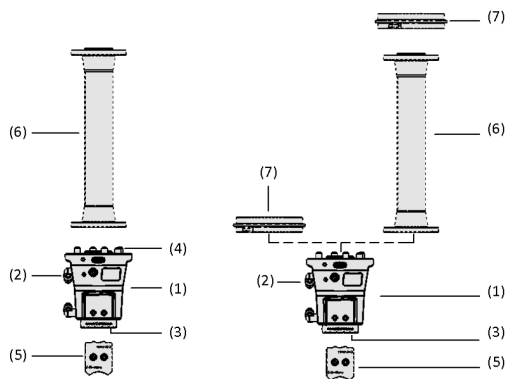


# Handling Sets SGM-SV

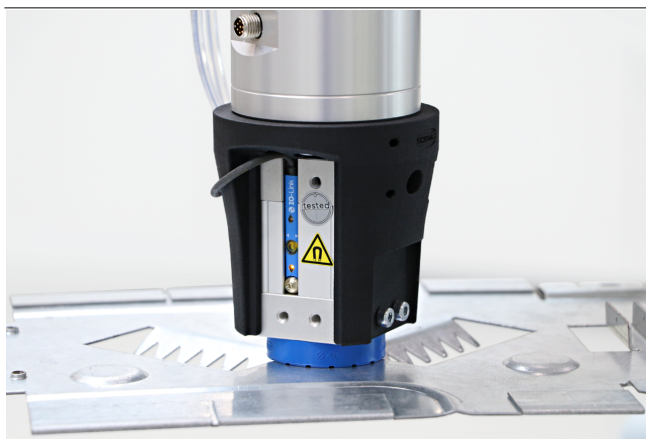
Gripping surface (Ø): 40 mm



Handling Sets SGM-SV



System design Handling Sets SGM-SV



Magnetic grippers SGM-SV when handling punched metal sheets

## Suitability for industry specific applications

### Application

- Handling set based on a magnetic gripper for integration on lightweight robots
- Magnetic gripper with high holding forces for handling e.g. perforated sheets, complex laser-cut parts, sheets with holes and cutouts
- Handling of ferromagnetic components
- Use in HRC applications (human-robot collaboration)

### Design

- HRC-suitable housing with magnetic gripper SGM-SV and retrofittable proximity switch (switching state of magnetic gripper: gripping / releasing) (1)
- Compressed air connections for gripping / releasing (2)
- Gripping surface with friction ring (3)
- Robot interface in flange design (4), adapter flanges for other robot types (7)
- Additional elements for gripping round workpieces (5)
- Extension for reaching e.g. into deep containers (6)

### Product highlights

- Ready-to-install set with push-in fittings, hose and cable attachments for fast and safe robot integration
- Bistable function with permanent magnet ensures secure gripping even in the event of power failure
- Minimal space requirement and low weight thanks to compact design and lightweight construction
- Gripping surface with friction ring to absorb high lateral forces
- Commissioning software for simple and fast parameterization

# Handling Sets SGM-SV

Gripping surface (Ø): 40 mm

## Designation code Handling Sets SGM-SV

<b>ROB-SET SGM-SV</b>	–	<b>40</b>	<b>UR</b>
<b>1</b>		<b>2</b>	<b>3</b>

### 1 – Abbreviated designation

Code	Version
ROB-SET SGM-SV	Handling set SGM-SV

### 2 – Diameter

Code	Diameter in mm
40	ø 40

### 3 – Compatibility

Code	Version
UR	Universal Robots

The handling set SGM-SV is supplied assembled. The product consists of:

- Gripper of type SGM-SV magnetic gripper
- Plastic housing with interface for UR robot flange
- Plug-in screw unions
- Cable ties

Available spare parts: Friction ring for gripping surface

Available accessories: Proximity switch, prisms for gripping round and rounded workpieces, adapter flanges, flange extension, energy chain with UR-cap

## Ordering data Handling Sets SGM-SV

Type	Part no.
ROB-SET-SGM-SV-40 9409-1	10.01.17.00593

## Ordering data Spare parts Handling Sets SGM-SV

Type	Spare parts	Part no.
ROB-SET-SGM-SV-40 9409-1	Magnetic gripper (prepared f sensor)	10.01.17.00229

Type	Spare parts	Part no.
ROB-SET-SGM-SV-40 9409-1	Friction ring	10.01.17.00137

## Ordering data Accessories Handling Sets SGM-SV

Type	Part no.
Flange set robot Yaskawa	SET ROB-SET 63 YASKAWA 10.01.17.00602
Flange set robot Fanuc	SET ROB-SET 31.5 FANUC 10.01.17.00603
Flange set extension universal robots	SET ROB-SET 50 9409-1 UR 200 10.01.17.00601
Recording element double prism	ADP-E-TRI 40 SET 10.01.17.00604
Proximity switch NPN	NAEH-SCHA SMAGN-NPN S050 300 10.01.17.00215
Proximity switch PNP	NAEH-SCHA SMAGN-PNP S051 300 10.01.17.00199
Valve assembly	VENT-BGR 24V-DC E-KET 2,2M 10.01.45.00033
Valve assembly	VENT-BGR 24V-DC E-KET 1,8M 10.01.45.00032
Solenoid valve	EMVP 8 24V-DC 5/3 NO 10.05.02.00246
Connection cable for solenoid valves (5 m, PVC)	ASK B-Form-C 5000 K-3P 21.04.06.00084
Connection cable, M12 4-pole, 5 m, PUR, straight	ASK B-M12-4 5000 K-4P 21.04.05.00263
Adapter plug, M8-4 male connector, M12-4 female connector, straight	AD-ST-G S-M8-4 B-M12-4 A 21.04.05.00579
Vacuum hose, outer diameter 4 mm, inner diameter 2 mm	VSL 4-2 PU MI-TR 10.07.09.00001
Plug-in screw union angle	STV-W G1/8-AG 4 10.08.02.00355

## Technical data Handling Sets SGM-SV

Type	Size	for	Weight [kg]
ROB-SET-SGM-SV-40 9409-1	40	Universal Robots	0.35

# Handling Sets SGM-SV

Gripping surface ( $\emptyset$ ): 40 mm

## Design data Handling Sets SGM-SV

Type	D [mm]	d [mm]	d1 [mm]	Dmk [mm]	G1	H [mm]	H1 [mm]	LG1	Angle [°]	W [°]
ROB-SET-SGM-SV-40 9409-1	75	4	6.1	50	M6-M	74	84	7	45	15

## Multimedia product presentation

Medium	Link
Product video	<a href="https://vimeo.com/555701931">https://vimeo.com/555701931</a> <a href="https://vimeo.com/580770598">https://vimeo.com/580770598</a>