



Professional HEAVY DUTY

GLH 18V-60

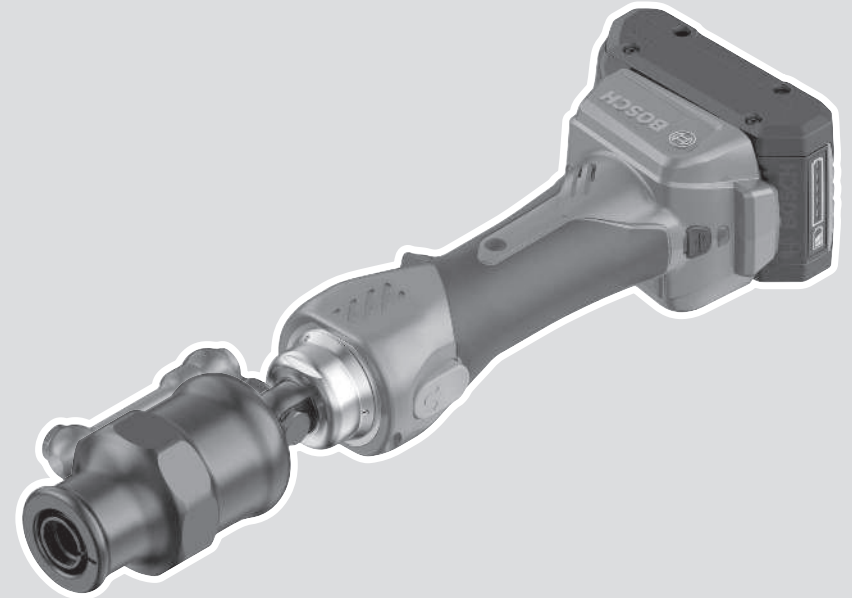
Robert Bosch Power Tools GmbH
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GERMANY

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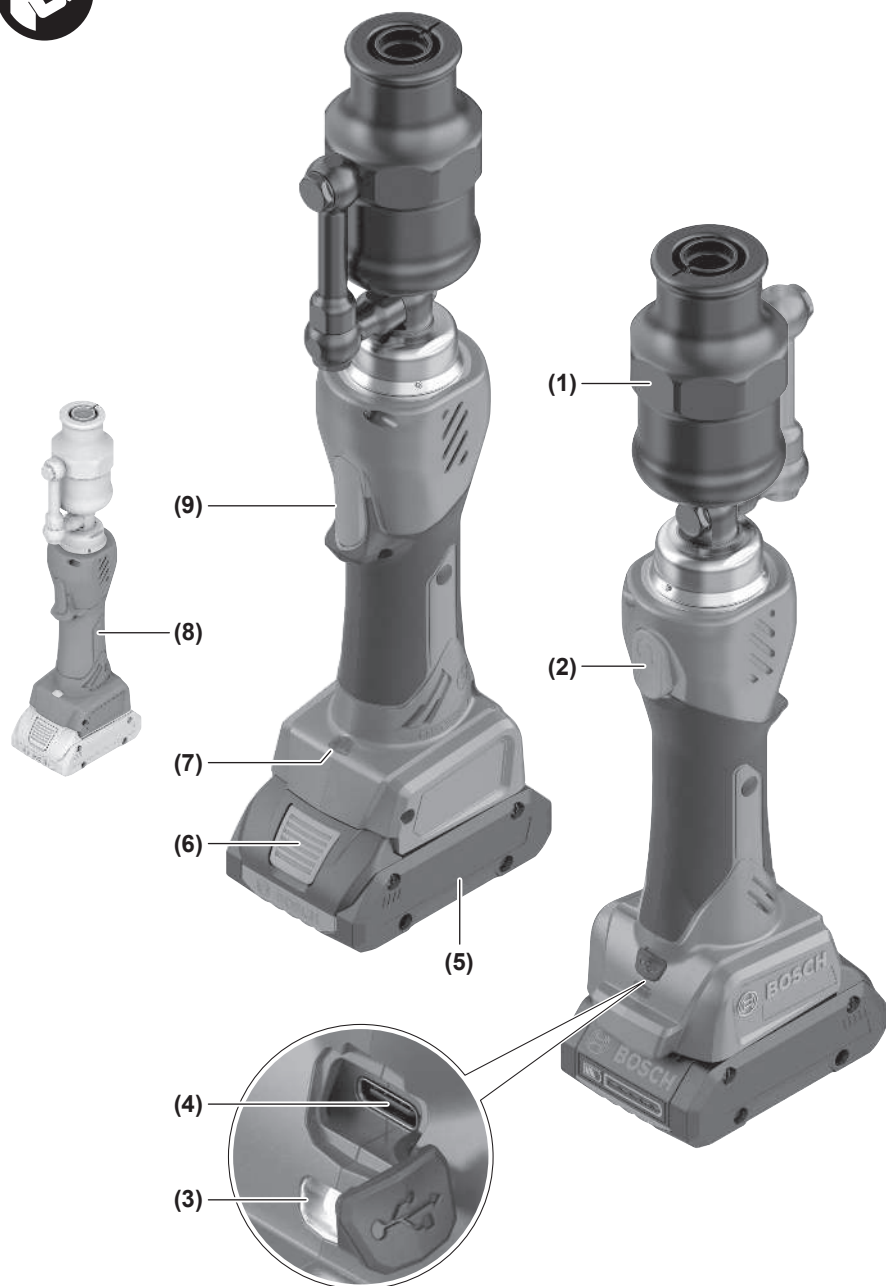


