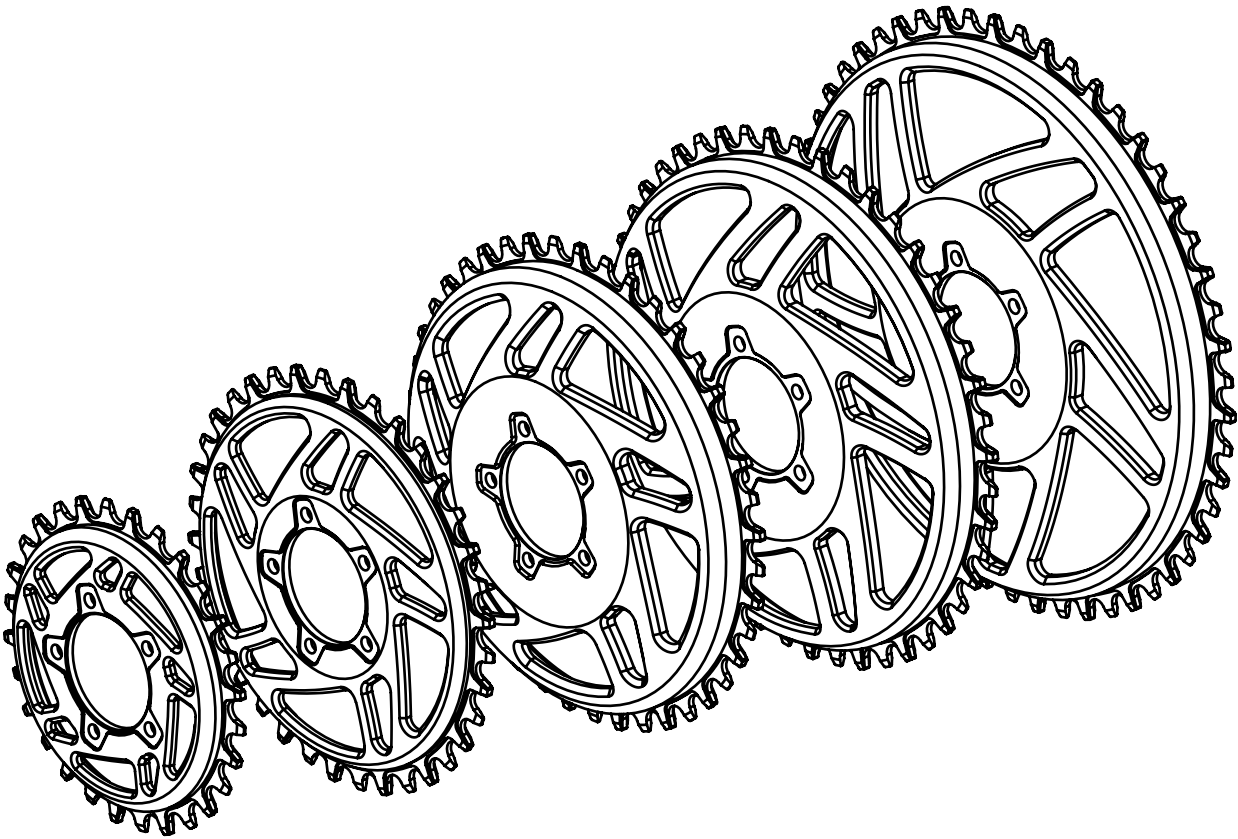


lekkie®

BLINGRING HD USER MANUAL



Doc V2.1

BLINGRING HD AND PRO HD

Compatible with Bafang BBSHD, M625, M325

The Lekkie BlingRing is the ultimate chainring for your Bafang BBSHD converted bike. BlingRings are optimized for the best possible chain line, with spacers available when needed. With sizes ranging from the 28T for hill climbing, up to the 52T for speed machines.

All aspects of performance and durability were considered during the design process with the utmost emphasis on quality and finish.

A narrow-wide tooth pattern reduces chain derailment and increases durability by thickening the teeth. 7075 Heat treated aluminum means we can get the weight to a fraction of the stock steel ring but retain the tooth hardness.

