



EIGHTY^{ev}

INNOVATION IN MOTION

B12 Specification

Component	Spec	Advantages
Frame Spec.	One piece TIG welded frameset, Aircraft grade Chromoly 4130, forged rear dropouts, fully sealed 6061 T6 aluminium battery casing, powder coated paint finish, design patented.	The B12 frame set is made by adopting motorcycle frame materials & production techniques to create a highly resilient & durable one piece frame, that is simple & aesthetic to the eye. Once matched with our unique board, the frame offers unmatched combination of strength, safety, comfort. The proprietary steering geometry keeps steering responsive & intuitive at all speeds, giving the urban warrior the confidence to deal with the challenges of riding in congested city environment, while ensuring a high fun factor to every ride, on open roads or weaving in & out of heavy traffic.

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Fork Spec.	Aircraft grade Chromoly 4130 fork blade & steerer tube, forged front drop out & fork crown, one strut design, 12mm tempered axle, design patented.	Matched to the frame design, the B12 fork is actually a strut design that maximises strength by using a forged drop out & crown. The fork also features a Chromoly steerer tube, keep strength high & reducing weight to a minimum. The front wheel is connected to the fork by a 12mm tempered axle similar to types used in 125cc motorized scooters.
Board	Maple 7 ply board reinforced carbon upper	Our Board uses a high strength maple ply that features a carbon layer to reinforce the top layer, reducing the wear & tear, keeping resonance & road buzz from the riders feet.
Motor	Aikema SW100 250 W Motor (Custom configured)	Working directly with the engineers at Aikema, our development team has customized the motor to achieve a unrivaled balance between torque & power delivery, resulting in a balanced set up offering performance, reliability for every riding style.
Controller	Aikema sine wave controller 18A 48V (Custom configured)	As with the motor, the standard Aikema controller has been tweaked to ensure the ultimate riding experience while

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		keeping the range of the scooter to a maximum for each power mode.
Battery	39 Cell (Panasonic) Aircraft grade battery pack, 20A BMS (waterproof) 48V 9.6Ah	The Battery Pack is specially configured to match the custom Aikema set up, as a safety factor the battery management system is waterproofed & has a built in thermal fuse to prevent over charging. The battery uses 39 high quality Panasonic cells, ensuring more than 1000 charging cycles & minimum cell degradation.
Throttle display	Aikema System Compatible Display & Throttle unit with 3 Power modes, Eco, City, Sport	The B12 Throttle with Integrated Compact Display can show the rider all of the relevant travel information, it's compact design keeps the H/bar clean & streamlined, the throttle response is intuitive, making for a comfortable, highly controllable feel to the B12 no matter what power setting you chose.
Front wheel	3 Spoke Magnesium Alloy Cast Wheel, Japanese sealed bearings	The front wheel is produced using a high pressure injection moulding process, using a Magnesium alloy this method of manufacture guarantees high strength to weight ratio

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		with a high quality surface finish.
Brakeset	Tektro Hydraulic Dual Piston calipers, matching Tektro brake levers with motor cut out, 140mm front disc, 160mm rear disc, 10.9 steel fittings	High performance hydraulic brakes are a must on a high performance scooter, we use dual piston self adjusting Tektro front & rear brakes on the B12, eliminate the need for brake adjustment until brake pad replacement is required. High modulation & matched braking power balance between front & rear brakes is achieved by using 140mm rotor in the front & 160mm rotor for the rear.
Folding Stem Steerer	Forged Folding Stem Mechanism Aluminium 6061 T6, tempered adjustable locking tooth with safety lock mech., Promax 31.8 mm Forged Alu. 6061 T6 H/bar Stem	Rider confidence is much improved by using a high strength & stiffness folding stem/steerer assembly, manufactured by using an advanced hollow forging technology without any secondary welding, in addition the locking mechanism is upgraded with heat treated steel locking tooth, ensuring the durability & strength of the steering mechanism over time.
H\bar	Alu. 8Tev H\bar 31.8 mm Risebar, width 58.5 cm - Optional Carbon H/bar	Standard H\bar is a butted Aluminium 6061 T6 with a 1.5cm rise & slight back sweep to optimize rider comfort.

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		H\bar is upgradable to a super light weight carbon fibre with the same dimensions & geometry
Front Light	Integrated Front LED light	A high power LED light is integrated into H\bar stem, which can be controlled from the display unit on the H\bar.
Rear Light	Integrated Rear LED light	Integrated into the rear fender is a high visibility LED rear light that can be controlled from the display unit on the H\bar
Tires	12 inch Nylon Reinforced 203/53 Pneumatic Tires, Max inflation 40 PSI	High quality nylon reinforced tires with puncture protection offer great performance in wet or dry conditions.
Tubes	12 inch Butyl 203/53 Inner Tubes	High quality butyl inner tubes with contoured metal valve stem.
Grips	Ergonomic 8 Tev Grips	Ergonomic grips help to isolate impacts & vibration from long periods of riding.
Fenders	Proprietary front & rear 8Tev fender design	Fenders are especially designed to protect the rider from wheel splash, while providing a aesthetically aligned design theme with the B12 frame.