicator  for 3 seconds. The analysis of the battery is signalled by a moving light on the battery charge indicator. The result of is shown on the battery charge indicator.

 **1 LED:** The rechargeable battery has a high defect risk. Performance and runtime may already be reduced. Replacing the rechargeable battery is recommended.

 **5 LEDs:** The rechargeable battery is in good condition and has a low defect risk.

Please note: The rechargeable battery defect risk assessment works in a binary manner and offers a simplified status assessment, indicating either that the rechargeable battery is in good condition or that the rechargeable battery has an increased defect risk. A percentage of the battery status is not shown.

Recommendations for Optimal Handling of the Battery

Protect the battery against moisture and water.

Only store the battery within a temperature range of –20 to 50 °C. Do not leave the battery in your car in the summer, for example.

Occasionally clean the ventilation slots on the battery using a soft brush that is clean and dry.

A significantly reduced operating time after charging indicates that the battery has deteriorated and must be replaced. Follow the instructions on correct disposal.

Operation

Starting Operation

Switching On and Off

To **switch on** the power tool, slide the on/off switch **(3)** forwards so that **I** appears on the switch.

To **switch off** the power tool, slide the on/off switch **(3)** backwards so that **0** appears on the switch.

Restart protection

The restart protection feature prevents the power tool from uncontrolled starting after the power supply to it has been interrupted.

To restart the tool, set the on/off switch **(3)** to the off position and then switch the power tool on again.

Soft start

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

Changing the cutting direction

To change the cutting direction, the die holder **(7)** can be turned to three positions, each offset by 90°. Cutting towards the rear (towards the housing of the machine) is not possible.

To turn the die holder **(7)**, loosen the die holder screw **(4)** until the die holder can be turned. Turn it 90° to the right or the left in relation to the longitudinal axle of the power tool. Make sure that the screw **(4)** engages in the drill hole of the die holder **(7)**. Tighten the screw.

Working Advice

- **Before carrying out any work on the power tool (e.g. maintenance, tool change etc.), remove the battery from the power tool.** There is risk of injury from unintentionally pressing the on/off switch.
- **This power tool is not suitable for bench-mounted use.** It must not be clamped into a vice or fastened to a workbench, for example.
- **Wear protective gloves during work.** Sharp burrs develop on the cut sheets; these can cause injury.
- **Exercise caution when handling the cutting chips.** The chips have sharp tips that can cause injuries.

Apply the power tool to the workpiece only when switched on. Always hold the power tool vertical to the surface of the steel sheet and do not tilt it.

The cut is made as the punch moves downwards. Guide the power tool evenly, pushing it gently in the cutting direction. Applying too much pressure to the power tool will significantly reduce the service life of application tools and can damage the power tool.

The power tool operates more quietly when it is raised slightly during cutting. If the punch jams during cutting, switch the power tool off, lubricate the punch and release the sheet. Do not use force to do this, as this will damage the punch and the die.

Maximum steel sheet cutting capacity

The maximum steel sheet cutting capacity $d_{\max}$ depends on the strength properties of the material to be cut.

The power tool allows for cutting of metal sheet to the following thicknesses:

Material	max. strength (N/mm ²)	$d_{\max}$ (mm)
Steel	400	1.6
	600	1.0
	800	0.7
Aluminium	200	2.0

Lubricating/cooling the punch

To extend the service life of the punch (8), a lubricating agent with good cooling properties (e.g. cutting oil) should be used.

Apply a line of lubricant to the top side of the metal sheet along the intended cutting line.

Cutting along a cutting mark or with a guide

Straight cuts are carried out easier when the power tool is guided alongside a rule.

Contours can be cut by guiding the power tool along a template.

For inside cuts, a hole with a diameter of 22 mm must be pre-drilled.

Temperature Dependent Overload Protection

In normal conditions of use, the power tool cannot be overloaded. If the power tool is overloaded or the battery temperature is outside the permitted range, the stroke rate is reduced or the power tool shuts down. When the stroke rate is reduced, the power tool will not run at the full stroke rate again until the battery temperature is back within the permitted range. In the event of automatic shutdown, switch off the power tool and allow the battery to cool down before switching the tool on again.

Maintenance and Service

Maintenance and Cleaning

- ▶ **Before carrying out any work on the power tool (e.g. maintenance, tool change etc.), remove the battery from the power tool.** There is risk of injury from unintentionally pressing the on/off switch.
- ▶ **To ensure safe and efficient operation, always keep the power tool and the ventilation slots clean.**

Clean and lubricate the punch (8) and die (9) every three operating hours.

Change the punch and die in good time when worn. Only sharp tools produce a good cutting quality and make the power tool last longer.

The punch (8) and the die (9) may not be resharpened.

Changing the die

Unscrew the knurled screw (11) from the die holder (7). Take out the die (9).

If necessary, clean the die holder (7). Put a new, well greased die (9) into the die holder. Pay attention to the alignment of the flat side.

Screw back on the knurled screw (11) with the rubber ring (10) attached. Use a hex key to tighten the screw against the resistance of the rubber ring (3–4 Nm).

Changing the punch

Loosen the die holder screw (4) and pull the die holder (7) completely out of the housing.

Slide the punch (8) sideways out of the mounting and pull it out in a downward motion.

Put a new, well greased punch (8) in the groove of the mounting and centre it.

Push the die holder (7) carefully over the punch and back into the housing. Turn the die holder into one of the three possible positions depending on the cutting direction required. Firmly tighten the die holder screw (4).

After-Sales Service and Application Service

Australia

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Broadwater Park
North Orbital Road
Uxbridge
UB9 5HJ

India

Phone: (044) 64561816

Israel

Tel. 03-9630050

Korea

Tel.: 080-955-0909 (Hotline)

Malaysia

Tel.: (03) 79663194

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

Disposal

Power tools, 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!

Only for EU countries and United Kingdom:

Electrical and electronic equipment or used batteries that are no longer suitable for use must be collected separately and disposed of in an environmentally friendly manner. Use the designated collection systems. Incorrect disposal may cause harmful effects on the environment and human health, due to the potential presence of hazardous substances.

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