Choosing the right BlingRing

28T HD : Great for climbing, but may push your chainline wide due to the motor design. Often a good fit on fat bikes or cargo bikes when chainline isn't an issue.

36T HD : Like the 28T, a great climbing ring but chainline will be wider than an offset ring.

40T HD : Generally will give you the best chance of getting a decent chainline. The smallest possible diameter ring you can get with good maximum offset (towards the frame). Requires the Lekkie HD DriveCover and minor motor modification to achieve maximum offset.

42T HD : The most popular size BlingRing , Provides good offset ability in most bike frames, without the need for other parts.

46T HD : Getting faster, A great ring for a quick commuter, may need to be run wide to clear the wider chainstays on MTB frames.

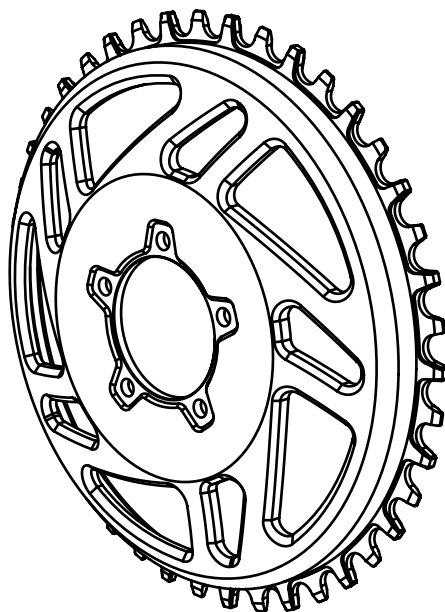
52T HD : A large diameter ring to get some serious speed.

HD chainrings will not fit the BBS01 or BBS02, and vice versa. The mounting hole and stud patterns are different.

INSTALL TIPS AND TRICKS

Includes

1x Lekkie BlingRing HD



Tools Required

- 4mm hex key

Additional Parts That May Be Required

- 2mm HD BlingRing Spacer/s
- M5 Caps screws >10mm, depending on install

Install

Chain Ring

- Always install a new chain when installing a Bling Ring
- Clean and lubricate your chain regularly.
- DO NOT use half links in the chain.
- Try to get the chainline to the centre of your cassette - see 'Chainline' for details.
- If you are spacing out your BlingRing by more than 2mm, use longer Chainring Screws (M5 Socket Cap Screws). Ensure there is minimum 6mm of thread engagement into the motor.
- Tighten the Chainring Screws to 6Nm
- Apply Loctite 243 to chainring screw threads.
- When installing, ensure there is minimum 1.5mm gap between the wide tooth and chainstay to allow flex.
- For rear suspension bikes, check chainring clearances (as above) at all ranges of suspension compression.

CRANKS

- Clean and lubricate the main axle with a multi-purpose grease before installing Cranks.
- Make sure left and right cranks are on the correct sides.
- Tighten crank bolt to 60Nm

