



INVEST IN RISE ROBOTICS

## Electrifying heavy machines

[riserobotics.com](https://riserobotics.com)

Boston, MA



Technology

Notable Angel

Manufacturing

VC-Backed

Clean Tech

## Highlights

### VC-Backed

Raised \$250K or more from a venture firm

### \$1M+ Revenue

Earned over the last 12 months

### Repeat Founder

Started a prior company with  
\$2M+ in funding or revenue

- 1 Official 2025 GUINNESS WORLD RECORDS™ holder for the World's Strongest Robotic Arm Prototype
- 2 Built technology that is 3x faster, 3x more efficient and 20% lighter than hydraulics
- 3 \$9.1M in total revenue
- 4 \$22M raised from top VCs including Techstars, MIT's The Engine & Fortistar Capital
- 5 World-class team from MIT, RISD, iRobot, Apple & Forbes 30 Under 30 Manufacturing
- 6 Positioned to disrupt heavy machines from subsea to space - a combined \$600B+ market
- 7 Collaborations with Anthony Liftgates, U.S. Air Force, Danfoss, & Gates Corporation
- 8 20+ global patents granted & pending

## Featured Investors



**Kingscrowd Capital**

Invested \$10,000 ⓘ

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Kingscrowd Capital is the first Data-Driven Fund in the Online Private Market.  
[kingscrowd.com](https://kingscrowd.com)



“Investing in deep-tech hardware requires backing companies that solve critical needs with durable, hard-to-replicate innovations. RISE Robotics checks all those boxes. Its fluid-free actuator technology isn’t a nice-to-have gadget; it addresses an urgent industry imperative to reduce energy consumption, electrify heavy machinery, hit environmental targets, boost throughput, and slash maintenance costs....RISE Robotics has the potential to deliver an outsized return by disrupting a multibillion-dollar heavy machinery sector. Its unique product addresses non-negotiable industry needs, and the path to revenue is clearly defined. For investors seeking a high-conviction play on the electrification of industrial equipment, RISE offers a rare combination of low remaining tech risk, strong market demand, and the potential for substantial value creation.”

[View Investment Memo](#)



## The Engine

Invested \$3,000,000 ⓘ

[Follow](#)

Built by MIT, Engine Ventures invests in Tough Tech founders: providing capital, operational expertise, and a powerful network to build and scale companies unlocking massive opportunities in climate change, human health and advanced systems. [engine.xyz](https://engine.xyz)

### Reed Sturtevant, General Partner

“It takes a lot to make a machine move. Displacing hydraulics is just the first application of RISE Robotics’ IP for improving motion and electrifying heavy machinery. Their research, approach and systems will be crucial in evolving how other key mechanical components work, but most importantly these innovations to the fundamentals of how machinery moves will lead the industry toward not just compliance with emissions standards but helping heavy machinery become an oil-free, zero emissions industry in the future.”



## Bill Warner

Invested \$181,220 ⓘ

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Founder of Avid Technology (\$1.4B exit to Symphony), which revolutionized video editing. Academy Award winner & in the National Inventors HoF. Continues to empower the next generation of innovators as a TechStars mentor and angel investor in 30+ startups.

“I back companies that challenge the status quo and have the potential to make a meaningful impact on the world. RISE® Robotics is tackling inefficiencies in heavy

meaningful impact on the world. RISE® Robotics is tackling inefficiencies in heavy machinery with a visionary approach to electrification and sustainability. Their innovative technology and strong leadership gives them a real shot at transforming an outdated industry.”



**Bo Lee** 

Invested \$430,000 

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An accomplished entrepreneur, Bo co-founded Akku Energy Devices and ventures in hydrogen-electric components and energy-efficient modular homes. Bo brings decades of investment expertise from his career on Wall Street and leadership roles in Asia-Pacific.

“Having worked with cleantech and sustainability startups since the early 2000s, I’ve seen countless solutions, but RISE® Robotics stands out as the real deal. Their innovative approach to replacing hydraulics addresses a massive market inefficiency with true potential for disruption. The impact they could have on sustainability is nothing short of transformative, and I’m proud to support their mission to build a cleaner, more efficient future.”



**Walter A. Winshall** 

Invested \$4,992,093 

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### Syndicate Lead

MIT Engineering and Harvard Law School graduate. Guided SilverPlatter International from startup to ~\$100M. Recouped more than \$500M withheld by Viacom from Harmonix (“Guitar Hero”) shareholders. Supports innovative companies disrupting their fields.

“RISE® Robotics is revolutionizing the huge industrial machinery market with its groundbreaking Beltdraulics™ technology. As a long-term investor in RISE Robotics, I have observed the founding team of Arron, Blake, Kyle and Toomas build an extraordinary foundation of innovation. The recruitment of Hiten as Chief Executive, with his industry expertise and stellar commercialization experience at iRobot, signals a new era of growth and impact. My decision to invest again during the community round is an easy one - I deeply believe in RISE’s mission, the team, and the commercial opportunity to redefine sustainability by electrifying and automating heavy equipment.”



