

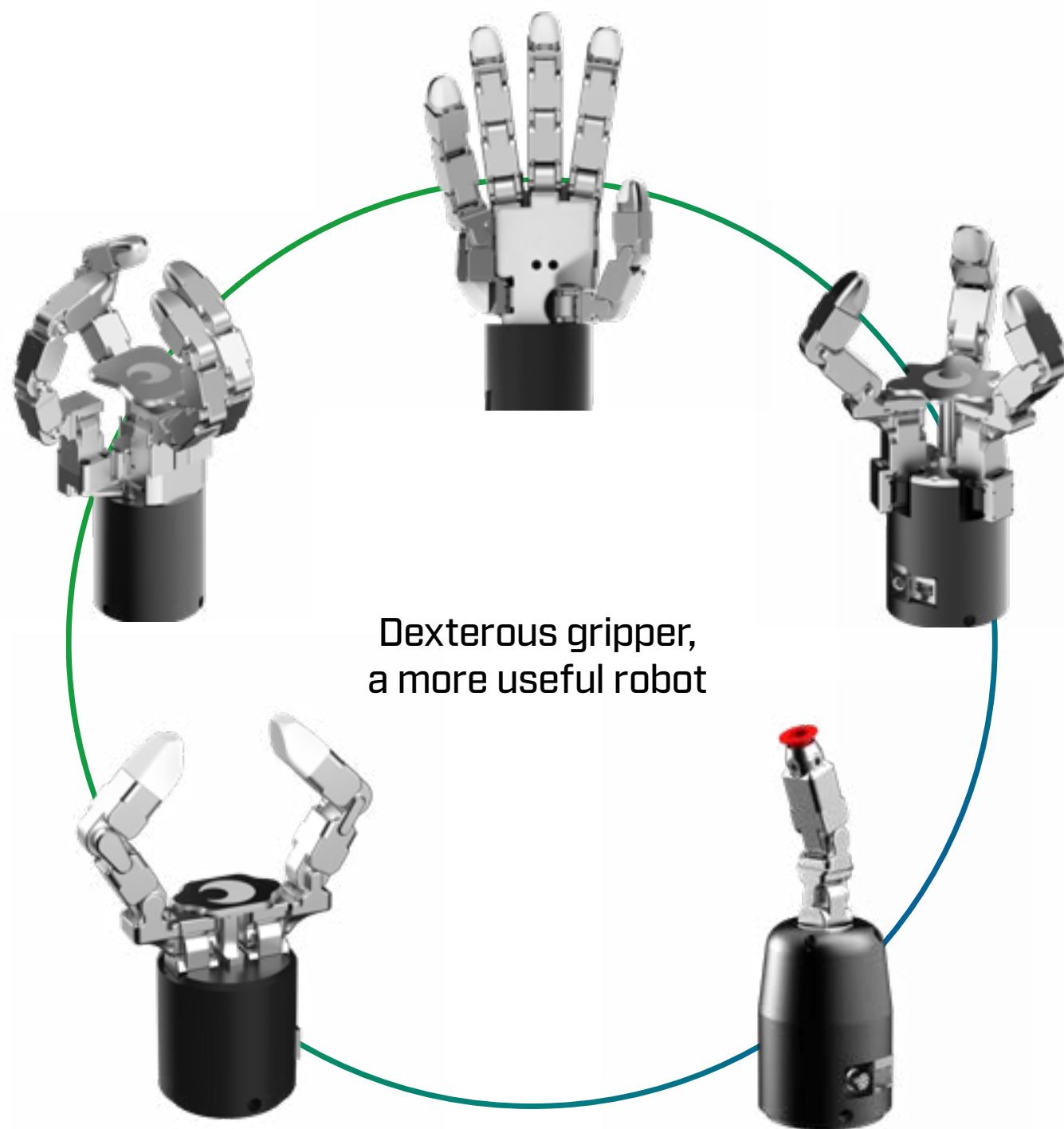
 TESOLLO

DELTO



“Enhancing the value of robots through unique technology”

The technologies that make robots more valuable. — **DELTO**



"DELTO" is Tesollo's brand referring to its differentiated robotic grippers and the robotic automation solutions that utilize them.



