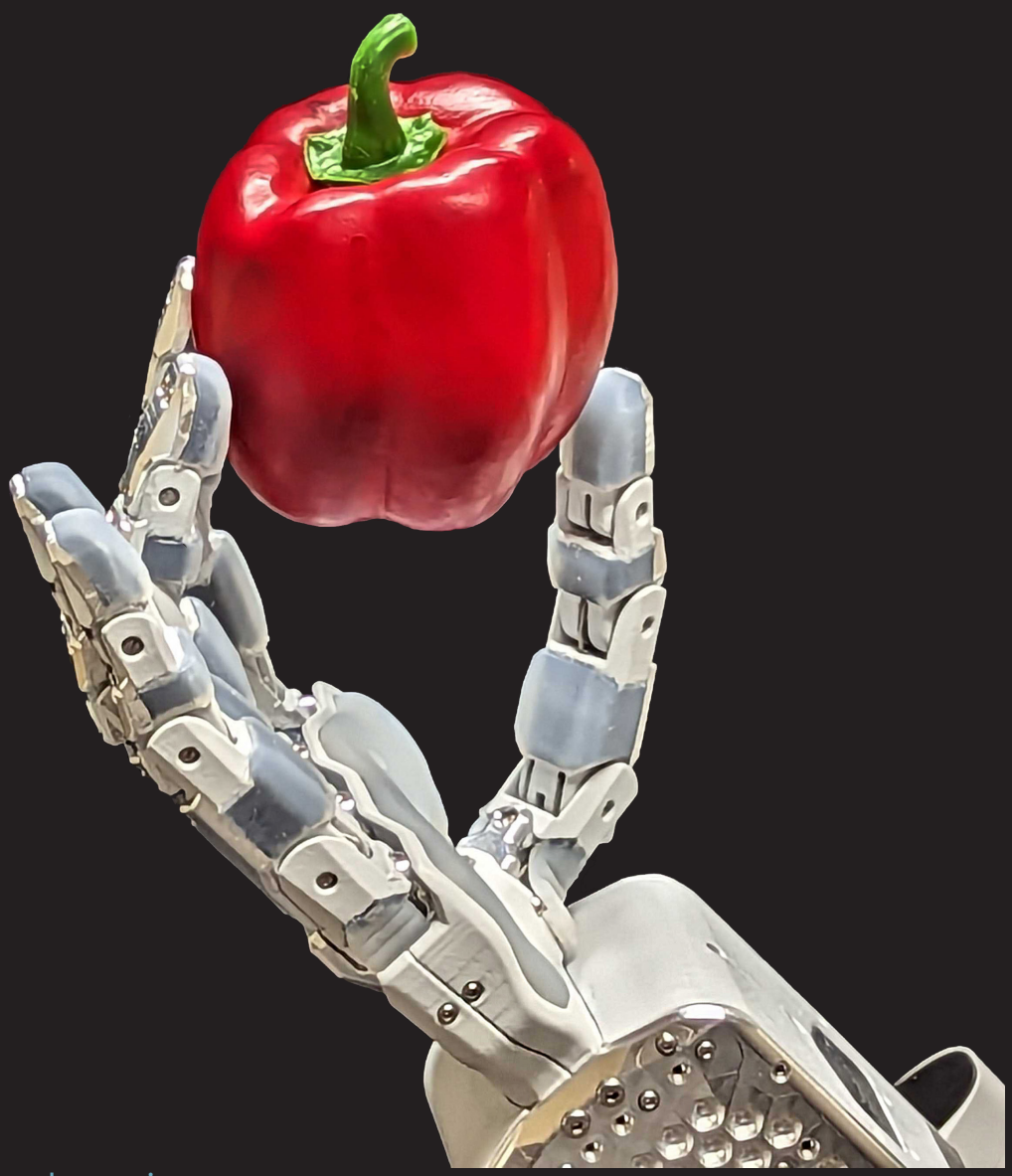
SARCOMERE
DYNAMICS

ARTUS Lite (Mark 5.0)

. . . bringing near-human capability to automation



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ARTUS Lite (Mark 5.0)

In the dynamic and demanding realm of industrial automation, the ARTUS Lite stands as a paragon of adaptability and precision. This premier universal end-effector is meticulously crafted to replicate the human hand's intricate capabilities, delivering unparalleled performance for a spectrum of general-purpose tasks. Its superior dexterity is essential for complex activities such as the assembly and disassembly of varied components and interactive engagement with objects of diverse shapes, sizes, and textures – a feat beyond the reach of conventional grippers.

