

seed studio

INDUSTRIAL PRODUCT DATASHEET

Amazing Hand (Right Hand): The Open-Source Robotic Hand Developer Kit

Amazing Hand is a 3D-printed, open-source humanoid hand with 8 degrees of freedom and four fingers.

SKU

100063642

UPDATED

2026-05-08 02:50:28

PRICE

\$99.00(Excl. VAT)



Overview

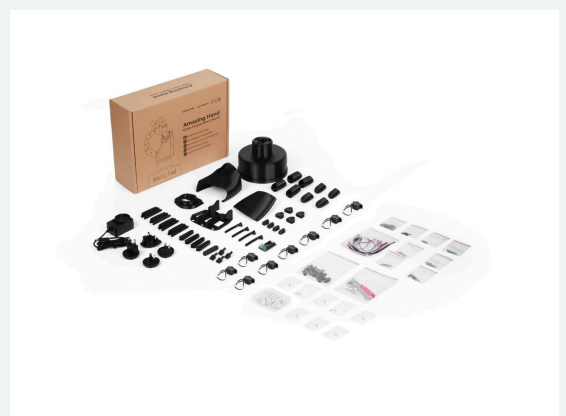
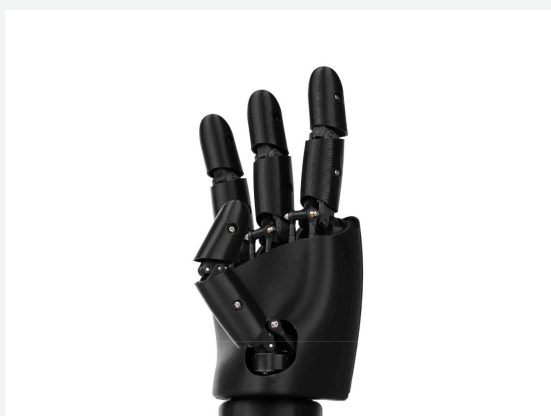
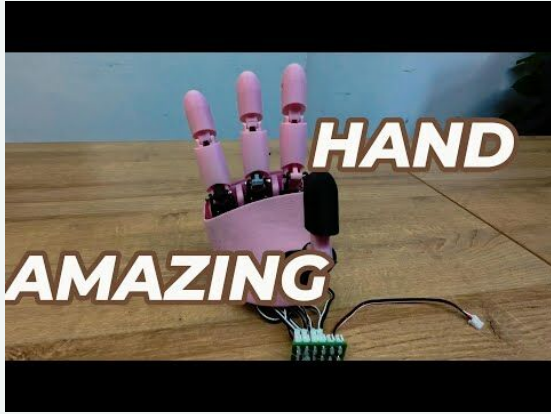


Amazing Hand is a 3D-printed, open-source humanoid hand with 8 degrees of freedom and four fingers. Fully actuated internally, lightweight (400 g), and low-cost, it features flexible shells for natural movement. Perfect for research, education, and robotics, it combines dexterity, simplicity, and accessibility in one compact design.

Key Features

- 01 Open-Source Design** The Amazing Hand is fully open-source, with all code and mechanical designs freely available. This allows easy customization and adaptation for a wide range of robotics projects.
- 02 8 Degrees of Freedom (DOF)** It features eight degrees of freedom across four fingers, each with two articulated phalanges. This enables versatile and natural hand movements.
- 03 Compact and Lightweight** All actuators are housed inside the hand, eliminating external cables. At only 400 g, it is lightweight and easy to integrate into various applications.
- 04 3D-Printable and Cost-Effective** The hand is fully 3D-printable and includes all modular components, making it an affordable option for students, hobbyists, and researchers.
- 05 Ideal for Research and Education** Its open-source and accessible design makes it perfect for AI experiments and robotics learning. It is also suitable for data collection and algorithm validation.

