



Professional HEAVY DUTY

GLH 18V-60

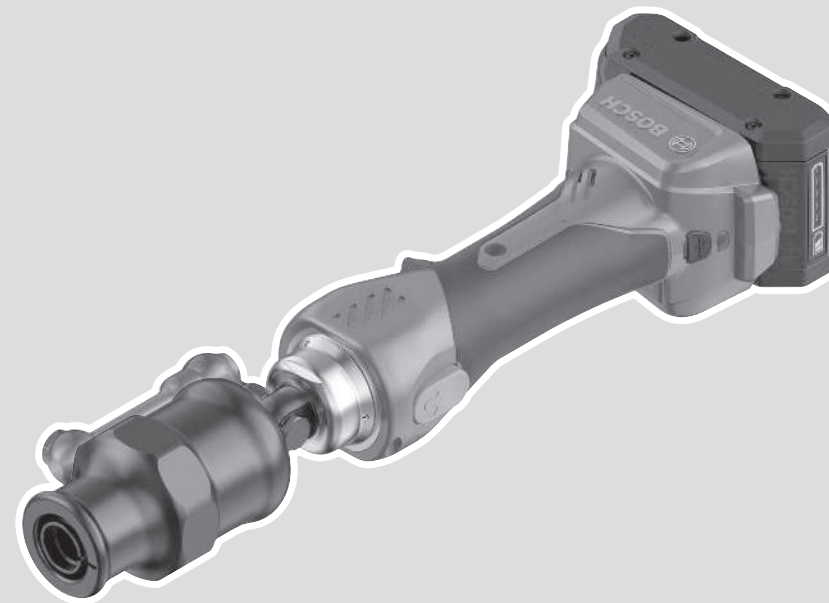
Robert Bosch Power Tools GmbH
70538 Stuttgart
GERMANY

www.bosch-pt.com

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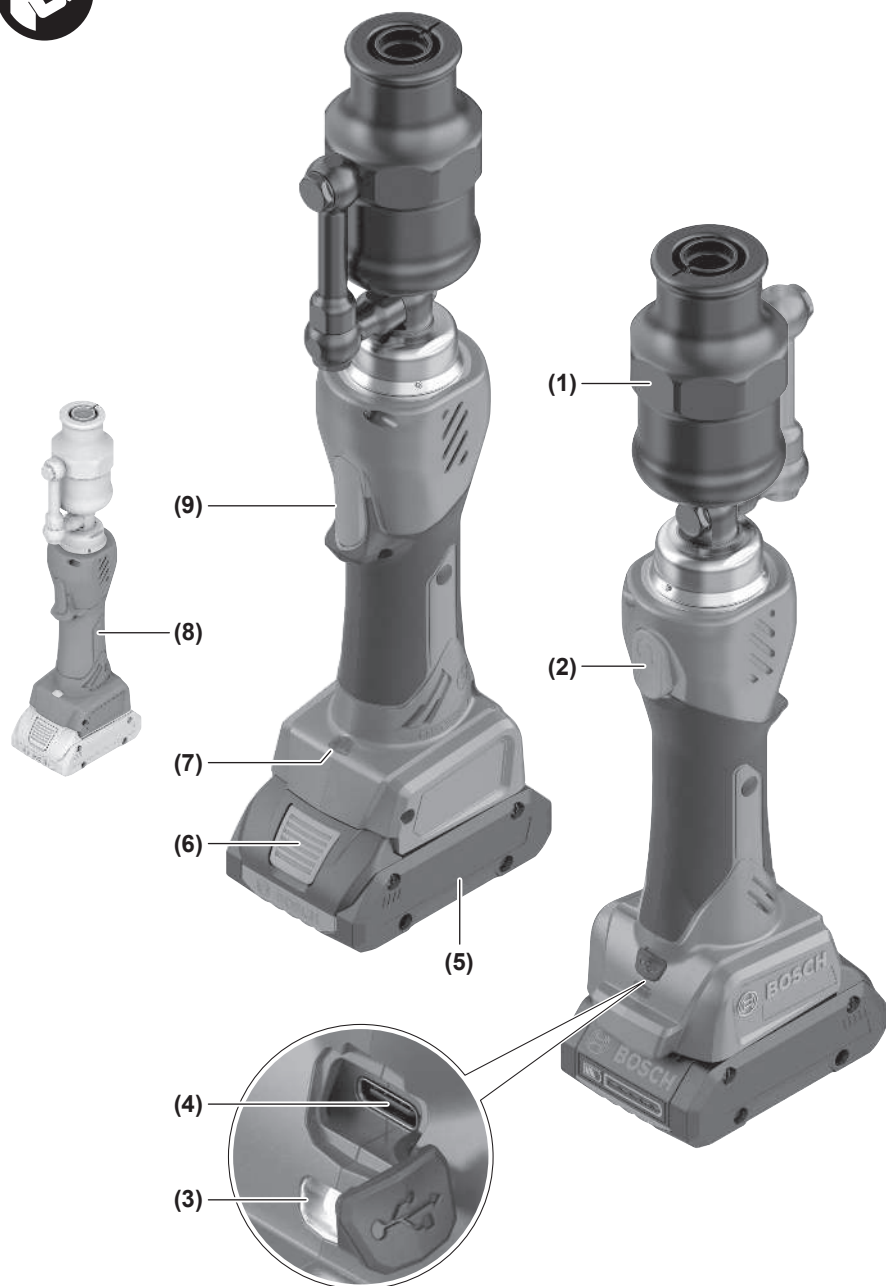