The ARTUS Lite's prowess lies in its versatility, proving vital in environments where the safety and replacement of manual labor are of urgent concern. It excels in pick-and-place automation within greenhouses, warehouses, and recycling facilities, enhancing productivity while prioritizing worker safety. Our trials across these sectors are a testament to the ARTUS Lite's capacity to revolutionize industry practices, offering a glimpse into the future of labor automation.

Tele-operation scenarios, particularly within military and nuclear applications, demand an end-effector that operates with both finesse and confidence. The ARTUS Lite meets these requirements with ease, providing a safe and precise solution for remote manipulation in hazardous or inaccessible environments.

Sarcomere Dynamics' commitment to innovation is embodied in every model we develop, all of which are engineered for seamless compatibility within our product ecosystem. This thoughtful design strategy ensures that as Sarcomere releases newer, more advanced models, our clients can effortlessly transition, leveraging existing AI, ML, and kinematic models. This interconnectivity promises not just a cutting-edge product, but a sustainable investment poised for future growth and adaptability.

With the ARTUS Lite, Sarcomere Dynamics Inc. assures operational continuity, efficiency, and safety, marking a new era in industrial automation. Engage with us to explore how the ARTUS Lite can be integrated into your operations, ushering in a new standard for robotic solutions.

Technical Information

System Overview

Designed for indoor industrial operations to automate menial labor*
Rugged construction to withstand high force grips and impact*
Internal sensing of finger joint positioning and force application
Compatible with all systems
Connectors/Interface: ISO 9409-1-50-4-M6, Canbus, Serial, WiFi*

* *speak to our engineering team to customize for your unique needs*

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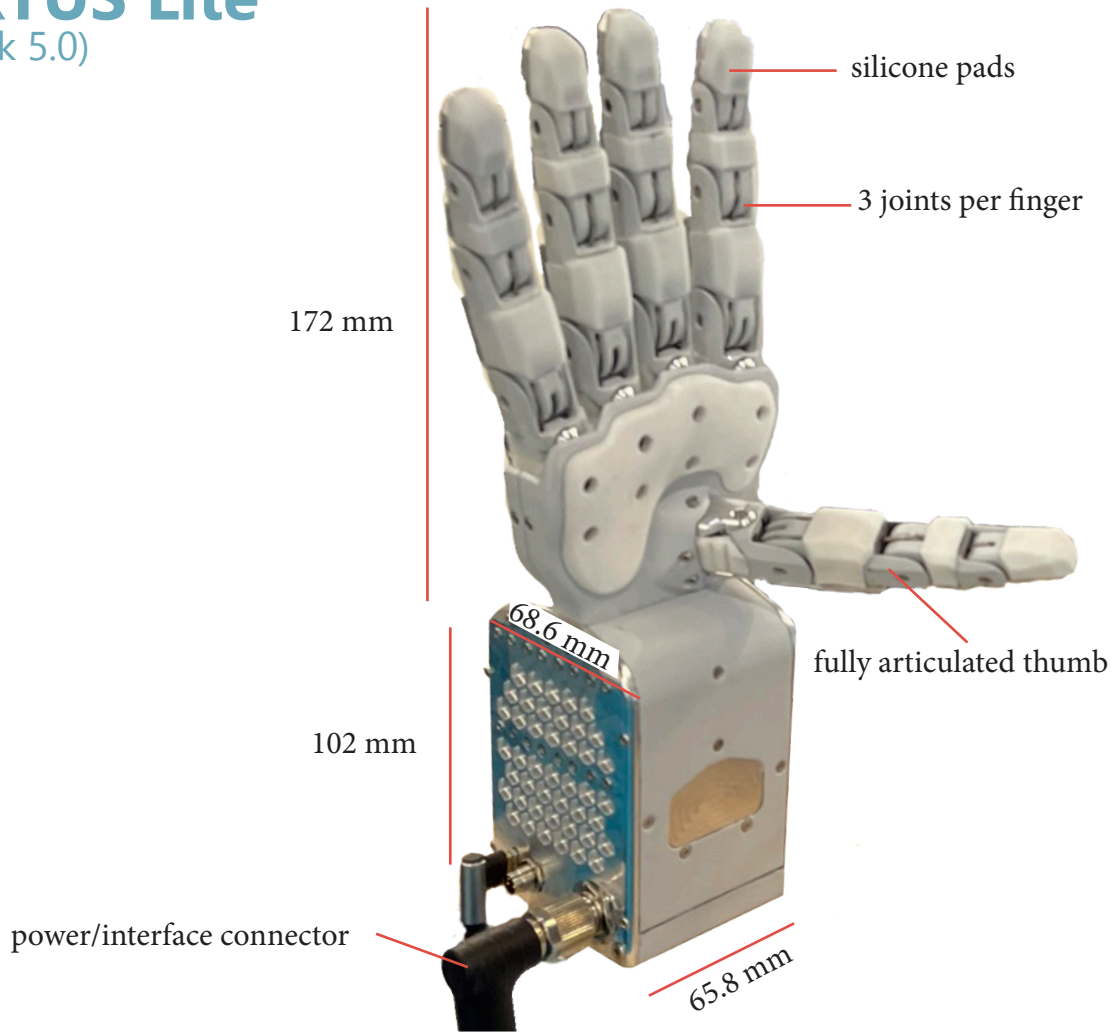