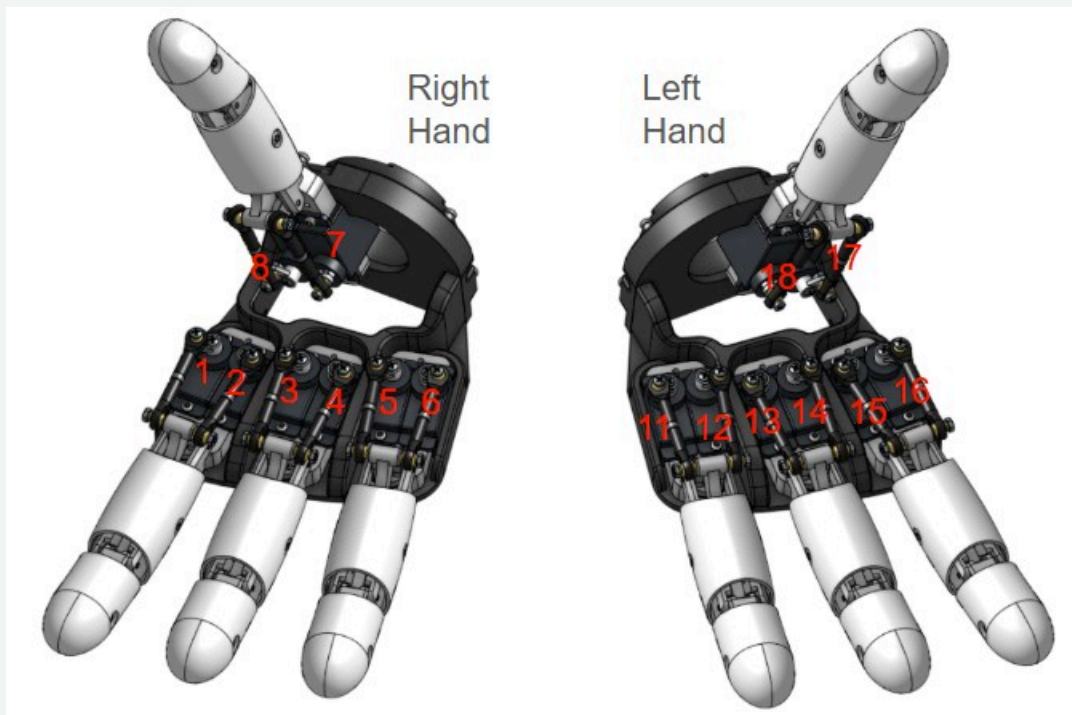
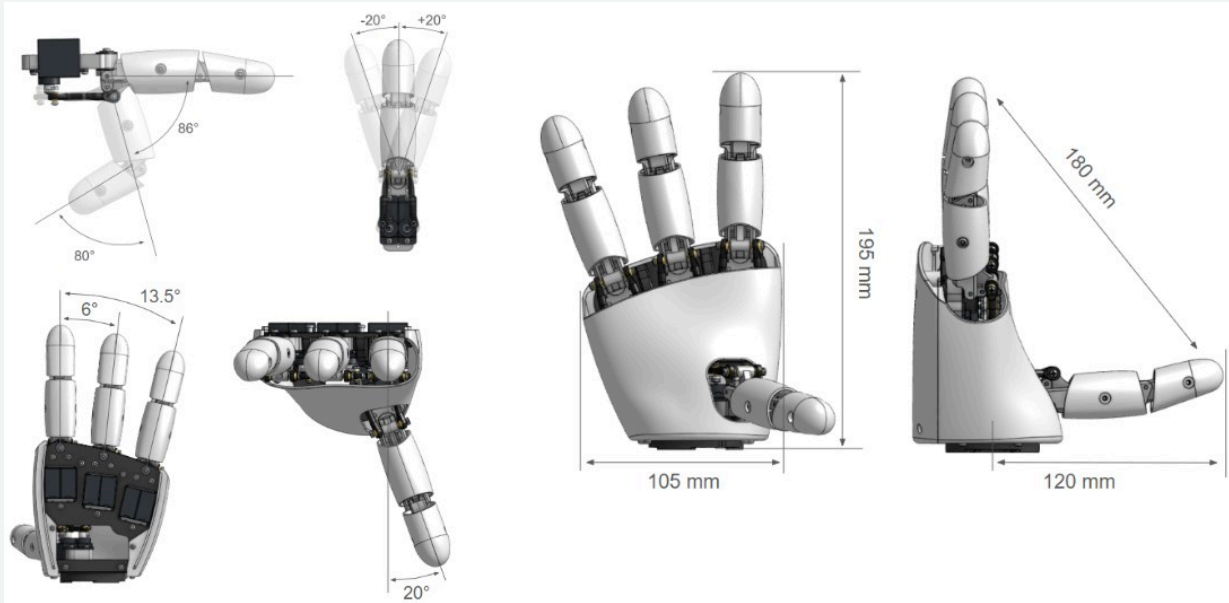
Product Gallery



