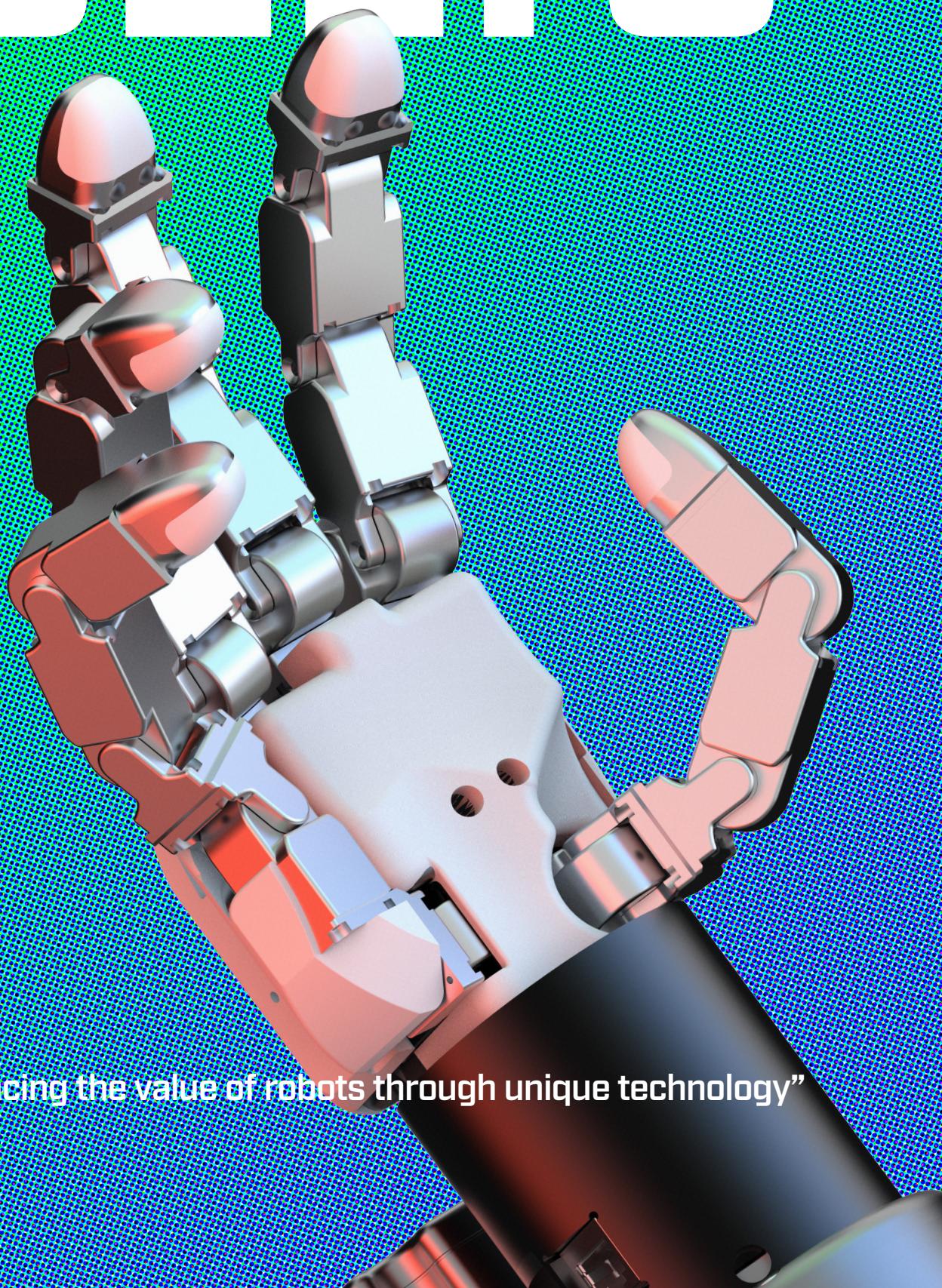


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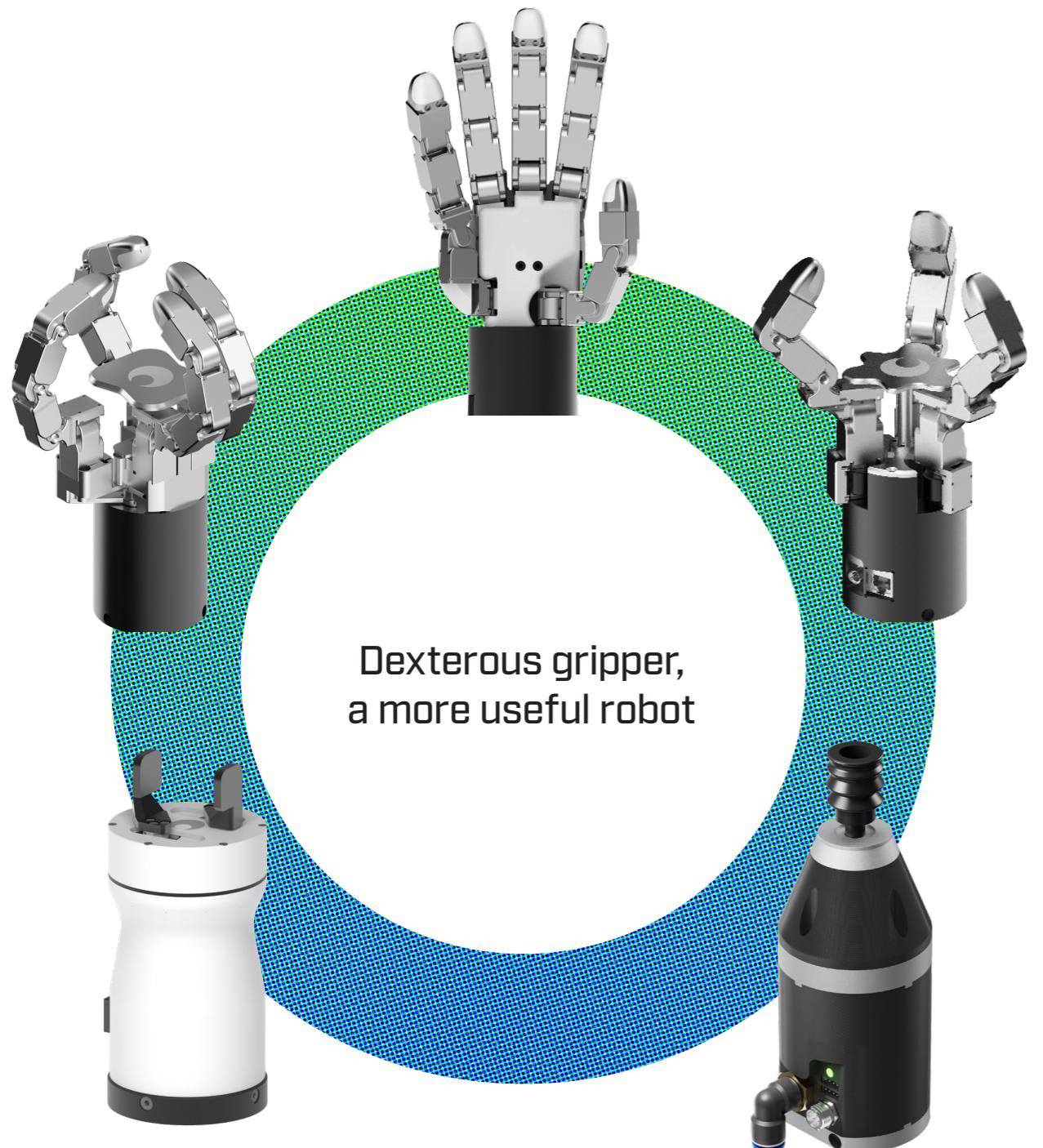
DELTO



“Enhancing the value of robots through unique technology”

The technologies that make robots more valuable.

