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TCO 2000 Professional

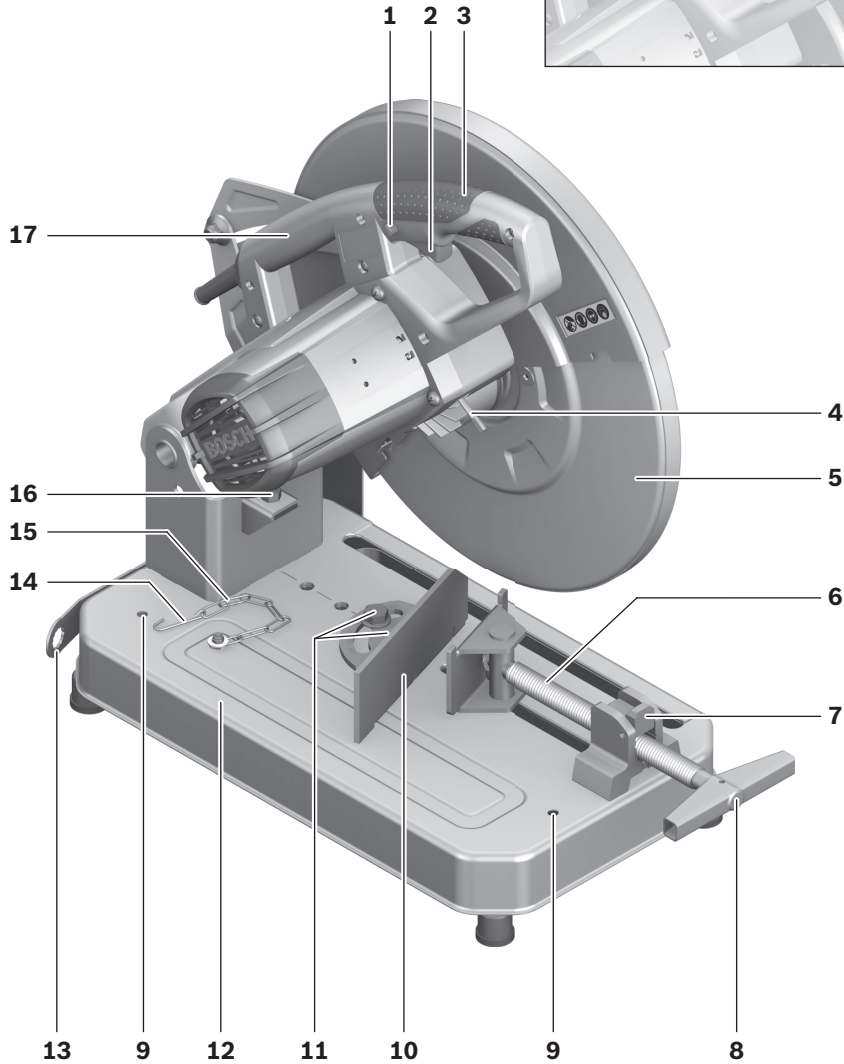
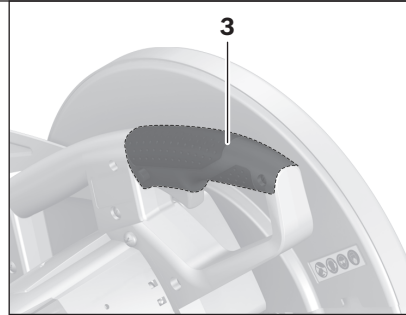
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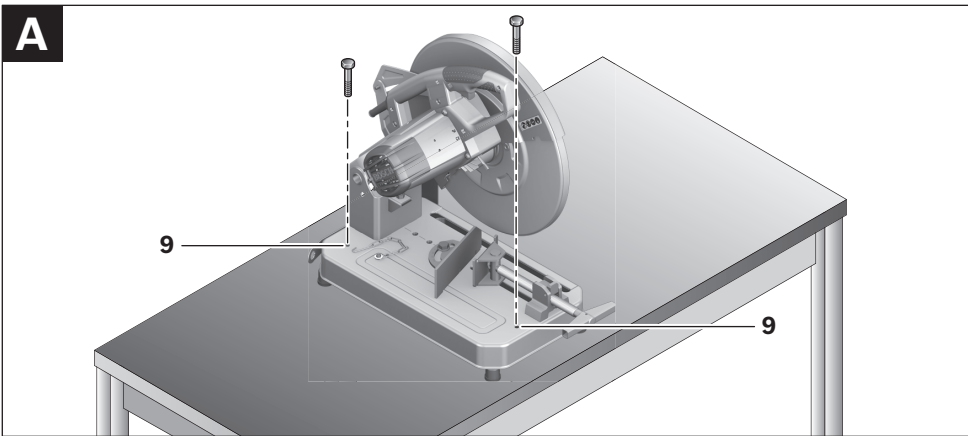
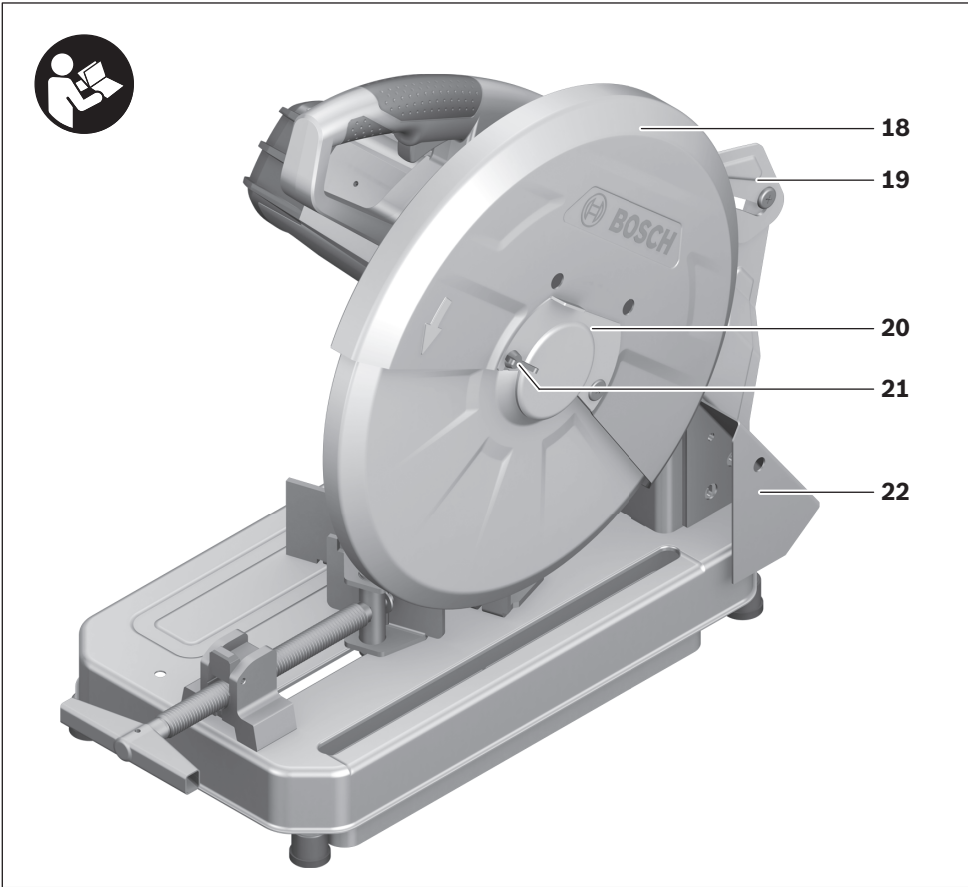
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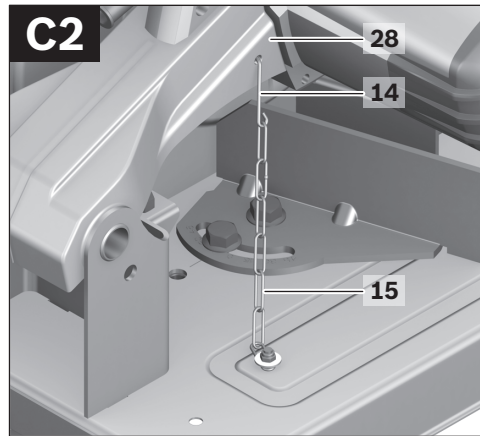
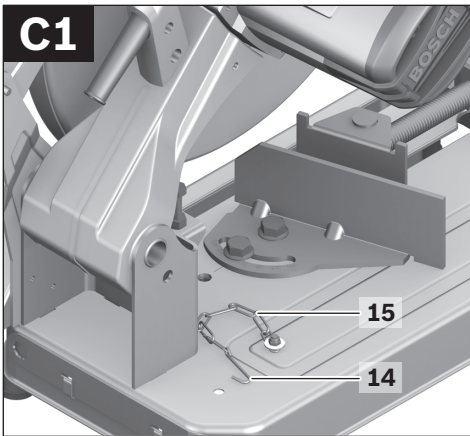
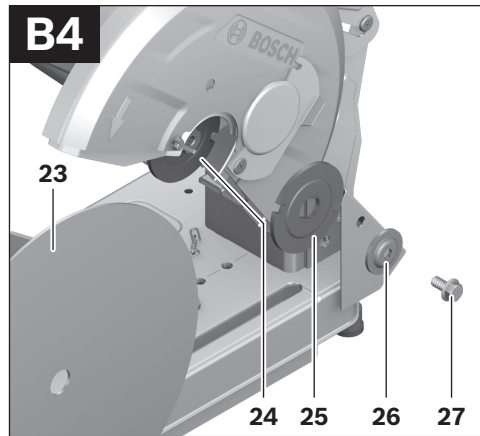
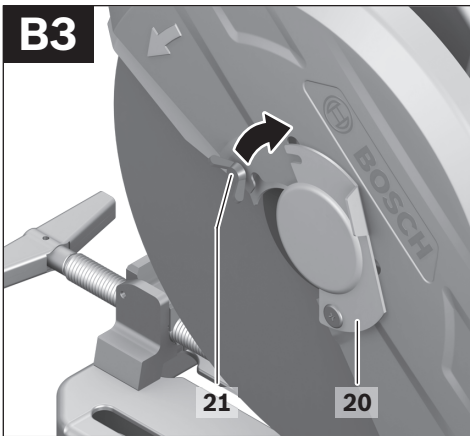
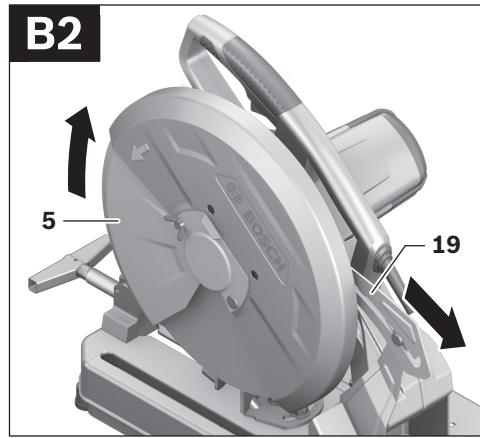
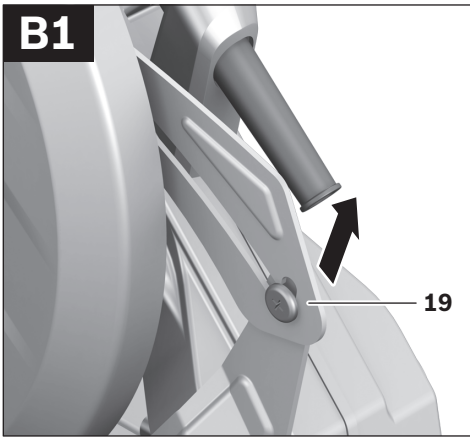