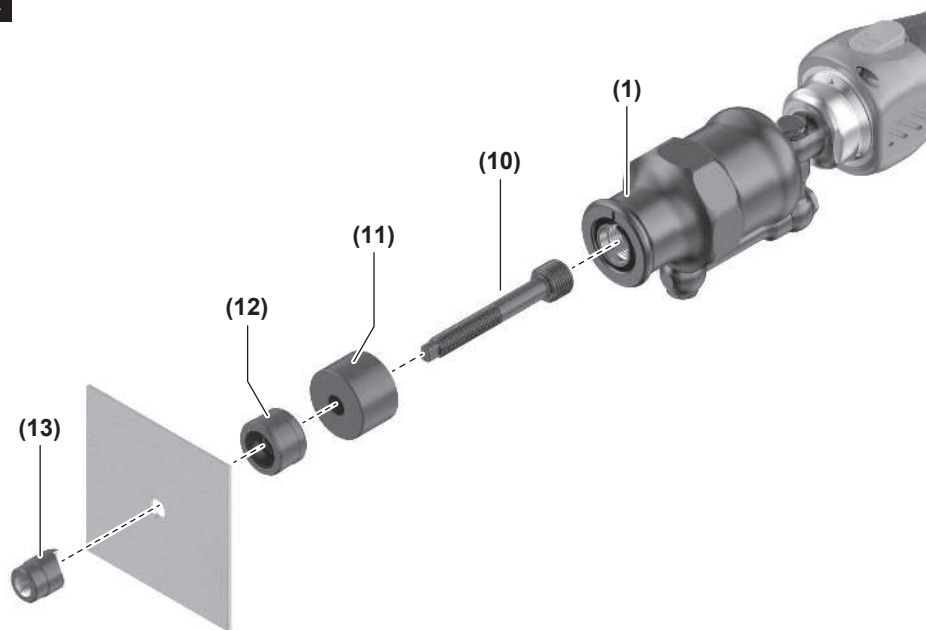
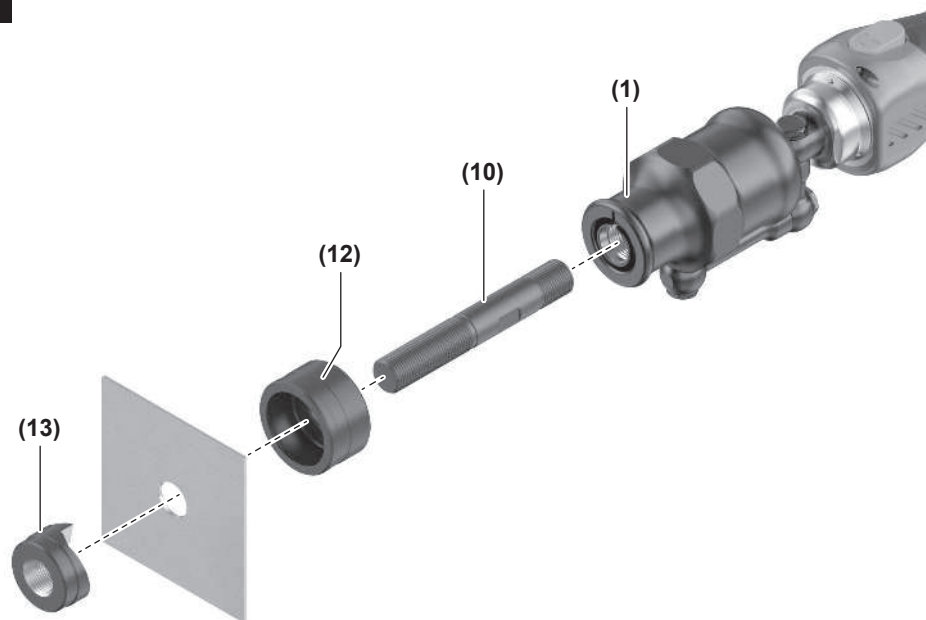
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Hrvatski	Stranica	5
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A**B**

Hrvatski

Sigurnosne napomene

Uobičajena sigurnosna upozorenja za električne alate

⚠ UPOZORENJE Pročitajte sva sigurnosna upozorenja, upute, ilustracije i

specifikacije koje se isporučuju s ovim električnim

alatom. Nepoštivanje dolje navedenih uputa može uzrokovati električni udar, požar i/ili ozbiljne ozljede.

Sačuvajte sve napomene o sigurnosti i upute za buduću primjenu.

Pojam „električni alat” u upozorenjima odnosi se na električne alate s priključkom na električnu mrežu (s mrežnim kabelom) i električne alate s napajanjem na akumulatorsku bateriju (bez mrežnog kabela).

Sigurnost na radnom mjestu

► Održavajte radno mjesto čistim i dobro osvijetljenim.