DELTO GRIPPER

DG-5F-M

DG-5F-S

DG-4F

DG-3F-M

DG-2F

DG-1F

DELTO SOLUTION

DS-PICK

DELTO GRIPPER

DG-5F-M

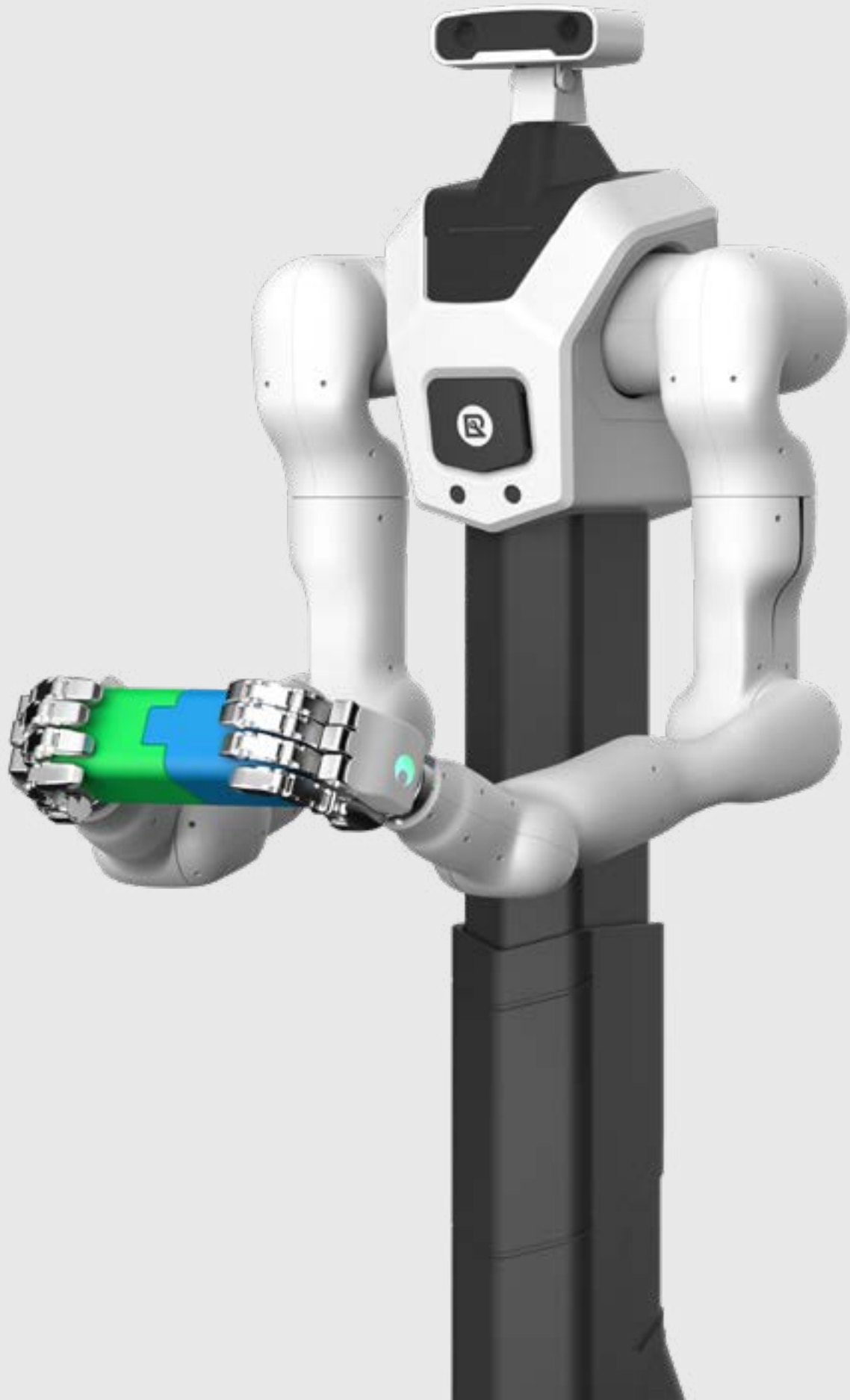
A robot hand capable of human-level grasping/manipulation
The robot hand, similar in size to an adult male's hand, is composed of 20 independently controlled joints.
It is suitable for tasks such as tool handling and object assembly/disassembly,
making it applicable to research institutions and various industries.



