

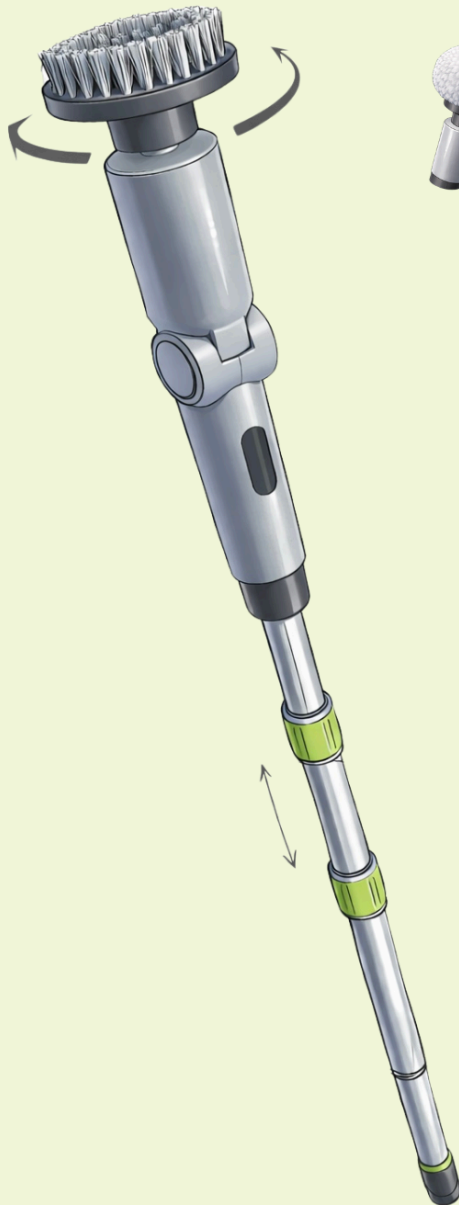
ELECTRIC REPLACEABLE BRUSH – “ERB”

What is ERB?

- ERB, an electric telescoping brush, offers an efficient and low-strain solution for cleaning chalk off the most frequently used bouldering holds.

What is the Opportunity?

- Chalk buildup on bouldering holds reduces friction, compromising performance and safety.
- Current chalk cleaning solutions induce excessive physical strain on the user.

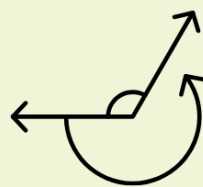
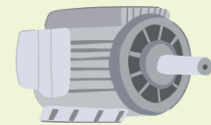


Exchangeable Heads

- 5 custom brush head shapes designed to clean the most common hold types (jugs, crimps, slopers, pinches, pockets)
3/5 types depicted

Electric Motor

- Provides automated rotation of brush head to allow for increased cleaning effectiveness

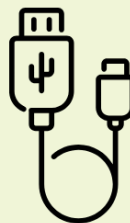


Adjustable angles

- 4 different settings to ensure holds from all angles are able to be reached

Telescopic Stick

- Extendable stick that can reach up to 4 meters, ensuring the holds at the top of the climbing wall can be cleaned



Charging

- Type-C charging, 5000mAh, 120 minutes working time, and an LED digital display that shows the speed and remaining battery level

Key Performance

- Chalk Removal: Improves from inconsistent manual cleaning to >90% removal, providing more reliable grip restoration
- Safety: Maintains safe ground-based operation, avoiding additional hazards on climbing mats
- Speed: Reduces cleaning to <5 seconds per hold, enabling effective climb-to-climb use

Next Steps

- Develop a fully functional prototype of the device
- Test a range of brush head designs to determine the most effective configurations
- Reduce the number of interchangeable components while maintaining performance
- Conduct user testing in a real gym environment to validate effectiveness and usability