

# SOROTO®

HARD WORKING SINCE 1986

## SMARTCUTTER

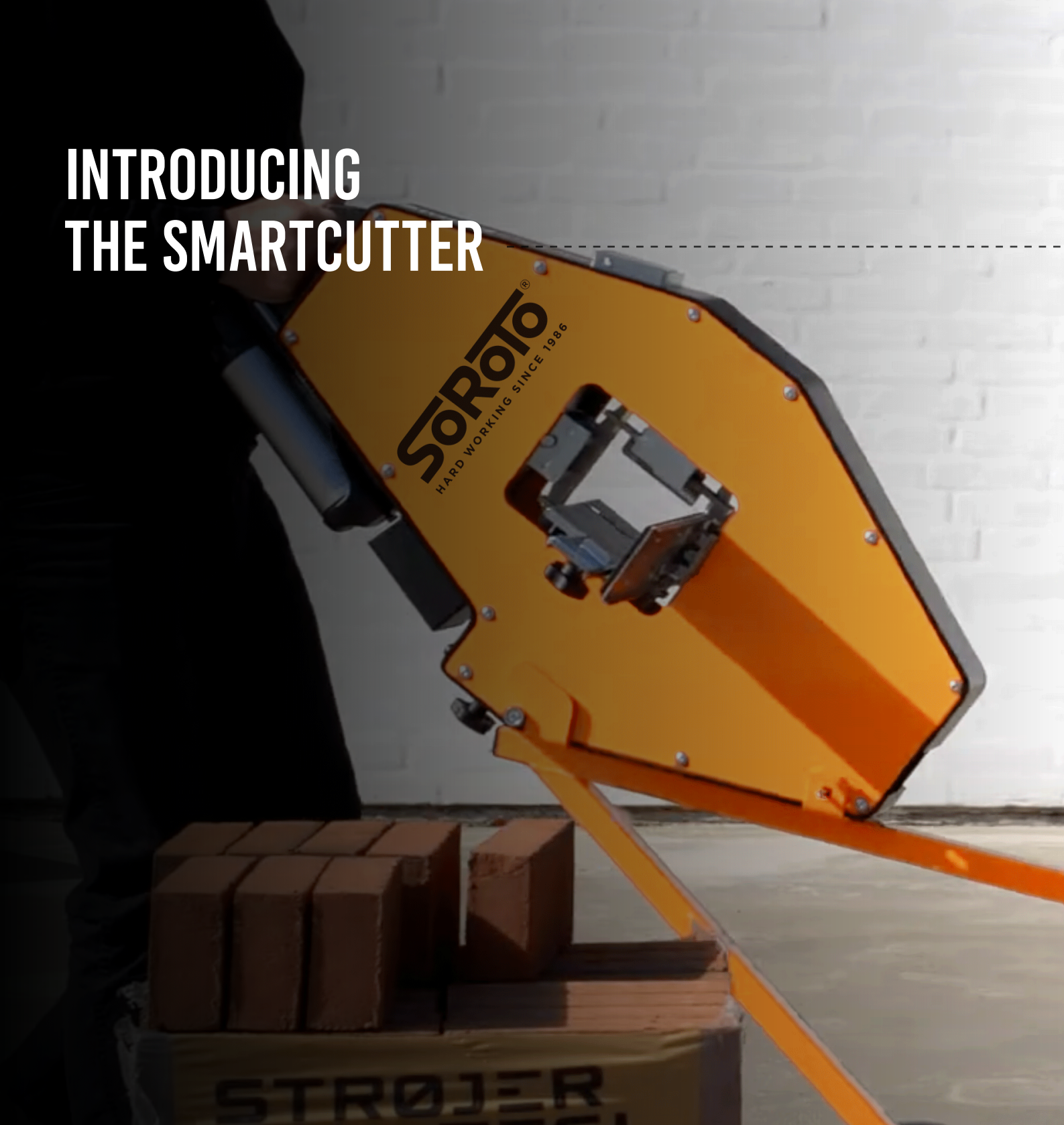
AUTOMATE BRICK CUTTING FOR EASIER & HEALTHIER WORKDAYS



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# INTRODUCING THE SMARTCUTTER



At SoRoTo, our mission is to create **healthier work environments for masons.** Traditional brick cutting involves manual, repetitive motions that place significant strain on the body, particularly on the arms, shoulders, and back. We wanted to change that. The SmartCutter was **designed to address these physical challenges,** ensuring that masons no longer have to endure the toll of manual brick cutting.