Nered ili neosvijetljeno radno mjesto mogu uzrokovati nezgode.

► Ne radite s električnim alatima u eksplozivnim atmosferama, primjerice onima u kojima ima zapaljivih tekućina, plinova ili prašine.

Električni alati proizvode iskre koje mogu zapaliti prašinu ili pare.

► Tijekom upotrebe električnog alata djecu i druge osobe držite podalje od mjesta rada. Svako odvratanje pozornosti može uzrokovati gubitak kontrole nad uređajem.

Električna sigurnost

► Električne alate držite dalje od kiše ili vlage.

Prodiranje vode u električni alat povećava opasnost od strujnog udara.

Sigurnost ljudi

► Budite pažljivi, pazite što činite i postupajte oprezno dok radite s električnim alatom. Nemojte upotrebljavati alat ako ste umorni ili pod utjecajem droga, alkohola ili lijekova.

Trenutak nepažnje kod upotrebe električnog alata može uzrokovati ozbiljne ozljede.

► Nosite osobnu zaštitnu opremu. Uvijek nosite zaštitne naočale.

Nošenje osobne zaštitne opreme, kao što je maska za prašinu, zaštitna obuća s protukliznim potplatom, zaštitna kaciga ili štitnik za sluh, ovisno od vrste i primjene električnog alata, smanjuje opasnost od ozljeda.

► Spriječite svako nehotično uključivanje uređaja. Prije nego što ćete utaknuti utikač u utičnicu i/ili staviti komplet baterija, provjerite je li električni alat isključen.

Ako kod nošenja električnog alata imate prst na prekidaču ili se uključen uređaj priključi na električno napajanje, to može dovesti do nezgoda.

- **Prije uključivanja električnog alata uklonite alate za podešavanje ili ključ.** Alat ili ključ koji se nalazi u rotirajućem dijelu uređaja može dovesti do nezgoda.
- **Izbjegavajte neuobičajene položaje tijela.** Zauzmite siguran i stabilan položaj tijela i u svakom trenutku održavajte ravnotežu. Na taj način možete električni alat bolje kontrolirati u neočekivanim situacijama.
- **Nosite prikladnu odjeću. Ne nosite široku odjeću ni nakit.** Kosu i odjeću držite dalje od pomičnih dijelova. Široku odjeću, dugu kosu ili nakit mogu zahvatiti pomični dijelovi.
- **Ako uređaji imaju priključak za usisavače za prašinu, provjerite jesu li isti priključeni i mogu li se ispravno upotrebljavati.** Upotreba sustava za usisavanje može smanjiti mogućnost nastanka opasnih situacija koje uzrokuje prašina.
- **Nemojte postati previše bezbrižni i zanemariti sigurnosne upute zato što alat često upotrebljavate i smatrate da ste ga dobro upoznali.** Samo jedan trenutak nepažnje dovoljan je za nastanak ozbiljnih ozljeda.

Upotreba i održavanje električnog alata

- **Ne preopterećujte uređaj.** Za svaki posao upotrebljavajte prikladan i za to predviđen električni alat. S odgovarajućim električnim alatom posao ćete obaviti lakše, brže i sigurnije.
- **Nemojte upotrebljavati električni alat čiji je prekidač neispravan.** Električni alat koji se više ne može uključivati i isključivati opasan je i mora se popraviti.
- **Alat prije podešavanja, izmjene pribora i odlaganja isključite iz izvora napajanja i/ili izvadite komplet baterije, ako se vadi iz uređaja.** Ovim mjerama opreza izbjeći će se nehotično uključivanje električnog alata.
- **Električni alat koji ne upotrebljavate spremite izvan doseg djece.** Rukovanje alatom zabranjeno je osobama koje nisu s njim upoznate ili koje nisu pročitale ove upute. Električni alati su opasni ako s njima rade neiskusne osobe.
- **Redovno održavajte električne alate i pribor.** Kontrolirajte rade li besprijekorno pomični dijelovi uređaja, jesu li zaglavljani, polomljeni ili oštećeni tako da to ugrožava daljnju upotrebu i rad električnog alata. Prije upotrebe oštećene dijelove treba popraviti. Loše održavani električni alati uzrok su mnogih nezgoda.
- **Rezne alate održavajte oštrim i čistim.** Pažljivo održavani rezni alati s oštrim oštricama manje će se zaglavljivati i lakše se s njima radi.
- **Električni alat, pribor, radne alate, itd. upotrebljavajte prema ovim uputama i na način kako je to propisano za određenu vrstu uređaja.** Pritom uzmite u obzir radne uvjete i radove koje treba izvršiti. Upotreba električnog alata za poslove izvan njegove predviđene upotrebe može dovesti do opasnih situacija.
- **Ručke i zahvatne površine održavajte suhima, čistima i pazite da na njih ne dospiju ulje ili mast.** Skliske ručke

i zahvatne površine onemogućuju sigurno rukovanje i alat se teško kontrolira u neočekivanim situacijama.