— DELTO



Dexterous gripper,
a more useful robot

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

DELTO GRIPPER

DG-5F

DG-4F

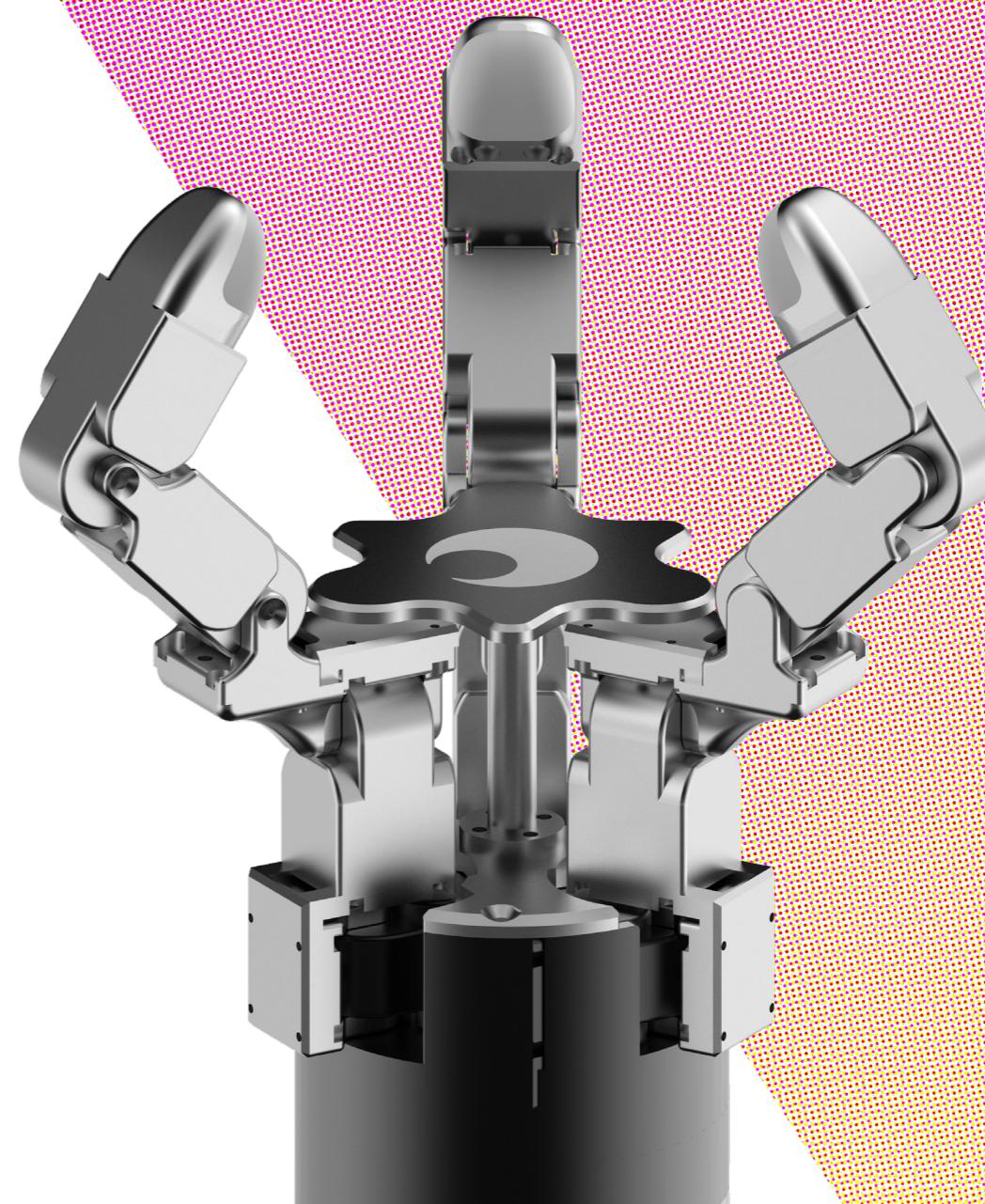
DG-3F

DG-2F

DG-V

DELTO SOLUTION

DS-PICK



DELTO GRIPPER

DG-5F



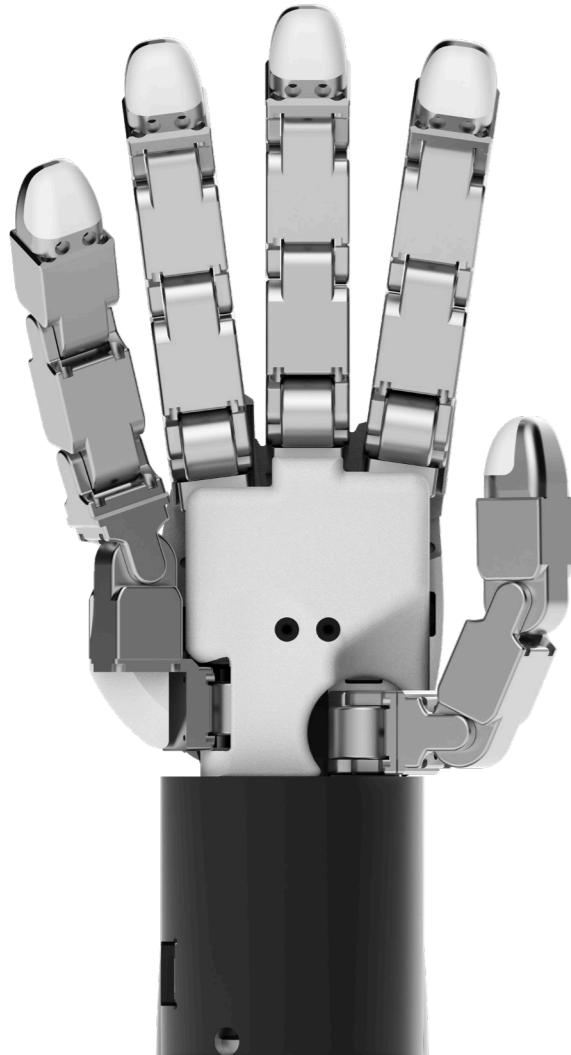
Watch the
demo video