Other investors include [Techstars](#) [Notable](#) , [Fortistar Capital](#), [Michael Savino](#) & 1425 more



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# Our Team



**Hiten Sonpal** CEO

Robotics & commercialization exec. Generated \$2B+ revenue (9M+ units) at iRobot, grew deployments 3x at Electric Sheep, launched SaaS & HW products at Robin. Graze Robotics & Main Street Autonomy advisor. U of Evansville BS Comp. Eng., GA Tech MSCS ('28)



**Arron Acosta** Co-Founder & Business Development

Heavy machinery aficionado & electrification pioneer. Forbes 30 Under 30 Manufacturing. Former engineer at Apple. Employee #1 at Ekotrope (Inc 5000). Techstars alum. Superconnector in product market fit of innovative tech solutions. MIT BS, Mechanical Eng



**Blake Sessions** Co-Founder & CTO

Mechanical innovator & genius behind Beltdraulic innovation. Forbes 30 Under 30 Manufacturing. Work featured in WSJ. Pro Tool Innovation Award for air compressor, Whitelaw Prize & Luis de Florez MIT award for innovation. MIT BS, Mechanical Engineering



**Toomas Sepp** Co-Founder & Chief Engineer

Master mechanic & hands-on engineering leader. Key engineer for BEAR, a humanoid hydraulic robot & QCBot, an autonomous drug-delivery robot, both at Vecna. Specialist in precision engineering, machine design, & fitment. MIT BS, Mechanical Engineering



**Kyle Dell'Aquila** Co-Founder & Head of Customer Experience & Design

Visionary designer. Olio Smartwatch design lead. Critical role in patented breakthrough for 3D belt topologies. Award-winning moonbuggy design recognized by American Inst of Aeronautics & Astronautics. Rhode Island School of Design BFA, Industrial Design



Tom Phelps COO

Robotics ops exec. Former product lead at Endeavor Robotics (\$382M exit to FLIR), iRobot, Accion Systems. Leadership exp. across space, robotics, semiconductor & telecom markets incl. multiple \$100M+ programs. Boston U. BS, Manufacturing Eng, and MBA

## Pitch

# Why RISE<sup>®</sup> Robotics?



**“RISE ROBOTICS** BEGAN WITH ONE AUDACIOUS VISION: TO REDEFINE HUMAN MOTION WITH A REVOLUTIONARY SPORTING EXOSUIT, CAPABLE OF DELIVERING



**SUPERHUMAN STRENGTH, AGILITY, AND SPEED—ALL WHILE BEING LIGHTWEIGHT AND ENERGY-EFFICIENT.**

**WHAT STARTED AS A PROJECT IN OUR TWO-BEDROOM APARTMENT TO BUILD A REAL-LIFE IRON MAN SUIT HAS EVOLVED INTO AN INDUSTRIAL-STRENGTH INNOVATION THAT HOLDS THE MISSING KEY TO REACH NET-ZERO IN THE HEAVY MACHINERY INDUSTRY.”**

ARRON ACOSTA, RISE ROBOTICS CO-FOUNDER

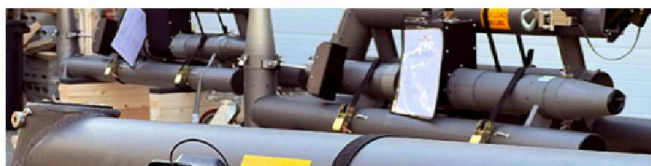
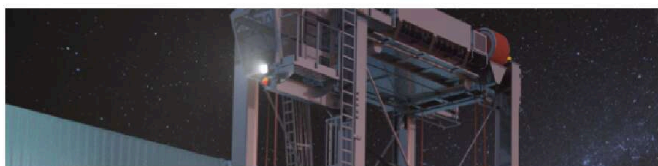
With RISE Robotics, heavy machines have never been more productive, efficient, safe, smooth, economical, eco-friendly, or AI-ready.

Backed by Techstars, MIT’s The Engine, and Fortistar Capital, and designed by alumni from MIT and Rhode Island School of Design, RISE’s proprietary Beltdraulic™ motion control technology is transforming the \$600B+ heavy machines industry.

Our vision is to create a world where high-performance machines no longer rely on oil and diesel to amplify human workers. The heavy machinery industry has been left behind in the push for electrification and AI, and without innovations like ours, reaching net-zero and autonomous machines would likely be economically unviable.

RISE isn’t another robotics company — it’s the future of superhero-caliber machines, powering the shift towards a sustainable, zero-emissions, amplified future for us all.

**Robotics powering a new era of  
electric heavy machinery**





**\$9.1M**

REVENUE



**20**

PATENTS




**ANTHONY**  
LIFTGATES, INC.  
SOLUTIONS FOR TRUCKS & TRAILERS

*Danfoss*

To date, RISE Robotics has generated \$9.1 million in development and product revenue. With over 20 worldwide patents granted or pending, and a growing list of notable partners, we're reinventing the heavy machinery sector.

