# Vacuum gripping systems for bags / FBG-L, with integrated vacuum generators and 30 mm thick foam

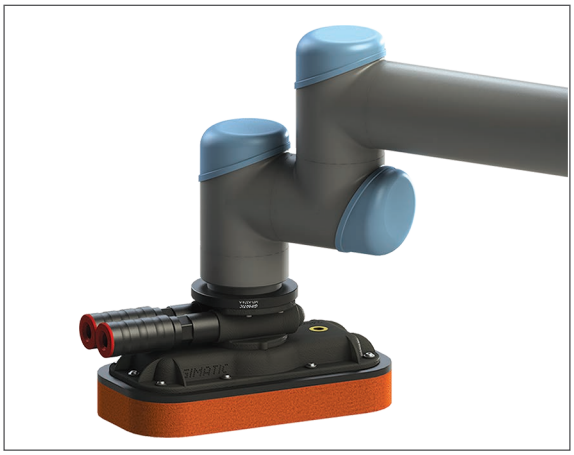
## FBG-L

- The FBG-L series of vacuum gripping systems with integrated vacuum generators is a compact solution designed for handling heavy bags of both liquid and solid materials with different shapes and weights
- It is fitted with two LARGE ejectors that can be either two or three-stage
- Available in the size 245x125 mm and with two heights 70 mm and 90 mm
- The body (PA12) is compact and lightweight yet sturdy
- The foam, 30 mm thick, is available in an orange version in natural rubber that adapts perfectly to the bag to be handled, and in a black version in EPDM that has excellent wear resistance
- Internal metal plate that protects the bag being handled against damage
- The additional MFI-A374-A kit can be used for directly fixing to the most common cobots on the market (ISO-9409-1-50-4-M6)



Application example





| Technical features | |
|---|---|
| Temperature range | 0 ÷ +50 °C |
| Weight | 1 ÷ 1.25 kg |
| Material | PA, SS, NR, Al, Nitrile (NBR) |

**Suction flow rate**

| Model | Feed pressure | Air consumption | Suction flow rate [Nl/s] at different vacuum levels [kPa] | | | | | | | | | | Max vacuum |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | [MPa] | [Nl/s] | 0 | -10 | -20 | -30 | -40 | -50 | -60 | -70 | -80 | -90 | [kPa] |
| FBG-245-125-H**-F30G-LX2-HF-2 | 0.6 | 3.4 | 6.2 | 6.0 | 5.0 | 3.4 | 1.78 | 1.24 | 1.02 | 0.62 | – | – | -73 |
| FBG-245-125-H**-F30G-LX2-HF-3 | 0.6 | 3.4 | 11.8 | 7.0 | 5.0 | 3.4 | 1.78 | 1.24 | 1.02 | 0.62 | – | – | -73 |

For technical specifications, regarding the suction flow rate and the air consumption at different pressures, please refer to the technical data sheets of the EJ-LARGE cartridges in the two- and three-stage versions

