

# **Robert Bosch Power Tools GmbH**

70538 Stuttgart

GERMANY

www.bosch-pt.com

1609 92A 2FD (2015.05) PS / 13



# **GBH 2000** Professional

RE|DRE



cn 正本使用说明书

















# 中文

# 电动工具通用安全警告

**⚠** 警告! **阅读所有警告和所有说明!** 不遵照以下警告和说明会导致电击、着火和/或严重伤害。

#### 保存所有警告和说明书以备查阅。

在所有下列的警告中术语"电动工具"指市电驱动 (有线)电动工具或电池驱动 (无线)电动工具。

#### 工作场地的安全

- ▶ 保持工作场地清洁和明亮。 混乱和黑暗的场地会引发事故。
- ➤ 不要在易爆环境,如有易燃液体、气体或粉尘的环境 下操作电动工具。 电动工具产生的火花会点燃粉尘或 气体。
- ▶ 让儿童和旁观者离开后操作电动工具。 注意力不集中 会使操作者失去对工具的控制。

#### 电气安全

- ▶ 电动工具插头必须与插座相配。绝不能以任何方式改 装插头。需接地的电动工具不能使用任何转换插头。 未经改装的插头和相配的插座将减少电击危险。
- ▶ 避免人体接触接地表面,如管道、散热片和冰箱。如果你身体接地会增加电击危险。
- ▶ 不得将电动工具暴露在雨中或潮湿环境中。 水进入电动工具将增加电击危险。
- ► 不得滥用电线。绝不能用电线搬运、拉动电动工具或 拔出其插头。使电线远离热源、油、锐边或运动部 件。受损或缠绕的软线会增加电击危险。
- ▶ 当在户外使用电动工具时,使用适合户外使用的外接 软线。适合户外使用的软线将减少电击危险。
- ▶ 如果在潮湿环境下操作电动工具是不可避免的,应使用剩余电流动作保护器 (RCD)。 使用 RCD 可减小电击危险。

#### 人身安全

- ▶ 保持警觉,当操作电动工具时关注所从事的操作并保持清醒。当你感到疲倦,或在有药物、酒精或治疗反应时,不要操作电动工具。在操作电动工具时瞬间的疏忽会导致严重人身伤害。
- ▶ 使用个人防护装置。始终佩戴护目镜。安全装置,诸如适当条件下使用防尘面具、防滑安全鞋、安全帽、听力防护等装置能减少人身伤害。
- ▶ 防止意外起动。确保开关在连接电源和 / 或电池盒、 拿起或搬运工具时处于关断位置。 手指放在已接通电 源的开关上或开关处于接通时插入插头可能会导致危 险。

- ▶ 在电动工具接通之前, 章掉所有调节钥匙或扳手。 遗留在电动工具旋转零件上的扳手或钥匙会导致人身伤害。
- ▶ 手不要伸展得太长。时刻注意立足点和身体平衡。 这样在意外情况下能很好地控制电动工具。
- ▶ 着装适当。不要穿宽松衣服或佩戴饰品。让衣服、手套和头发远离运动部件。 宽松衣服、佩饰或长发可能会卷入运动部件中。
- ▶ 如果提供了与排屑、集尘设备连接用的装置,要确保 他们连接完好且使用得当。 使用这些装置可减少尘屑 引起的危险。