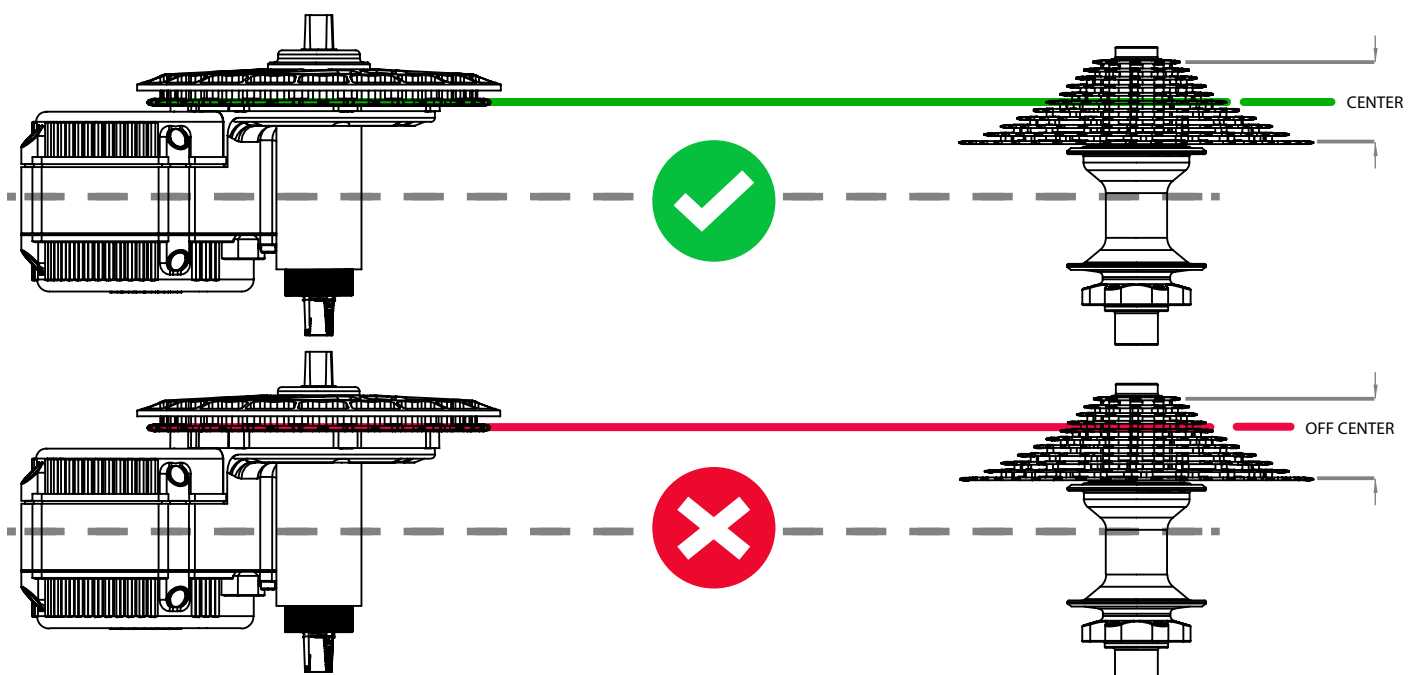
Chainline

When building your machine, you want to replicate the chainline that was on the bike before you converted it. The ideal the chainline aligns the chainring teeth with the centre of your cassette as shown below. A non-optimal chainline will increase wear on components.

The BlingRing is designed for optimal chainline, however you may need to adjust chainring offset using spacers to get that chainline perfectly suited to the unique geometry of your build.

A central chainline may not be possible on all frames. In this case do the best you can to get the chain central. It is important to check there is adequate chainstay clearance, this is often the main restriction.

Due to the design of the motor, a chainring with less than 40 teeth cannot have an offset design, meaning the chainline will be forced wider than the larger rings.



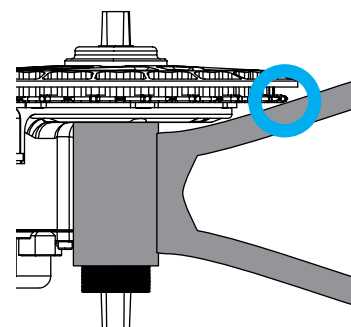
Chain Compatibility

The Lekkie BLINGRING HD is compatible with most chains up to 11-speed (known to work with some 12 speeds too). Some E-bike specific chains have been found to have oversize inner links which can interfere with chain meshing correctly on the teeth. If your chain is not sitting well on the chainring, try using a Shimano or KMC chain compatible with the number of gears. EG HG-X11 11 Speed. Note if the chain is tight on the teeth do not use.

If running an 11 or 12 speed system with a BBSHD we advise choosing the Pro series rings as these have been designed to work with the narrower chains.