Motor Type	BLDC Motor
Power Supply	24 [V]
Current consumption	Max. 10[A]
Communications	Modbus(RTU, TCP), EtherNet(TCP/IP)
Control cycle	250Hz
Encoder	Absolute encoder
DoF	20 (4DoF/Finger)
Stall Torque (Joint)	2 [Nm]
Rated torque (Joint)	0.4 [Nm]
No-Load Speed of Each Joint	75 [rpm]
Pinching Payload (Rated, Max)	2.5, 5 [kg]
Envelop Payload (Rated, Max)	10, 20 [kg]
Weight	1,763 [g]



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demo video



DELTO GRIPPER

DG-5F-S

A compact, lightweight, high-DoF robotic hand

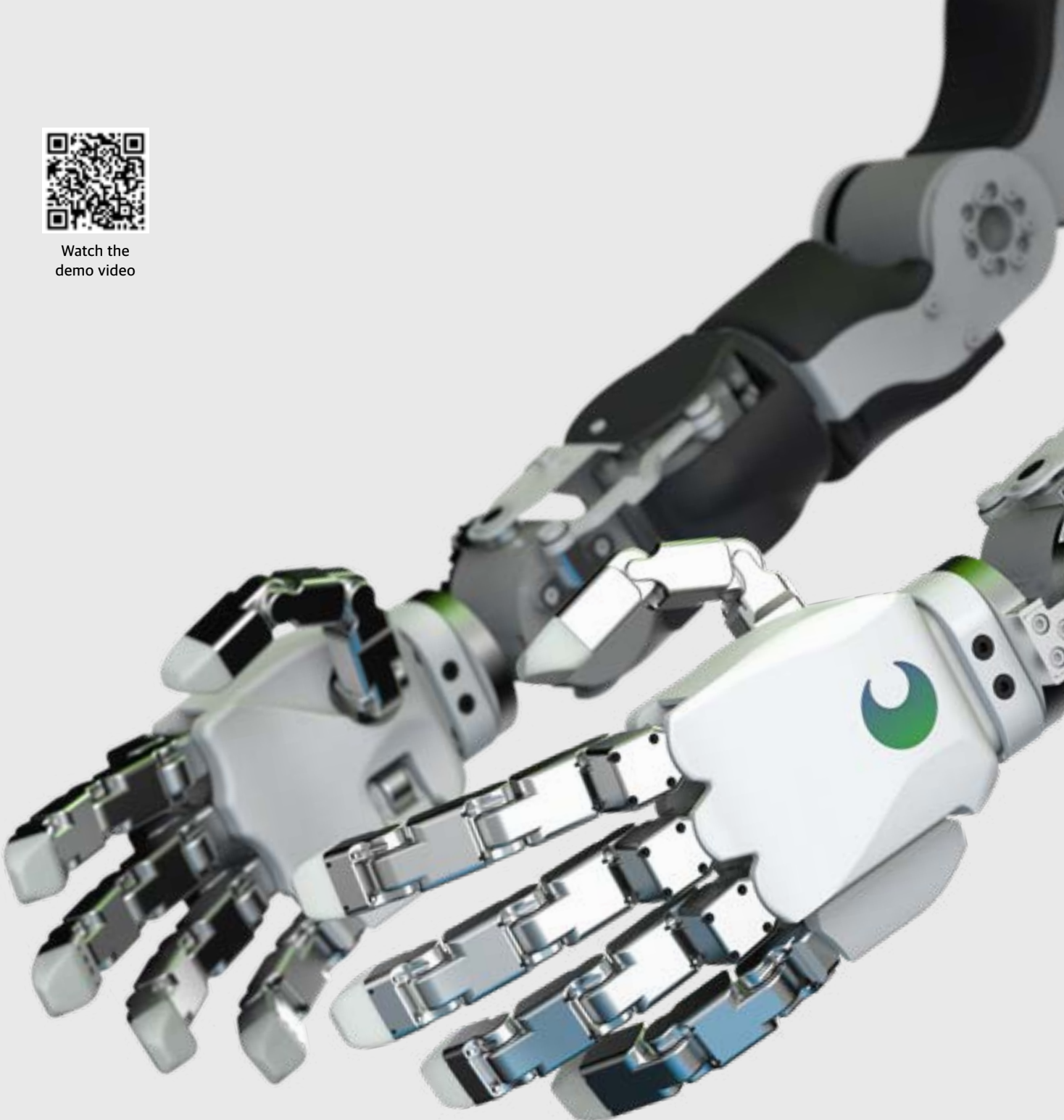
This high-DoF robotic hand combines a human-scale form factor with a lightweight design of under 1 kg, making it well-suited for humanoid robots and manipulation research. It serves as a high-performance research platform capable of reliably handling advanced tasks such as deformable object manipulation, tool use, and precision assembly and fastening.