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]



DELTO GRIPPER

DG-4F



Watch the
demo video

A gripper that combines both humanoid hand and gripper functions.

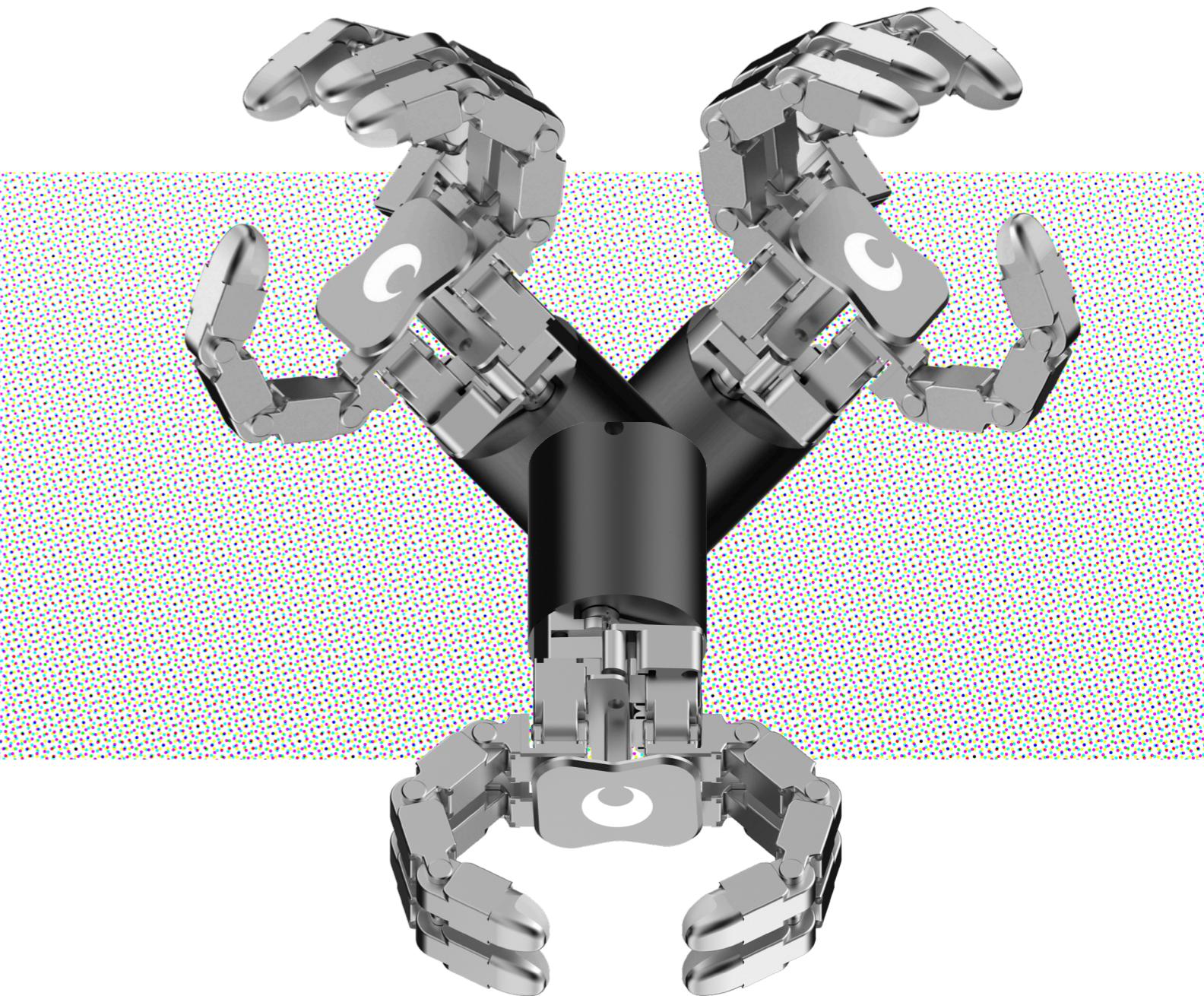
This model features a flexible design that can transform its shape and includes the functions of a left hand, right hand, and gripper.