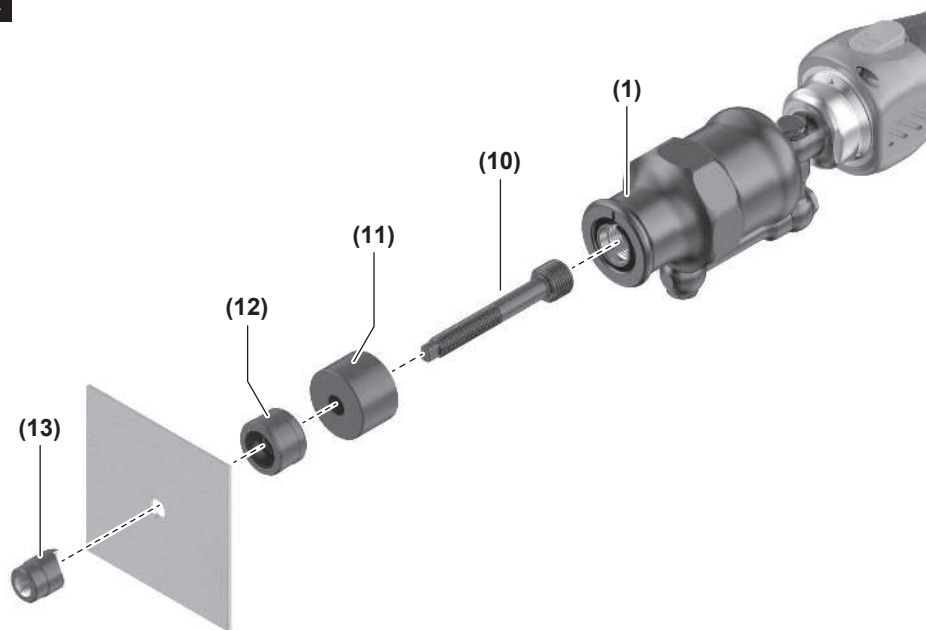
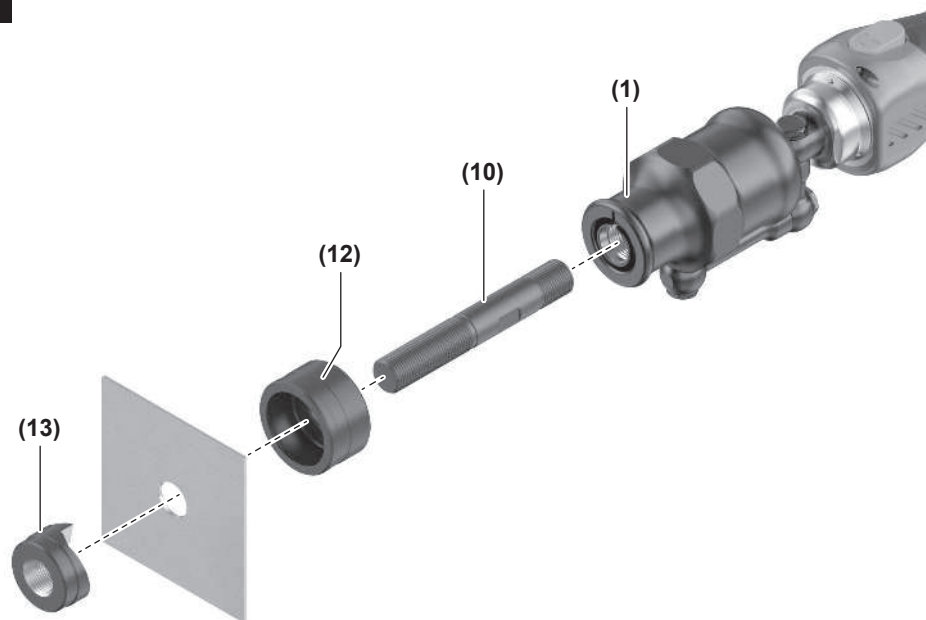
sl Izvirna navodila



SlovenščinaStran 5





A**B**

Slovenščina

Varnostna opozorila

Splošna varnostna navodila za električna orodja

⚠ OPOZORILO Preberite vsa varnostna opozorila, navodila, ilustracije in

specifikacije, ki so priložene temu električnemu orodju.

Če spodaj navedenih napotkov ne upoštevate, lahko pride do električnega udara, požara in/ali težke poškodbe.

Vsa opozorila in napotke shranite, ker jih boste v prihodnje še potrebovali.

Pojem električno orodje, ki se pojavlja v nadaljnjem besedilu, se nanaša na električna orodja z električnim pogonom (z električnim kablom) in na akumulatorska električna orodja (brez električnega kabla).

Varnost na delovnem mestu

- ▶ **Delovno mesto naj bo vedno čisto in dobro osvetljeno.** Nered in neosvetljena delovna mesta povečajo možnost nezgod.
- ▶ **Električnega orodja ne uporabljajte v okolju, v katerem lahko pride do eksplozij (prisotnost vnetljivih tekočin, plinov ali prahu).** Električna orodja povzročajo iskenje, zaradi katerega se lahko prah ali hlapi vnamejo.
- ▶ **Ko uporabljate električno orodje, poskrbite, da v bližini ni otrok ali drugih oseb.** Odvrčanje pozornosti lahko povzroči izgubo nadzora nad orodjem.

Električna varnost

- ▶ **Prosimo, da napravo zavarujete pred dežjem ali vlago.** Vdor vode v električno orodje povečuje tveganje za električni udar.