Upotreba i održavanje akumulatorskih alata

- ▶ **Akumulatorsku bateriju puniti isključivo punjačima koje preporučuje proizvođač.** Ako punjač predviđen za jednu određenu vrstu kompleta baterija rabite s drugim kompletom baterija, postoji opasnost od požara.
- ▶ **Električne alate upotrebljavajte isključivo s posebnim, namjenskim kompletima baterija.** Upotreba drugih kompleta baterija može dovesti do ozljeda i opasnosti od požara.
- ▶ **Komplete baterija dok ih ne upotrebljavate držite dalje od uredskih spajalica, kovanica, ključeva, čavala, vijaka ili drugih sitnih metalnih predmeta koji bi mogli uzrokovati premošćenje kontakata.** Kratki spoj između kontakata baterije može uzrokovati opekline ili požar.
- ▶ **Kod pogrešne primjene iz baterije može isticati tekućina.** Izbjegavajte kontakt s ovom tekućinom. Kod slučajnog kontakta zahvaćeno mjesto treba isprati vodom. Ako vam tekućina uđe u oči, zatražite pomoć liječnika. Tekućina istekla iz baterije može uzrokovati nadraženost kože i opekline.
- ▶ **Ne upotrebljavajte oštećene ili izmijenjene komplete baterija ni alate.** Oštećene ili izmijenjene baterije podložne su nepredvidivom ponašanju i mogu uzrokovati požar, eksploziju ili ozljede.
- ▶ **Držite alat i komplet baterija dalje od vatre i visokih temperatura.** Izlaganje vatri ili temperaturi višoj od 130 °C može uzrokovati eksploziju.
- ▶ **Poštujte sve upute za punjenje i komplet baterija i alat ne puniti pri temperaturama izvan vrijednosti koje su propisane i navedene u uputama.** Nepravilno punjenje ili punjenje pri temperaturama višim od propisanih može oštetiti bateriju i povećati opasnost od požara.

Servisiranje

- ▶ **Popravak električnog alata prepustite kvalificiranom osoblju ovlaštenog servisa i isključivo s originalnim rezervnim dijelovima.** Tako će biti zajamčen siguran rad s uređajem.
- ▶ **Nikada ne servisirajte oštećene komplete baterija.** Servisiranje kompleta baterija smiju obavljati isključivo proizvođači i ovlašteni serviseri.

Sigurnosne napomene za hidrauličke akumulatorske alate za štancanje rupa



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Nosite zaštitne naočale.



Nikada ne posežite u područje rada glave alata osim ako nije osigurano sigurno stanje mirovanja. Sigurno stanje mirovanja električnog alata osigurano je samo kada je alat za štancanje rupa potpuno otvoren i izvađena aku-baterija.

- ▶ **Električnim alatom smije rukovati samo obučeno stručno osoblje starije od 16 godina.** Time se smanjuje opasnost za osobe.
- ▶ **Električnim alatom smije rukovati samo jedna osoba. Udaljite druge osobe iz područja opasnosti električnog alata.** Time se smanjuje opasnost za osobe.
- ▶ **Upotrebljavajte električni alat samo ako je glava alata vidljiva i ako možete osigurati da u području opasnosti nema ekstremiteta.** Na taj ćete način izbjeći ozljede.
- ▶ **Zaustavite električni alat otpuštanjem tipke za uključivanje/isključivanje ako se tijekom rada pojavi opasnost za osobu ili alat.**
- ▶ **Mehaničkim povratnim hodom možete vratiti električni alat u početni položaj u slučajevima nužde i prije rada na električnom alatu. Prije odlaganja ili nakon završetka rada zaustavite električni alat bez tlaka.** Pritisnite povratnu tipku za kako biste isključili električni alat bez tlaka.
- ▶ **Samo ručno radite s električnim alatom. Tipka za uključivanje/isključivanje i povratna tipka moraju biti nadohvat ruke kako biste ih mogli pritisnuti u slučaju nužde.**
- ▶ **Zabranjeno je korištenje električnog alata u stacionarnom radu. Ne smijete ga odložiti za korištenje na podu niti uglaviti u steznu napravu.**
- ▶ **Prije početka rada provjerite da u području rada nema dijelova pod naponom. Poduzmite odgovarajuće mjere zaštite ako u blizini ima dijelova pod naponom.** Električni alat nije prikladan za radove na dijelovima pod naponom.
- ▶ **Izvadite aku-bateriju prije umetanja matrice za štancanje.** Ove mjere opreza sprječavaju nehotično pokretanje električnog alata.
- ▶ **Ne radite s električnim alatom u eksplozivnoj okolini.**
- ▶ **Ne otvarajte električni alat.** Tada više nije osiguran siguran rad i gubi se jamstveno pravo.
- ▶ **Kako biste spriječili pregrijavanje električnog alata, nemojte upotrebljavati električni alat u neprekidnom radu dulje od 15 minuta.** Električni alat nije konstruiran za neprekidni rad.
- ▶ **Ne dirajte glavu za štancanje dok se ne ohladi.** Glava za štancanje može tijekom neprekidnog rada postati vruća.
- ▶ **Kada radite na povišenom položaju, dovoljno osigurajte električni alat sredstvima za osiguranje od pada i pazite da se osobe ne zadržavaju ispod područja rada. Nosite zaštitu za glavu kada radite iznad glave.** Na taj način možete izbjeći materijalne štete i ozljede ako električni alat nenamjerno padne.
- ▶ **U slučaju gubitka ulja električni alat mora se poslati proizvođaču.**