#### 电动工具使用和注意事项

- ▶ 不要滥用电动工具,根据用途使用适当的电动工具。 选用适当设计的电动工具会使你工作更有效、更安全。
- ▶ 如果开关不能接通或关断工具电源,则不能使用该电动工具。不能用开关来控制的电动工具是危险的且必须进行修理。
- ▶ 在进行任何调节、更换附件或贮存电动工具之前,必须从电源上拔掉插头和/或使电池盒与工具脱开。 这种防护性措施将减少工具意外起动的危险。
- ▶ 将闲置不用的电动工具贮存在儿童所及范围之外,并 且不要让不熟悉电动工具或对这些说明不了解的人操 作电动工具。电动工具在未经培训的用户手中是危险的。
- ▶ 保养电动工具。检查运动件是否调整到位或卡住,检查零件破损情况和影响电动工具运行的其他状况。如有损坏,电动工具应在使用前修理好。许多事故由维护不良的电动工具引发。
- ▶ 保持切削刀具锋利和清洁。保养良好的有锋利切削刃的刀具不易卡住而且容易控制。
- ▶ 按照使用说明书,考虑作业条件和进行的作业来使用电动工具、附件和工具的刀头等。将电动工具用于那些与其用途不符的操作可能会导致危险。

#### 维修

▶ 将你的电动工具送交专业维修人员,使用同样的备件 进行修理。这样将确保所维修的电动工具的安全性。

# 锤类工具的安全警告

- **▶ 戴好耳罩。** 暴露在噪声中会引起听力损伤。
- ▶ 使用随工具提供的辅助手柄。 操作失手会引起人身伤害.
- ▶ 在切削附件可能触及暗线或其自身软线之处进行操作时,要通过绝缘握持面来握持工具。切削附件碰到带电导线会使工具外露的金属零件带电从而使操作者受到电击。

Bosch Power Tools 1 609 92A 2FD | (21.12.15)















# 进一步的安全规章和工作指示

- ▶ 注意电源的电压! 电源的电压必须和电动工具铭牌上 标示的电压一致。
- ▶ 使用合适的侦测器,以便找出隐藏著的电源线的位 置。或者向当地的供电单位索取相关资料。 钻穿电线 会造成火灾並遭受电击。损坏瓦斯管会引起爆炸。 如 果水管被刺穿了会导致财物损失。
- ▶ 拧紧辅助手柄。工作时要使用双手握紧电动工具并且 要确保立足稳固 使用双手才能够稳定地操作电动工 且
- ▶ 工作时必须用双手握紧电动工具,並且要确保立足稳 **固。** 使用双手比较能够握稳电动工具。
- ▶ **固定好工件。** 使用固定装置或老虎钳固定工件,会比 用手持握工件更牢固。
- ▶ 在木材, 金属, 陶材和塑料上进行无震动功能的正常 钻,以及拧转螺丝时,必须使用无 SDS-plus 的工具 (例如带圆柱柄的钻头)。上述工具必须配合快速夹 头或齿环夹头一起使用。
- ▶ 此时夹头已经自动锁定。但是仍要抽拉夹头检查其是 否已经正确套紧。
- ▶ 安装 SDS- plus (四坑系统) 工具: 抽拉工具以确定它 是否正确锁紧了。
- ▶ **必须马上更换损坏的防尘盖。** 防尘盖可以防止工作时 的钻孔废尘侵入夹头中。安装 工具时要小心, 勿损 坏防尘盖。
- ▶ 含铅的颜料以及某些木材、矿物和金属的加工废尘有 害健康、可能造成过敏、让操作者感染 呼吸道疾病 和/或罹犯癌症。只有经过专业训练的人员才能够 加工含石棉的物料。
  - 尽可能使用适合物料的吸尘装置。
  - 工作场所要保持空气流通。
  - 最好佩戴 P2 滤网等级的口罩。

请留心并遵守贵国和加工物料有关的法规。

- **▶ 避免让工作场所堆积过多的尘垢。** 尘埃容易被点燃。
- ▶ 如果安装在机器上的工具被夹住了,要关闭电动工 具。 拧松安装在机器上的工具。
- ▶ 开动电动工具之前,先检查安装在机器上的工具是否 能够自由旋转。 开动机器时如果安装在机器上的工具 被卡住了, 会产生高的反作用扭力。
- ▶ 等待电动工具完全静止后才能够放下机器。 机器上的 工具可能在工作中被夹住,而令您无法控制电动工

