



Manufacturing.

The main handle grip is formed using a 3 part injection moulding process. The internal tube is moulded from a polypropylene. Later the exterior textured rubber grip is moulded. Finally the colour breaks are moulded from a softer silicone rubber material.

Cost.

The Handle Flash is priced between £20 – 30 due to the complexity of the materials & cost of machining involved. Although the design has been tightly packed to save cost the engineering of parts, materials involved & high running costs mean they must be accounted for especially with ordinary handle grips being priced within this bracket.

Handle Flash Exploded.

In an exploded view, you can see a breakdown of the entire design & the complexity of the design. The majority of the parts are made from an injection moulded Polypropylene material. The steel components are cast using polished steel forming a strong bond onto the bicycle handle frame.



- 1 4 x Tablet Power Cells
- 2 Steel 5mm Screws
- 3 Polypropylene Battery Component
- 4 Elastomer Silicone Sleeve
- 5 Acrylic Amber Lenses
- 6 Acrylic LED PCB
- 7 PCB Button
- 8 3 Part Rubber Handle Grip
- 9 Steel Support Ring
- 10 Steel Locking Nut

Components/Fitting/Tolerances..

The general tolerance for each part within this assembly is 0.02mm. This is applicable due to many parts being injection moulded allowing space for expansion & slight shrinkage due to the nature of the materials at high temperatures. Parts such as the PCB, 5mm screws & support nut will be available from a supplier.