- ▶ **Izbjegavajte kontakt s hidrauličkim uljem koje curi.** Nakon kontakta temeljito operite kožu sapunom i vodom. Nakon kontakta odmah ispirite oči s puno vode barem 10 minuta. Kontakt s hidrauličkim uljem može izazvati iritaciju i alergijske reakcije.
- ▶ **Izvadite aku-bateriju tek kada je električni alat sigurno zaustavljen.**
- ▶ **U slučaju oštećenja i nestručne uporabe aku-baterije mogu se pojaviti pare.** Aku-baterija može izgorjeti ili eksplodirati. Dovedite svježi zrak i u slučaju potrebe zatražite liječničku pomoć. Pare mogu nadražiti dišne puteve.
- ▶ **Ne mijenjajte i ne otvarajte aku-bateriju.** Postoji opasnost od kratkog spoja.
- ▶ **Oštrim predmetima kao što su npr. čavli, odvijači ili djelovanjem vanjske sile aku-baterija se može oštetiti.** Može doći do unutrašnjeg kratkog spoja i aku-baterija može izgorjeti, razviti dim, eksplodirati ili se pregrijati.
- ▶ **Aku-bateriju koristite samo u proizvodima proizvođača.** Samo na ovaj način je aku-baterija zaštićena od opasnog preopterećenja.



Zaštitite aku-bateriju od vrućine, npr. također od stalnog sunčevog zračenja, vatre, prljavštine, vode i vlage. Postoji opasnost od eksplozije i kratkog spoja.



UPOZORENJE



Pobrinite se da dugmasta baterija ne dospije u ruke djece. Dugmaste baterije su opasne.

- ▶ **Dugmaste baterije nikada se ne smiju progutati ili umetnuti u druge otvore u tijelu. Ako postoji sumnja da je dugmasta baterija progutana ili da je umetnuta u neki drugi otvor u tijelu, odmah potražite liječnika.** Gutanje dugmaste baterije može u roku od 2 sata uzrokovati ozbiljne unutarnje opekline i smrt.

Opis proizvoda i radova



Treba pročitati sve sigurnosne napomene i upute. Propusti do kojih može doći uslijed nepridržavanja sigurnosnih napomena i uputa mogu uzrokovati električni udar, požar i/ili teške ozljede.

Pridržavajte se slika na početku uputa za uporabu.

Namjenska uporaba

Električni alat je namijenjen za štancanje rupa u metalnom limu.

Prikazani dijelovi alata

Numeriranje prikazanih dijelova odnosi se na prikaz električnog alata na stranici sa slikama.

- (1) Glava za štancanje

- (2) Povratna tipka
- (3) Indikator statusa
- (4) USB utičnica
- (5) Aku-baterija^{a)}
- (6) Tipka za deblokadu aku-baterije^{a)}
- (7) Radno svjetlo
- (8) Ručka (izolirana površina zahvata)
- (9) Tipka za uključivanje/isključivanje
- (10) Potezni svornjak
- (11) Distantna čahura
- (12) Matrica^{a)}
- (13) Žig^{a)}

a) Ovaj pribor ne spada u standardni opseg isporuke.

Tehnički podaci

Hidraulički akumulatorski alat za štancanje rupa		GLH 18V-60
Kataloški broj		3 601 JPO 2..
Nazivni napon	V _{nom}	18
Maks. sila prešanja	kN	60
Maks. debljina lima		
– čelik	mm	3
– nehrđajući čelik	mm	2,5
Raspon vrtnje glave za štancanje	°	360
Standardni USB električnog alata		USB 2.0
USB kabel za prijenos podataka (standardni)		USB Type-C ^{a)}
Težina ^{b)}	kg	2,2
Preporučena temperatura okoline kod punjenja	°C	0 ... +35
Dopuštena temperatura okoline pri radu ^{c)}	°C	-10 ... +50
Dopuštena temperatura okoline kod skladištenja	°C	-20 ... +50
Kompatibilne aku-baterije		GBA18V... GBA 18V... ProCORE18V... EXPERT18V... EXBA18V... CORE18V...
Preporučeni punjači		GAL18... GAL 18... GAL 36... GAL12V/18... GAL 12V/18...

Hidraulički akumulatorski alat za štancanje rupa**GLH 18V-60**GAX 18...
EXAL18...

- A) USB Type-C® i USB-C® su trgovačke marke USB Implementers Forum.
- B) Bez aku-baterije (Težinu aku-baterije naći ćete na internetskoj stranici www.bosch-professional.com)
- C) ograničeni učinak pri temperaturama < 0 °C

Vrijednosti se mogu razlikovati ovisno o proizvodu i ovise o uvjetima primjene i okoline. Dodatne informacije na www.bosch-professional.com/wac.

Informacije o buci i vibracijama

Emisijske vrijednosti buke utvrđene sukladno **EN 62841-1**.