Osebnostna varnost

- ▶ **Bodite pozorni, pazite kaj delate ter se dela z električnim orodjem lotite z razumom.** Ne uporabljajte električnega orodja, če ste utrujeni oziroma če ste pod vplivom mamil, alkohola ali zdravil. Trenutek nepazljivosti pri uporabi električnega orodja je lahko vzrok za resne telesne poškodbe.
- ▶ **Uporabljajte osebno zaščitno opremo.** Vedno uporabljajte zaščito za oči. Z uporabo zaščitne opreme, kot so protiprašna maska, varnostni čevlji, ki ne drsijo, čelada ali zaščita za sluh, v ustreznih okoliščinah zmanjšate nevarnost poškodb.
- ▶ **Preprečite nenameren vklop orodja.** Pred priključitvijo električnega orodja na električno omrežje in/ali na akumulatorsko baterijo in pred dviganjem ali nošenjem se prepričajte, da je električno orodje izklopljeno. Če električno orodje nosite in imate pri tem prst na stikalu ali pa orodje napajate, ko je stikalo v položaju za vklop, lahko pride do nesreče.
- ▶ **Odstranite vse ključne in izvijače za prilagajanje orodja, preden orodje vključite.** Ključ ali izvijač, ki ga ne

odstranite z vrtečega se dela električnega orodja, lahko povzroči telesne poškodbe.

- ▶ **Ne precenjujte svojih sposobnosti.** **Ves čas trdno stojte in vzdržujte ravnovesje.** To omogoča boljši nadzor nad električnim orodjem v nepričakovanih situacijah.
- ▶ **Bodite primerno oblečeni.** Ne nosite ohlapnih oblačil ali nakita. Las in oblačil ne približujte premikajočim se delom. Ohlapna oblačila, nakit ali dolgi lasje se lahko ujamejo v premikajoče se dele.
- ▶ **Če imate na voljo naprave za priklop sesalnika za prah ali zbiralnih posod, se prepričajte, da so te ustrezno priključene.** Uporaba sistema za zbiranje prahu lahko zmanjša nevarnosti, povezane s prahom.
- ▶ **Naj seznanjenost z orodjem, ki jo pridobite s pogosto uporabo, ne bo razlog za to, da postanete lahkomišeln in ignorirate varnostna načela.** V delčku sekunde lahko nepozorno dejanje pripelje do hude poškodbe.

Uporaba in vzdrževanje električnega orodja

- ▶ **Električnega orodja ne preobremenjujte.** Za delo uporabite ustrezno električno orodje. Pravo električno orodje bo delo opravilo bolje in varneje, in sicer s hitrostjo, za katero je bilo oblikovano.
- ▶ **Električnega orodja ne uporabljajte, če ga s stikalom ne morete vklopiti in izklopiti.** Vsako električno orodje, ki ga ni mogoče nadzirati s stikalom, je nevarno in ga je treba popraviti.
- ▶ **Izvlomite vtič iz vtičnice in/ali odstranite akumulatorsko baterijo, če je le mogoče, in odstranite ter shranite pribor, še preden se lotite popravila orodja.** Ti preventivni varnostni ukrepi zmanjšajo tveganje za nenamerni zagon aparata.
- ▶ **Ko električnih orodij ne uporabljajte, jih shranite izven doseg a otrok.** Osebam, ki orodja ne poznajo ali niso prebrale teh navodil za uporabo, orodja ne dovolite uporabljati. Električna orodja so nevarna, če jih uporabljajo neizkušene osebe.
- ▶ **Vzdržujte električna orodja in pribor.** Prepričajte se, da so premikajoči se deli pravilno poravnani in da se ne zatikajo ter da deli niso polomljeni. Prav tako preverite, ali je na orodju še kaj drugega, kar bi lahko vplivalo na njegovo delovanje. Če je električno orodje poškodovano, mora biti pred uporabo popravljeno. Slabo vzdrževana električna orodja so vzrok za mnoge nezgode.
- ▶ **Rezalna orodja naj bodo vedno ostra in čista.** Skrbno negovana rezalna orodja z ostrimi robovi se manj zatikajo in so lažje vodljiva.
- ▶ **Električna orodja, pribor, vsadna orodja in podobno uporabljajte v skladu s temi navodili.** Pri tem upoštevajte delovne pogoje in dejavnost, ki jo boste opravljali. Uporaba električnih orodij v namene, ki so drugačni od predpisanih, lahko privede do nevarnih situacij.
- ▶ **Ročaji in površine za prijemanje naj bodo suhe, čiste in brez olja ali maščobe.** Gladki ročaji in površine za

prijemanje ne omogočajo varne uporabe in nadzora orodja v nepričakovanih situacijah.

Uporaba in vzdrževanje akumulatorskih orodij

- ▶ **Akumulatorske baterije polnite samo s polnilniki, ki jih priporoča proizvajalec.** Polnilnik, ki je namenjen določeni vrsti akumulatorskih baterij, se lahko vname, če ga boste uporabljali za polnjenje drugačnih akumulatorskih baterij.
- ▶ **V električnih orodjih uporabljajte le akumulatorske baterije, ki so zanje predvidene.** Uporaba drugih akumulatorskih baterij lahko povzroči telesne poškodbe ali požar.
- ▶ **Akumulatorska baterija, ki je ne uporabljate, ne sme priti v stik s kovinskimi predmeti, kot so pisarniške sponke, kovanci, ključi, žebliji, vijaki in drugi manjši kovinski predmeti, ki bi lahko povzročili premostitev kontaktov.** Kratek stik med akumulatorskimi kontakti ima lahko za posledico opekline ali požar.
- ▶ **V primeru napačne uporabe lahko iz akumulatorske baterije izteče tekočina.** Izogibajte se stiku z njo. Če tekočina vseeno po naključju pride v stik s kožo, jo sperite z vodo. Če pride tekočina v oči, poiščite zdravniško pomoč. Iztekajoča akumulatorska tekočina lahko povzroči draženje ali opekline.
- ▶ **Ne uporabljajte poškodovanih ali prilagojenih akumulatorskih baterij oz. orodij.** Poškodovane ali prilagojene akumulatorske baterije se lahko nepredvidljivo obnašajo, kar lahko povzroči požar, eksplozijo ali tveganje za poškodbe.
- ▶ **Akumulatorske baterije ali orodja ne izpostavljajte ognju ali previsoki temperaturi.** Izpostavljenost ognju ali vročini nad 130 °C lahko povzroči eksplozijo.
- ▶ **Upoštevajte navodila za polnjenje in ne polnite akumulatorske baterije ali orodja pri temperaturi, ki je izven območja, navedenega v navodilih.** Če orodje polnite na nepravilen način ali pri temperaturah, ki so izven določenega območja, lahko pride do poškodb akumulatorske baterije, kar poveča tveganje za požar.