**Heavy machines are outdated,  
inefficient, dirty, and dangerous**

Existing motion control technology for heavy machines is insanely inefficient, mind-blowingly wasteful, dangerous, and detrimental to both company profits and the environment.



**\$250B**

diesel cost for heavy  
machines annually



**88%**

of energy consumed by  
hydraulics is wasted





The vast majority of heavy machinery used in industries like construction, mining, and agriculture relies on oil-based hydraulics, a technology that uses fluid power to control, transform, and transmit mechanical power.

These industries, which account for more than 20% of the global economy — an estimated \$21 trillion — are under increasing pressure to meet stricter environmental regulations while maintaining high performance.



Heavy machines are in desperate need of electrification. Switching to electrical power sources for hydraulic actuators in these systems is simply not viable due to the tremendous energy requirements of heavy

machinery, compounded by the inefficiency of fluid power. Attempts to electrify without addressing hydraulics result in astronomical costs.

While electric actuator alternatives exist, they are fundamentally incapable of matching the force, speed, displacement, and utilization of many hydraulic motion control systems.

This fundamental incompatibility between electric power and hydraulic actuation is the core obstacle to widespread electrification in the heavy machinery sector.

As the industrial workforce shrinks, we need more efficient machinery driven by AI. However, current heavy machines are currently analog, lacking the precision, sensing, and smart control systems required for automation, making real-time decision-making impossible. Traditional hydraulic systems would require a patchwork of sensors and endless programming adjustments to support AI and automation.