Specification

Module	Amazing Hand
Supported Controller	Raspberry Pi / NVIDIA Jetson /MCU
Operating Temperature Range	0°C~40°C
Weight	400g (withoutServo)
Construction	Fully 3D printable with rigid "bones" and flexible TPU shells
Actuation	Parallel mechanism with 2x Feetech SCS0009 servos per finger
Motion	Flexion/Extension & Abduction/Adduction via differential motor movement
Feetech SCS0009 Communication Protocol	UART
Feetech SCS0009 Rated Input Voltage	5V
Feetech SCS0009ServoRated Torque	1.89KG.cm
Feetech SCS0009 Rated Current	300mA

Hardware Overview



Applications

- **Strain Gauge Glove Control:** Wear a custom glove for real-time, immersive, one-to-one control of the robotic hand.
- **Hand Posture Estimation Control:** Use a standard camera to capture your hand's posture and directly map its movements to the robotic hand without any wearable devices.
- **Joint Angle Recording:** Log precise angle data from each servo in real-time.
- **Visual Data Capture:** Synchronize and capture video feeds from a camera during operation.
- **Task Demonstration Recording:** Easily record complete task demonstrations for training AI models, such as in imitation learning.
- **Sensor Streaming:** Stream servo data (position, load, temperature) to a host computer for more intensive processing, data visualization, and system monitoring.

Part List

Category	Item Name / Description	Specification / Note	Qty
Electronics	PCBA Servo Driver Board	Compatible with Seeed Studio XIAO	1
Feetech Servo	Model: SCS0009	8	
Power Supply	DC Power Adapter	12V 3A (5.5*2.5mm)	1
DC Power Pigtail Cable	Female to Stripped Wire	1	
Data Breakout	3-Pin Header Breakout Board	SCS-Y4-2012	8
3-Pin Cables	150mm	8	
Structure	Amazing Hand Full Structural Kit	Includes fingers, palm, wrist shells & frames (Black/ABS)	1 Set
Decorative Stickers	Includes Logo & Model ID	1 Sheet	
Linkage	Ball Linkage Rods	M2*L19mm Black	16
Stainless Steel Pins	D2*L10mm / D2*L16mm, etc.	1 Set	
Fasteners	Assembly Screw Pack	M2, M2.5 various sizes (spares included)	1 Pack
Lock Nuts / Washers	M2-M4 sizes	1 Pack	
Tools / Acc.	Phillips Screwdriver	Red Handle	1

Compliance & Logistics

HSCODE	9023009000
USHSCODE	9023000000
EUHSCODE	9023001000
COO	CHINA

Logistics	Value
ECCN	EAR99
HSCODE	9023009000
USHSCODE	9023000000
EUHSCODE	9023001000
COO	CHINA

Resource Links

- <https://www.seeedstudio.com/Amazing-Hand-Right-Hand-The-Open-Source-Robotic-Hand-Developer-Kit.html>
- [SCS0009ServoMotorDatasheet](#)
- [ServoAdapyorBoardforSeeedStudioXIAODatasheet](#)
- [3DPrintedPartsFiles](#)
- [NVIDIA® Jetson Orin™ Nano Super Developer Kit](#)

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