Motor Type	DC Motor
Power Supply	24 [V]
Current consumption	Max. 10[A]
Communications	EtherNet(TCP/IP), Modbus(TCP)
Control cycle	500Hz
Encoder	Absolute encoder
DoF	20 (4DoF/Finger)
Stall Torque (Joint)	0.65 [Nm]
Rated torque (Joint)	0.11 [Nm]
No-Load Speed of Each Joint	85 [rpm]
Pinching Payload (Rated, Max)	1, 2 [kg]
Envelop Payload (Rated, Max)	7, 12 [kg]
Weight	880 [g]



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DELTO GRIPPER

DG-4F

A gripper that combines both humanoid hand and gripper functions.

This model features a flexible design that can transform its shape and includes the functions of a left hand, right hand, and gripper. It can securely grasp objects made of various materials and shapes, and it is also capable of tool handling tasks.

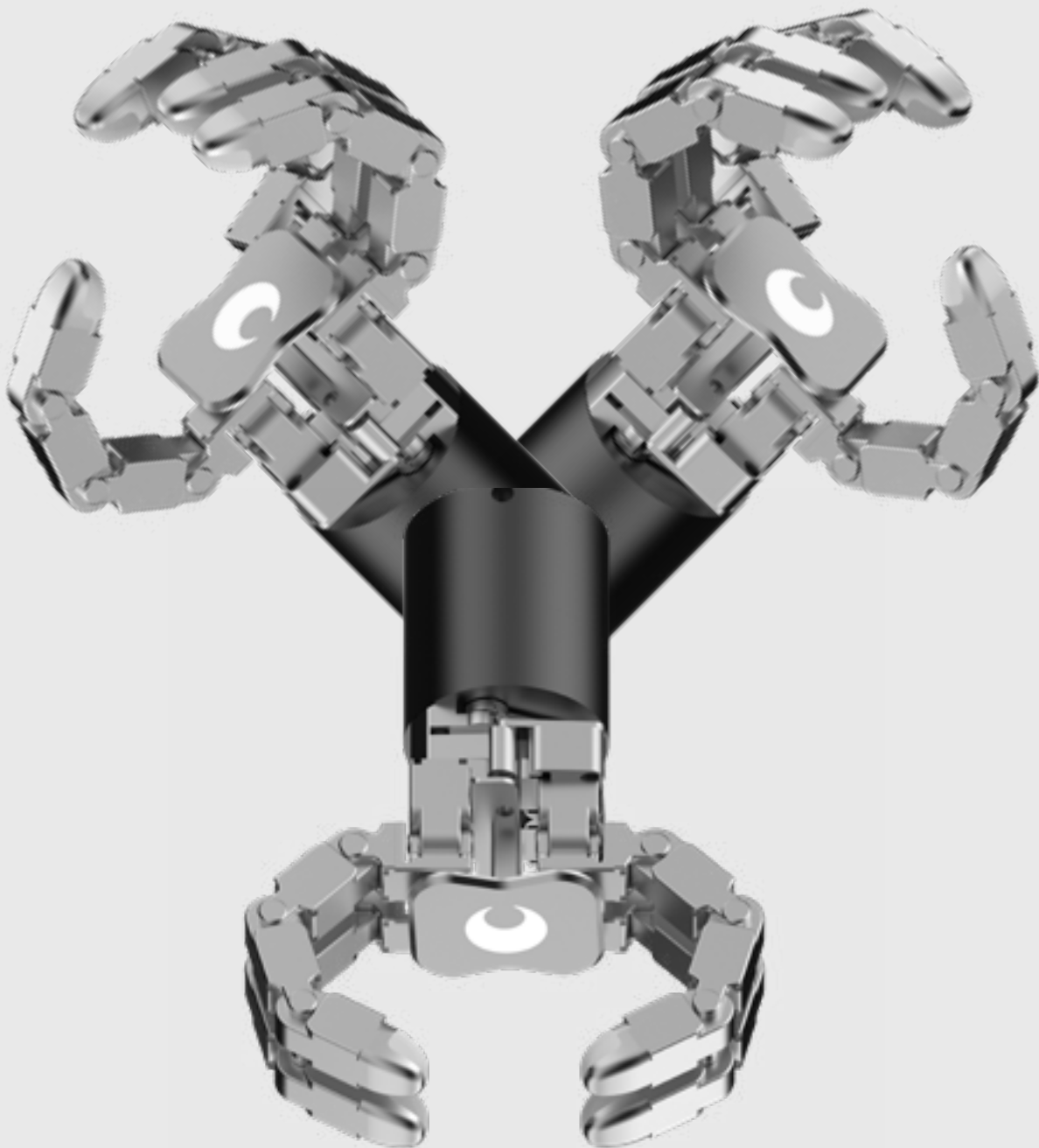
This makes it suitable for automating processes that involve a mix of picking and assembly operations.