# 代表符号

以下的符号可以帮助您正确地使用本机器。 请详细阅读 各符号及它们的代表意思。 正确了解各符号所代表的意 思,可以帮助您更有把握更安全地操作本机器。



GBH 2000 RE/GBH 2000 DRE: 打上灰色记号的部位: 手柄 (绝缘的握持位置)

воѕсн	•
X XXX	XXX XXX
	1

物品代码



阅读所有的安全规章和说明



在电动工具上进行任何修护工作之 前必须从电源插座上拔出插头



佩戴防护手套



请佩戴耳罩



请佩戴护目镜



移动方向



反应方向



下一个处理步骤



正常钻无震动功能



锤钻



凿击



螺丝



正 / 逆转功能



Vario-Lock



开动



关闭

1 609 92A 2FD | (21.12.15) **Bosch Power Tools** 























# 4|中文 符号 锁定起停开关 8 解除起停开关的锁定 小转速 / 冲击次数 大转速 / 冲击次数 吸尘装备 工具夹头 额定输入功率 Е 单一冲击强度符合 EPTA-Procedure 05/2009 的规定 无负载转速 $n_0$ 最大钻孔直径 ? max. 混凝土 B 钢 木材

符号	含义
A	泥墙
istst T	空心钻头
i	重量符合 EPTA-Procedure 01:2014
	绝缘等级

# 供货范围

锤钻,辅助手柄和深度尺。

安装在机器上的工具以及图表或说明上提到的附件,並 不包含在基本供货范围中。

在本公司的附件清单中标列了完整的附件。

# 按照规定使用机器

本电动工具可以在混凝土、砖墙、和石材上进行震动 钻。 特别是在木材、金属、陶材和塑料上 进行无震动 功能的正常钻。您也可以使用本机器拧转螺丝。 GBH 2000 DRE: 另外本电动工具也适合从事简易的凿击 工作。

# 技术数据

本产品的技术数据列在本使用说明书 6页的表格中。 本说明书提供的参数是以 230 V 为依据, 於低电压地 区,此数据有可能不同。

# 安装和操作

以下表格显示了在安装和使用电动工具时的执行目的。表格中的图形显示了与执行目的相关的提示。因为用途不同 所以会有不同的提示组合。请留心安全规章。

执行目的		图片	请注意	页数
安装 SDS- plus (四坑系统)工具		1	Ø=≥ SDS-plus	7
拆卸 SDS- plus (四坑系统)工 具		2	DESCRIPTION SDS-plus	7
选择操作功能和转向	Î+ÎT+T ↑	3		8 - 9
改变凿头的位置(Vario-Lock)	<del>-</del>	4	(B) SDS-plus	9























				中文 5
执行目的		图片	请注意	页数
转动辅助手柄		5		9
设定钻深 🗙	x	6		10
安装吸尘装置 (Saugfix)		7		10
开动 / 关闭和设定转速	I/o	8		11
锁定起停开关		9		11
解除起停开关的锁定		10		11
选择附件		-		12

# 维修和清洁

▶ 电动工具和通风间隙都必须保持清洁,这样才能够提 高工作品质和安全性。

如果必须更换连接线,务必把这项工作交给博世或者经 授权的博世电动工具顾客服务执行, 以避免危害机器的 安全性能。

#### 顾客服务处和顾客咨询中心

本公司顾客服务处负责回答有关本公司产品的修理,维 护和备件的问题。以下的网页中有爆炸图和备件的资料:

#### www.bosch-pt.com

博世顾客咨询团队非常乐意为您解答有关本公司产品及 附件的问题。

如需查询和订购备件,请务必提供产品型号铭牌上的10 位数货号。

有关保证,维修或更换零件事宜,请向合格的经销商查 询。

#### 中国大陆

博世电动工具 (中国) 有限公司 中国 浙江省 杭州市 滨江区滨康路 567 号 邮政编码: 310052 免费服务热线: 4008268484 传真: (0571) 87774502

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#### 制造商地址:

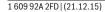
Robert Bosch Power Tools GmbH 罗伯特 ・ 博世电动工具有限公司 70538 Stuttgart / GERMANY 70538 斯图加特 / 德国

#### 处理废弃物

必须以符合环保的方式,回收再利用损坏的机器、附件 和废弃的包装材料。

不可以把电动工具丢入家庭垃圾中!

