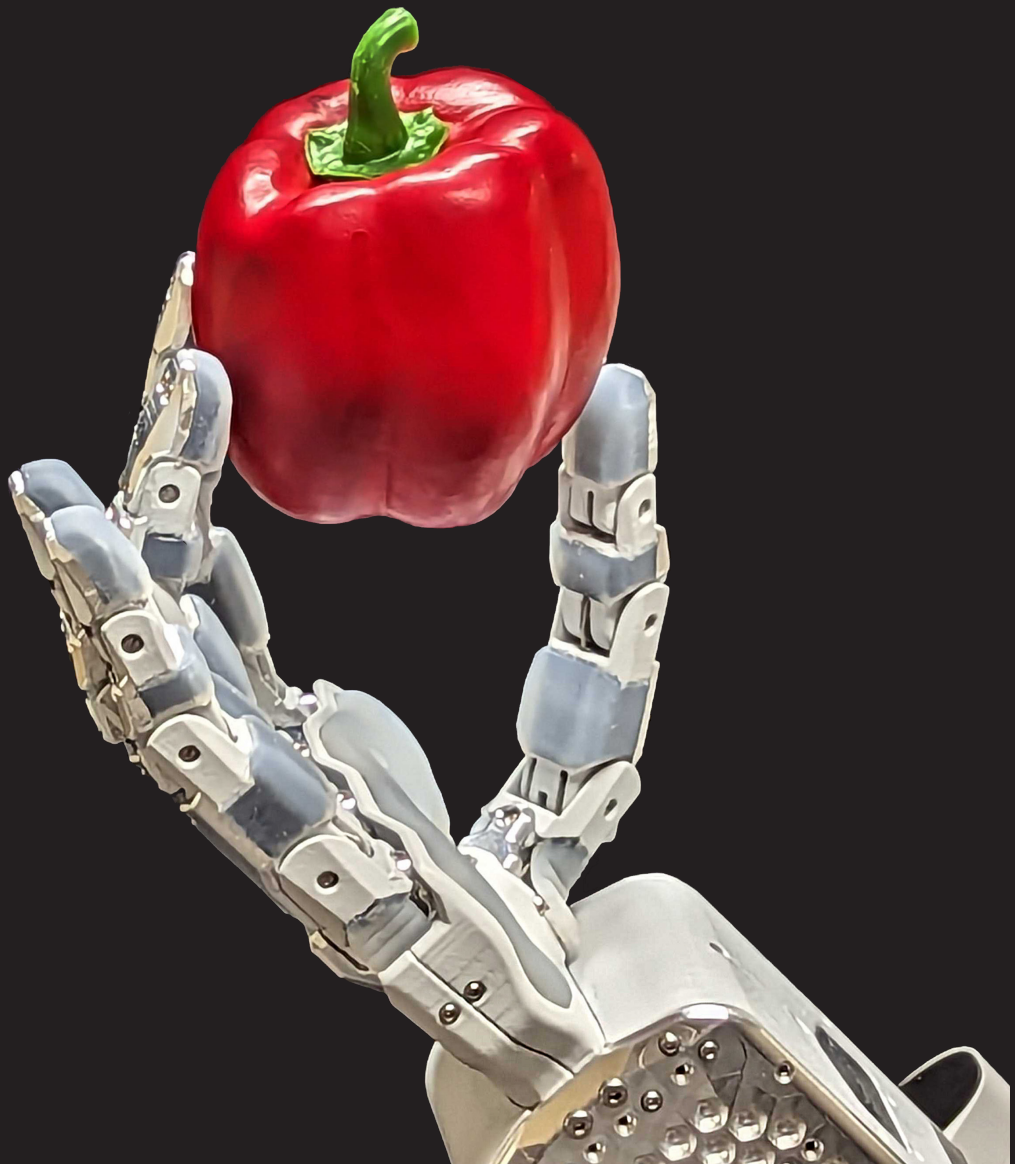




**SARCOMERE**  
DYNAMICS

# ARTUS Lite

... bringing near-human capability to automation



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# ARTUS Lite

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 – feats beyond the reach of conventional grippers.

The ARTUS Lite's prowess extends to tele-operation scenarios, particularly within military, nuclear, and bio-pharma applications, where an end-effector that operates with both finesse and confidence is crucial. It provides a safe and precise solution for remote manipulation in hazardous or inaccessible environments, proving vital in environments where the safety and replacement of manual labor are urgent concerns. It excels in machine tending and pick-and-place automation within greenhouses, warehouses, and recycling facilities, enhancing productivity while prioritizing worker safety.

Sarcomere Dynamics' commitment to innovation is embodied in every model we develop, all engineered for seamless compatibility within our product ecosystem. This interconnectivity ensures that as Sarcomere releases newer, more advanced models, our clients can effortlessly transition, leveraging existing AI, ML, and kinematic models for sustainable growth and adaptability.