## **Electrifying heavy machines with a smarter, faster, cleaner alternative to hydraulics**

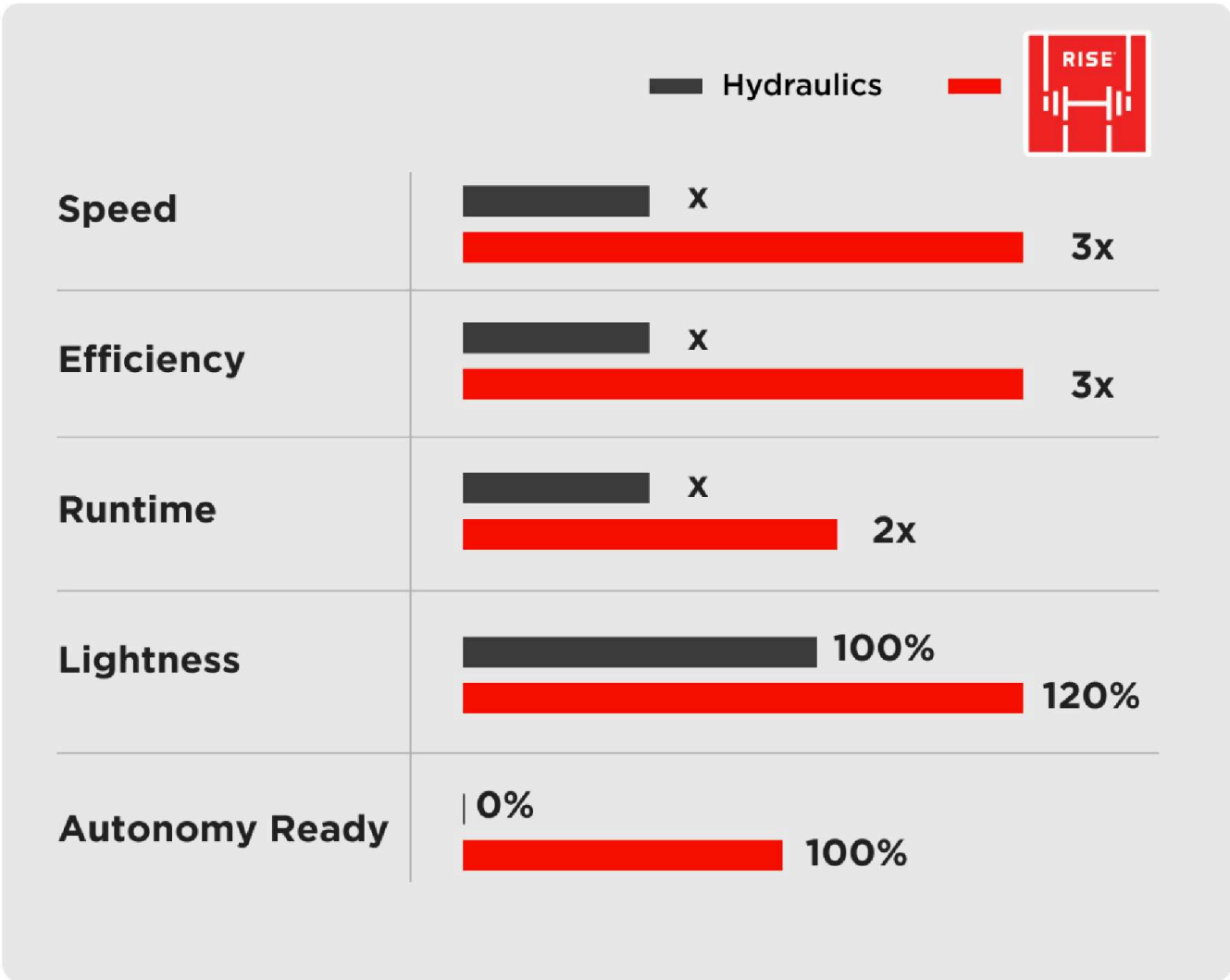






RISE’s solution: a fluid-free actuator that combines the speed and efficiency of robotics with the power and durability of heavy machinery. Our innovative technology uses belts and pulleys instead of oil, delivering superior performance at half the operating cost of hydraulics – with zero emissions.

This breakthrough makes fully electric heavy machinery not just a possibility, but a practical and powerful reality.



Our patented motion control Beltdraulic™ technology guarantees that machine operators benefit from a safer, quieter, mess-free experience with unwavering execution. In addition, our technology is self-monitoring and easy to maintain.



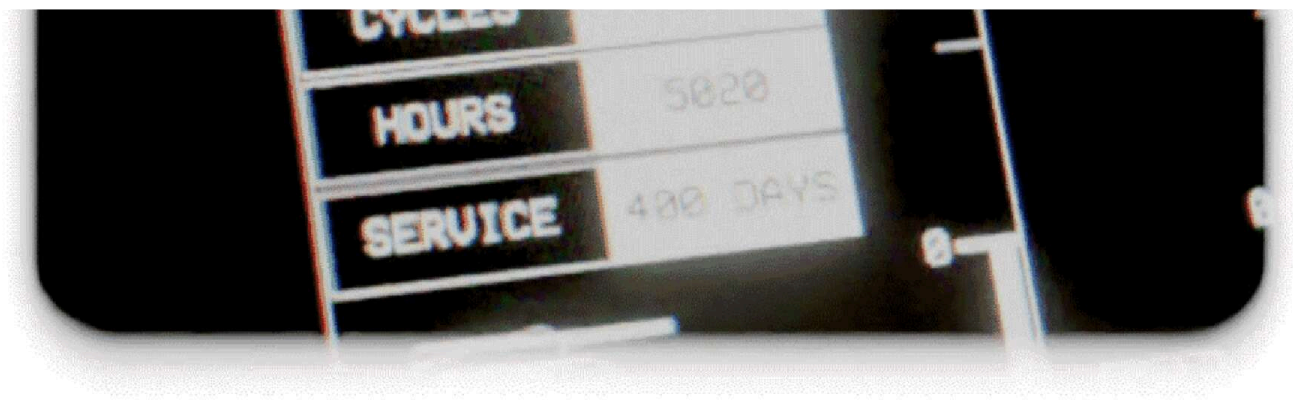
Whether it's handling shipping containers at a port, unloading food and beverage delivery trucks, or operating a forklift at a warehouse, RISE's technology ensures seamless, faster transfer without goods or materials ever being dropped, broken, damaged, or lost, all while minimizing risks to workers.

RISE delivers unmatched motion control with paramount safety and environmental protection.