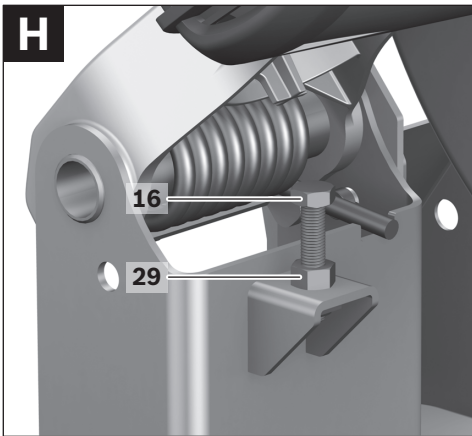
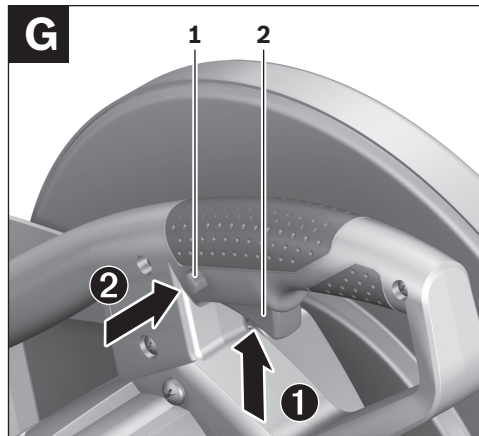
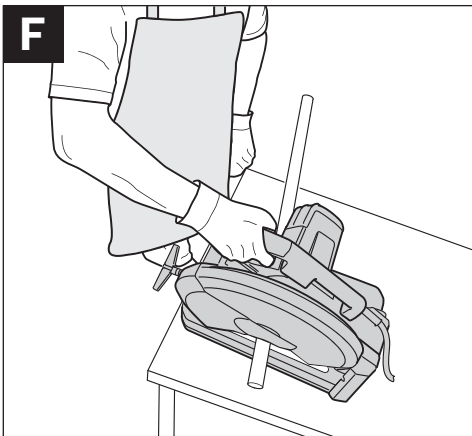
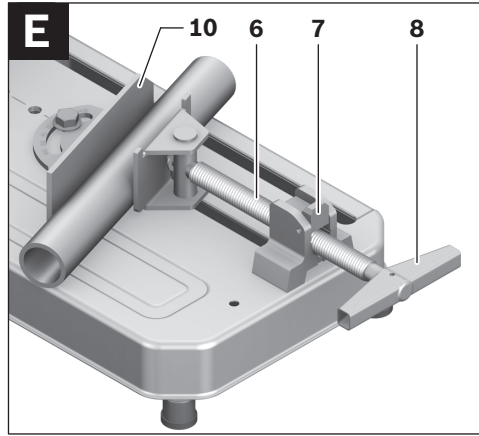
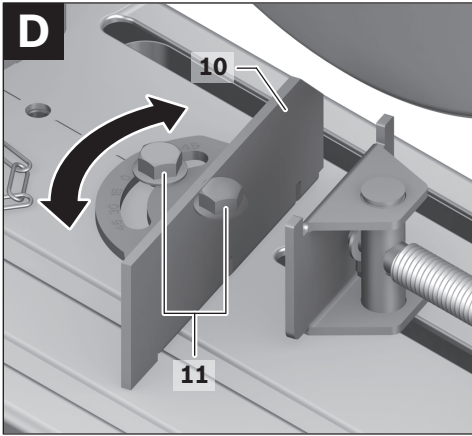
TCO 2000 Professional