Geometry

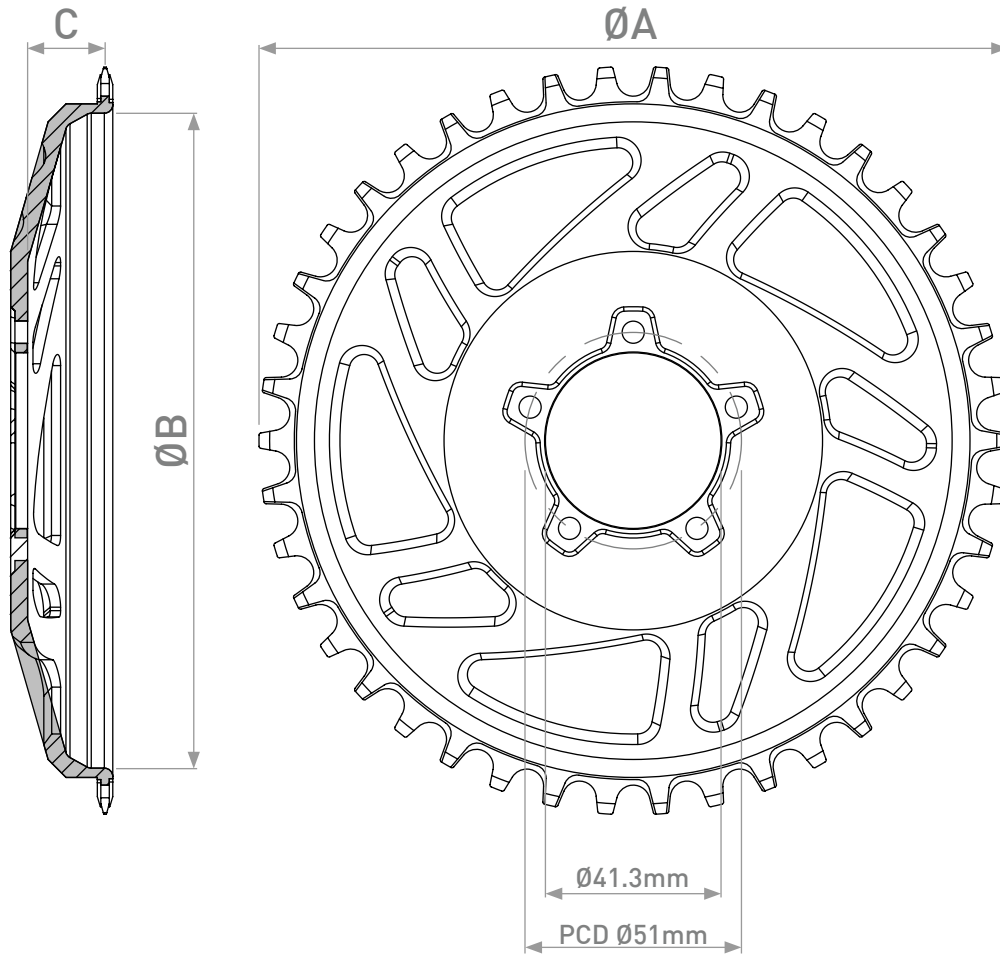
The 40T, 42T and 46T offset gives you the best possible chainline without interfering with the motor. However chainstay interference can be a big issue in building your bike. The larger the sprocket the closer the chainstay gets. So often this can be the limiting factor on chainline, you may need to use a spacer (or two) to clear the chainstay.



DIMENSIONS

The basic dimensions of the Bling Ring HD.

Note, 'C' is the inwards offset, measured from the mounting surface to the centreline of the tooth.



		A Outer Dia.	B Clearance	C Offset
BBSHD Series	BLING RING 28T HD	119	96	5.2
	BLING RING 36T HD	152	128	5.2
	BLING RING 40T HD	168	151	20.8
	BLING RING 42T HD	176	154	18.3
	BLING RING 46T HD	192	169	18.3
	BLING RING 52T HD	216	193	16.3
	STOCK HD 46T	195	154	17.5
PRO	BLING RING PRO 40T HD	168	151	22.25
	BLING RING PRO 42T HD	176	154	22.25

WARRANTY

At Lekkie we don't accept anything but the best workmanship and quality. If a part has slipped through our QC system and made it to your hands let us know and we will put it right.

If one of our products fails we want to know so we can make our products better. If you destroy a lekkie product in extreme use tell us. We can learn from this and sell you something to suit your needs.

If you are in any way unhappy with your Lekkie product get in touch so we can put it right.