Razina zvučnog tlaka električnog alata prema ocjeni A je u pravilu manja od 70 dB(A). Razina buke pri radu može prelaziti navedene vrijednosti. **Nosite zaštitu za uši!**

Vrijednosti vibracija a_h (kontinuirane vibracije), p_f (naponljive udarne vibracije) i nesigurnost K utvrđene u skladu s normom **EN 62841-1**.

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

Razina titranja koja je navedena u ovim uputama i emisijska vrijednost buke izmjerene su sukladno normiranom postupku mjerenja te se mogu koristiti za međusobnu usporedbu električnih alata. Primjerene su i za privremenu procjenu emisije titranja i buke.

Navedena razina titranja i emisijska vrijednost buke predstavljaju glavne primjene električnog alata. Ako se ustvari električni alat koristi za druge primjene s radnim alatima koji odstupaju od navedenih ili se nedovoljno održavaju, razina titranja i emisijska vrijednost buke mogu odstupati. Na taj se način može osjetno povećati emisija titranja i buke tijekom čitavog vremenskog perioda rada. Za točnu procjenu emisija titranja i buke trebaju se uzeti u obzir i vremena, tijekom kojih je alat bio isključen ili je radio, ali se zapravo nije koristio. Na taj se način može osjetno smanjiti emisija titranja i buke tijekom čitavog vremenskog perioda rada.

Odredite dodatne sigurnosne mjere za zaštitu korisnika prije djelovanja titranja kao npr.: održavanje električnog alata i nastavaka, održavanje toplih ruku, organizacija tokova rada.

Aku-baterija

Bosch prodaje akumulatorske električne alate i bez aku-baterije. Ako je aku-baterija sadržana u opsegu isporuke vašeg električnog alata, možete je izvaditi iz ambalaže.

Punjenje aku-baterije

- **Koristite samo punjače navedene u tehničkim podacima.** Samo su ovi punjači prilagođeni litij-ionskoj aku-bateriji koja se koristi u vašem električnom alatu.

Napomena: Litij-ionske aku-baterije isporučuju se djelomično napunjene zbog međunarodnih propisa o prijevozu. Kako bi se zajamčio puni učinak aku-baterije, prije prve uporabe aku-bateriju napunite do kraja.

Umetanje aku-baterije

Umetnite napunjenu aku-bateriju u priхват aku-baterije sve dok se ne uglati.

Vađenje aku-baterije

Za vađenje aku-baterije pritisnite tipku za deblokadu aku-baterije i izvucite aku-bateriju. **Pritom ne primjenjujte silu.** Aku-baterija ima 2 stupnja blokiranja koji trebaju spriječiti da aku-baterija ispadne kod nehotičnog pritiska na tipku za deblokadu aku-baterije. Čim se aku-baterija stavi u električni alat, ona će se pomoću opruge zadržati u određenom položaju.

Pokazivač stanja napunjenosti aku-baterije

Napomena: Svaki tip aku-baterije nema pokazivač stanja napunjenosti.

Tri zelena LED pokazivača stanja napunjenosti aku-baterije pokazuju stanje napunjenosti aku-baterije. Upit o stanju napunjenosti iz sigurnosnih razloga moguć je samo u stanju mirovanja električnog alata.

Pritisnite tipku za prikaz stanja napunjenosti  ili  za prikaz stanja napunjenosti. To je također moguće i kod izvadene aku-baterije.

Ako nakon pritiska na tipku za prikaz stanja napunjenosti ne svijetli LED, aku-baterija je neispravna i mora se zamijeniti.

Tip aku-baterije GBA 18V... | GBA18V...



LED	Kapacitet
Stalno svijetli 3 × zelena	60–100 %
Stalno svijetli 2 × zelena	30–60 %
Stalno svijetli 1 × zelena	5–30 %
Treperi 1 × zelena	0–5 %

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



LED	Kapacitet
Stalno svijetli 5 × zelena	80–100 %
Stalno svijetli 4 × zelena	60–80 %
Stalno svijetli 3 × zelena	40–60 %
Stalno svijetli 2 × zelena	20–40 %
Stalno svijetli 1 × zelena	5–20 %
Treperi 1 × zelena	0–5 %

Detekcija rizika od kvara aku-baterije

EXPERT18V... | EXBA18V...

LED diode pokazivača stanja napunjenosti aku-baterije mogu osim stanja napunjenosti aku-baterije pokazati rizik od kvara aku-baterije.

Za aktiviranje funkcije pritisnite i držite pritisnutu tipku za prikaz stanja napunjenosti  3 sekunde. Treperenje pokazivača stanja napunjenosti aku-baterije signalizira analizu aku-baterije. Rezultat će se pokazati na pokazivaču stanja napunjenosti aku-baterije.

 **1 LED:** Aku-baterija ima veliki rizik od kvara.

Snaga i vrijeme rada mogu biti već smanjeni. Preporučuje se zamjena aku-baterije.

 **5 LED:** Aku-baterija je u dobrom stanju s malim rizikom od kvara.

Vodite računa o sljedećem: Procjena rizika od kvara aku-baterije funkcionira u dvije faze i nudi pojednostavljenu procjenu stanja. Aku-baterija je ocijenjena u dobrom stanju ili ima povećan rizik od kvara. Ne prikazuje se postotak stanja aku-baterije.