Engage with us to explore how the ARTUS Lite can be integrated into your operations, ushering in a new standard for robotic solutions across various sectors:

1. Smart Manufacturing and Automation: Our high dexterity robotic hands transform manufacturing processes by automating complex tasks with human-like dexterity; performing repetitive or hazardous tasks; and integrating seamlessly with legacy manufacturing systems, enhancing productivity without significant overhauls.
2. Agricultural Automation: Our robotic hands revolutionize agriculture by efficiently picking fruits and vegetables, addressing labor shortages, and performing delicate sorting and packaging tasks with high precision.

## Technical Information

### System Overview

Designed for indoor industrial operations to automate menial labor\*

Rugged construction to withstand high force grips and impact\*

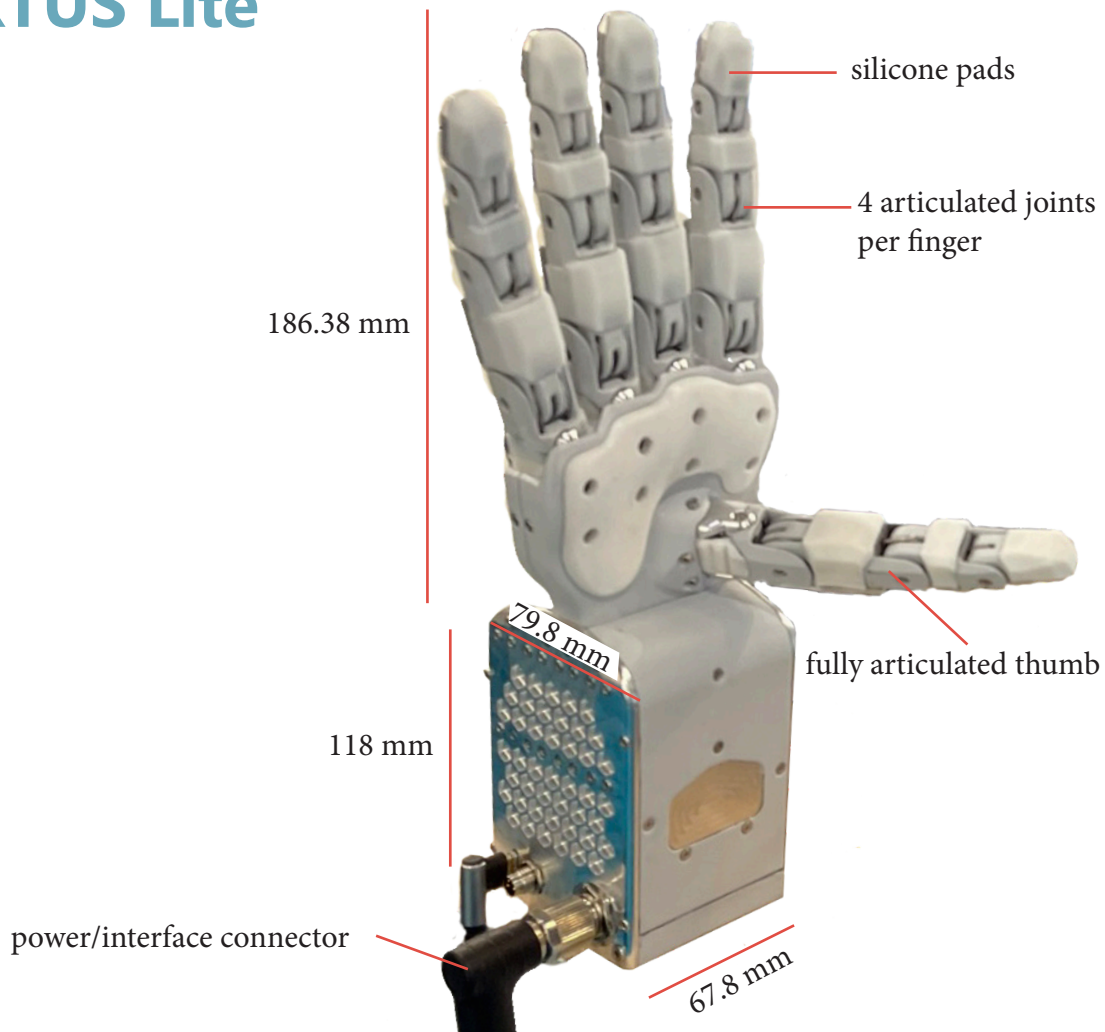
Internal sensing of finger joint positioning and force application

Compatible with all COBOT systems

Connectors/Interface: ISO 9409-1-50-4-M6, USB-C Serial, WiFi, RS485, and Canbus\*

*\* speak to our R&D team to customize for your unique needs*

# ARTUS Lite



## Mechanical Overview

Joints	20 articulated joints (4 per finger and 1 thumb)
Degrees of Freedom	20 (16 actuated and 4 under actuated DoF)
Weight	1.4 kg
Speed - Open/Close	1 Hz
Strength - force at fingertips	1.5 kg
Max Payload Capacity	5 kg (contact us for larger payloads up to 20 kg)
Materials	Carbon Fiber, Aluminum and Silicone
Power Supply	24 volts DC (200 W)



## 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.**