#### 保留修改权。





















# 6|

		GBH 2000 RE	GBH 2000 DRE
BOSCH (B)  X XXXX XXXX XXXX		00447510	0.044.054.4
		3 611 B5A 3	
$P_1$	W	600	600
E	J	1.7	1.7
$n_0$	min <sup>-1</sup>	2030	2030
Ø max.			
	mm	20	20
<b>16</b>	mm	13	13
	mm	30	30
	mm	68	68
<u>i</u>	kg	2.3	2.3
		II	II











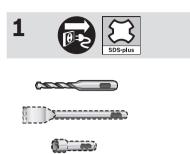


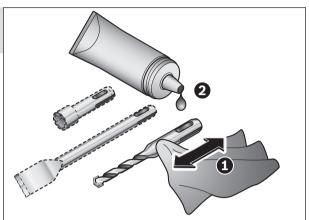


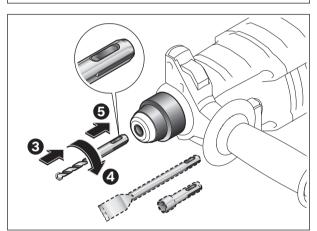


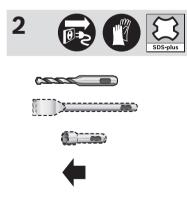


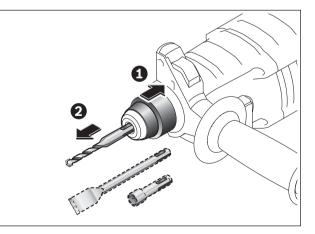














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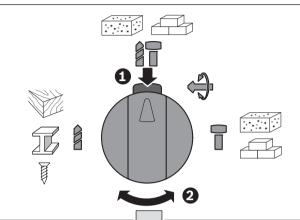




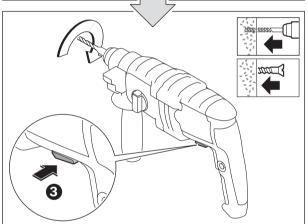




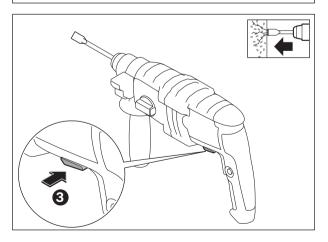
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Bosch Power Tools













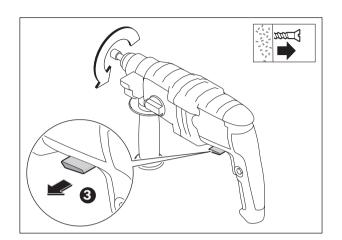






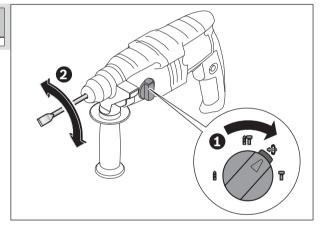




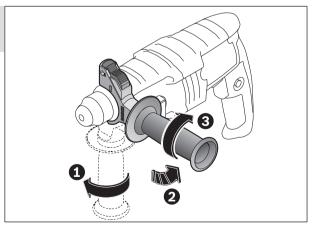
















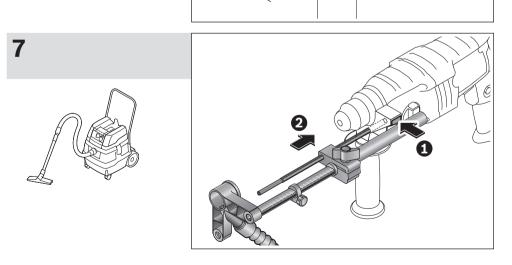












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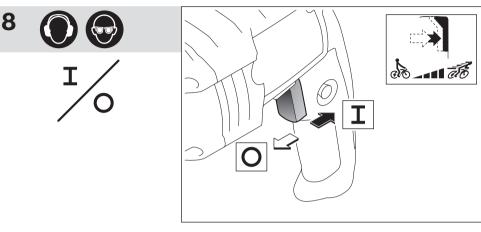