Motor Type	BLDC Motor
Power Supply	24 [V]
Current consumption	10 [A]
Communications	Modbus(RTU, TCP), EtherNet(TCP/IP)
Control cycle	333Hz
Encoder	Absolute encoder
DoF	18 (4DoF/Finger+2DoF)
Stall Torque (Joint)	2 [Nm]
Rated torque (Joint)	0.4 [Nm]
No-Load Speed of Each Joint	75 [rpm]
Pinching Payload (Rated, Max)	3, 5 [kg]
Envelop Payload (Rated, Max)	10, 20 [kg]
Weight	1,494 [g]



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DELTO GRIPPER

DG-3F-M

3-Finger Robotic Gripper Optimized for Industrial Environments

A next-generation 3-finger robotic gripper with a modular design, it delivers strong, stable grasping while minimizing interference in confined spaces. Improved gear reduction and motor output enable precise, consistent grip control, with each finger operating independently. Module-level servicing and a standard bolt-mount interface make maintenance and system integration straightforward.



Motor Type	BLDC Motor
Power Supply	24 [V]
Current consumption	10 [A]
Communications	Modbus(RTU, TCP), EtherNet(TCP/IP)
Control cycle	333Hz
Encoder	Absolute encoder
DoF	12 (4DoF/Finger)
Stall Torque (Joint)	2 [Nm]
Rated torque (Joint)	0.4 [Nm]
No-Load Speed of Each Joint	75 [rpm]
Pinching Payload (Rated, Max)	2.5, 5 [kg]
Envelop Payload (Rated, Max)	10, 15 [kg]
Weight	1,114 [g]