**Enabling AI-ready,  
autonomous machines**





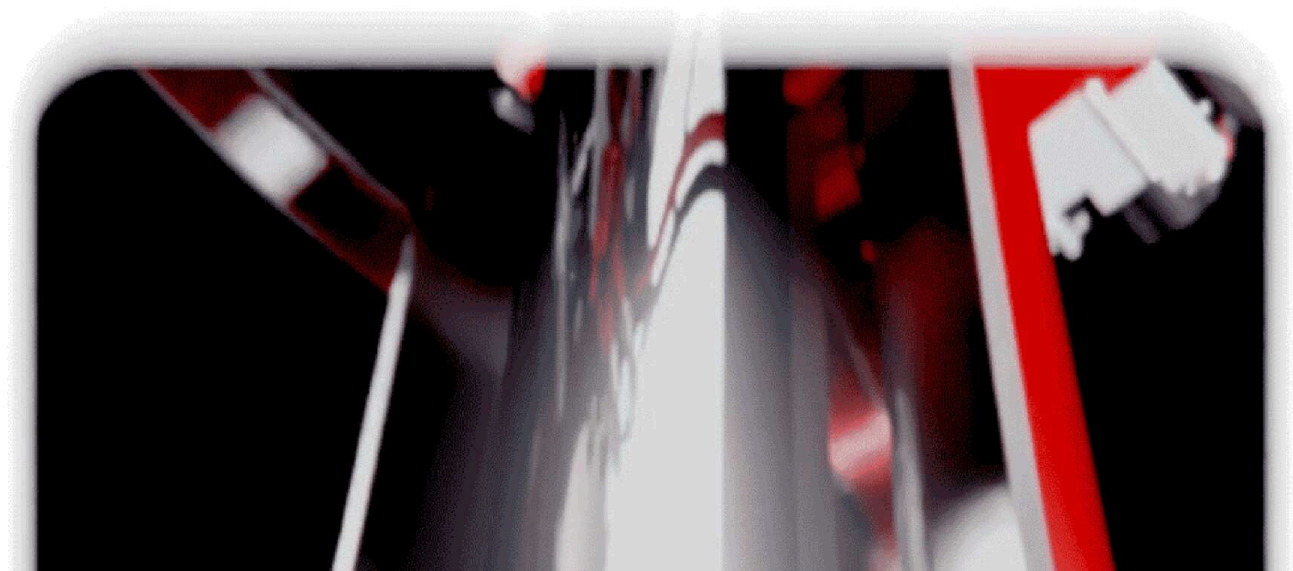


Automation is imperative in the heavy machines industry, and RISE is leading the charge. The machines that we build are digital, ready for AI and autonomous systems, powering greater precision and amplifying the capabilities and capacity of machine operators.



With natural haptic feedback from motor current sensing and native belt/rod position tracking, our actuators provide real-time load data and seamless integration with AI-driven systems.

No external sensors, no endless trial and error — just precision movement, built-in intelligence, and readiness for the future of machine automation.

## **Trailblazing the transition to fluid-free heavy machinery**



We believe RISE is the first company to offer a true high-performance, shock-ready alternative to hydraulics with no pollution, leaking oil and no emissions. We enable robotics and AI for heavy machinery in a big way, and have established a significant defensible moat based on our IP, know-how, and partnerships.

RISE's Patented System-Level Approach to Motion Control			
 <b>Hydraulic System</b>		 <b>RISE Beltdraulic™ System</b>	
Hydraulic Product	Summary of Function	RISE Product	Summary of Function # of RISE Patents Granted
Hydraulic Fluid	Power transmission medium from the point of generation (pump) to the point of delivery (hydraulic cylinder)	RISE Beltdraulic Flat Belt	Power transmission medium from the point of generation (belt power unit) to the point of delivery (RISE Beltdraulic Cylinder) 1
Hydraulic Pump	Convert rotary shaft power into fluid power transmission medium	RISE Beltdraulic BPU	Convert rotary shaft power into belt power transmission medium 1
Hydraulic Cylinder	Convert fluid power into high force linear power	RISE Beltdraulic Cylinder	Convert belt power into high force linear power 12
Hydraulic Tube/Hose	Convey fluid from point of power generation (pump) to the point of power delivery (cylinder)	RISE Beltdraulic Redirector	Convey the transmission belt from point of power generation to the point of power delivery 10

*RISE Beltdraulics offer physical and functional configurability, analogous to hydraulics.*

RISE holds over 20 worldwide patents granted or pending which protect the core innovations of our Beltdraulic™ technology. In addition, our ability to offer solutions that meet future environmental regulations without compromising performance gives us a major advantage in industries like construction, mining, and agriculture.



# It's working in a big way

## GUINNESS WORLD RECORDS™ title for World's Strongest Robotic Arm Prototype



Our revolutionary Beltdraulic™ technology earned us the official GUINNESS WORLD RECORDS™ title for the World's Strongest Robotic Arm Prototype. We've lifted more than 7,000 lbs (the weight of an electric pickup truck) with our record-breaking cylinder inside a robotic arm - a powerful validation of the unmatched strength and efficiency of our technology. Watch it in action below!



The world's Strongest Robotic Arm Prototype



Watch later



Share





We're honored to contribute to the mission of improving operational readiness and safety for the Air Force Global Strike Command! Our fully electric robotic arm is designed to replace aging technologies with solutions that are not only easier to maintain but also deliver enhanced control and efficiency—an essential step in advancing munitions handling capabilities.

We've been selected to join the U.S. Air Force's \$46B Enterprise Wide Agile Acquisition Contract (EWAAC) program - a strategic gateway into major defense programs. RISE's Beltdraulic™ Systems are in the running to power the military's most advanced platforms. with strong



potential for major future contracts.