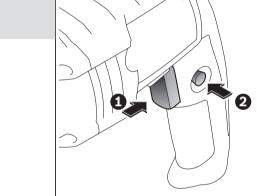




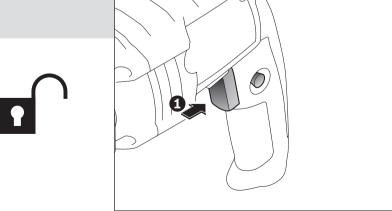


















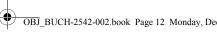










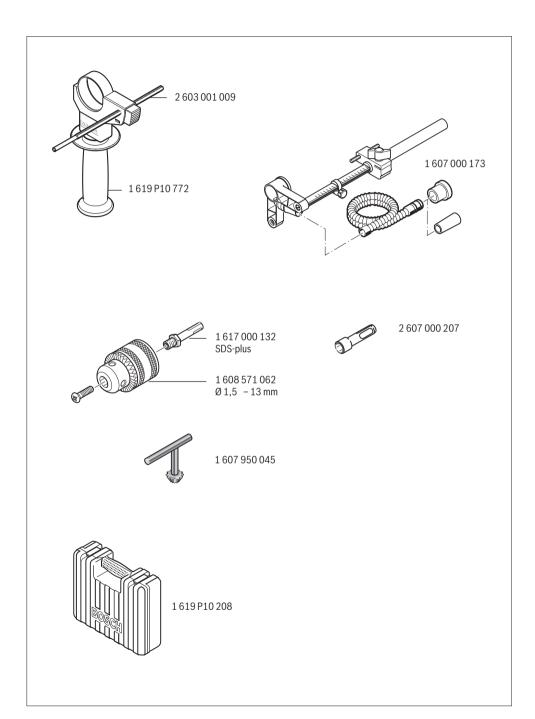






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# 以下各页勿打印!

# Following pages are NOT for printing!



Bosch Power Tools

160992A2FD (21.12.15)















# **English**

# **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 mainsoperated (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 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.

#### 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.

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- ▶ Wear ear protectors. Exposure to noise can cause hearing loss.
- ► Use auxiliary handle(s), if supplied with the tool. Loss of control can cause personal injury.
- ► 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.

# **Additional Safety and Working In**structions

- ▶ Observe correct mains voltage! The voltage of the power source must agree with the voltage specified on the nameplate of the machine. Power tools marked with 230 V can also be operated with 220 V.
- ▶ 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.
- ▶ Firmly tighten the auxiliary handle, hold the machine firmly with both hands while working and keep proper footing and balance at all times. The machine is securely guided with both hands.
- ▶ 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.
- ► For drilling without impact in wood, metal, ceramic and plastic as well as for screwdriving, tools without SDS-plus are used (e.g., drill bits with cylindrical shank). For these tools, a keyless chuck or a key type drill chuck are required.
- ▶ The guick change chuck is automatically locked. Check the locking effect by pulling the quick change chuck.
- ► Inserting SDS-plus Drilling Tools: Check the latching by pulling the tool.
- ► Replace a damaged dust protection cap immediately. The dust protection cap largely prevents the penetration of drilling dust into the tool holder during operation. When inserting the tool, pay attention that the dust protection cap is not damaged.
- ▶ Dust from materials such as lead-containing coatings, some wood types, minerals and metal can be harmful to one's health and cause allergic reactions, lead to respiratory infections and/or cancer. 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.
- ▶ If the application tool should become blocked, switch the machine off. Loosen the application tool.
- ▶ Before switching on the power tool, make sure that the application tool moves freely. When switching on with a blocked drilling tool, high torque reaction can occur.
- ▶ Always wait until the machine has come to a complete stop before placing it down. The tool insert can jam and lead to loss of control over the power tool.