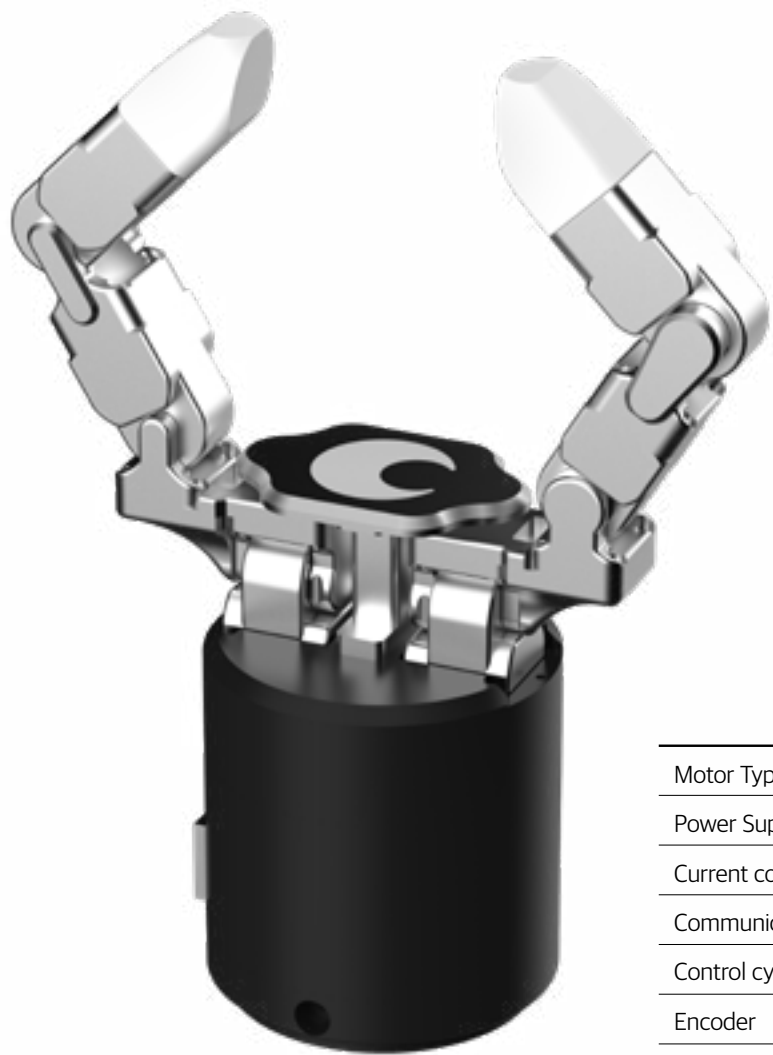


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DELTO GRIPPER DG-2F

A multi-joint two-finger gripper engineered for precise handling of diverse objects. It is optimized for repetitive precision tasks, capable of securely lifting up to 4 kg with a pinching mechanism. With its 6-DoF structure, it adapts easily to various object shapes, making it ideal for industrial automation.



Motor Type	BLDC Motor
Power Supply	24 [V]
Current consumption	10 [A]
Communications	Modbus(RTU, TCP), EtherNet(TCP/IP)
Control cycle	500Hz
Encoder	Absolute encoder
DoF	6 (3DoF/Finger)
Stall Torque (Joint)	2 [Nm]
Rated torque (Joint)	0.4 [Nm]
No-Load Speed of Each Joint	75 [rpm]
Pinching Payload (Rated, Max)	2, 4 [kg]
Envelop Payload (Rated, Max)	5, 10 [kg]
Weight	770 [g]