Servisiranje

- ▶ **Vaše električno orodje naj popravlja samo usposobljeno strokovno osebje, ki naj pri tem uporabi zgolj originalne rezervne dele.** S tem boste zagotovili, da bo orodje varno za uporabo.
- ▶ **Nikdar ne popravljajte poškodovanih akumulatorskih baterij.** Akumulatorske baterije naj popravlja le proizvajalec ali pooblaščen servisier.

Varnostna opozorila za akumulatorski hidravlični perforator

OPOZORILO!



Nosite zaščitna očala.



Ne segajte v delovno območje glave orodja, razen če ste se prepričali, da je orodje varno zaustavljeno. Električno orodje je varno zaustavljeno le, če je glava perforatorja povsem razprta, akumulatorska baterija pa odstranjena.

- ▶ **Električno orodje sme uporabljati izključno usposobljeno strokovno osebje, starejše od 16 let.** S tem zmanjšate nevarnost za druge.
- ▶ **Električno orodje sme uporabljati izključno ena sama oseba.** Drugim osebam naročite, naj zapustijo nevarno območje v bližini električnega orodja. S tem zmanjšate nevarnost za druge.
- ▶ **Električno orodje uporabljajte le, če imate neoviran pregled nad glavo orodja in ste se prepričali, da v nevarnem območju ni okončin.** S tem preprečite poškodbe.
- ▶ **Če se med delom pojavi nevarnost za ljudi ali napravo, električno orodje zaustavite tako, da izpustite tipko za vklop/izklop.**
- ▶ **Z mehanskim vlečenjem lahko električno orodje v nujnih primerih in pred delom na električnem orodju prestavite v izhodiščni položaj.** Pred odlaganjem električnega orodja oziroma po koncu del ga zaustavite in tlačno razbremenite. Za tlačno razbremenitev električnega orodja pritisnite tipko za ponastavitev.
- ▶ **Električno orodje uporabljajte izključno kot ročno orodje.** Tipka za vklop/izklop in tipka za ponastavitev morata biti na dosegu roke, da ju lahko pritisnete v nujnih primerih.
- ▶ **Električnega orodja ni dovoljeno uporabljati kot stacionarno orodje. Ne smete ga odložiti na tla za uporabo na tleh ali vpeti v vpenjalno pripravo.**
- ▶ **Pred začetkom del se prepričajte, da v delovnem območju ni elementov pod napetostjo. Če so v bližini elementi pod napetostjo, izvedite ustrezne zaščitne ukrepe.** Električno orodje ni primerno za dela na elementih pod napetostjo.
- ▶ **Pred vstavljanjem matrice za perforiranje odstranite akumulatorsko baterijo.** S tem previdnostnim ukrepom boste preprečili nenamerni zagon električnega orodja.
- ▶ **Električnega orodja ne uporabljajte na območjih, kjer obstaja nevarnost eksplozije.**
- ▶ **Električnega orodja ne razdirajte.** Če to storite, varna uporaba ni več mogoča, poleg tega preneha veljati garancija.
- ▶ **Električnega orodja ne uporabljajte neprekinjeno dlje kot 15 minut, da preprečite pregrevanje.** Električno orodje ni primerno za dolgotrajno neprekinjeno uporabo.
- ▶ **Ne dotikajte se glave za luknjanje, dokler se ne ohladi.** Glava za luknjanje se pri neprekinjenem delovanju močno segreje.

- ▶ **Pri delih na višini električno orodje pritrдите z ustreznimi sredstvi za zaščito pred padcem ter poskrbite, da pod delovnim območjem ni nikogar. Pri delih nad glavo nosite zaščito za glavo.** S tem lahko preprečite materialno škodo in telesne poškodbe, če električno orodje nepričakovano pade.
- ▶ **Če olje izteka, morate električno orodje vrniti proizvajalcu.**
- ▶ **Izogibajte se stiku z iztekajočim hidravličnim oljem.** Po stiku s kožo mesto temeljito izperite z milom in vodo. Po stiku z očmi jih takoj začnite izpirati z obilo vode in to ponavljajte vsaj 10 minut. Stik s hidravličnim oljem lahko povzroči draženje in alergijske reakcije.
- ▶ **Akumulatorsko baterijo odstranite šele, ko ste električno orodje varno zaustavili.**
- ▶ **Če je akumulatorska baterija poškodovana ali če jo nepravilno uporabljate, lahko iz nje uhajajo pare.** Akumulatorska baterija se lahko vname ali eksplozira. Poskrbite za dovod svežega zraka in se v primeru težav obrnite na zdravnika. Pare lahko povzročijo draženje dihalnih poti.
- ▶ **Akumulatorske baterije ne spreminjajte in ne odpirajte.** Obstaja nevarnost kratkega stika.
- ▶ **Koničasti predmeti, kot so na primer želbli ali izvijachi, in zunanji vplivi lahko poškodujejo akumulatorsko baterijo.** Pojavi se lahko kratek stik, zaradi katerega lahko akumulatorska baterija zgori, se osmudi, pregreje ali eksplozira.
- ▶ **Uporabljajte akumulatorsko baterijo samo v proizvajalčevih izdelkih.** Le tako je akumulatorska baterija zaščitena pred nevarno preobremenitvijo.