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安全规章

电动工具通用安全警告

警告 使用电动工具时，为了避免操作者遭受电击，避免操作者受伤和防止火灾，务必遵循以下的基本安全措施。

操作本电动工具以前，先阅读所有的指示并且要好好保存这些安全规章。

在安全规章中使用的术语“电动工具”，指的是市电驱动（有线）电动工具或电池驱动（无线）电动工具。

1) 工作场地的安全

- a) 保持工作场地清洁和明亮。混乱和黑暗的场地会引发事故。
- b) 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。
- c) 让儿童和旁观者离开后操作电动工具。注意力不集中会使你失去对工具的控制。

2) 电气安全

- a) 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。
- b) 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。
- c) 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。
- d) 不得滥用电线。绝不用电线搬运、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。
- e) 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。
- f) 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。

3) 人身安全

- a) 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。
- b) 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。
- c) 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。
- d) 在电动工具接通之前，拿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。
- e) 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。
- f) 着装适当。不要穿宽松衣服或佩戴饰品。让你的衣服、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。
- g) 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。

4) 电动工具使用和注意事项

- a) 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。
- b) 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。
- c) 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。
- d) 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。

- e) 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。
- f) 保持切割刀具锋利和清洁。保养良好的有锋利切削刃的刀具不易卡住而且容易控制。
- g) 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。

5) 维修

- a) 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。

有关切割研磨机的安全规章

- ▶ 不可以站在电动工具上。如果电动工具突然翻倒或者不小心碰触切割片都可能造成严重伤害。
- ▶ 务必使用防护罩。防护罩可以保护操作者免被切割片的碎片割伤，以及避免操作者意外碰触切割片。
- ▶ 检查防护罩的功能是否正常，移动防护罩时会不会发生摩擦。不可以打开的情况下固定住防护罩。
- ▶ 本电动工具只适合乾式切割。如果水分渗入电动工具中可能造成触电。
- ▶ 电线必须远离旋转的刀具。电线可能被割断或被卷入刀具中。
- ▶ 握柄要保持干燥，干净并且上面不可以有油脂。沾满油脂的握柄很滑可能导致无法控制机器。
- ▶ 如果电动工具还在转动，千万不可以尝试清除切割范围中的切屑，金属屑或类似的杂物。务必先收回机臂，然后再关闭电动工具。
- ▶ 先开动机器再把切割片放在工件上。否则如果切割片被夹在工件中，会产生回击。
- ▶ 先确定工作范围内及工件上没有任何调整工具及金属屑，接著才可以操作电动工具。金属碎片或其它的物品如果接触了转动中的切割片会快速弹开，可能击伤操作者。
- ▶ 务必固定好工件。不可以加工因为体积太小而无法固定的工件。因为这样手和切割片之间的距离会太小。

- ▶ 如果切割片被夹住了，要立即关闭电动工具并静候，让切割片完全停止转动。如果切割片还继续转动，勿尝试着从切缝中拔出切割片，这样可能造成反击。确认并排除切割片被夹住的原因。
- ▶ 关机之后不可以使用侧压的方式制止仍然继续旋转的切割片。切割片可能损坏，断裂或造成反击。
- ▶ 不可用力地将切割片撞向工件，使用电动工具时不可以施加太大的压力。在角落和锋利的边缘上操作时要避免切割片歪斜了。如果滥用切割片可能在切割片上造成裂痕，这些裂痕会在无预警的情况下让切割片破裂。
- ▶ 穿好工作围裙。勿让火花伤害任何人。清除工作地点附近的易燃物体。研磨金属时会产生火花。
- ▶ 本切割机只能切割制造商建议的物料。否则切割机超荷。
- ▶ 不可以使用损坏，弯曲变形或转动时会震动的切割片。损坏的切割片在运转时会产生较大的摩擦力，容易被夹住并且造成回击。
- ▶ 使用正确规格的切割片，和合适的切割片接孔（例如星状接孔或圆形接孔）。切割片的接孔和切割机的接头如果不能完全吻合，切割片旋转时会失去平衡容易造成操作失控。
- ▶ 不要附上锯链、木雕刀片或带齿锯片。这些锯片会产生频繁的反弹和失控。
- ▶ 注意切割片制造商提供的使用说明书中，关于安装切割片和使用切割片的指示。使用不合适的切割片不仅容易造成伤害，而且切割片容易被夹住、断裂或产生反击。
- ▶ 不使用非工具制造商推荐和专门设计的附件。否则该附件可能被装到你的电动工具上，而它不能保证安全操作。
- ▶ 工作结束后，如果切割片尚未冷却，不可以触摸切割片。工作时切割片会变得非常灼热。
- ▶ 定期检查电线。损坏的电线只能交给博世电动工具授权的顾客服务处修理。更换损坏的延长电线。如此才能够确保电动工具的安全性能。
- ▶ 妥善保存好不使用的电动工具。存放处必须保持干燥并且能过上锁。这样能够防止电动工具在储藏过程中受损，或避免不会操作机器的人使用它。
- ▶ 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。

