



ROBOTICS

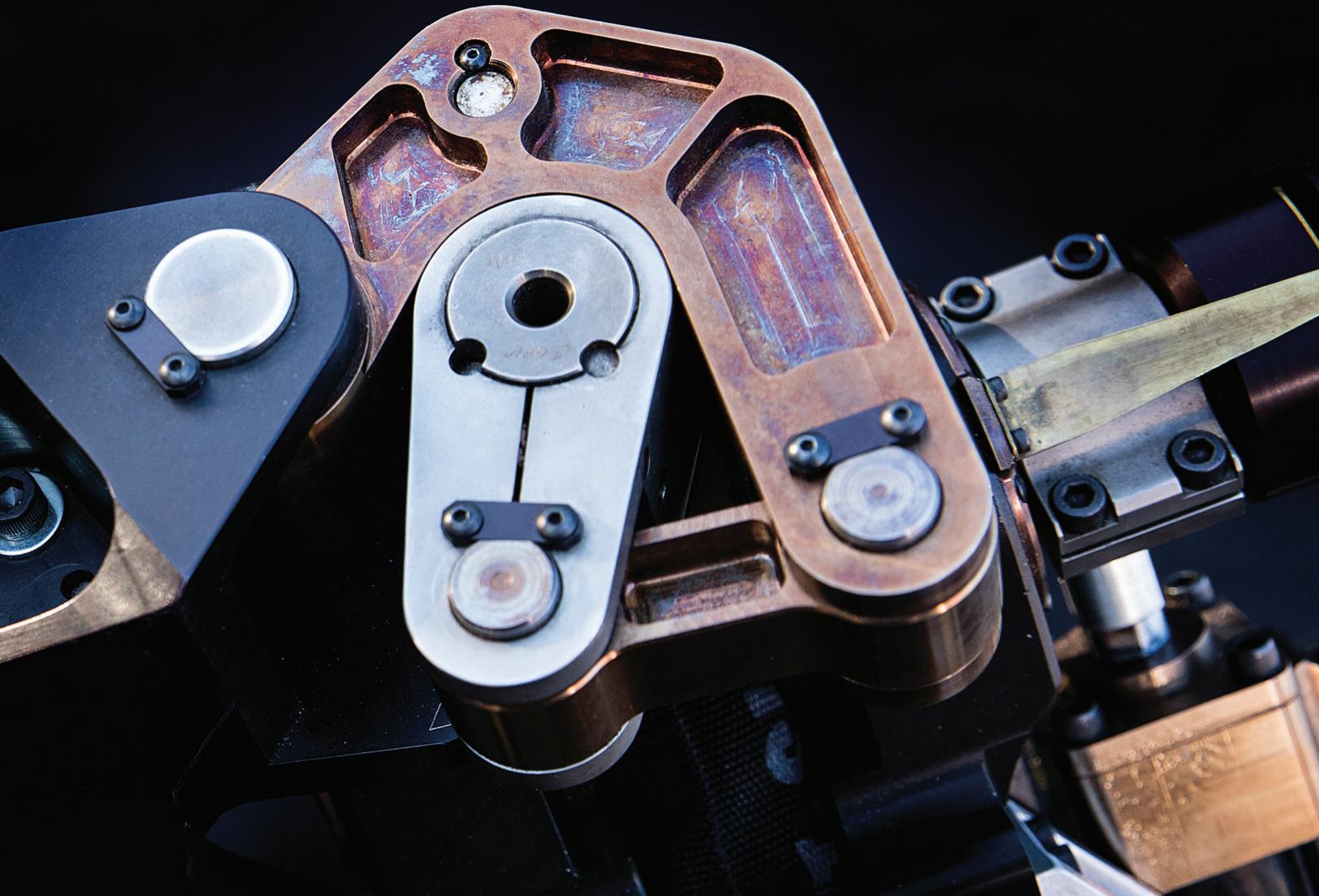
Setting the standard for robotic systems that augment human performance to improve safety and enhance efficiency in unstructured environments.

A close-up, low-angle photograph of a dark, textured metal surface. The SARCOS logo is embossed into the metal, appearing as a series of raised, three-dimensional characters. The lighting is dramatic, coming from the side, which highlights the ridges of the embossed letters and creates deep shadows in the recesses, giving the logo a tactile, industrial feel. The background is dark and out of focus, emphasizing the texture and the embossed logo.



As an undisputed industry leader in dexterous robotic systems,

Sarcos Robotics is delivering technology to empower people to go further and to do more than ever before. We don't replace human productivity, we enhance it, by making you stronger, keeping you safer and getting you to places you couldn't otherwise go. We've been at the forefront of robotics innovation for more than 20 years, with a track record of successfully turning science fiction into reality. Whether the application is commercial, industrial, public safety or defense, we don't just build robots. We build new possibilities for real people who put it on the line every day to get the job done.