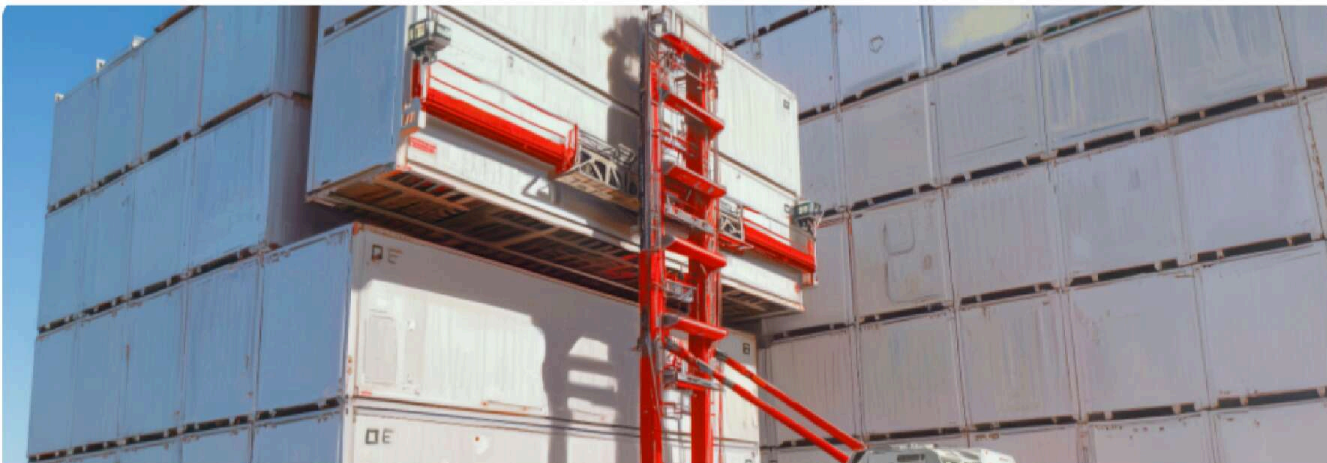
## The use cases for our technology are mindblowing

### Teleoperations and Autonomous Excavators



Our technology enables heavy machines to be fully autonomous and capable of being operated remotely. This saves astronomical costs associated with dispatching workers to remote locations, in addition to being safer and more effective.

### Perpetual Unloading Machines





We can also support the development of perpetual unloading machines. When machines are unloading objects from a significant height, the process of unloading charges the batteries and facilitates fully autonomous 24/7 operations.

**Pioneers in robotics & automation**  
**from MIT, RISD, Apple & iRobot**



**Hiten Sonpal**  
CEO



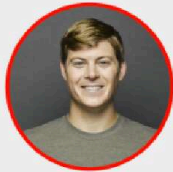
**Thomas Phelps**  
COO



**Arron Acosta**  
VP of Business  
Development



**Blake Sessions**  
Chief Technology  
Officer



**Toomas Sepp**  
Chief Engineer



**Kyle Dell'Aquila**  
Head of  
Industrial Design

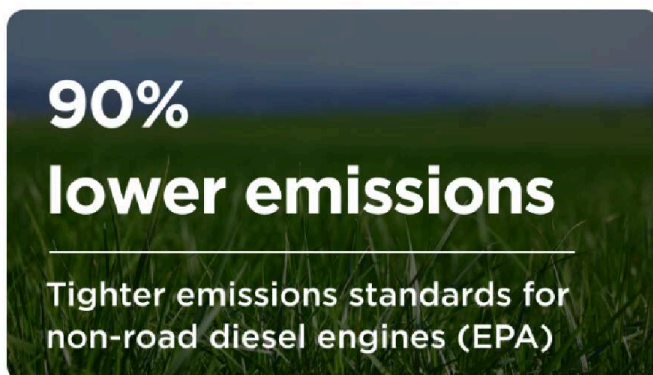




RISE's leadership hails from prestigious academic institutions for engineering and industrial design — MIT and Rhode Island School of Design, as well as some of the largest and most successful robotics and technology companies including Apple, iRobot, Vecna Robotics, and Electric Sheep.

Our team's deep expertise in technology, manufacturing, engineering, and design has led to recognition in Forbes 30 under 30.

## RISE is electrifying the \$600B+ heavy machinery market



# 30% tax credits

for adoption of clean energy  
solutions (Inflation Reduction Act)

TAX  
CREDIT



Demand for net-zero solutions is high — and so are the stakes. The survival of our planet depends on solutions like ours that can help high-polluting industries transition to fully electrified systems.

## Collaborating with industrial giants to build better, cleaner machines



### PARTNERS



**ANTHONY**  
LIFTGATES, INC.  
SOLUTIONS FOR TRUCKS & TRAILERS



**Danfoss**



**U.S. AIR FORCE**

### INDUSTRIES



**CONSTRUCTION**



**MATERIAL HANDLING**



**DEFENSE**



## REVENUE STREAMS



**JOINT DEVELOPMENT  
AGREEMENTS**



**PRODUCT SALES**



**LICENSING**

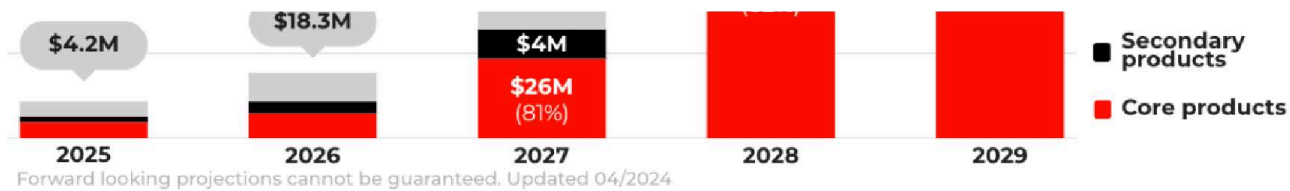
RISE generates revenue through product sales, joint development, and long-term licensing deals.