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- ▶ **工具未完全静止时，不可离开工具。**如果工具仍继续转动，可能造成伤害。
- ▶ **勿使用电线已经损坏的电动工具。如果电源电线在工作中受损，千万不可触摸损坏的电线，并马上拔出插头。**损坏的电线会提高使用者触电的危险。

代表符号

以下符号可以帮助您正确地使用本电动工具。请牢记各符号和它们的代表意思。正确了解各符号的代表意思，可以帮助您更有把握更安全地操作本电动工具。

符号

含义



- ▶ **如果电动工具还在转动，千万不要把手放入切割范围中。**触摸了切割片会被割伤。



- ▶ **佩戴耳罩。**工作噪音会损坏听力。



- ▶ **请佩戴护目镜。**



- ▶ **请佩戴防尘面具。**



- ▶ **佩戴工作手套。**

产品和功率描述



阅读所有的警告提示和指示。如未确实遵循警告提示和指示，可能导致电击、火灾并且 / 其他的严重伤害。

按照规定使用机器

本电动工具为立式机器。在机器上安装切割片之后，可以在金属物料上进行纵向直线切割，横向直线切割以及最大弯角 45 度的弧形切割。切割时不要用水冲刷。

插图上的机件

机件的编号和电动工具详解图上的编号一致。

- 1 起停开关的锁紧键
- 2 起停开关
- 3 手柄
- 4 主轴锁
- 5 活动防护罩
- 6 固定丝杆
- 7 快速解锁
- 8 丝杆柄
- 9 安装孔
- 10 角度挡块
- 11 角度挡块的固定螺丝
- 12 底座
- 13 环形扳手 (15 毫米 ; 13 毫米)
- 14 钩子
- 15 安全链条
- 16 深度尺
- 17 搬运柄
- 18 防护罩
- 19 提杆
- 20 盖子
- 21 遮盖的蝶翼螺丝
- 22 火花挡板
- 23 切割片
- 24 主轴

- 25 固定法兰
- 26 垫片
- 27 六角螺丝
- 28 机臂
- 29 深度尺的锁紧螺母

图表或说明上提到的附件，并不包含在基本的供货范围中。本公司的附件清单中有完整的附件供应项目。

技术数据

切割机		TCO 2000 Professional
物品代码		3 601 M17 380
额定输入功率	瓦	2000
无负载转速	次 / 分	3500
重量符合 EPTA- Procedure 01/2003	公斤	15,5
绝缘等级		□/II

许可的工件尺寸（最大 / 最小）参考页数 12。

开动电动工具时，电压会突然下降。如果电源网络状况不佳，可能会干扰其它机器。在电源阻抗小于 0,15 欧姆时不会产生干扰。

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。

请认清电动工具铭牌上的物品代码。电动工具在销售市场上没有统一的商品名称。

适合本机器的切割片尺寸

最大切割片直径	毫米	355
最大切割片厚度	毫米	3
接孔直径	毫米	25,4

安装

- ▶ 为了避免意外开动电动工具。安装锯片时，或进行电动工具的维护修理工作时，机器的插头都不可以插在插座中。

供货范围

小心地从包装中取出所有的供货物品。

拆除电动工具和附带附件上的所有包装材料。

首度使用电动工具之前，先检查以下各部件是否包含在供货范围中。

- 安装了切割片的切割研磨机
- 环形扳手 13

指示： 检查电动工具是否有损坏之处。

使用电动工具之前，必须详细检查防护装置或轻微损坏的零件是否仍然运作正常。检查活动性零件是否功能正常不会被夹住，以及该零件有否受损。所有的零件都必须安装正确，并且符合规定以确保机器的正常运作功能。

损坏的防护装置和零件必须按照规定交给合格的专业修理厂修理或更换。

固定或活动的安装方式

- ▶ 为了能够稳定地操作机器，正式使用机器之前，必须把电动工具固定在平坦、稳固的工作平面上（例如工作桌）。

在工作平面上安装机器（参考插图 A）

- 使用合适的螺丝把电动工具固定在工作平面上。固定时可以使用螺孔 9。

活动式安装（不推荐！）

如果情况特殊，无法将电动工具固定在工作地点上，可以借助底座 12 上的脚垫把机器放置在合适的底垫上（例如工作台，平坦的地板等），如此便不需要锁紧电动工具。

更换工具 (参考插图 B1-B4)

- ▶ **维修电动工具或换装零、配件之前, 务必从插座上拔出插头。**
- ▶ **启动主轴锁 4。只在主轴 24 完全静止后才可以启动, 否则可能损坏电动工具。**
- ▶ **工作结束后, 如果切割片尚未冷却, 不可以触摸切割片。** 工作时切割片会变得非常灼热。

切割片的最大许可转速, 必须等于或大于电动工具的无负载转速。

必须根据本说明书中提出的各项技术数据选择切割片。另外切割片上必须标示了通过 EN 12413 检验的标志。

把不使用的切割片放置在封闭的容器或原包装中。储存切割片时要采取平放的方式。

拆卸切割片

- 把电动工具调整在工作位置上 (参考 "解开电动工具的锁定 (工作位置) (参考插图 C1)", 第 10 页)。
- 顺着导引槽向上拉起提杆 19。此时活动防护罩 5 会向上掀开到尽头。让防护罩保持在这个位置。
- 拧松蝶翼螺丝 21, 并向后掀开遮盖 20。
- 拧转六角螺丝 27, 此时要使用附带的环形扳手 13 (15 毫米), 并同时按下主轴锁 4, 让主轴锁卡牢。
- 按住主轴锁并转出六角螺丝 27。
- 取出垫片 26 和固定法兰 25。
- 拆下切割片 23。