Akumulatorsko baterijo zaščitite pred vročino, npr. tudi pred neposredno sončno svetlobo, ognjem, umazanjem, vodo in vlago. Obstaja nevarnost eksplozije in kratkega stika.



OPOZORILO



Gumbne baterije hranite zunaj dosega otrok. Gumbne baterije so nevarne.

- ▶ **Gumbnih baterij ne smete nikoli pogoltniti ali vstavljati v druge telesne odprtine. Če sumite, da je nekdo pogoltnil gumbno baterijo ali jo vstavil v druge telesne odprtine, takoj poiščite zdravniško pomoč.** Zaužitje gumbne baterije lahko v 2 urah povzroči resne notranje razjede in smrt.

Opis izdelka in storitev



Preberite vsa varnostna opozorila in navodila. Neupoštevanje varnostnih opozoril in navodil lahko povzroči električni udar, požar in/ali hude poškodbe.

Upoštevajte slike na začetku navodil za uporabo.

Namen uporabe

Električno orodje je namenjeno za luknjanje kovinskih plošč.

Komponente na sliki

Oštevilčenje komponent na sliki se nanaša na shemo električnega orodja na strani s shemami.

- (1) Glava za luknjanje
- (2) Tipka za vrnitev v začetni položaj
- (3) Prikaz stanja
- (4) Vhod USB
- (5) Akumulatorska baterija^{a)}
- (6) Tipka za sprostitve akumulatorske baterije^{a)}
- (7) Delovna lučka
- (8) Ročaj (izolirana oprijemalna površina)
- (9) Tipka za vklop/izklop
- (10) Uvlečni sornik
- (11) Distančna puša
- (12) Matrica^{a)}
- (13) Pestič^{a)}

a) Ta pribor ne spada v standardni obseg dobave.

Tehnični podatki

Akumulatorski hidravlični perforator		GLH 18V-60
Kataloška številka		3 601 JPO 2..
Nazivna napetost	V ⁻⁻⁻	18
Najv. stiskalna sila	kN	60
Najv. debelina pločevine		
– Jeklo	mm	3
– Nerjavno jeklo	mm	2,5
Razpon vrtenja glave za luknjanje	°	360
Standard USB za električno orodje		USB 2.0
Kabel USB za prenos podatkov (na voljo v trgovinah)		USB Type-C ^{a)}
Teža ^{b)}	kg	2,2
Priporočena zunanja temperatura med polnjenjem	°C	0 ... +35
Dovoljena zunanja temperatura med delovanjem ^{c)}	°C	-10 ... +50
Dovoljena zunanja temperatura med shranjevanjem	°C	-20 ... +50
Združljive akumulatorske baterije		GBA18V... GBA 18V... ProCORE18V... EXPERT18V... EXBA18V... CORE18V...
Priporočeni polnilniki		GAL18... GAL 18...

Akumulatorski hidravlični perforator**GLH 18V-60**

GAL 36...
 GAL 12V/18...
 GAL 12V/18...
 GAX 18...
 EXAL 18...

- A) USB Type-C® in USB-C® sta blagovni znamki USB Implementers Forum.
- B) Brez akumulatorske baterije (teža akumulatorske baterije je na voljo na spletni strani www.bosch-professional.com)
- C) omejena zmogljivost pri temperaturah < 0 °C
- Vrednosti se lahko razlikujejo glede na izdelek in so odvisne od pogojev uporabe in okoljskih pogojev. Več informacij je na voljo na spletni strani www.bosch-professional.com/wac.

Podatki o hrupu/tresljajih

Merilne vrednosti hrupa so bile izračunane v skladu z **EN 62841-1**.

A-vrednotena raven zvočnega tlaka naprave je tipično manjša od 70 dB(A). Nivo hrupa pri delu lahko preseže navedene vrednosti. **Uporabite zaščito za sluh!**

Vrednosti tresljajev a_h (neprekinjeni tresljaji), p_f (tresljaji zaradi ponavljajočih se udarcev) in negotovost K so določene v skladu s standardom **EN 62841-1**.

$a_h = 0,4 \text{ m/s}^2$ ($K = 0,5 \text{ m/s}^2$), $p_f = 82 \text{ m/s}^2$ ($K = 9 \text{ m/s}^2$)

Vrednosti nivoja tresljajev in hrupa, podane v teh navodilih, so bile izmerjene v skladu s standardiziranim merilnim postopkom in se lahko uporabljajo za medsebojno primerjavo električnih orodij. Primerne so tudi za začasno oceno oddajanja tresljajev in hrupa.

Naveden nivo tresljajev in hrupa je določen na osnovi glavnih načinov uporabe električnega orodja. Pri uporabi orodja v drugačne namene, z drugačnimi nastavki ali pri nezadostnem vzdrževanju lahko nivo hrupa in tresljajev odstopa. To lahko obremenjenost s hrupom in tresljaji v celotnem obdobju uporabe občutno poveča.