GUARDIAN™ S



Easily portable and highly versatile,

the Guardian S robot is a multi-purpose, mobile IoT and inspection platform for commercial, industrial, public safety and defense applications. Compact, lightweight and rugged, it can access places that you can't, or shouldn't, go, and that other robots and drones could never dream of entering. Need to inspect confined spaces? Climb stairs? Look under an automobile? Investigate a tunnel? Scale a metal pipe? Conduct extended surveillance? The Guardian S robot does all that and more. Equipped with a suite of sensors and the option to connect to the Cloud, it is ideally suited to perform a wide range of tasks from enhancing situational awareness to collecting environmental data. Designed to run longer, go further, and do more, the Guardian S man-portable robot is in a class of its own.

- ▶ Man-portable – ~17 pounds
- ▶ Run-time Advantage – 12 hours surveillance or a ~3-mile travel range
- ▶ IP65 – the robot is dust-tight and protected against water projected from a nozzle
- ▶ Access confined spaces – it is less than 7" high, so can easily go under cars, through vents, truck cargo areas, ship engine compartments, and into pipes and tanks
- ▶ All-terrain – grass, snow, water, gravel
- ▶ Communications – WiFi, LTE, multiple ISM bands
- ▶ Cloud services – robot control, data gathering and analytics



GUARDIAN™ GT

In Development

The Guardian GT robot is a human-controlled, force multiplying robotic system consisting of one or two highly dexterous arms mounted on a track or wheeled base that allows a single human operator to do more, safely. And as impressive as it is to see in action, what really fires the imagination is the ability of this unrivaled tool to work in environments of all types – from manufacturing and assembly, to construction, to disaster recovery and hazardous materials handling. Imagine having arms twice as long, with strength allowing you to lift 500 lbs./227 Kg in each hand, and all of the dexterity and freedom of motion to which you are accustomed. The Guardian GT system makes this vision a reality. From basic labor-saving tasks like heavy lifting, to more intricate processes like welding and joining, it multiplies individual effectiveness and adds leverage to human capabilities, while keeping people safely out of dangerous environments. It is the kinematic equivalent to humans, enabling human instincts and reflexes to control the robot, without requiring substantial training. The robot arms move just as the operator's arms move, with the operator feeling the scaled forces experienced by the robot. The resulting system is intuitive, robust and safe to use. In the most demanding environments, the Guardian GT robotic system is the ultimate way to get your arms around the tough tasks at hand.

Commercial and Industrial Applications:

- ▶ Handling heavy material, including sheet metal (Metal Fabrication, Ship Building)
- ▶ Welding, grinding, cutting, application of protective coatings, inspection
- ▶ Performing placement functions of high-weight components in aid of logistics, assembly and/or joining
- ▶ Combine advantages of humans (ability to operate in complex and unstructured environment) with the advantages provided by robots (strength, stamina, repeatability, precision, speed)
- ▶ Nuclear Reactor Inspection & Maintenance (remote tele-operation)
- ▶ Petroleum Industry, Construction, Heavy Equipment Manufacturing

First responder and Logistics Applications:

- ▶ Palletizing and de-palletizing
- ▶ Loading and unloading supplies
- ▶ Shipboard and in-field logistics
- ▶ Erecting temporary shelters
- ▶ Equipment repairs
- ▶ Disaster recovery/humanitarian assistance (moving rocks and debris in a controlled manner, Med-Evac)





GUARDIAN™ XO™

In Development

In 2010, with backing from the United States Department of Defense DARPA unit, Sarcos demonstrated the world's first, and to this day, only, fully powered industrial exoskeleton suit that substantially improves human strength and endurance without restricting the operator's range of motion or freedom of movement in the workspace. Time Magazine recognized this early prototype as one of the world's top innovations that year. Since then, Sarcos has been working to commercialize the suit, and create the perfect synergistic relationship between human and machine. Built from a combination of advanced materials, actuators and sensors, with sophisticated software control algorithms; the Guardian™ XO® exoskeleton suit enables you to safely, comfortably and easily lift 200 lbs./90 Kg. repeatedly without exertion, strain or injury. Equipped with the same scaled dexterous end effectors and force feedback features as the Guardian GT robot, the suit's ability to perform highly precise tasks with heavy tools or components is the stuff of legend and super heroes. Born of a fundamental, practical need to work more efficiently, prevent injury, and realize the future of human potential, the Guardian™ XO® exoskeleton revolutionizes the way work gets done.



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