We jointly develop heavy machines powered by our proprietary Beltdraulic™ technology and sell them directly to operators under the RISE brand. In addition, we sell RISE cylinders and license our technology as well as offer customized solutions to leading manufacturers in industries like construction, material handling, and defense.

Our partners benefit from reduced energy costs, compliance with environmental standards, and enhanced machine performance.

**By 2029, the bulk of our sales will  
come from products we are now co-  
developing with our partners**





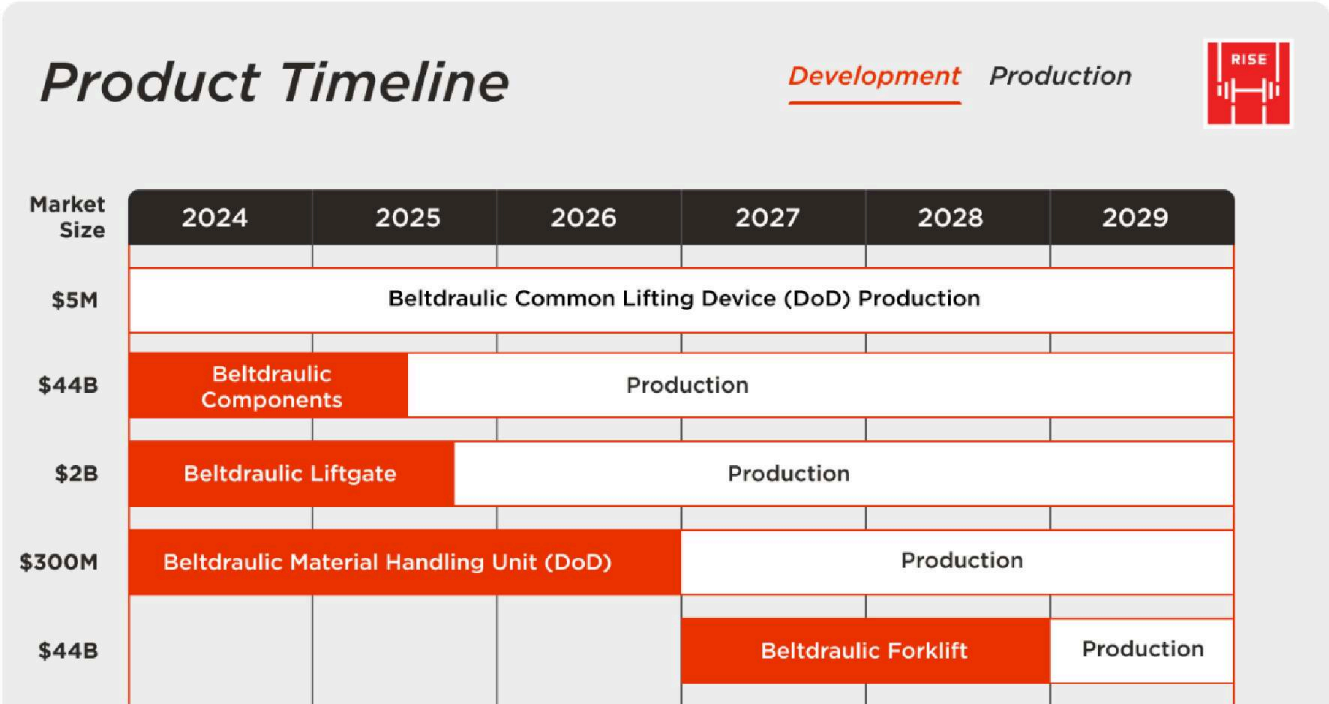
In 2024, RISE focused on executing a big government contract we won in 2023, as well as securing new development contracts and refining our technology based on feedback from our partners. While government sales cycles are long and unpredictable, we expect to land the next government contract this year.

Our growth will also be supported by sales of new commercial products we’re launching in Q3 2025. With strong momentum from government and industry collaborators, combined with a shift in focus from R&D to commercialization, we are at an inflection point for generating consistent, scalable revenue.

Building an ecosystem of

high-performance, zero-emission

machinery





RISE's technology is not just a future concept — we've been enabling superior motion control in lifting devices used by the Department of Defense, and we're ready to scale NOW.

Your investment will allow us to accelerate our growth and get our products to market faster.

## Just as Tesla Electrified Cars, RISE is Electrifying Heavy Machinery

Companies that have **transformed** their industries



TESLA (NASDAQ: TSLA)

**\$800B**  
Market Cap

TESLA



JOHN DEERE (NYSE: DE)

**\$120B**  
Market Cap



RISE Robotics is following in the footsteps of iconic companies such as Tesla, which revolutionized electric cars, and John Deere, a global leader in heavy equipment making strides in autonomous machinery.