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	Max. 10[A]
Communications	Modbus(RTU, TCP), EtherNet(TCP/IP)
Control cycle	300Hz
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)	2.5, 5 [kg]
Envelop Payload (Rated, Max)	7.5, 15 [kg]
Weight	1,700 [g]



DELTO GRIPPER

DG-3F-M

Advanced 3Finger Robot Gripper with Modular Design

A three finger, twelve joint gripper with a modular structure for easy maintenance. Compared to the DG-3F-B model, it offers enhanced durability and performance, enabling precise handling of various objects.

Ideal for smart factories, including manufacturing, logistics automation, and services.



Motor Type	BLDC Motor
Power Supply	24 [V]
Current consumption	Max. 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]

DELTO GRIPPER

DG-3F-B

Basic Model of the Multi Joint Delto Gripper

A three finger, twelve joint gripper designed for stable gripping of diverse objects.

Supports control algorithm testing and is suitable for research, manufacturing, logistics, and services. Perfect for function validation and initial deployment.



Power Supply	24[V] DC
Current consumption	Max. 10 [A]
Communications	Modbus(RTU, TCP), EtherNet(TCP/IP)
Control cycle	400Hz
Encoder	Absolute encoder
DoF	12 (4DoF/Finger)
Stall torque (Joint)	0.92 [Nm]
Rated speed (Joint)	65 [rpm]
Maximum gripping weight (Pinching)	2.5 [kg]
Maximum gripping weight (Envelop)	5 [kg]
Weight	1,000 [g]
Ambient temperature	-20 - +50°C
Ambient humidity	60% or less

DELTO GRIPPER

DG-2F

The DG-2F is a customizable 2-finger gripper with adjustable gripping force by adding up to 3 motors, allowing it to handle up to 4.5 kg.

An optional brake provides fail-safe capability, maintaining grip even during power loss.

Its sealed electronics and washable gasket design make it easy to maintain in various environments.