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DELTO GRIPPER
DG-1F

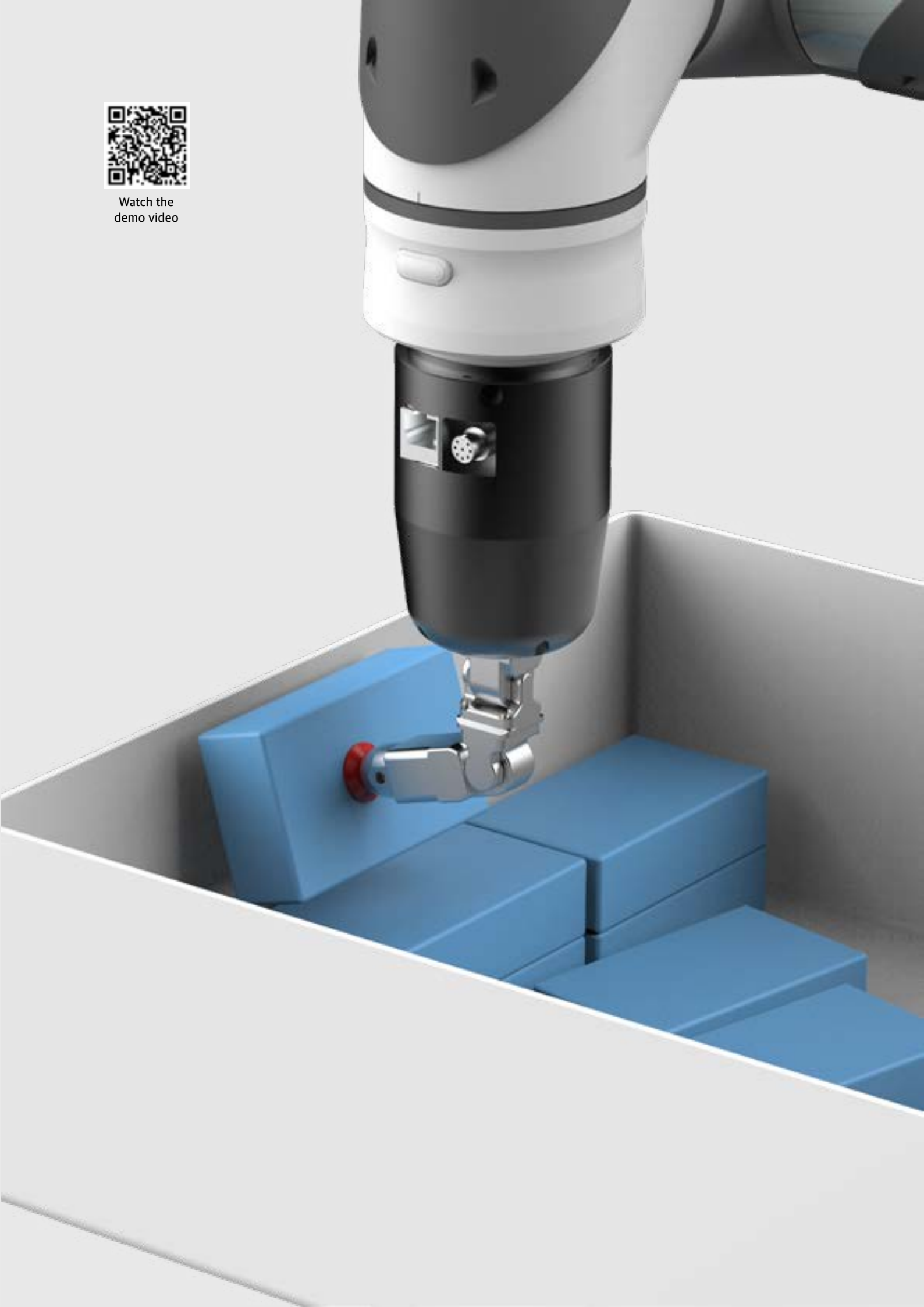
A vacuum gripper designed with extra pad freedom to reduce environmental interference. Combining 3-DoF motion and suction fingertips enables stable gripping even on uneven or awkward surfaces. It offers an efficient solution for vacuum handling, piece-picking, and other precision tasks.



Motor Type	BLDC Motor
Power Supply	24 [V]
Current consumption	6 [A]
Communications	Modbus(RTU, TCP), EtherNet(TCP/IP)
Control cycle	1,000Hz
Encoder	Absolute encoder
DoF	3
Stall Torque (Joint)	2 [Nm]
Rated torque (Joint)	0.4 [Nm]
No-Load Speed of Each Joint	75 [rpm]
Weight	710 [g]



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DELTO SOLUTION

DS-PICK

A robotic picking solution that enables the transport and manipulation of various objects.

This is an automated handling solution that integrates the DG-3F model, robot arm, and vision system, providing an optimized gripping method according to the material, shape, and size of the pre-learned object. It is suitable for manufacturing and logistics industries that require bin picking and piece picking of various objects.

Introduction Procedure

1. On-site assessment	Problem review and process analysis
2. System design	Optimal system design for detailed task analysis and efficient results
3. Internal testing	Conducting internal testing and correcting problems during a specified period of time
4. Field testing	Conducting field testing and collecting test results and issues during a specified period of time
5. On-site introduction	After analyzing the results, decide whether additional testing is required and discuss the feasibility of on-site installation



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Experience differentiated solutions with the DELTO series made by TESOLLO.



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