Za natančnejšo oceno obremenjenosti s hrupom in tresljaji morate upoštevati tudi čas, ko je orodje izklopljeno, in čas, ko orodje deluje, vendar dejansko ni v uporabi. To lahko občutno zmanjša obremenjenost s hrupom in tresljaji, ki je razporejena na celotno obdobje uporabe.

Določite dodatne varnostne ukrepe za zaščito uporabnika pred vplivi tresljajev, npr. vzdrževanje električnega orodja in nastavkov, segrevanje rok, organizacija delovnih postopkov.

Akumulatorska baterija

Podjetje **Bosch** prodaja akumulatorska električna orodja tudi brez priložene akumulatorske baterije. Ali je v obseg dobave vključena tudi akumulatorska baterija, je navedeno na embalaži.

Polnjenje akumulatorske baterije

- **Uporabljajte samo polnilnike, ki so navedeni v tehničnih podatkih.** Samo ti polnilniki so usklajeni z litij-ionsko akumulatorsko baterijo, ki je nameščena v električnem orodju.

Opomba: litij-ionske akumulatorske baterije se zaradi mednarodnih transportnih predpisov dobavljajo delno napolnjene. Da zagotovite polno zmogljivost akumulatorske baterije, jo pred prvo uporabo popolnoma napolnite.

Namestitev akumulatorske baterije

Napolnjeno akumulatorsko baterijo vstavite v ležišče za akumulatorsko baterijo, da se zaskoči.

Odstranitev akumulatorske baterije

Akumulatorsko baterijo odstranite tako, da pritisnete tipko za sprostitev akumulatorske baterije in izvlečete akumulatorsko baterijo. **Pri tem ne uporabljajte sile.**

Akumulatorska baterija ima 2 ravni zapore, ki preprečujeta, da bi akumulatorska baterija ob nenamernem pritisku tipke za sprostitev akumulatorske baterije izpadla. Ko je akumulatorska baterija vstavljena v električno orodje, jo varuje vzmet.

Prikaz stanja napolnjenosti akumulatorske baterije

Opomba: nekatere vrste akumulatorskih baterij morda niso opremljene s prikazom stanja napolnjenosti.

Tri zelene LED-lučke prikaza stanja napolnjenosti akumulatorske baterije prikazujejo stanje napolnjenosti akumulatorske baterije. Iz varnostnih razlogov je stanje napolnjenosti mogoče prikazati le, ko je električno orodje izklopljeno.

Za prikaz stanja napolnjenosti pritisnite tipko  ali  na prikazu stanja napolnjenosti. To je mogoče tudi takrat, ko akumulatorska baterija ni vstavljena.

Če po pritisku tipke za prikaz stanja napolnjenosti LED-diode ne zasvetijo, je akumulatorska baterija okvarjena in jo je treba zamenjati.

Vrsta akumulatorske baterije GBA 18V... | GBA18V...

LED-dioda	Napolnjenost
3 zelene LED-diode neprekinjeno svetijo	60–100 %
2 zeleni LED-diodi neprekinjeno svetita	30–60 %
1 zelena LED-dioda neprekinjeno sveti	5–30 %
1 zelena LED-dioda utripa	0–5 %

Tip akumulatorske baterije ProCORE18V... | EXPERT18V... | EXBA18V... | CORE18V...

LED-dioda	Napolnjenost
5 zelenih LED-diod neprekinjeno sveti	80–100 %
4 zelene LED-diode neprekinjeno svetijo	60–80 %
3 zelene LED-diode neprekinjeno svetijo	40–60 %
2 zeleni LED-diodi neprekinjeno svetita	20–40 %

LED-dioda	Napolnjenost
1 zelena LED-dioda neprekinjeno sveti	5–20 %
1 zelena LED-dioda utripa	0–5 %

Zaznavanje nevarnosti za okvaro akumulatorske baterije

EXPERT18V... | EXBA18V...

LED-diode prikazov stanja napolnjenosti akumulatorske baterije lahko poleg stanja napolnjenosti akumulatorske baterije prikažejo tudi nevarnost za okvaro akumulatorske baterije.

Za aktivacijo funkcije pritisnite tipko za prikaz stanja napolnjenosti  in jo pridržite za 3 sekunde. Ko poteka analiza akumulatorske baterije, se diode na prikazu stanja napolnjenosti akumulatorske baterije zaporedoma prižigajo in ugašajo. Rezultat se prikaže na prikazu stanja napolnjenosti akumulatorske baterije.

 **1 LED-dioda:** akumulatorska baterija je izpostavljena veliki nevarnosti za okvaro.

Mogoče je, da sta zmogljivost in čas delovanja že zdaj manjši. Priporočamo, da akumulatorsko baterijo zamenjate.

 **5 LED-diod:** akumulatorska baterija je v dobrem stanju in je izpostavljena majhni nevarnosti za okvaro.

Upoštevanje: ocena nevarnosti za okvaro akumulatorske baterije prikaže le dve stanji in predstavlja poenostavljeno oceno stanja. Lahko ocenite, da je akumulatorska baterija v dobrem stanju ali da je izpostavljena veliki nevarnosti za okvaro. Stanje akumulatorske baterije ni prikazano v odstotkih.

Navodila za optimalno uporabo akumulatorske baterije

Akumulatorsko baterijo zavarujte pred vlago in vodo.

Akumulatorsko baterijo skladiščite samo v temperaturnem območju od –20 °C do 50 °C. Poleti ne dovolite, da bi akumulatorska baterija obležala v avtomobilu.

Prezračevalne reže akumulatorske baterije občasno očistite z mehkim, čistim in suhim čopičem.