Developed through a **PhD research project** that studied the harmful effects of repetitive strain in the construction industry, the SmartCutter is a **patented,** battery-powered tool that automates the brick-cutting process. By eliminating the need for intense manual labor, it allows for precise and efficient cuts, reducing strain and preventing long-term injuries.



# CUTTING UP TO 500 BRICKS PER CHARGE

The SmartCutter features a motorized cutting mechanism that can handle up to **500 bricks per charge**, making it the go-to solution for masonry professionals who seek to **increase productivity with less product and time waste**, while protecting their well-being.

Designed specifically for brick cutting, it combines innovative technology with an

intuitive user interface, ensuring that even the most challenging tasks are completed with ease and accuracy.

## BE ORIGINAL – BUY ORIGINAL

# SMART SOLUTIONS, SMARTER DESIGN

The SmartCutter's innovative design is crafted to make brick cutting faster, easier, and less physically demanding.

With SmartCutter's patented cutting system, it automates the process **by returning the blade automatically to the last used setting for next cut**, saving you valuable time and minimizing manual effort.

The versatility extends beyond its cutting efficiency. It offers three flexible mounting options:

- 1. Freestanding stand for stability**  
Provides stability and flexibility, ideal for stationary setups on construction sites.
- 2. High wheelbarrow-mounted stand**  
Designed for easy mobility on wheelbarrow and to collect leftover brick pieces, ensuring a clean work area.
- 3. Low wheelbarrow-mounted stand**  
Offers an alternative mounting option on wheelbarrow for quick transport and to collect leftover brick pieces, ensuring a clean work area.

Whether you're tackling high-capacity projects or managing detailed, smaller tasks, the SmartCutter adapts seamlessly to any environment, ensuring optimal productivity with minimal setup and adjustment time.