安装切割片

必要的话, 得在安装之前清洁所有的零部件。

- 把新的切割片装在主轴 24 上, 切割片上的标贴必须朝外, 即背向着机臂。
- 陆续装上固定法兰 25, 垫片 26 和六角螺丝 27。按下主轴锁 4, 并让主轴锁卡牢, 拧紧六角螺丝 27, 此时要使用附带的环形扳手 13。(拧紧扭力约为 18-20 牛·米)
- 向前收回遮盖 20 并再度拧紧蝶翼螺丝 21。
- 沿著导引槽向下推压提杆 19, 并同时放下活动防护罩 5 至提杆卡牢为止。
- 要确定活动防护罩 5 能够正常地运作。

安装好切割片之后以及在开动机器之前, 必须检查是否已经正确地安装好切割片, 切割片是否能够无阻地旋转。

- 要确定切割片不会和活动防护罩 5, 防护罩 18 或其他零件产生摩擦。
- 先让电动工具运作约 30 秒。
如果机器在运转时出现明显的震动, 必须马上关闭电动工具, 拆除切割片并且重新安装。

操作

- ▶ **维修电动工具或换装零、配件之前, 务必从插座上拔出插头。**

搬运固定装置

搬运固定装置 可以减轻运输电动工具时的搬运工作。

解开电动工具的锁定 (工作位置) (参考插图 C1)

- 向下推压机臂 28 (此时要握着手柄 3), 至能够从机臂上松开钩子 14 (位在安全链条 15 上) 为止。
- 慢慢向上提起机臂。

锁定电动工具 (搬运位置) (参考插图 C2)

- 向下推压机臂 28 (此时要握着手柄 3), 至能够将钩子 14 (位在安全链条 15 上) 挂在机臂上为止。

其他有关搬运的指示请参考页数 12。

调整斜角角度 (参考插图 D)

斜角角度的范围为 0 度到 45 度。

在角度挡块 10 上, 标示了重要的设定值。0 度角和 45 度角分别位在两个末端。

- 拧松角度挡块的固定螺丝 11, 此时要使用附带的环形扳手 13 (15 毫米)。
- 设定好需要的角度, 并再度拧紧两个固定螺丝 11。

移动角度挡块（参考插图 D 和 E）

如果您要分割宽度大过 140 毫米的工件时，可以向后移动角度挡块 10。

- 完全拧出固定螺丝 11，此时必须使用附带的环形扳手 13 (15 毫米)。
- 您可根据需要的距离，将角度挡块 10 向后移动一个钻孔或向后移动两个钻孔。
- 设定好需要的角度，并再度拧紧两个固定螺丝 11。

固定工件（参考插图 E）

为了确保工作安全务必固定好工件。

不可以加工因为体积太小而无法固定的工件。

长的工件的末端不可以悬空，必须做好支撑的工作。

- 把工件靠在角度挡块 10 上。
- 把固定丝杆 6 推靠在工件上，借助丝杆柄 8 夹紧工件。

放松工件

- 拧松丝杆柄 8。
- 掀开快速解锁 7，抽出靠在工件上的固定丝杆 6。

操作机器

- ▶ **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。**
- ▶ **操作之前先检查切割片。不仅要正确地安装好切割片，而且切割片必须能够无阻地旋转。必须进行至少 30 秒的无载试机。不可以使用已经损坏、变形或会震动的切割片。损坏的切割片可能会破裂并且造成伤害。**

加工含铅的颜料以及矿物和金属所产生的粉尘有害健康。机器操作者或者工地附近的人如果接触、吸入这些粉尘，可能会有过敏反应并且 / 或者感染呼吸道疾病。加工含铅的颜料以及矿物和金属所产生的粉尘有害健康。机器操作者或者工地附近的人如果接触、吸入这些粉尘，可能会有过敏反应并且 / 或者感染呼吸道疾病。

- 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。

工作尘，废屑或工件的碎屑，可能造成切割片卡在底座 12 的开口中。

- 关闭电动工具，并且从插座中拔出插头。
 - 静候，待切割片完全停止旋转。
 - 向后翻转电动工具，以便让工件的废屑从开口中掉落。必要时得使用合适的工具清除所有的工件废屑。
- ▶ **避免让工作场所堆积过多的尘垢。** 尘埃容易被点燃。

操作者的位置（参考插图 F）

- ▶ **不可以和切割片成一直线站在电动工具的前方，必须站在切割片的旁边。** 这样在切割片破裂时，才能够保护您的身体免受碎片割伤。

开动 / 关闭（参考插图 G）

- 按下起停开关 2，可以 **开动** 电动工具。
- **锁定** 起停开关，按住起停开关并同时按下锁紧键 1。
- **关闭** 电动工具，放开起停开关 2。如果起停开关 2 被锁定了，先按下起停开关紧接着再放开开关。

有关操作方式的指点**切割时的一般性提示**

- ▶ **工作结束后，如果切割片尚未冷却，不可以触摸切割片。** 工作时切割片会变得非常灼热。
- ▶ **确定已经正确地安装好火花挡板 22。** 研磨金属时会产生火花。

保护切割片免受冲、撞，切割片要远离油渍。不可以使用侧压的方式，制止切割片继续转动。



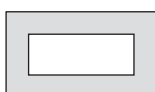

不可以让电动工具因为过度超荷而停止运转。操作机器时用力过猛，不仅会明显降低电动工具的功率，并且会缩短切割片的使用寿命。

根据工件选择合适的切割片。

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许可的工件尺寸

最大工件：

工件形状	斜锯角度	
	0°	45°
	85 Ø	80 Ø
	80 x 80	70 x 70
	150 x 70	100 x 50
	100 x 100	75 x 75

最小工件

(= 所有能够被固定丝杆 6 固定的工件):
长度 80 毫米

最大锯割深度 (0°/0°): 85 毫米

切割金属

- 设定好需要的斜锯角。
- 根据尺寸正确地固定好工件。
- 开动电动工具。
- 握住手柄 3 并慢慢地放下机臂。
- 使用均匀的推进力切割工件。
- 关闭电动工具并静候，让切割片完全停止转动。
- 慢慢向上提起机臂。

设定深度尺（参考插图 H）

深度尺 16 在出厂之前已经经过调整，以便让新的 355 毫米切割片在进行剪切时不会碰触底座。

您可以将深度尺调深一点，来配合逐渐磨损的切割片。

使用新的切割片时，一定要把深度尺调回出厂时的原始位置。

▶ 正确地调整深度尺，不可以让切割片在切割工件时碰触底座。

- 把电动工具调整在工作位置上（参考“解开电动工具的锁定（工作位置）（参考插图 C1）”，第 10 页）。
- 拧松深度尺的锁紧螺母 29，此时必须使用附带的环形扳手 13（13 毫米）。
- 握住把手 3，把机臂移动到需要的位置上。
- 朝着顺时针或逆时针的方向拧转深度尺 16，至螺丝头碰触机壳为止。
- 慢慢抬高机臂并拧紧锁紧螺母 29。

