

How Built Robotics & RAM® Put Devices In The Driver's Seat

SUMMARY

BUILT ROBOTICS

CUSTOMER

Built Robotics

PARTNERS

N/A

INDUSTRY

Construction

CHALLENGES

Building standardized deployment process prioritizing device protection and management, safety assurance, and flexibility.

SOLUTION

RAM® Mounts No-Drill™ mount portfolio:

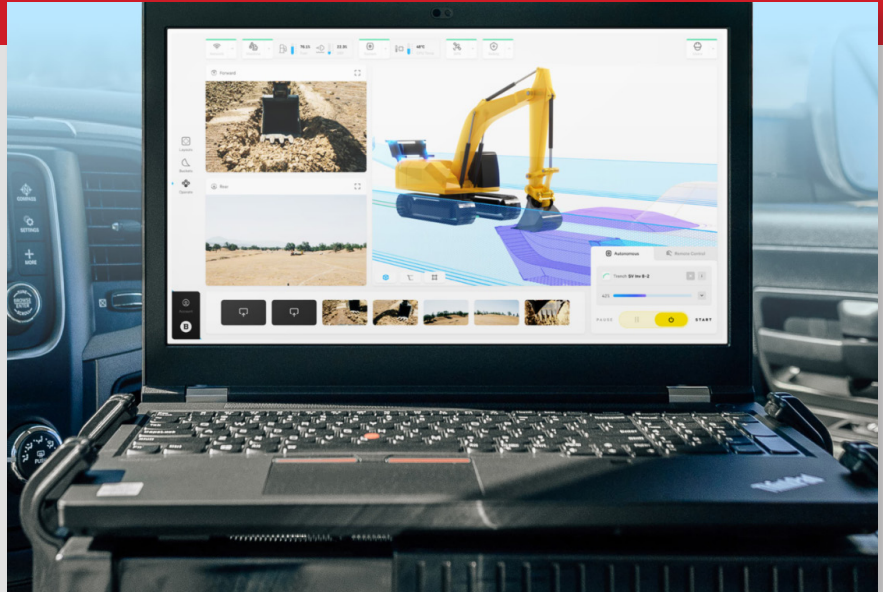
- Laptop vehicle mounts

RAM® Mounts Tablet mount portfolio:

- Tab-Tite™ universal spring loaded holders
- Drill-down double ball mounts

RESULTS

- Increased life expectancy of all laptops, tablets, and phones
- Enhanced Field Kits with dependable mounting equipment
- Standardized the deployment process, prioritizing safety, flexibility, and reliability



Before Noah Ready-Campbell started Built Robotics in 2016, his father urged him to learn how to operate equipment before automating them. With a Deere 135G excavator, he dug a pond in his family's backyard. Soon after he met his co-founder and six months later they had a working prototype. They realized that experienced workers are retiring faster than new workers are entering the industry, and much of the way the world builds hasn't changed in decades. Fast-forward to today, and their prototype has evolved into a fully functioning robotic brain, the Exosystem™, for excavators.

Built believes this form of automation represents an opportunity to put new tools in the hands of skilled workers and accelerate construction with the kind of digital technology that has revolutionized manufacturing, agriculture, and other industries. At the same time, these new tools will attract new talent, while easing the physical strain of construction for existing workers.

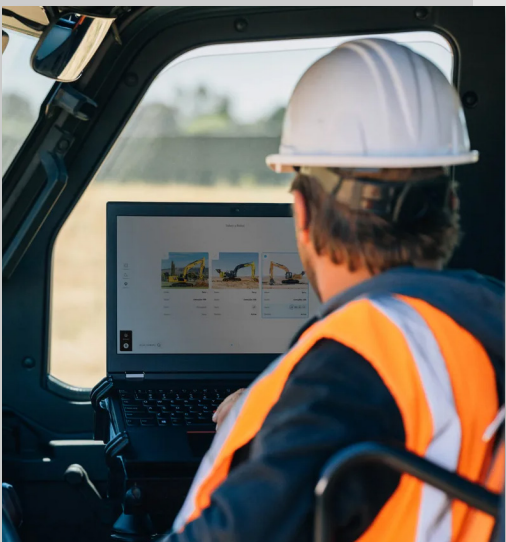
The robotics company's accomplishments point to two main factors of their success: their technological innovations and dedication to ironclad safety practices. Built pioneered a multi-level safety system for autonomous operation in construction. In RAM®, Built found a partner whose products could help strengthen those objectives.



Driving Work Efficiency and Safety

When shopping around for needed products, Built identified three benefits when going with RAM® Mounts: rugged, dependable, and modular.

To get the Exosystem™, up and running for end-users, Built developed simple and lean best practices to ensure a seamless deployment. These deployments include a “Field Kit” and a tablet and laptop to control the robot’s software, Everest™. Once the Exosystem™ is installed on an excavator, a trained individual, called a Robotic Equipment Operator (REO) can start to use the software. Where RAM® enters the equation is during a crucial step during the process: operating the robot.



Built discovered that REOs didn’t have the right tools to hold and safely secure the devices used to run the software. Spoiler alert: you don’t want the controls to a massive robot lost amongst the tools and supplies that can often clutter a deployment vehicle. This can be unsettling for project managers and opens the door for costly mistakes, including damage to the device and/or misplacement. It also posed an obvious safety concern. If the device that controls a 40-ton machine is being mishandled, how far does your trust go? Not far, which is when leadership team at Built Robotics turned to RAM®’s No-Drill™ laptop mounting solutions and tablet holders.

RAM® Mounts Sets the Standard

RAM®’s No-Drill™ laptop mounting solutions transform your field service vehicle into a mobile workstation. As a turnkey solution, the No-Drill™ product line only requires the passenger seat bolts on your work truck to install. Once installed, you effectively have a secure mount for your laptop free from clutter and damage. The added benefit of RAM®’s modular nature is the mount can be transferred to other vehicles with a simple loosening of a knob. This was one of Built’s main draws to RAM® Mounts. With various work trucks and UTVs they use for deployments, having the flexibility to swap out mounts from one vehicle to the next and know that each technician would have the exact same setup created a standard that could be trusted, at all times.



"I rely on RAM® Mounts when deploying our robots into the field. The construction industry builds our world, and we make sure the tools we put in the hands of skilled workers are always the safest, most robust ones available. Our partners trust Built's autonomous solutions, and we in turn trust RAM® Mount as a tool we can rely on."

Justin Russell

Head of Field Operations
Built Robotics

Additionally, Built Robotics loves the RAM® ecosystem. RAM®'s universal line of tablet holders came in handy to support the 8" tablets that needed to be mounted inside the cabin of each excavator. These tablets acted as the Exosystem's onboard user interface that any given technician could operate if they needed to switch back and forth from automatic and manual controls and read diagnostic information from the robot. The trust Built put into RAM®'s products is precisely why the deployment process gets the safety stamp of approval.

Every time Built implements new technology in the field, they prioritize flexibility, scalability, and safety. RAM®'s mounting solutions gave Built Robotics a strong foundation for safety and device protection, even to this day as the company continues to implement new RAM® Mounts into their fleets.