# **Symbols**

The following symbols are important for reading and understanding the operating instructions. Please take note of the symbols and their meaning. The correct interpretation of the symbols will help you to use the machine in a better and safer manner.

Symbol	Meaning
	GBH 2000 RE/GBH 2000 DRE:
	Rotary Hammer Grey-marked area: Handle (insulated gripping surface)
BOSCH STATE OF THE PROPERTY OF	Article number
	Read all safety warnings and all instructions
<b>9</b> =2	Before any work on the machine itself, pull the mains plug from the socket outlet
	Wear protective gloves
	Always wear ear protection.
	Wear safety glasses/goggles
1	Movement direction
$\bigcirc$	Reaction direction
	Next step of action























#### 16 | English

- 1 0 -	
Symbol	Meaning
	Drilling without impact
ÎT	Hammer Drilling
T	Chiselling
	Screwdriving
*	Right/left rotation
<b>-</b>	Vario-Lock
I	Switching On
0	Switching Off
	On/Off switch lock-on
	Releasing the On/Off switch
er o	Low speed/impact rate
To the second	High speed/impact rate
	Extraction
SDS-plus	Tool holder
P <sub>1</sub>	Rated power input
E	Impact energy per stroke according to EPTA-Procedure 05/2009

Symbol	Meaning
$n_0$	No-load speed
Ø max.	Drilling diameter, max.
	Concrete
I	Steel
	Wood
4	Brickwork
T total	Core bit
i	Weight according to EPTA-Procedure
	01:2014
	Protection class

# **Delivery Scope**

Rotary hammer, auxiliary handle and depth stop. Application tools and other accessories shown or described are not part of the standard delivery scope.

A complete overview of accessories can be found in our accessories program.

#### **Intended Use**

The machine is intended for hammer drilling in concrete, bricks and masonry. It is also suitable for drilling without impact in wood, metal, ceramics and plastic, as well as for screwdriving.

GBH 2000 DRE: The machine is also suitable for light chiselling work.

#### **Technical Data**

The technical data of the machine are listed in the table on page 6.

The values given are valid for a nominal voltage [U] of 230 V. For different voltages and models for specific countries, these values can vary.

# **Mounting and Operation**

The following table indicates the action objectives for mounting and operation of the power tool. The instructions for each action objective are shown aside. Depending on the type of application, various instruction combinations are required. Observe the safety instructions.

Action	Figure	Please observe	Page
Inserting SDS-plus Drilling Tools	1	BDS-plus	7























			E	nglish   <b>17</b>
Action		Figure	Please observe	Page
Removing SDS-plus Drilling Tools		2	B SDS-plus	7
Selecting the operating mode and rotation direction	Ĭ÷ĬT÷T **	3		8-9
Changing the chisel position (Vario-Lock)	<b>←</b> )·	4	D-S DS-plus	9
Changing the position of the auxiliary handle		5		9
Adjusting the drilling depth <b>X</b>	X	6		10
Mounting the extraction system (Saugfix)		7		10
Switching on and off and setting the speed	I/O A	8		11
Locking-on the On/Off switch		9		11
Releasing the On/Off switch		10		11
Selecting Accessories		-		12

# **Maintenance and Cleaning**

► For safe and proper working, always keep the machine and ventilation slots clean.

If the replacement of the supply cord is necessary, this has to be done by Bosch or an authorized Bosch service agent in order to avoid a safety hazard.

# **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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### Disposal

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

Do not dispose of power tools into household waste!

Subject to change without notice.

















**Bosch Power Tools** 160992A2FD (21.12.15)