搬运

- 提电动工具时，一定要握着搬运柄 17。
- ▶ 必须两个人一起搬运电动工具，以避免伤害您的背部。
- ▶ 搬动电动工具时只能使用搬运装置，不可以利用防护装置来搬运电动工具。

维修和服务

维修和清洁

- ▶ **维修电动工具或换装零、配件之前，务必从插座上拔出插头。**
- ▶ **定期使用软的刷子清洁电动工具的通气孔。** 马达的风扇会把灰尘吸入机壳中，如果囤积了大量的金属尘，会有触电的危险。
- ▶ **在某些极端的操作环境下，如果可能的话一定要使用吸尘装备。吹除通气孔中的污垢并且要使用剩余电流 - (FI) - 保护开关。** 加工金属时可能在电动工具的内部堆积会导电的废尘。这样可能会影响电动工具的安全绝缘性能。
- ▶ **维护和修理的工作只能交给合格的专业电工执行。** 如此才能够确保电动工具的安全性能。

活动防护罩必须能够无阻地来回摆动，并且要能够自动关闭，所以防护罩的四周必须随时保持清洁。

本公司生产的电动工具都经过严密的品质检验，如果机器仍然发生故障，请将机器交给博世电动工具公司授权的顾客服务处修理。

询问和订购备件时，务必提供机器铭牌上标示的 10 位数物品代码。

附件

切割片	2 608 602 752
切割片	2 608 600 946

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购买，使用和设定本公司产品及附件的问题。

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

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罗伯特博世有限公司

营业范围电动工具

邮箱号码 100156

70745 Leinfelden-Echterdingen (莱菲登 - 艾希德登)

Deutschland (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。

***following pages
are NOT
for printing***

Safety Notes

General Power Tool Safety Warnings

⚠ WARNING When using electric tools basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury including the following.

Read all these instructions before attempting to operate this product and save these instructions.

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

1) Work area safety

- a) **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- b) **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.
- c) **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

2) Electrical safety

- a) **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.
- b) **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.
- c) **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.

d) **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.

e) **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.

f) **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.

3) Personal safety

- a) **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.
- b) **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.
- c) **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.
- d) **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.

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- e) **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- f) **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.
- g) **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.

4) Power tool use and care

- a) **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.
- b) **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.
- c) **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.
- d) **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.
- e) **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.

- f) **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- g) **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.

5) Service

- a) **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 Cut-off Grinder

- ▶ **Never stand on the power tool.** Serious injuries could occur when the power tool tips over or when accidentally coming into contact with the cutting disc.
- ▶ **Always use the blade guard.** A blade guard protects the user against broken off parts of the cutting disc and against accidental touching of the cutting disc.
- ▶ **Make sure that the guard operates properly and that it can move freely.** Never lock the guard in place when opened.
- ▶ **Use the power tool only for dry cutting.** Water penetrating into a power tool increases the risk of an electric shock.
- ▶ **Keep the mains cable away from rotating application tools.** The mains cable can be cut through or get caught.
- ▶ **Keep handles dry, clean, and free from oil and grease.** Greasy, oily handles are slippery causing loss of control.
- ▶ **Never remove cutting remainders, metal chips, etc. from the cutting area while the machine is running.** Always guide the tool arm back to the neutral position first and then switch the machine off.

- ▶ **Guide the cutting disc against the workpiece only when the machine is switched on.** Otherwise, there is danger of kickback, when the cutting disc becomes wedged in the workpiece.
- ▶ **Operate the power tool only when the work area to the workpiece is clear of any adjusting tools, metal chips, etc.** Small pieces of metal or other objects that come in contact with the rotating cutting disc can strike the operator with high speed.
- ▶ **Always firmly clamp the workpiece. Do not cut workpieces that are too small to clamp.** Otherwise, the clearance of your hand to the rotating cutting disc is too small.
- ▶ **If the cutting disc becomes jammed, switch the machine off and wait until the cutting disc comes to a complete stop. Never attempt to remove a still running cutting disc from the cut, otherwise there is danger of kickback.** Determine and correct the cause for the jamming.
- ▶ **After switching off, do not stop the cutting disc by applying lateral pressure to it.** The cutting disc can become damaged, break or lead to kickback.
- ▶ **Do not force the cutting disc into the workpiece and do not apply too much pressure when using the power tool. Particularly avoid jamming or wedging the cutting disc when working corners or sharp edges.** When the cutting disc is damaged due to abuse, cracks can form that can lead to breakage without prior warning.
- ▶ **Wear a work apron. Pay attention that other persons are not put at risk from sparking. Remove flammable materials in close vicinity.** Sparking occurs when cutting metal.
- ▶ **Use the cut off grinder only for cutting materials mentioned under "Intended Use".** Otherwise, the cut off grinder can be subject to overload.
- ▶ **Do not use damaged, out-of-centre or vibrating cutting discs.** Damaged cutting discs cause increased friction, binding of the cutting disc and kickback.
- ▶ **Always use cutting discs with correct size and shape (diamond versus round) of arbor holes.** Cutting discs that do not match the mounting hardware of the cut off grinder will run eccentrically, causing loss of control.
- ▶ **Do not attach a saw chain woodcarving blade or toothed saw blade.** Such blades create frequent kickback and loss of control over the power tool.
- ▶ **Observe the operating instructions of the cut-off wheel manufacturer for assembly and use of the cut-off wheel.** Cut-off wheels that do not fit can lead to injury as well as to jamming, breaking or kickback.
- ▶ **Do not use accessories which are not specifically designed and recommended by the tool manufacturer.** Just because the accessory can be attached to your power tool, it does not assure safe operation.
- ▶ **Do not touch the cutting disc after working before it has cooled.** The cutting disc becomes very hot while working.
- ▶ **Check the cable regularly and have a damaged cable repaired only through an authorised customer service agent for Bosch power tools. Replace damaged extension cables.** This will ensure that the safety of the power tool is maintained.
- ▶ **Store the machine in a safe manner when not being used. The storage location must be dry and lockable.** This prevents the machine from storage damage, and from being operated by untrained persons.
- ▶ **Secure the workpiece.** A workpiece clamped with clamping devices or in a vice is held more secure than by hand.
- ▶ **Never leave the machine before it has come to a complete stop.** Cutting tools that are still running can cause injuries.
- ▶ **Never use the machine with a damaged cable. Do not touch the damaged cable and pull the mains plug when the cable is damaged while working.** Damaged cables increase the risk of an electric shock.