Napomene za optimalno rukovanje aku-baterijom

Zaštitite aku-bateriju od vlage i vode.

Aku-bateriju čuvajte samo u prostoriji u kojoj je raspon temperature od -20 °C do 50 °C. Npr. aku-bateriju ljeti na ostavljajte u automobilu.

Otvore za hlađenje aku-baterije redovito čistite mekim, čistim i suhim kistom.

Bitno skraćanje vremena rada nakon punjenja pokazuje da je aku-baterija istrošena i da je treba zamijeniti.

Pridrжавajte se uputa za zbrinjavanje u otpad.

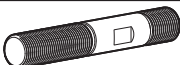
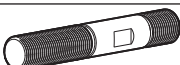
Montaža

► **Prije svih radova na električnom alatu (npr. održavanje, zamjena alata, itd.) aku-bateriju treba izvaditi iz električnog alata.** Kod nehotičnog aktiviranja prekidača za uključivanje/isključivanje postoji opasnost od ozljeda.

Montaža alata za štancanje (vidjeti slike A-B)

Odaberite dijelove koje treba montirati prema veličini željene rupe za štancanje. Alati za štancanje su predviđeni za čelični lim do debljine 3 mm i za lim od nehrđajućeg čelika do debljine 2,5 mm.

Informacije o preporučenim **Bosch** alatima za štancanje naći ćete i na internetskoj stranici www.bosch-pt.com ili na naljepnici u XL-BOX-u električnog alata.

Veličina	Kataloški broj Set matrica + žig	Uporaba s poteznim svornjakom (kataloški broj)	Pripadajuća distantna čahura (kataloški broj)	Potrebna distantna čahura
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			•
PG29	2 608 001 167	 (1 607 000 FM0)	 (1 607 000 FM1)	–
PG36	2 608 001 168			–

Provjerite je li potezni svornjak, distantna čahura, matrica i žig čisti i u tehnički besprijekornom stanju.

Malo podmažite navoj poteznog svornjaka **(10)** (tuba za mast: 1 615 430 010). Uvrnite potezni svornjak **(10)** u glavu za štancanje **(1)**.

Stavite prikladnu distantnu čahuru **(11)**, a zatim matricu **(12)** na potezni svornjak.

Napomena: Prikladna distantna čahura **(11)** mora se obavezno upotrebljavati (prema podacima u tablici) u slučaju manjih veličina navoja. Njihova se uporaba preporučuje i kod većih veličina navoja jer se zbog distantne

čahure skraćuje radnu udaljenost, a time i postupak štancanja.

Rad

Priprema za štancanje i postupak štancanja

► **Prije početka postupka štancanja stavite aku-bateriju u električni alat.** Ako nehotično pritisnete tipku za uključivanje/isključivanje **(9)**, npr. tijekom pripreme za štancanje, postoji opasnost od ozljeda.

- ▶ **Ne upotrebljavajte električni alat bez umetnutog alata za štancanje ili bez lima između matrice i žiga.**
- ▶ **Kako biste spriječili pregrijavanje električnog alata, nemojte upotrebljavati električni alat u neprekidnom radu dulje od 15 min.**

Priprema za štancanje:

- Izbušite rupu u limu koja je oko 0,5 mm veća od promjera montiranog poteznog svornjaka **(10)** (npr. stupnjevitim svrdlom).
- Utaknite potezni svornjak kroz izbušenu rupu. Okrenite ili zakrenite glavu za štancanje **(1)** tako da matrica **(12)** ravno naliježe na lim.
- Navrnite žig **(13)** koji odgovara montiranoj matrici toliko na potezni svornjak da laganim pritiskom naliježe na lim.

Postupak štancanja:

- Stavite aku-bateriju u električni alat.
- Za **uključivanje i početak postupka štancanja** pritisnite tipku za uključivanje/isključivanje **(9)** i držite pritisnutu. Radno svjetlo **(7)** zasvijetli.
- Ako je električni alat prepoznao potpuno štancanje, potezni svornjak **(10)** sa žigom **(13)** pomiče se unatrag i **motor će se isključiti automatski**. Otpustite tipku za uključivanje/isključivanje **(9)**. Radno svjetlo gasi se automatski nakon otprilike 10 s.

Ručni prekid postupka štancanja:

- Za prijevremeni prekid postupka štancanja otpustite tipku za uključivanje/isključivanje **(9)** tijekom postupka štancanja. Postupak štancanja se zaustavlja.

- Ako prijevremeno zaustavite postupak štancanja ili se potezni svornjak **(10)** automatski ne pomakne unatrag po završetku postupka štancanja, onda pritisnite povratnu tipku **(2)**. Držite pritisnutu povratnu tipku dok se potezni svornjak ne pomakne unatrag u početni položaj.

Izvadite aku-bateriju iz električnog alata. Odrvnite žig **(13)** s poteznog svornjaka i uklonite ostatak od štancanja iz matrice **(12)**.

Ako indikator statusa **(3)** svijetli zeleno na kraju postupka štancanja, postignut je maksimalan tlak prepoznato je potpuno štancanje. Ako štancanje nije uspjelo, indikator statusa svijetli crveno.