Mechanical Overview	
Joints	20 articulated joints (4 per finger and thumb)
Degrees of Freedom	16 independant DoF and 4 under actuated DoF
Weight	1.1 kg
Speed - Open/Close	0.6 Hz
Strength - force at fingertips	1.5 kg
Max Payload Capacity	5 kg (contact us for larger payloads from 10 to 15 Kg)
Materials	Carbon Fiber, Aluminum and Silicone
Power Supply	12 or 24 volts DC (200 to 300W)

SARCOMERE DYNAMICS

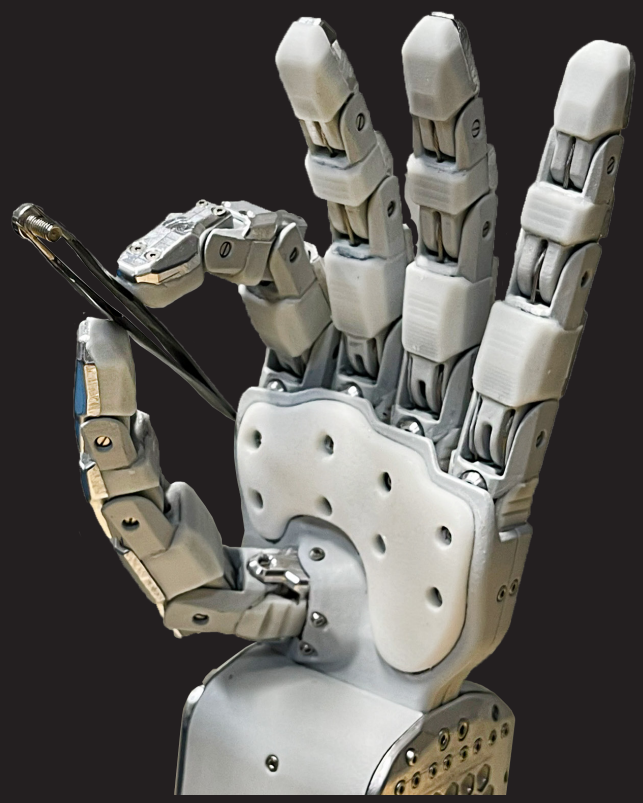
Shaping the Future of Industrial Automation

In the intricate tapestry of today's technological evolution, Sarcomere Dynamics stands as an architect of progress at the dawn of general-purpose automation. Our ARTUS Lite robotic hand is not merely a product but the embodiment of an adaptable, plug-and-play solution that redefines the very nature of automated tasks.

Emphasizing high dexterity and near-human functionality, the ARTUS Lite is engineered to supplant the need for specialized end-effectors with a versatile, universal tool. Our commitment to innovation extends beyond the present capabilities into the realm of what automation will become: an era where robots augment human potential, and operational efficiency is seamlessly integrated with unprecedented precision.

Let's embrace this epoch of ubiquitous automation—the era where automation transcends boundaries, and robots become our trusted allies.

The future is here, and it's automated.



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ARTUS LITE – DEMOS

... bringing near-human capability to automation

VIDEO 1
Moving Apples

VIDEO 2
Autonomous Pepper Pick

VIDEO 3
Heavy Object

VIDEO 4
Using Pliers

VIDEO 5
Using Drill

VIDEO 6
Precision - Eggs

VIDEO 7
Machine Tending

VIDEO 8
Bi-manual Manipulation

VIDEO 9
Tele-operations