Products sold in GB only: Your product is fitted with an BS 1363/A approved electric plug with internal fuse (ASTA approved to BS 1362).

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

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

Products sold in AUS and NZ only: Use a residual current device (RCD) with a rated residual current of 30 mA or less.

Symbols

The following symbols can be important for the operation of your power tool. Please memorise the symbols and their meanings. The correct interpretation of the symbols helps you operate the power tool better and more secure.

Symbol	Meaning
	▶ Keep hands away from the cutting area while the machine is running. Danger of injury when coming into contact with the cutting disc.
	▶ Wear ear protectors. Exposure to noise can cause hearing loss.
	▶ Wear safety goggles.
	▶ Wear a dust respirator.
	▶ Wear protective gloves.

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.

Intended Use

The machine is intended for stationary use with cutting discs to perform lengthways and crossways straight cuts or mitre cuts to 45° in metal materials without the use of water.

Product Features

The numbering of the components shown refers to the representation of the power tool on the graphic pages.

- 1 Lock-on button for On/Off switch
- 2 On/Off switch
- 3 Handle
- 4 Spindle lock
- 5 Retracting blade guard
- 6 Clamping spindle
- 7 Quick-release button
- 8 Spindle handle
- 9 Mounting holes
- 10 Angle stop
- 11 Locking screw for angle stop
- 12 Base plate
- 13 Ring spanner (15 mm; 13 mm)
- 14 Hook
- 15 Securing chain
- 16 Depth stop
- 17 Transport handle
- 18 Blade guard
- 19 Handle
- 20 Cover lid
- 21 Wing bolt for cover lid
- 22 Spark guard
- 23 Cutting disc
- 24 Tool spindle

- 25 Clamping flange
- 26 Washer
- 27 Hexagon bolt
- 28 Tool arm
- 29 Lock nut of the depth stop

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

Cut off grinder		TCO 2000 Professional
Article number		3 601 M17 380
Rated power input	W	2000
No-load speed	min ⁻¹	3500

Weight according to EPTA-Procedure 01/2003	kg	15.5
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Protection class □/II

Permissible workpiece dimensions (maximal/minimal) see page 22.

Starting cycles generate brief voltage drops. Interference with other equipment/machines may occur in case of unfavourable mains system conditions. Malfunctions are not to be expected for system impedances below 0,15 ohm.

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.

Please observe the article number on the type plate of your machine. The trade names of the individual machines may vary.

Dimensions of suitable cutting discs

Cutting disc diameter, max.	mm	355
Cutting discs width, max.	mm	3
Mounting hole diameter	mm	25.4

Assembly

- ▶ **Avoid unintentional starting of the machine. During assembly and for all work on the machine, the power plug must not be connected to the mains supply.**

Delivery Scope

Carefully remove all parts included in the delivery from their packaging.

Remove all packaging material from the machine and the accessories provided.

Before starting the operation of the machine for the first time, check if all parts listed below have been supplied:

- Cut-off grinder with mounted cutting disc
- Ring spanner **13**

Note: Check the power tool for possible damage.

Before further use of the machine, check that all protective devices are fully functional. Any lightly damaged parts must be carefully checked to ensure flawless operation of the tool. All parts must be properly mounted and all conditions fulfilled that ensure faultless operation.

Damaged protective devices and parts must be immediately replaced by an authorised service centre.

Stationary or Flexible Mounting

- ▶ **To ensure safe handling, the machine must be mounted on a level and stable surface (e. g., workbench) prior to using.**

Mounting to a Working Surface (see figure A)

- Fasten the power tool with suitable screw fasteners to the working surface. The mounting holes **9** serve for this purpose.

Flexible Mounting (not recommended!)

In the exceptional case that it should not be possible to firmly bench-mount the power tool, you can provisionally place the legs of base plate **12** on a suitable surface (e. g. a workbench, level floor, etc.) without bolting the machine down.

Changing the Tool (see figures B1–B4)

- ▶ **Before any work on the machine itself, pull the mains plug.**
- ▶ **Actuate the spindle lock 4 only when the tool spindle 24 is stopped.** Otherwise, the machine can become damaged.
- ▶ **Do not touch the cutting disc after working before it has cooled.** The cutting disc becomes very hot while working.

Use only cutting discs that have an equal or higher maximal allowable speed than the no-load speed of your power tool.

Use only cutting discs that correspond to the characteristic data given in these operating instructions and are checked according to EN 12413 and marked appropriately.

Place unused cutting discs in an enclosed container or in the original packaging. Store cutting discs lying flat.

Removing the Cutting Disc

- Bring the power tool into the working position. (see “Releasing the Machine (Working Position)” (see figure C1)”, page 20)
- Pull lever **19** upward and slide it alongside the guide groove.
This pivots the retracting blade guard **5** upward to the stop, where it is held in the open position.
- Loosen wing bolt **21** and swing the cover lid **20** toward the rear.
- Turn hexagon bolt **27** with the provided ring spanner **13** (15 mm) and at the same time press the spindle lock **4** until it engages.
- Hold the spindle lock pressed and unscrew the hexagon bolt **27**.
- Remove the washer **26** and the clamping flange **25**.
- Remove the cutting disc **23**.

Installing the Cutting Disc

If required, clean all parts to be mounted prior to assembly.

- Mount the new cutting disc onto the tool spindle **24** in such a manner that its label faces away from the tool arm.
- Mount the clamping flange **25**, the washer **26** and the hexagon bolt **27**.
Press spindle lock **4** until it engages and tighten hexagon bolt **27** with the provided ring spanner **13**. (Tightening torque approx. 18–20 Nm)
- Swing cover lid **20** toward the front and tighten wing bolt **21** again.
- Slide lever **19** downward alongside the guide groove again and at the same time swing the retracting blade guard **5** downward until the lever engages.
- Make sure that the retracting blade guard **5** operates properly.

After mounting the cutting disc and before switching on, check whether the cutting disc is properly mounted and if it can rotate freely.

- Make sure that the cutting disc does not graze against the retracting blade guard **5**, the blade guard **18** or against other parts.
- Run the machine for approx. 30 seconds.
Should significant vibrations occur, switch off the machine immediately; remove and install the cutting disc again.

Operation

- ▶ **Before any work on the machine itself, pull the mains plug.**

Transport Safety

The transport safety-lock enables easier handling of the machine when transporting to various working locations.

Releasing the Machine (Working Position) (see figure C1)

- Press the tool arm **28** down via the handle **3** until you can unhook the hook **14** of the securing chain **15** from the tool arm.
- Guide the tool arm slowly upward.

Securing the Machine (Transport Position) (see figure C2)

- Guide the tool arm **28** down via the handle **3** until you can securely hook the hook **14** of the securing chain **15** to the tool arm.