Stanje mirovanja i zaštita od ponovnog pokretanja

Električni alat se iz sigurnosnih razloga prebacuje u **stanje mirovanja** u sljedećim slučajevima:

- ako ga ne upotrebljavate dulje od 5 min nakon umetanja aku-baterije ili posljednjeg postupka štancanja
- ako pritisnete tipku za uključivanje/isključivanje **(9)** tijekom umetanja aku-baterije (kao **zaštita od ponovnog pokretanja**).

U tom slučaju jednom kratko pritisnite tipku za uključivanje/isključivanje **(9)** kako biste uključili električni alat. Zatim pokrenite postupak štancanja na uobičajen način.

Prikazi stanja

Boja indikatora statusa (3)	Značenje	Pomoć
Nakon umetanja aku-baterije/prelaska iz stanja mirovanja:		
Zelena (3 s)	Električni alat je spreman za uporabu	–
Žuta (3 s)	Do kraja intervala održavanja preostaje manje od 1000 radnih ciklusa.	Planirajte održavanje u ovlaštenom Bosch servisu.
Crvena (3 s)	Aku-baterija je preslaba za postupak štancanja	Napunite/zamijenite aku-bateriju
	Aku-baterija i/ili električni alat izvan raspona radne temperature	Ostavite aku-bateriju i električni alat da se temperiraju
Po završetku postupka štancanja/tijekom rada:		
Zelena (3 s)	Štancanje je uspjelo	–
Žuta (stalno)	Prekoračen je interval održavanja od 20000 radnih ciklusa	Pošaljite električni alat u ovlašteni Bosch servis radi održavanja.
Crvena (3 s)	Nepotpuni postupak štancanja, interna pogreška električnog alata ili je električni alat izvan raspona radne temperature	1. Ponovni pokrenite postupak štancanja 2. Izvadite i ponovno umetnite aku-bateriju 3. Ostavite električni alat da se temperira 4. Ako ove mjere ne pomažu, onda se obratite ovlaštenom Bosch servisu.

Točne poruke pogreške možete pozvati i putem **Bosch Read-Out Softwarea**.

Očitavanje radnih rezultata pomoću Bosch Read-Out Softwarea

Električni alat za svaki radni postupak pohranjuje podatke poput tlaka i vremena rada. Da biste očitali te podatke, potreban vam je **Bosch Read-Out Software** koji možete besplatno preuzeti na internetskoj stranici www.bosch-professional.com. Instalirajte softver i pridržavajte se uputa za instalaciju. U softveru također možete vidjeti koliko je još radnih ciklusa preostalo do sljedećeg intervala održavanja.

Za prijenos unosa u dnevnik otvorite poklopac USB utičnice **(4)** i povežite električni alat putem USB Type-C® kabela sa svojim računalom. Za pristup unosima u dnevnik mora biti umetnuta aku-baterija u električni alat.



Električni alat i aku-baterije/baterije ne bacajte u kućni otpad!

Samo za zemlje EU:

Električni i elektronski uređaji ili iskorišteni akumulatori/baterije koji više nisu uporabivi, moraju se odvojene sakupljati i zbrinuti na ekološki prihvatljiv način. Koristite predviđene sustave prikupljanja otpada. Nepravilno zbrinjavanje može biti štetno za okoliš i zdravlje zbog opasnih tvari koje može sadržavati.

Integriranu dugmastu bateriju smije vaditi samo stručno osoblje u svrhu zbrinjavanja.

Održavanje i servisiranje

Održavanje i čišćenje

- ▶ **Prije svih radova na električnom alatu (npr. održavanje, zamjena alata, itd.) aku-bateriju treba izvaditi iz električnog alata.** Kod nehotičnog aktiviranja prekidača za uključivanje/isključivanje postoji opasnost od ozljeda.
- ▶ **Održavajte električni alat i ventilacijske proreze čistima kako biste radili dobro i sigurno.**

Držite električni alat suhim. Prljavštinu obrišite samo vlažnom krpom.

Električni alat spremite i transportirajte samo u XL-BOXX-u.

Kako bi se što dulje osigurao siguran rad električnog alata, treba održavati električni alat nakon **20000** radnih ciklusa ili najkasnije nakon **4** godine. U slučaju prekoračenja **20000** radnih ciklusa indikator statusa **(3)** stalno svijetli žuto.

Pošaljite električni alat u ovlašteni **Bosch** servis radi održavanja.

Napomena: Ako se ne pridržavate intervala održavanja, gubi se jamstveno pravo.

Nemojte naoštритi oštrice žiga **(13)**. Pravovremeno zamijenite tupe žigove kako biste postigli dobar učinak štanjanja.

Servisna služba i savjeti o uporabi

Hrvatski

Tel.: +385 12 958 051

U slučaju upita ili naručivanja rezervnih dijelova, molimo vas obavezno navesti 10-znamenkasti kataloški broj s tipske pločice proizvoda.

Zbrinjavanje

Električne alate, aku-baterije, pribor i ambalažu treba dovesti na ekološki prihvatljivo recikliranje.

Električni alat sadrži ulja i masti. Zbrinite električni alat u skladu s važećim zakonima i smjernicama.



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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