## 3 PERFECT MOUNTING OPTIONS FOR QUICK ADJUSTMENTS ON THE MOVE.

1



2



3



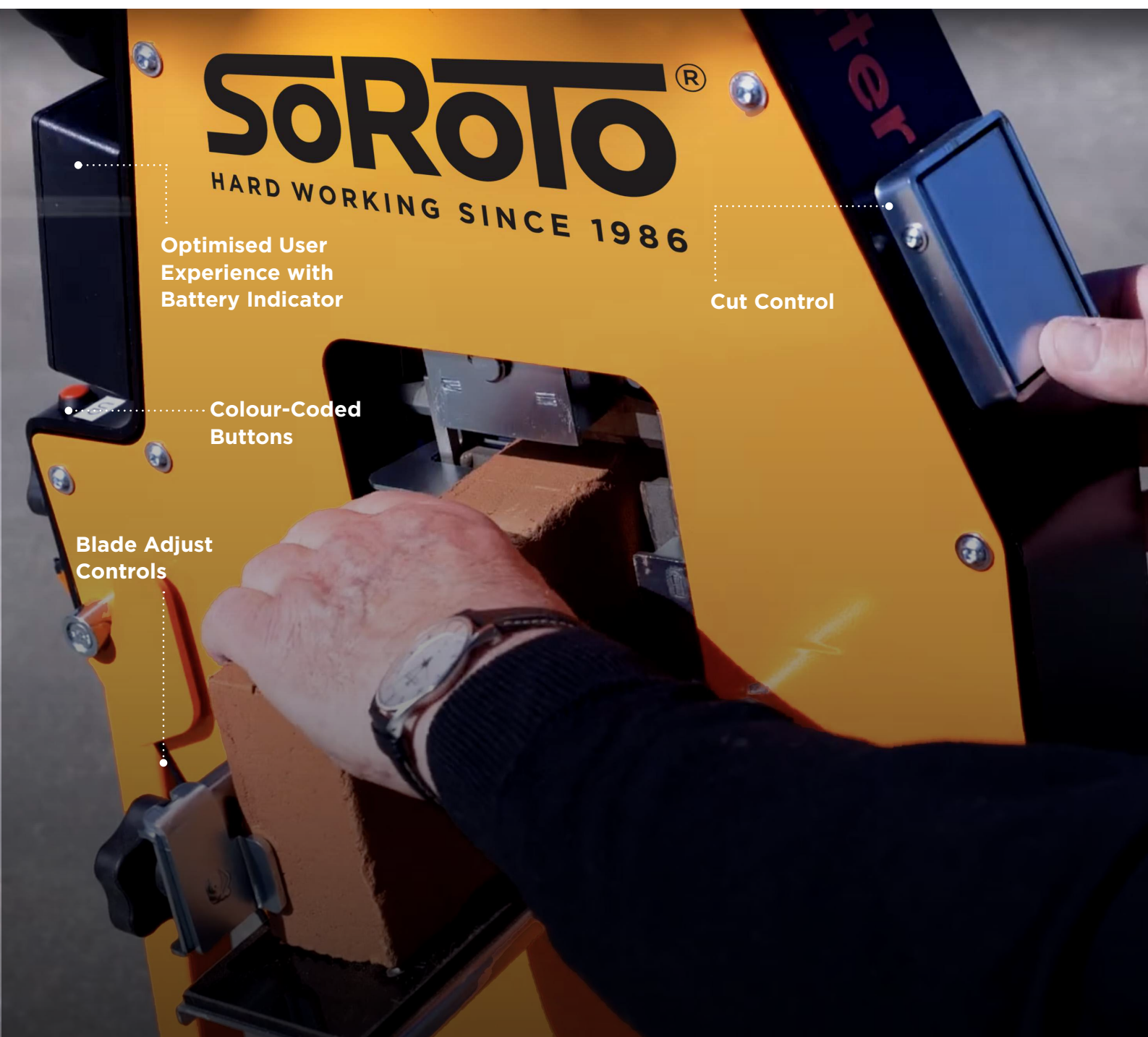
# SIMPLE CONTROLS, BIG IMPACT

Don't let its sophisticated engineering fool you—**SmartCutter is remarkably easy to use.**

The intuitive user interface puts control right at your fingertips, with color-coded buttons that simplify even the most complex brick-cutting tasks. Adjusting the blade positioning is as simple as pressing the clearly marked

red and green buttons, and the battery indicator ensures you're never caught off guard with a low charge.

Designed for both seasoned professionals and newcomers, SmartCutter's interface ensures that everyone can operate it effortlessly, **reducing the learning curve and maximizing work efficiency right from the start.**



# BUILT FOR TODAY, READY FOR TOMORROW

In today's masonry industry, tools must adapt to meet changing demands and challenges. **The SmartCutter is the result of an extensive PhD research study conducted at Aalborg University**, initiated by the "Danish National Research Center for the Working Environment". Developed in close collaboration with "Danish Work Unions" and masons from the Danish firm JORTON A/S, the SmartCutter was designed to specifically address the physical strain associated with traditional brick cutting.

During the research project, masons were equipped with sensors and cameras, allowing researchers to monitor the stress placed

on their muscles and joints throughout a workday. **The findings highlighted that brick cutting is a particularly taxing task in the construction industry.**

In response, the SmartCutter was developed with direct input from the masons, ensuring that it not only reduces physical strain but also meets the real-world needs of those using it. Whether working with dense or softer bricks, the SmartCutter **delivers precise, reliable cutting every time** – ensuring less material and time waste. It's not just a tool—it's an investment in long-term health and productivity for masonry professionals.




**IT'S MORE THAN JUST A TOOL**  
**IT'S AN INVESTMENT IN LONG-TERM**  
**PRODUCTIVITY AND SAFETY.**

# SAVE TIME, BOOST EFFICIENCY

Time is valuable, and the SmartCutter is designed to maximize both efficiency and productivity.

Equipped with a high-performance Li-Ion battery, it powers through up to **500 brick cuts per charge**, ensuring you stay productive throughout the workday. When it's time to recharge, the quick **2-hour charging cycle** minimizes downtime, keeping your projects moving smoothly without unnecessary delays.

The SmartCutter's **low-maintenance design** means you spend less time on servicing and repairs, allowing you to focus on what matters—getting the job done. With fewer mechanical components and a robust build, the SmartCutter delivers **consistent, reliable performance** while keeping operational costs in check. It's built to be your dependable partner on every project.