For additional information on transport, see page 23.

Adjusting the Cutting Angle (see figure D)

The miter angle can be set in a range from 0° to 45°.

Frequently used mitre angles are identified on the angle stop **10** with appropriate markings. The 0° and 45° position are set at the respective end stop.

- Loosen the locking screws **11** for the angle stop with the supplied ring spanner **13** (15 mm).
- Adjust the desired angle and firmly tighten both locking screws **11** again.

Displacing the Angle Stop (see figure D and E)

When cutting workpieces wider than 140 mm, the angle stop **10** can be displaced to the rear.

- Completely unscrew locking screws **11** with the supplied ring spanner **13** (15 mm).
- Move the angle stop **10** toward the rear by one or two holes to the desired clearance.
- Adjust the desired angle and firmly tighten both locking screws **11** again.

Clamping the Workpiece (see figure E)

To ensure optimum working safety, the workpiece must always be firmly clamped.

Do not saw workpieces that are too small to clamp.

Long workpieces must be underlaid or supported at their free end.

- Place the workpiece against the angle stop **10**.
- Slide the clamping spindle **6** against the workpiece and firmly clamp the workpiece with the spindle handle **8**.

Loosening the Workpiece

- Loosen the spindle handle **8**.
- Tilt up the quick release **7** and pull the clamping spindle **6** away from the workpiece.

Starting Operation

- ▶ **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.**
- ▶ **Check the cutting disc before using. The cutting disc must be properly mounted and must rotate freely. Carry out a 30 second (min.) test run with no load. Do not use damaged, out-of-centre or vibrating cutting discs.** Damaged cutting discs can burst and cause injuries.

Dusts from materials such lead-containing coatings, minerals and metal can be harmful to one's health. Contact with or inhaling the dusts can trigger allergic reactions to the operator or bystanders and/or lead to respiratory infections. Certain metal dusts are considered hazardous, especially in conjunction with alloys such as zinc, aluminium or chromium. Materials containing asbestos may only be worked by specialists.

- 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.

The blade can be blocked by dust, chips or workpiece fragments in the slot of the base plate **12**.

- Switch the machine off and pull the mains plug from the socket outlet.
- Wait until the cutting disc has come to a complete stop.
- Tilt the machine toward the rear, so that small workpiece fragments can fall out of the opening intended for this purpose. If required, use a suitable tool to remove all workpiece fragments.

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

Position of the Operator (see figure F)

- ▶ **Do not stand in a line with the cutting disc in front of the machine. Always stand aside of the cutting disc.** This measure provides for better protection of your body against possible splinters in case of cutting disc breakage.

Switching On and Off (see figure G)

- To **start** the machine, press the On/Off switch **2**.
- To **lock** the On/Off switch, keep it pressed and additionally push the lock-on button **1**.
- To **switch off** the machine, release the On/Off switch **2**. When the On/Off switch **2** is locked, press it first and then release it.

Working Advice**General Cutting Instructions**

- ▶ **Do not touch the cutting disc after working before it has cooled.** The cutting disc becomes very hot while working.
- ▶ **Make sure that the spark guard 22 is properly mounted.** Sparking occurs when cutting metal.

Protect the cutting disc against impact, shock and grease. Do not subject the cutting disc to lateral pressure.





Do not strain the power tool so heavily that it comes to a standstill.

Excessive feed considerably reduces the performance capability of the machine and shortens the service life of the cutting disc.

Use only cutting discs that are suitable for the material to be worked.

Permissible Workpiece Dimensions

Maximal workpiece sizes:

Workpiece Form	Mitre/Bevel Angle	
	0°	45°
	85 Ø	80 Ø
	80 x 80	70 x 70
	150 x 70	100 x 50
	100 x 100	75 x 75

Minimal workpiece sizes

(= all workpieces that can be clamped via the clamping spindle **6**):
Length 80 mm

Cutting capacity, max. (0°/0°): 85 mm

Cutting Metal

- Set the desired mitre angle.
- Firmly clamp the workpiece as appropriate for its dimensions.
- Switch on the machine.
- Slowly guide the tool arm downward with the handle **3**.
- Cut the workpiece applying uniform feed.
- Switch the machine off and wait until the cutting disc comes to a complete stop.
- Guide the tool arm slowly upward.

Adjusting the Depth Stop (see figure H)

In the delivery condition of the machine, the depth stop **16** is adjusted in such a manner that a new 355 mm cutting disc does not touch the base plate when cutting.

To compensate the wear of the cutting disc, the depth stop can be set deeper.

When using a new cutting disc, the depth stop must then always be set back to the original position.

- ▶ **Always adjust the depth stop in such a manner that the cutting disc does not touch the base plate when cutting.**
- Bring the power tool into the working position. (see “Releasing the Machine (Working Position)” (see figure C1)”, page 20)
- Loosen lock nut **29** with the supplied ring spanner **13** (13 mm).
- Swing the tool arm with the handle **3** to the requested position.
- Screw the depth stop **16** in clockwise or anticlockwise direction until the screw head touches the housing.
- Slowly guide the tool arm upward and tighten the lock nut **29**.

Transport

- Always carry the power tool by its transport handle **17**.
- ▶ **The power tool should always be carried by two persons in order to avoid back injuries.**
- ▶ **When transporting the power tool, use only the transport devices and never use the protective devices.**

Maintenance and Service

Maintenance and Cleaning

- ▶ **Before any work on the machine itself, pull the mains plug.**
- ▶ **Clean the ventilation slots of your power tool regularly with a soft brush.** The motor fan draws dust into the housing, and a large accumulation of metal dust can lead to electrical hazards.
- ▶ **In extreme conditions, always use dust extraction as far as possible. Blow out ventilation slots frequently and install a residual current device (RCD).** When working metals, conductive dust can settle in the interior of the power tool. The total insulation of the power tool can be impaired.

- ▶ **Have maintenance and repair work performed only by qualified specialists.** In this manner, it can be ensured that the safety of the power tool is maintained.

The retracting blade guard must always be able to move freely and retract automatically. Therefore, always keep the area around the retracting blade guard clean.

If the machine should fail despite the care taken in manufacturing and testing procedures, repair should be carried out by an after-sales service centre for Bosch power tools.

In all correspondence and spare parts order, please always include the 10-digit article number given on the type plate of the machine.

Accessories

Cutting disc	2 608 602 752
Cutting disc	2 608 600 946

After-sales Service and Customer Assistance

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

Our customer service representatives can answer your questions concerning possible applications and adjustment of products and accessories.

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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.