

## Magnetic gripper

SGM-HT-HP 50 G1/4-IG

Part no.: 10.01.17.00402

<https://www.schmalz.com/10.01.17.00402>

Home > Vacuum Technology for Automation > Vacuum Components > Special Grippers > Magnetic Grippers > Magnetic Grippers SGM-HP/-HT > SGM-HT-HP 50 G1/4-IG

### Magnetic gripper for handling metal sheets with holes



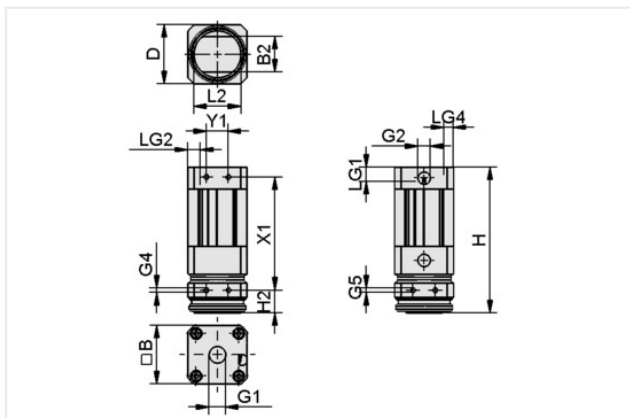
Socket: G1/4"-F

Pressure range (operating pressure): 2.5 ... 6.0 bar

Holding force max. friction ring: 330 N

Holding force max. without friction ring: 520 N

### Design Data



| Attribute | Value     |
|-----------|-----------|
| B         | 50.70 mm  |
| B2        | 31.20 mm  |
| D         | 48.40 mm  |
| G1        | G1/4"-F   |
| G2        | G1/8"-F   |
| G4        | M5-F      |
| G5        | M4-F      |
| H         | 123.20 mm |
| H2        | 15.50 mm  |
| L2        | 41.50 mm  |
| LG1       | 10 mm     |
| LG2       | 6 mm      |
| LG4       | 6.50 mm   |
| X1        | 100 mm    |
| Y1        | 15 mm     |

Note: Contact surface of grippers without friction ring (stadium-shaped) corresponds to dimension D x B2; with friction ring (round) dimension D

### Technical Data

| Attribute                                | Value |
|------------------------------------------|-------|
| Holding force max. without friction ring | 520 N |

### Contact Schmalz

J. Schmalz GmbH | Johannes-Schmalz-Str.1, 72293 Glatten, Germany | +49 7443 2403-102 | [customercenter@schmalz.de](mailto:customercenter@schmalz.de)

## Magnetic gripper

SGM-HT-HP 50 G1/4-IG

Part no.:10.01.17.00402

<https://www.schmalz.com/10.01.17.00402>

|                                               |                 |
|-----------------------------------------------|-----------------|
| Holding force max. friction ring              | 330 N           |
| Sheet thickness opt f. holding force max.     | 6 mm            |
| Holding force 2mm-sheet without friction ring | 370 N           |
| Holding force 2mm-sheet friction ring         | 270 N           |
| Remaining force                               | 0.30 N          |
| Pressure range (operating pressure)           | 2.5 ... 6.0 bar |
| Installation position                         | BEL             |
| Control valve                                 | Bistable        |
| Working temperature max.                      | 350 °C          |
| Operating temperature                         | 5 ... 150 °C    |
| Weight                                        | 770 g           |
| Product family                                | SGM-HP-HT       |

Note: The specified holding forces are static values under optimal conditions (primarily depending on material and surface characteristics). For system designs, a safety factor of  $S = 3$  must be applied. Holding forces SGM-HT-HP at 20 °C; can be used for workpiece temperatures up to 350 °C (depending on process conditions), the influence of temperature can reduce holding forces by up to 30%

### Accessories



#### HTS-A2 SGM-HP 50 OP

Part no.:10.01.17.00568

Connection 1: Bolt with slot Ø19mm

Construction use: Magnetic gripper SGM-HP

Size: 50



#### HTS-A3 SGM-HP 50 OP

Part no.:10.01.17.00562

Connection 1: Ball head 28.5 mm

Construction use: Magnetic gripper SGM-HP

Size: 50

### Contact Schmalz

J. Schmalz GmbH | Johannes-Schmalz-Str.1, 72293 Glatten, Germany | +49 7443 2403-102 | [customercenter@schmalz.de](mailto:customercenter@schmalz.de)

## Magnetic gripper

SGM-HT-HP 50 G1/4-IG

Part no...:10.01.17.00402

<https://www.schmalz.com/10.01.17.00402>



### HTS-A5 SGM-HP 50 OP

Part no...:10.01.17.00564

Connection 1: Ball head 32 mm

Construction use: Magnetic gripper SGM-HP

Size: 50



### HPS-SGM-HP 2M8 50 OP

Part no...:10.01.17.00652

Construction use: Magnetic gripper SGM-HP

Connection 1: 2x screws M8

Size: 50

Shape: One-piece



### SCHUTZ SGM-50 ST

Part no...:10.01.17.00520

Construction use: Magnetic gripper

Size: 50

Material: Steel

## Contact Schmalz

J. Schmalz GmbH | Johannes-Schmalz-Str.1, 72293 Glatten, Germany | +49 7443 2403-102 | [customercenter@schmalz.de](mailto:customercenter@schmalz.de)

## Magnetic gripper

SGM-HT-HP 50 G1/4-IG

Part no.: 10.01.17.00402

<https://www.schmalz.com/10.01.17.00402>



### REIB-RING SGM 50 HT2-65

Part no.: 10.01.17.00412

Construction use: Magnetic gripper

Size: 50

External diameter D: 50 mm

Internal diameter d: 41.5 mm



### ADP-E-TRI 50 SET

Part no.: 10.01.17.00422

Size: 50

Shape: Triangle

Workpiece diameter (min): 19 mm

Workpiece diameter (max): 30 mm



### ADP-E-UNI 50 SET

Part no.: 10.01.17.00415

Size: 50

Shape: rectangular

## Magnetic gripper

SGM-HT-HP 50 G1/4-IG

Part no...:10.01.17.00402

<https://www.schmalz.com/10.01.17.00402>



### STV-GE G1/8-AG 6 HT

Part no...:10.08.02.00389

Thread G1: G1/8"-M

Hose diameter: 6 mm

Material: Brass

Operating temperature: -20 ... 120 °C

External diameter D: 11.6 mm

Length L: 19 mm



### STV-W G1/8-AG 6 HT

Part no...:10.08.02.00391

Thread G1: G1/8"-M

Hose diameter: 6 mm

Material: Brass

Operating temperature: -20 ... 120 °C

Length L: 22.5 mm



### VSL 6-4 PTFE MI-TR

Part no...:10.07.09.00157

External diameter D: 6 mm

Internal diameter d: 4 mm

Length max.: 50 m

Material hose: Polytetrafluorethylene

Bending radius min.: 35 mm

Pressure range (operating pressure): -0.95 ... 10.00 bar

Operating temperature: -190 ... 260 °C

## Contact Schmalz

J. Schmalz GmbH | Johannes-Schmalz-Str.1, 72293 Glatten, Germany | +49 7443 2403-102 | [customercenter@schmalz.de](mailto:customercenter@schmalz.de)