Watch the
demo video



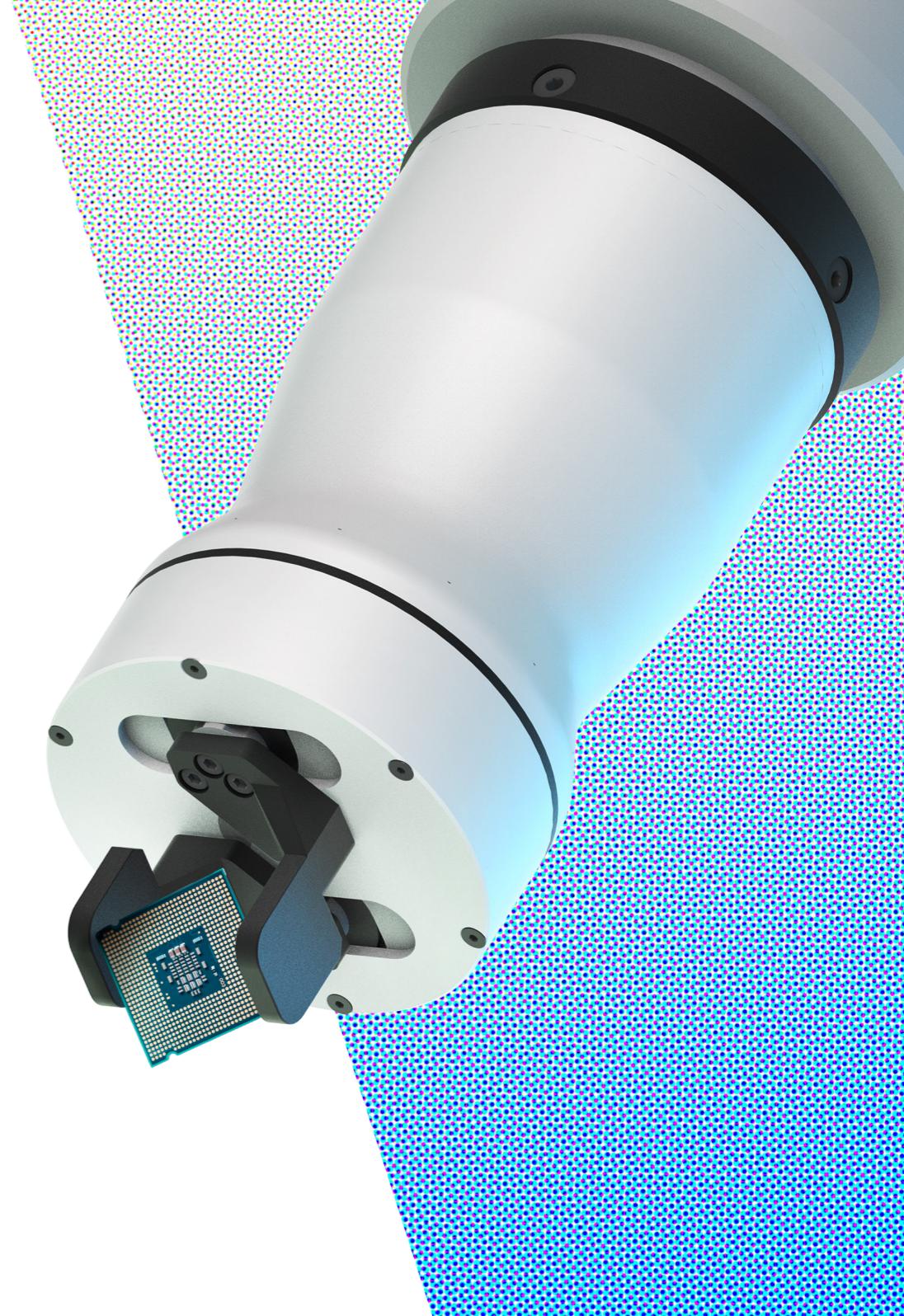
Power Supply	24[V] DC
Current consumption	Max. 1-3 [A]
Communications	Modbus (RTU, TCP)
Control cycle	400Hz
Encoder	Absolute encoder
Motor	BLDC motor
DoF	1 (Parallel Two Finger)
Payload	1.5 / 3 / 4.5 [kg]
Gripping speed	7~125 [mm/s]
Weight	900 [g]
Ambient temperature	-20 ~ +50°C
Ambient humidity	90% or less (IP68)



An optional built-in Fail Safety Function ensures that the gripped object is not lost even when the power is cut off.



Fully shielded electrical parts provide water and dust proof performance, and the washable gasket structure makes maintenance and repair easy.