Acquired for

**\$5.1B**

**Regal Rexnord**

(NYS:RRX)



Market Cap

**\$8.2B**

(NYS:FLS)



Market Cap

**\$31B**

(NYS:ROK)

Acquisition completed March 2023; market caps as of January 2025

Regal Rexnord's recent acquisition of Altra Industrial Motion highlights the high value of innovative motion control solutions. The large market caps of industrial technology leaders Flowserve and Rockwell Automation further underscore the immense potential for breakthrough advancements in mechanical systems.

**Earn perks for supporting better machines!**

**\$2,500: PERSONALIZED  
Commemorative Plaque**

Honoring your role in building the  
World's Strongest Robotic Arm



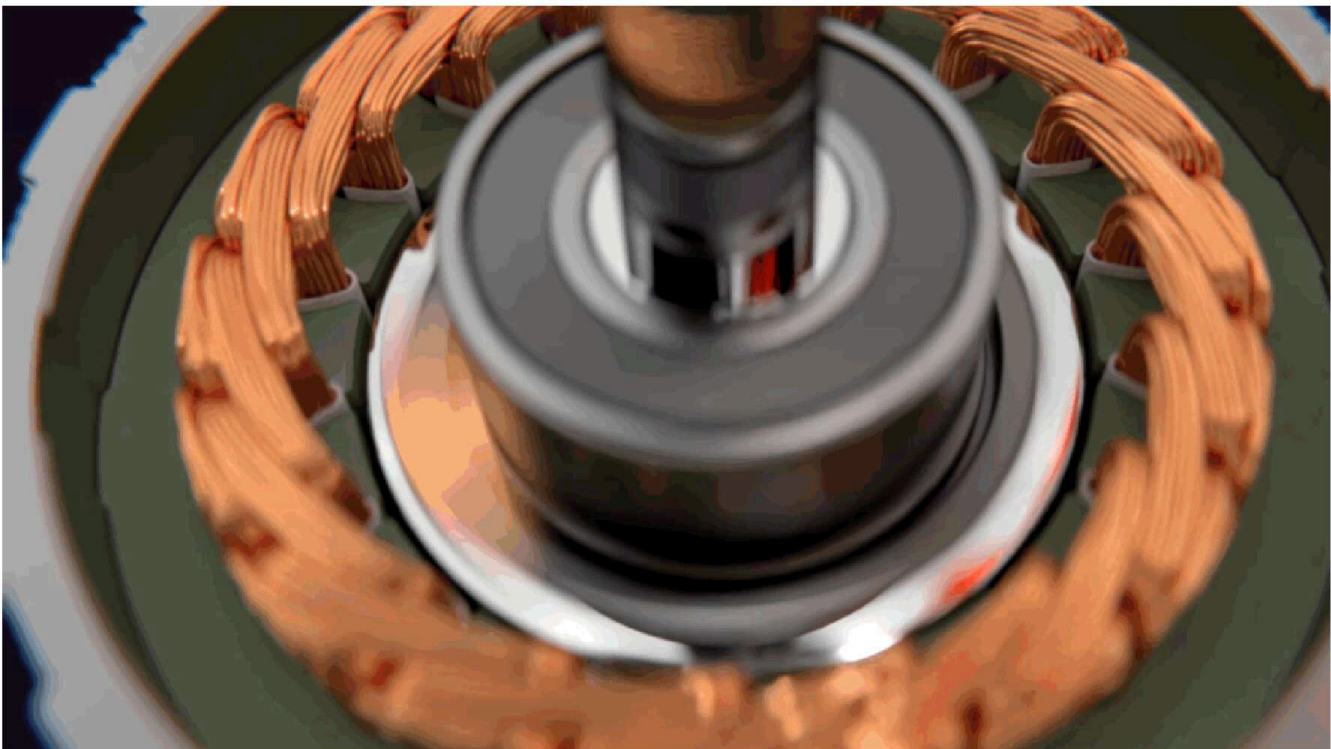


**\$10,000: GROUP**  
**RISE facility tour**

**\$25,000: PERSONAL**  
**RISE facility tour**  
+ 1-1 meeting with a co-founder

We're excited to give our supporters the opportunity to not only invest in RISE, but also to get a front-row seat in the development of our transformative technology through exclusive investor perks.

**Powering the future of electric  
machines—faster, cleaner, smarter**



To date, we've invested \$22M in RISE's technology development and

to date, we've invested \$22M in RISE's technology development and breakthrough industrial design. We're raising on Wefunder to open up the opportunity for anyone to become an integral part of our movement towards efficiency and sustainability, an imperative change for us all.

Investing in this round means you'll be investing alongside Techstars, MIT's the Engine, Fortistar Capital, and other visionary investors as we build better and new machines to power a greener future — a future beyond what you think is possible today.

RISE's cutting-edge robotics technology will transform industries and economies, and change the world for the better. Invest in the electrification of heavy machines today, and secure a sustainable future for our planet.

