

G-VAC AS

High-Speed Electric Vacuum Gripper

For pneumatic-free gripping
or securing of flexible and
porous workpieces.



For automation specialists who are reimagining
performance, efficiency, and sustainability.



Secure vacuum gripping and holding of workpieces made of flexible, uneven, and porous materials such as fabrics, cardboard, wood, films, electronic components, or food products – without the use of a compressed air system.

Benefits

- **Reduced system complexity**
No compressed air network, no valves, no hoses
- **Up to 90% lower energy consumption**
Energy used only during suction, no consumption while holding
- **Maintenance-free and maximum operational reliability**
Robust design with few, functional components
- **Quiet operation without air turbulence**
No blowing, no noise – ideal for human-machine environments
- **More freedom in tight installation situations**
Compact design and low weight

Technical Data

Electrical connection	M8 connector, 4-pin
Protection class	IP54
Voltage	24 V - DC
Rated current / Switching current	30 mA / 750 mA
Payload	up to 15 kg with special attachments
Operating temperature	0...40 °C
Weight (without suction cup)	<120 g
Dimensions (ØxH)	70 mm x 58.5 mm
Max. vacuum	400 mBar
Sound level during switching operation	40–45 dBA

The Technology

The electric vacuum gripper was developed based on 15 years of research into nickel-titanium alloys. Our shape-memory actuators consist of micrometer-thin wires capable of moving loads up to 10,000 times their own weight.

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System Features

Active suction with a flat diaphragm pump

Integrated acceleration and vacuum sensors

Automatic readjustment in case of vacuum drop

Fail-safe principle: no release in the event of a power failure

Status and diagnostic signals to the PLC

Visual operating/fault indicator

Quiet operation

Use of standard vacuum grippers

Available with robot flange (e.g., Universal Robots)

Compatible with all common fieldbus systems



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