

**X1 PRO Gen 2**  
**2021**





## Specification

### General

Rated Voltage	36-72 DCV (nominal) (10-20s Batteries)
Max. rpm (at Crank)	>300 rpm
Rated Power	3500W(52V) – 5000W(72V)
Max Torque (at Crank)	≥190 N.m
Overall efficiency	≥ 88%
Bottom bracket interface	Torque sensor version (Square taper) New Cadence sensor version (BB30)
Color	Anodized Black
Weight (Motor and controller only)	3.5 kg
Total weight with crankset and BB (Torque sensor version will be lighter)	<5kg
Bracket Materials	7075-T6
Crank Arm	7075-T6 165mm, 170mm
Q Factor	190mm, 208mm (Fat Bike)
Compatibility	BSA Bike frames and Modern Bike Frames
Bike Chainring included	(11/53 option) 32T Bike Chainring, (11/63 option) 38T Bike Chainring, (12/72 option) 42T Bike Chainring

### Accessories

E-Brake Cut-off	Magnetic sensor for oil brake
Wiring	Waterproof wire (Julet connector)
Display	Color round display with BLE
Throttle	Thumb Throttle / Half Twist Throttle
PAS sensor	36 poles PAS for ISIS splined BB

### Gearbox

First-stage	1:6 hardened steel planetary
Second-stage	219H Chain
Overall reduction ratio from motor to crank	1:28.9 (11/53T) 1:34.4 (11/63T) 1:36 (12/72T)

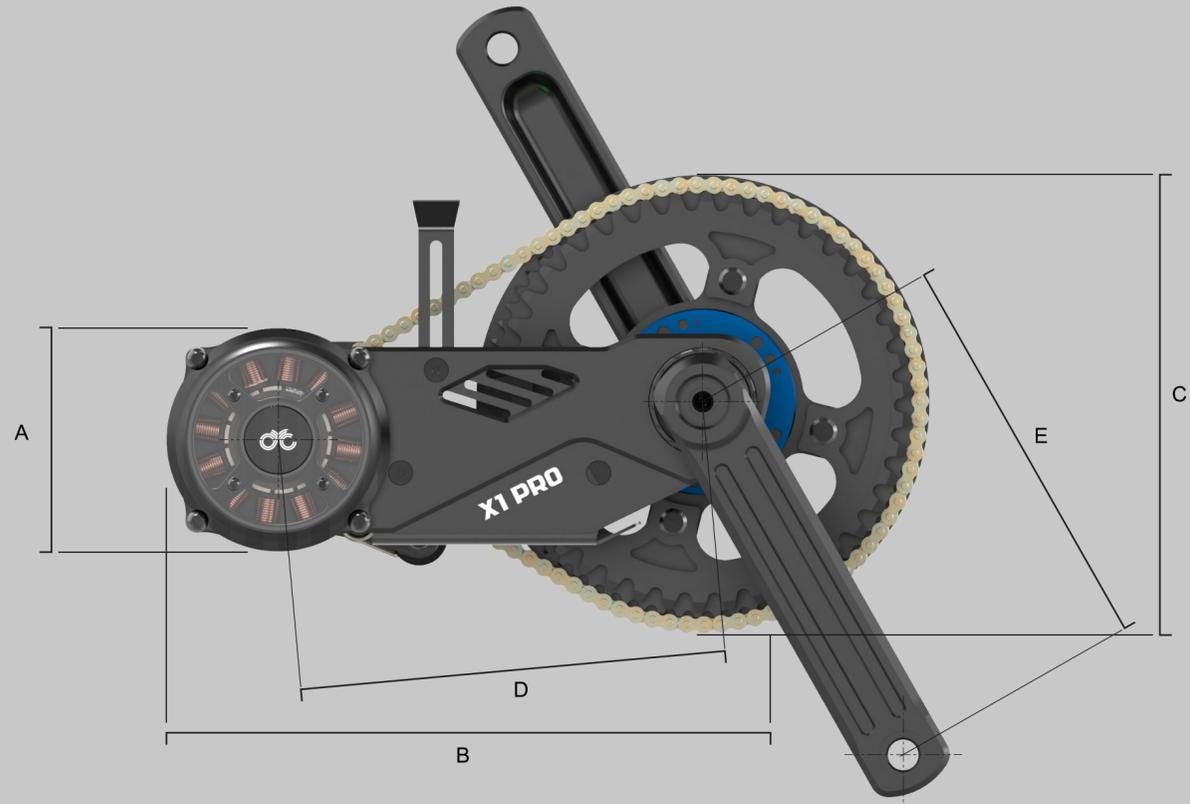
### Motor

Motor type	In-runner
Stator O.D.	80 mm
Stator I.D.	46.4 mm
Thickness	40 mm
Stator lamination	0.2 mm
Magnet	N45SH (>150°C)
Wiring	0.7 mm <sup>2</sup>
Efficiency	≥ 93%
Maximum RPM	≥ 12000 rpm
Rated Torque	≥ 5N.M.
Transparent cover	Tempered Glass / Colored Aluminum Plate
Epoxy sealed	Black Epoxy Potted