Bistveno krajši čas delovanja po polnjenju pomeni, da je akumulatorska baterija izrabljena in da jo je treba zamenjati. Upoštevajte navodila za odstranjevanje.

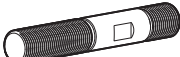
Namestitev

► **Pred kakršnimi koli deli na električnem orodju (npr. vzdrževanjem, menjavo nastavkov, itd.) akumulatorsko baterijo odstranite iz električnega orodja.** Pri nenamernem pritisku stikala za vklop/izklop obstaja nevarnost poškodb.

Namestitev nastavka za luknjanje (glejte slike A–B)

Komponente, ki jih želite namestiti, izberite glede na želeno velikost lukenj. Nastavki za luknjanje so predvideni za jekleno pločevino, debelo do 3 mm in pločevino iz nerjavnega jekla, debelo do 2,5 mm.

Informacije o priporočenih nastavkih za luknjanje **Bosch** so na voljo tudi na spletni strani www.bosch-pt.com ali na nalepkah v škatli XL-BOXX električnega orodja.

Velikost	Kataloška številka Komplet matrice + pestiča	Uporaba z uvlečnim sornikom (kataloška številka)	Pripadajoča distančna puša (kataloška številka)	Potrebna je distančna puša
M16	2 608 001 157	 (1 607 000 FL9)	 (1 607 000 FV9)	•
M20	2 608 001 158			•
M25	2 608 001 159			•
M32	2 608 001 160	 (1 607 000 FM0)	 (1 607 000 FM1)	•
M40	2 608 001 161			–
PG9	2 608 001 162	 (1 607 000 FL9)	 (1 607 000 FV9)	•
PG11	2 608 001 163			•
PG13	2 608 001 164			•
PG16	2 608 001 165			•
PG21	2 608 001 166	 (1 607 000 FM0)	 (1 607 000 FM1)	•
PG29	2 608 001 167			–
PG36	2 608 001 168			–

Priporočamo, da so uvlečni sornik, distančna puša, matrica in pestič čisti in v tehnično brezhibnem stanju.

Rahlo namastite navoj uvlečnega sornika **(10)** (mast: 1 615 430 010). Uvlečni sornik **(10)** privijte v glavo za luknjanje **(1)**.

Na uvlečni sornik namestite pripadajočo distančno pušo **(11)**, nato pa še matrico **(12)**.

Opomba: če uporabljate navoje manjšega premera, je obvezna uporaba pripadajoče distančne puše **(11)** (v skladu s podatki v preglednici). Njeno uporabo priporočamo tudi, če uporabljate navoje večjih premerov, saj se z uporabo distančne puše skrajša hod orodja, s tem pa tudi luknjanje.

Delovanje

Prpriprava na luknjanje in postopek luknjanja

- ▶ **Akumulatorsko baterijo vstavite v električno orodje šele tik pred začetkom luknjanja.** Če tipko za vklop/izklop **(9)** nenamerno pritisnete npr. med pripravo na luknjanje, se lahko poškodujete.
- ▶ **Električnega orodja ne uporabljajte, če vanj ni vstavljen nastavek za luknjanje ali če med matrico in pestičem in pločevine.**
- ▶ **Električnega orodja ne uporabljajte neprekinjeno dlje kot 15 min, da preprečite pregrevanje.**

Priprava na luknjanje:

- V pločevino zvrtajte luknjo, ki naj bo pribl. 0,5 mm večja od premera nameščenega uvlečnega sornika **(10)** (npr. s stopničastim svodom).
- Uvlečni sornik vstavite skozi zvrtno luknjo. Glavo za luknjanje **(1)** pri tem obrnite oziroma zavrtite tako, da matrica **(12)** plosko nalega na pločevino.
- Pestič **(13)**, ki ustreza nameščeni matrici, privijte na uvlečni sornik tako, da nalega na pločevino in pri tem rahlo pritiska na pločevino.

Postopek luknjanja:

- Akumulatorsko baterijo vstavite v električno orodje.
- Za **vklop in začetek postopka luknjanja** pritisnite tipko za vklop/izklop **(9)** in jo pridržite. Delovna lučka **(7)** zasveti.

- Če je električno orodje zaznalo, da je bilo luknjanje v celoti izvedeno, se uvlečni sornik **(10)** s pestičem **(13)** uvleče, **motor pa se samodejno izklopi**. Izpustite tipko za vklop/izklop **(9)**. Delovna lučka samodejno ugasne po pribl. 10 s.

Za ročno zaustavitev postopka luknjanja:

- Če želite postopek luknjanja predčasno prekiniti, med luknjanjem izpustite tipko za vklop/izklop **(9)**. Postopek luknjanja se prekine.
- Če postopek luknjanja predčasno prekinete ali če se uvlečni sornik **(10)** po zaključku postopka luknjanja ne uvleče samodejno, pritisnite tipko za vrnitev v začetni položaj **(2)**. Tipko za vrnitev v začetni položaj držite, dokler se uvlečni sornik ne vrne v začetni položaj.

Akumulatorsko baterijo odstranite iz električnega orodja. Pestič **(13)** odvijte z uvlečnega sornika in iz matrice **(12)** odstranite odpadni kos pločevine.

Če prikaz stanja **(3)** po koncu postopka luknjanja zasveti zeleno, je bil dosežen največji tlak, orodje pa je zaznalo, da je postopek luknjanja bil izveden v celoti. Če luknjanje ni uspelo, prikaz stanja zasveti rdeče.