**2 HOUR  
CHARGING CYCLE**



# COMFORT MEETS PRODUCTIVITY

**The SmartCutter is designed to increase productivity while ensuring the well-being of masons.** Eliminating the need for repetitive, physically demanding manual cuts, this motorized tool reduces strain on your arms and shoulders, helping to minimize fatigue and prevent long-term injuries. Weighing just 24 kg (without the stand), the SmartCutter is lightweight, making it easy to transport when you need to load it onto a van or move it onto a wheelbarrow-mounted stand.



The ergonomic handles provide comfort and control during transport, allowing you to maneuver the SmartCutter efficiently when setting it up on-site. Whether you're working on large construction sites or smaller-scale projects, the SmartCutter adapts seamlessly to your workflow, enhancing efficiency while reducing physical strain.

**EASY HANDLING**

**WEIGHT IS ONLY 24 KG**

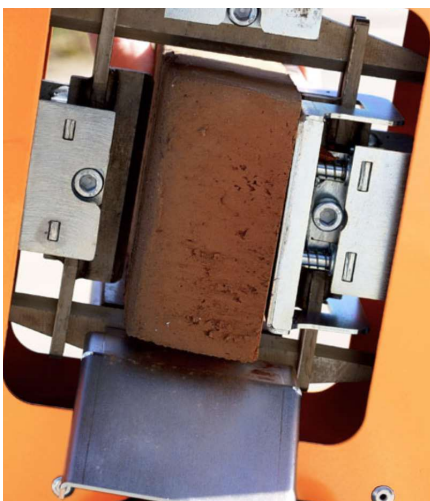




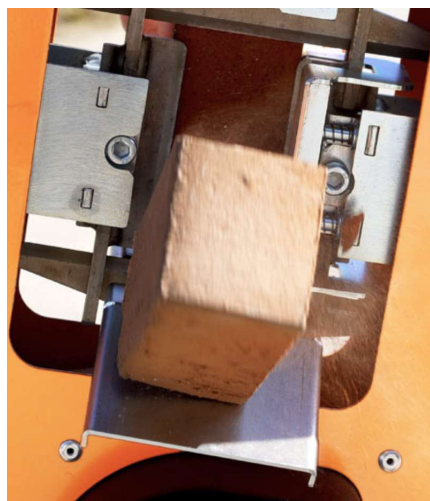
## GREEN CUTTING, CLEAN FUTURE

At SoRoTo, sustainability is built into the very design of the SmartCutter. Its **lightweight construction** ensures that the amount of material used during production is kept to a minimum, reducing the overall environmental footprint. Additionally, the SmartCutter is **designed for longevity**; spare parts are readily available and easy to replace, extending the machine's life and minimizing the need for complete replacements.

The SmartCutter's precision engineering delivers accurate cuts every time, **minimizing material waste**. By ensuring that each brick is cut to the exact specification, the SmartCutter helps reduce the number of discarded pieces, saving resources and promoting efficient use of materials on every project.



The brick is placed



The SmartCutter is adjusted to the desired size of the brick



The brick is cut with a press of the Brick Cut control



# WORK SAFE, STAY SAFE

**Safety is essential on any job site, and SmartCutter has been designed with this in mind.** The automatic blade retraction system moves the cutting blades back to a safe position after each use, reducing the risk of accidents during operation.

Additionally, the SmartCutter's automated cutting process minimizes the need for

physical exertion, significantly lowering the risk of strain-related injuries common with manual brick cutting. Built with the safety and well-being of every user as a priority, the SmartCutter not only enhances productivity but also ensures that craftsmen can work confidently and securely, day in and day out.

## **IN CASE OF EMERGENCIES:**

**THE EASILY ACCESSIBLE EMERGENCY STOP BUTTON LET'S USERS HALT THE MACHINE IMMEDIATELY.**



# READY FOR SMART WORKING

**Whatever the task, SmartCutter is designed to adapt.** Whether you're tackling small, intricate projects or large-scale construction, this tool's lightweight, portable design makes it easy to move and set up wherever you need it.

The versatile mounting options—from freestanding setups to wheelbarrow-mounted stands—give you the **flexibility to work in any environment**, while the adjustable blades allow for precise cutting across a range of stone sizes and types.