DELTO GRIPPER **DG-V**

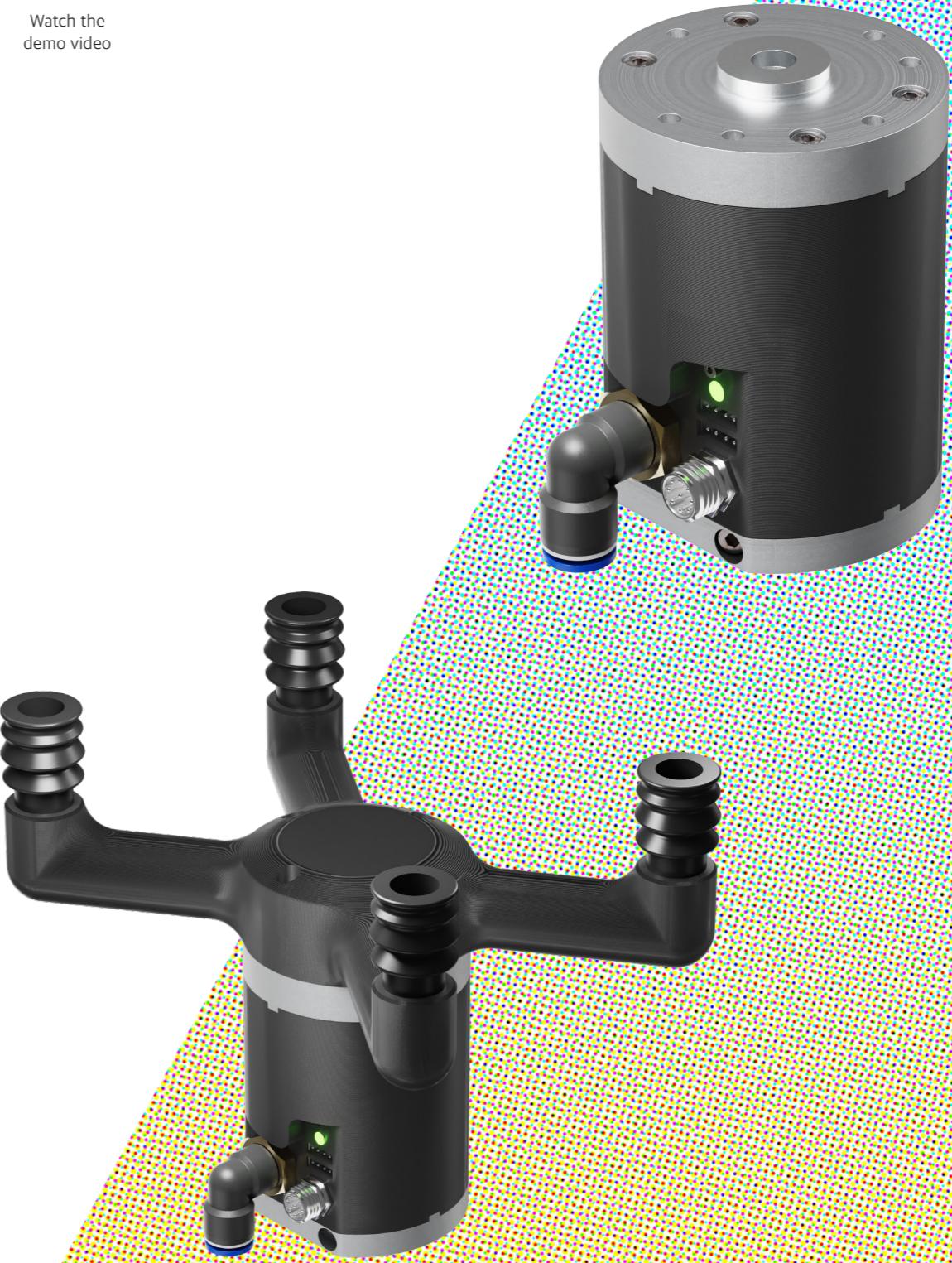


Watch the
demo video

DG-V is the simplest and most reliable gripper.
This model is a vacuum suction type gripper that can be assembled
from 1 to N pieces and is suitable for handling simple-shaped objects.
It is suitable for simple object transfer tasks in industries such as logistics and manufacturing.