Način mirovanja in zaščita pred ponovnim zagonom

Električno orodje iz varnostnih razlogov v naslednjih primerih preide v **način mirovanja**:

- če orodja ne uporabljate več kot 5 min po vstavitvi akumulatorske baterije ali zaključku zadnjega postopka luknjanja,
- če med vstavljanjem akumulatorske baterije pritisnete tipko za vklop/izklop **(9)** (kot **zaščita pred ponovnim zagonom**).

V tem primeru enkrat na kratko pritisnite tipko za vklop/izklop **(9)**, da vklopite električno orodje. Postopek luknjanja začnite kot običajno.

Prikazi stanja

Barva prikaza stanja (3)	Pomen	Ukrepi
Po vstavitvi akumulatorske baterije/prebuditvi iz načina mirovanja:		
Zelena (3 s)	Električno orodje je pripravljeno na uporabo	–
Rumena (3 s)	Do izteka intervala za vzdrževanje je še manj kot 1.000 delovnih ciklov.	Načrtujte vzdrževanje pri pooblaščenem serviserju Bosch .
Rdeča (3 s)	Stanje napolnjenosti akumulatorske baterije je prenizko za izvedbo postopka luknjanja	Napolnite/zamenjajte akumulatorsko baterijo
	Temperatura akumulatorske baterije in/ali električnega orodja je zunaj delovnega razpona	Počakajte, da temperatura akumulatorske baterije in električnega orodja doseže delovni razpon
Po zaključku postopka luknjanja/med delom:		
Zelena (3 s)	Postopek luknjanja je bil uspešen	–
Rumena (neprekinjeno sveti)	Interval za vzdrževanje, ki znaša 20.000 delovnih ciklov, je bil presežen	Električno orodje pošljite pooblaščenemu serviserju Bosch v vzdrževanje.

Barva prikaza stanja (3)	Pomen	Ukrepi
Rdeča (3 s)	Luknjanje ni bilo izvedeno v celoti, notranja napaka električnega orodja ali pa je temperatura električnega orodja zunaj delovnega razpona	1. Začnite nov postopek luknjanja 2. Odstranite in znova vstavite akumulatorsko baterijo 3. Počakajte, da temperatura električnega orodja doseže delovni razpon 4. Če ti ukrepi ne odpravijo težav, se obrnite na pooblaščenega serviserja Bosch.

Natančna sporočila o napaki si lahko ogledate tudi v programu **Bosch** Read-Out Software.

Ogled rezultatov dela s programom Bosch Read-Out Software

Električno orodje za vsako opravilo zabeleži podatke, kot sta tlak in trajanje opravlja. Za ogled teh podatkov potrebujete program **Bosch** Read-Out Software, ki si ga lahko brezplačno prenesete s spletne strani www.bosch-professional.com. Namestite program in upoštevajte navodila za namestitve. V programu si lahko ogledate tudi, koliko delovnih ciklov je še mogoče izvesti do naslednjega intervala za vzdrževanje.

Za prenos dnevniških vnosov odprite pokrov vhoda USB (4) in električno orodje povežite z računalnikom s pomočjo kabla USB Type-C®. Za dostop do dnevniških vnosov mora biti akumulatorska baterija vstavljen v električno orodje.

Vzdrževanje in servisiranje

Vzdrževanje in čiščenje

- ▶ **Pred kakršnimi koli deli na električnem orodju (npr. vzdrževanjem, menjavo nastavkov, itd.) akumulatorsko baterijo odstranite iz električnega orodja.** Pri nenamernem pritisku stikala za vklop/izklop obstaja nevarnost poškodb.
- ▶ **Skrbite za čistočo električnega orodja in prezračevalnih utorov, da lahko dobro in varno delate.**

Poskrbite, da je električno orodje vedno suho. Umazanijo obrišite z vlažno krpo.

Električno orodje shranjujte in prenašajte le v kovčku XL-BOXX.

Za čim daljšo varno uporabo električnega orodja je treba električno orodje po **20000** delovnih ciklih oziroma najpozneje po **4** letih poslati v vzdrževanje. Ko presežete **20000** delovnih ciklov, prikaz stanja (3) neprekinjeno sveti rumeno.

Električno orodje pošljite pooblaščenemu serviserju **Bosch** v vzdrževanje.

Opomba: če intervala za vzdrževanje ne upoštevate, garancija preneha veljati.

Rezil pestiča (13) ne brusite sami. Otopel pestič pravočasno zamenjajte, da zagotovite uspešno luknjanje.

Servisna služba in svetovanje uporabnikom

Slovensko

Tel.: +00 803931

Ob vseh vprašanjih in naročilih rezervnih delov nujno sporočite 10-mestno številko na tipski ploščici izdelka.

Odlaganje

Poskrbite za okolju prijazno recikliranje električnih orodij, akumulatorskih baterij, pribora in embalaže.

Električno orodje vsebuje olja in masti. Električno orodje zavrzite v skladu z veljavnimi zakoni in predpisi.



Električnih orodij in akumulatorskih/običajnih baterij ne smete odvreči med gospodinjske odpadke!

Zgolj za države Evropske unije:

Električno in elektronsko opremo, ki ni več uporabna, ter izrabljene baterije in akumulatorske baterije je treba zbirati ločeno in odstraniti na okolju prijazen način. Uporabite za to določene sisteme za zbiranje odpadkov. Zaradi nevarnih snovi, ki jih lahko vsebuje odpadni material, lahko nepravilno ravnanje z odpadnim materialom škoduje okolju in zdravju.

Vgrajene gumbne baterije lahko odstrani in zavrze le strokovno osebje.



1 607 000 FL9



1 607 000 FV9



1 607 000 FM0



1 607 000 FM1



1 607 000 FW0



1 615 430 010

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cmsis_device_g0, v1.4.3

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