**Height:** 810 mm

**Width:** 510 mm

**Length:** 300 mm

**Net Weight:** 24 kg

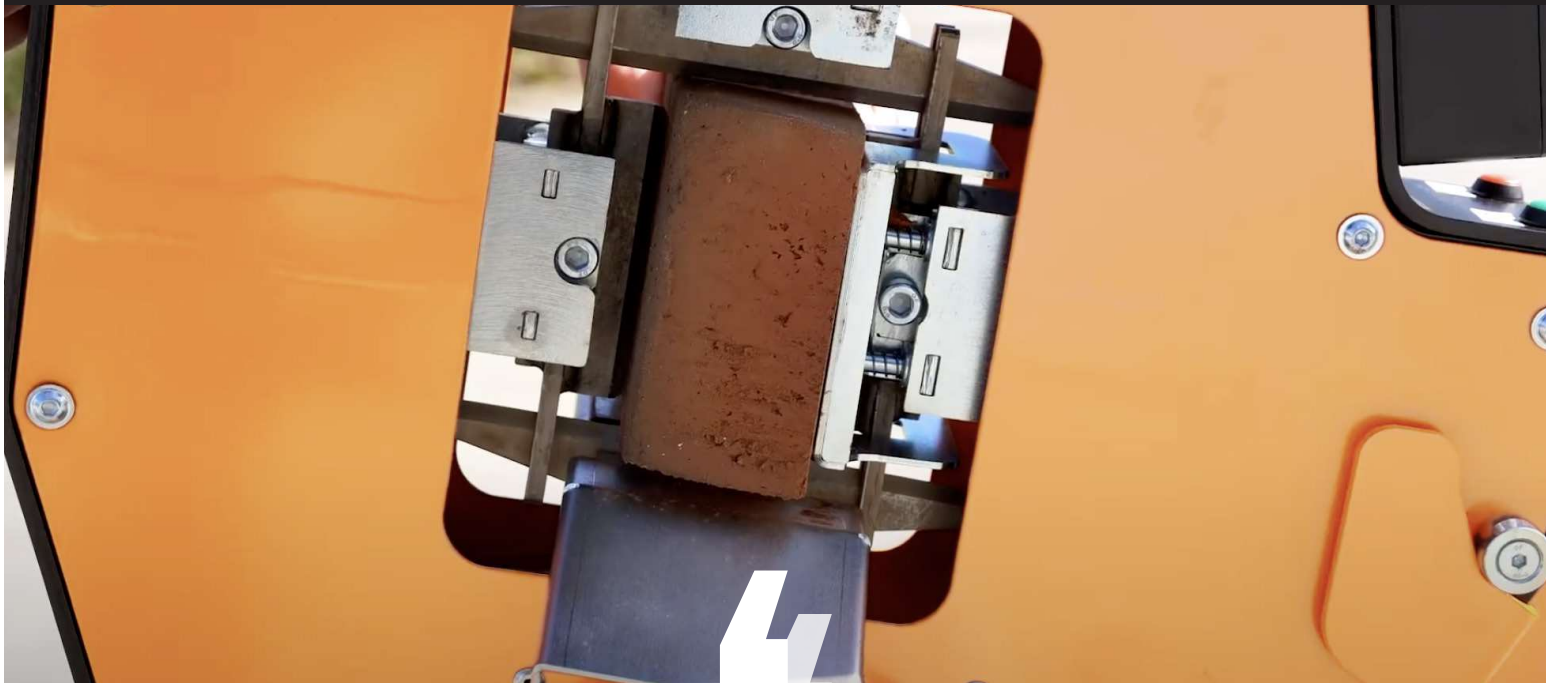
**Power:** 24 V, DC (battery)

**Power Supply:** 230 V

**FROM DAY-TO-DAY WORK TO THE MOST DEMANDING JOBS, SMARTCUTTER IS THE ULTIMATE TOOL FOR FLEXIBILITY, ENSURING YOU HAVE THE RIGHT SETUP FOR EVERY TASK.**

# WORK HARD – CUT SMART

MAKE EVERY BRICK COUNT.  
SMARTCUTTER OFFERS PRECISION CUTTING  
THAT ENHANCES PRODUCTIVITY & REDUCES  
PHYSICAL STRAIN.



We had a worker who had struggled with shoulder issues for a long time. After introducing the SmartCutter, he came to me and said, **'I don't need to visit the chiropractor anymore.'**

———— BJARNE FUNDER, HEALTH & SAFETY MANAGER AT LIND & RISØR ————

**SOROTO**<sup>®</sup>  
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