Power Supply	24V
Current consumption	300mA
Communications	I/O
Grip type	Vacuum suction
Sensor	Pneumatic sensor
Pipe connection diameter	Rc(PT) 1/4
Operating pressure	300hPa ~ 1300hPa
Maximum operating frequency	10 cycle/sec
Response time	20ms 0 0 0
Ambient humidity	-10°C ~ 50°C

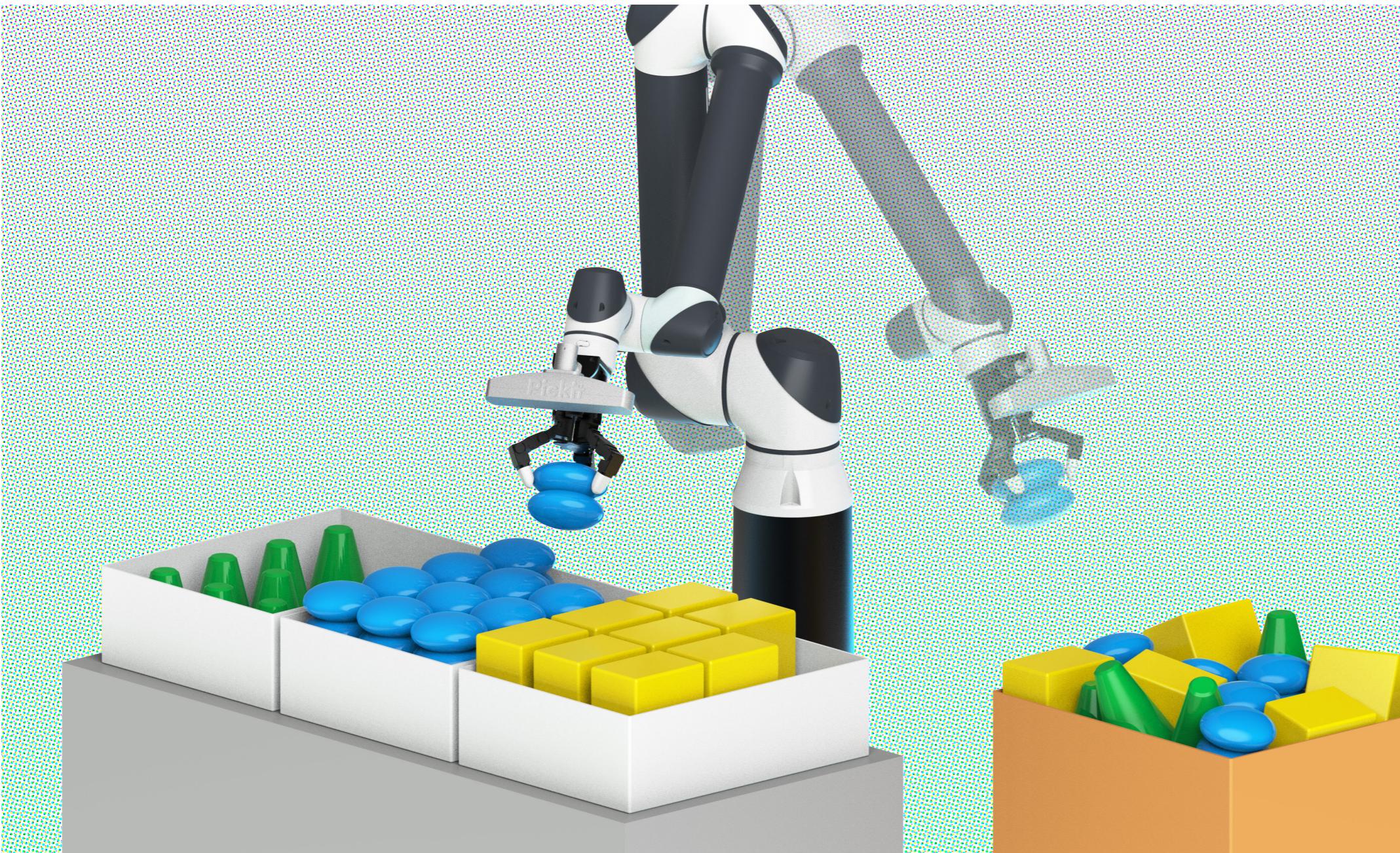


This product can be customized.

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.



Watch the
demo video

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



Experience differentiated solutions with the DELTO series made by TESOLLO.



www.tesollo.com

Head office

26F, 165, Convensia-daero, Yeonsu-gu,
Incheon, Republic of Korea

laboratory

A-26F, 43, Iljik-ro, Gwangmyeong-si,
Gyeonggi-do, Republic of Korea

E-Mail

support@tesollo.com