

GripHeat by Vaultwork

Power. Warmth. Grip. Reinvented.

Overview

GripHeat is the world’s first modular heated pipe-wrench sleeve, engineered to bring comfort and performance to the harshest worksites. Built for professionals who brave the cold, it transforms any standard pipe wrench into a temperature-controlled, ergonomic tool that delivers warmth, safety, and reliability in one compact system.

Whether tightening fittings on a frozen rooftop or working through a Manitoba winter, GripHeat keeps your hands warm, your focus sharp, and your tools ready.

Core Features

- **Universal Fit** — Retrofitted for standard 24-inch aluminum and steel pipe-wrench handles.
- **Precision Heating System** — 12 V / 10 W flexible silicone heater integrated around a machined aluminum core.
- **Rechargeable Power** — 3S 11.1 V lithium-ion battery pack with DAOKI 3S 10 A BMS for protection and stability.
- **Smart Thermal Safety** — Automatic 60 °C thermal fuse prevents overheating and extends product life.
- **Weather-Resistant Grip** — Platinum-cured 3.5 mm silicone shell with moisture-sealed internal electronics.
- **LED Control Interface** — Illuminated push-button power switch with indicator and rear USB-C charging port.

Technical Specifications

Category	Specification
Power System	3S Li-ion 11.1 V (2600 mAh cells)
Heating Output	10 W / 12 V
Surface Temperature	40 – 50 °C under load
Thermal Protection	60 °C N/C auto cut-off
Enclosure	Platinum-cured silicone (3.5 mm wall)
Charging	USB-C PD 12.6 V or 12.6 V wall adapter
Runtime	1 – 2 hours continuous operation
Weight	~240 g assembled

Performance & Advantages

- Keeps metal tools comfortably warm in freezing temperatures.
- Reduces frostbite risk and condensation-related slippage.
- Compatible with leading tool brands (Ridgid, Milwaukee, DeWalt).
- Improves ergonomics and grip comfort for long-term use.
- Swappable, rechargeable core enables seamless all-day operation.

Market Position

Target Users: Industrial trades, HVAC, plumbing, mechanical, and field technicians.
Product Status: Functional prototype — ready for tooling and mold production.
Manufacturing Method: Two-part silicone molding, CNC-machined aluminum core, internal 3S assembly.
Estimated Retail Price: \$69 – \$89 USD.

Estimated Production Cost: \$22 – \$28 USD (at 1K volume).

Brand & Contact

Company: Vaultwork Technologies

Product: GripHeat

Location: Winnipeg, MB • Canada

Contact: Connor Shidel — Product Development

Email: connorshidel@gmail.com