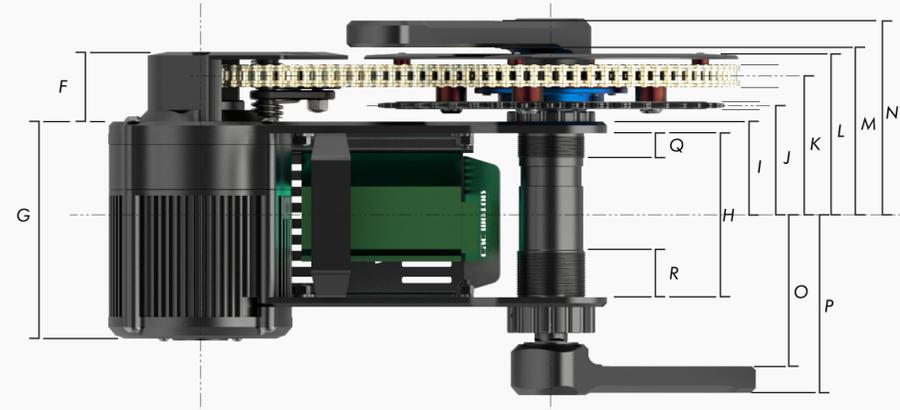
### Chainring Sizes

Designed with three different chainring sizes for users to choose from, the options are aimed at providing the preferred ground clearance of your choice, so that users no longer need to worry about the chainring hitting the ground. The different chainrings also alters the overall reduction ratio slightly

# Dimension



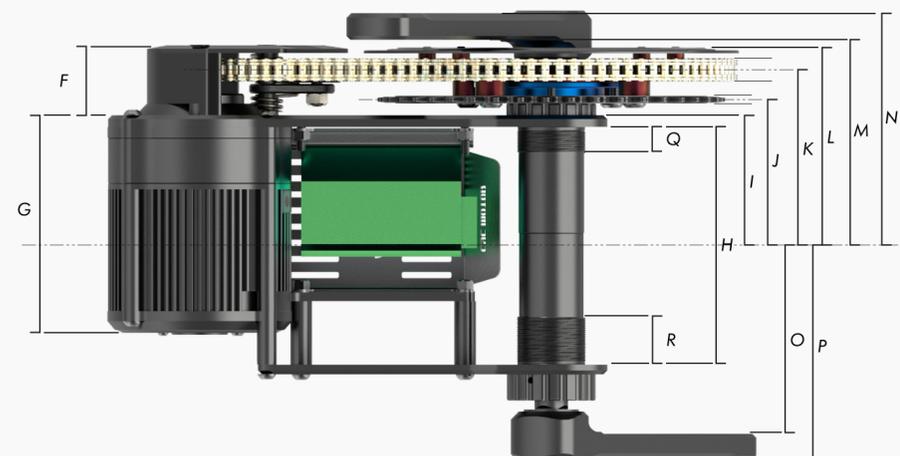
BB83 version



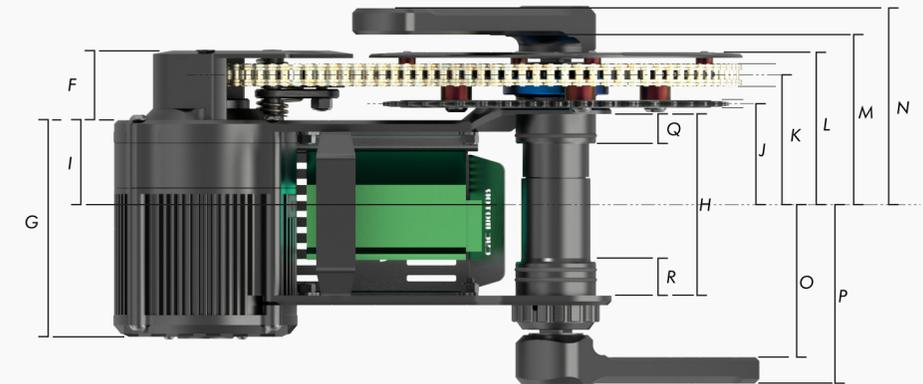
BB100 version



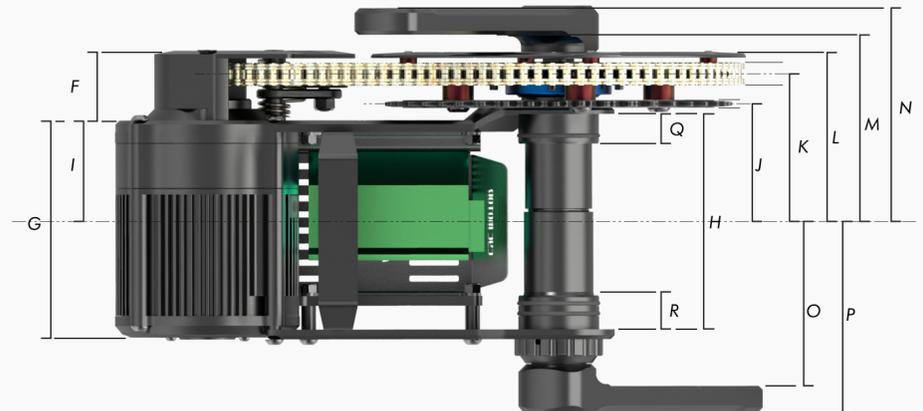
BB120 version



BB92 version (Pressfit)



BB109 version (Pressfit)



A	94mm				
B	253mm				
C	140 mm / 165 mm / 190 mm				
D	178.6mm				
E	170mm				
F	35.4	35.4	35.4	35.4	35.4
G	110	110	110	110	110
H	83	92	100	109	120
I	47.5	43	56	51.5	66
J	55.7	51.2	63.9	59.7	73.9
K	70.7	66.2	78.9	74.7	88.9
L	82	77.5	90.2	86	100.2
M	85	86.2	94	94.7	104
N	98.6	99.8	107.6	108.3	117.6
O	76.4	77.2	85.9	83.2	94.9
P	90	90.8	99.5	96.8	108.5
Q	12.5	15	12.5	15	12.5
R	24	18.9	24	18.9	24