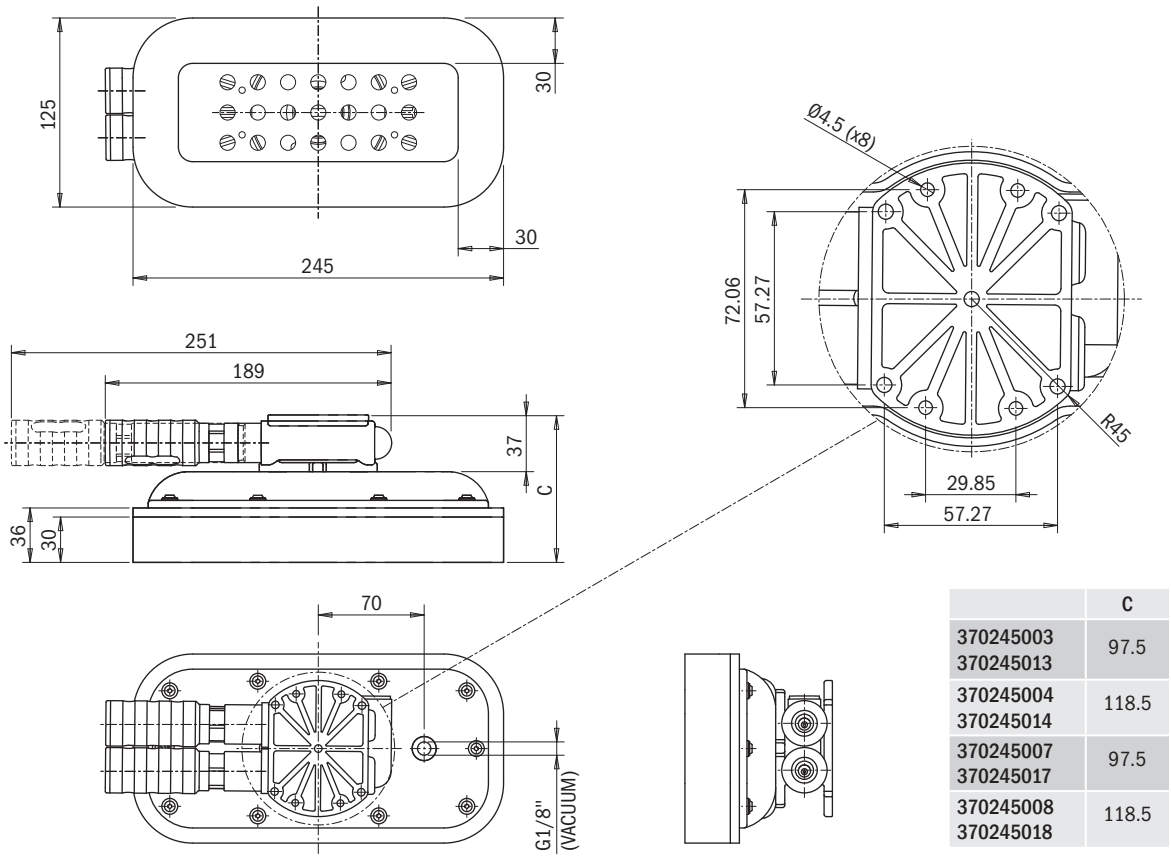
## Evacuation time

| Model | Feed pressure | Air consumption | Evacuation time [s/l] to reach different vacuum levels [kPa] | | | | | | | | | Max vacuum |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | [MPa] | [Nl/s] | -10 | -20 | -30 | -40 | -50 | -60 | -70 | -80 | -90 | [kPa] |
| FBG-245-125-H**-F30G-LX2-HF-2 | 0.6 | 3.4 | 0.015 | 0.035 | 0.06 | 0.095 | 0.15 | 0.2 | 0.35 | – | – | -73 |
| FBG-245-125-H**-F30G-LX2-HF-3 | 0.6 | 3.4 | 0.01 | 0.025 | 0.05 | 0.095 | 0.15 | 0.2 | 0.35 | – | – | -73 |

For technical specifications regarding the evacuation time and the consumption at different pressures, please refer to the technical data sheets of the EJ-LARGE cartridges, in the two- and three-stage versions

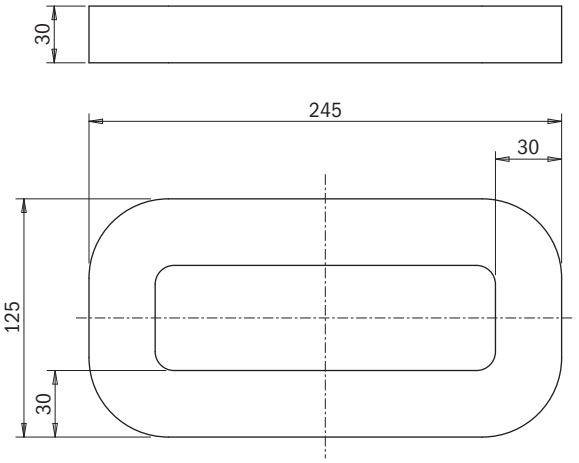
## Identification codes

| Alphanumeric code | Description | Order code |
|---|---|---|
| FBG-245-125-H70-F30G-LX2-HF-2 | Vacuum gripping system for bags, 245x125x70 mm, with integrated two-stage vacuum generator and 30mm thick natural rubber foam | 370245003 |
| FBG-245-125-H90-F30G-LX2-HF-2 | Vacuum gripping system for bags, 245x125x90 mm, with integrated two-stage vacuum generator and 30mm thick natural rubber foam | 370245004 |
| FBG-245-125-H70-F30G-LX2-HF-3 | Vacuum gripping system for bags, 245x125x70 mm, with integrated three-stage vacuum generator and 30mm thick natural rubber foam | 370245007 |
| FBG-245-125-H90-F30G-LX2-HF-3 | Vacuum gripping system for bags, 245x125x90 mm, with integrated three-stage vacuum generator and 30mm thick natural rubber foam | 370245008 |
| FBG-245-125-H70-F30-LX2-HF-2 | Vacuum gripping system for bags, 245x125x70 mm, with integrated two-stage vacuum generator and 30mm thick EPDM foam | 370245013 |
| FBG-245-125-H90-F30-LX2-HF-2 | Vacuum gripping system for bags, 245x125x90 mm, with integrated two-stage vacuum generator and 30mm thick EPDM foam | 370245014 |
| FBG-245-125-H70-F30-LX2-HF-3 | Vacuum gripping system for bags, 245x125x70 mm, with integrated three-stage vacuum generator and 30mm thick EPDM foam | 370245017 |
| FBG-245-125-H90-F30-LX2-HF-3 | Vacuum gripping system for bags, 245x125x90 mm, with integrated three-stage vacuum generator and 30mm thick EPDM foam | 370245018 |



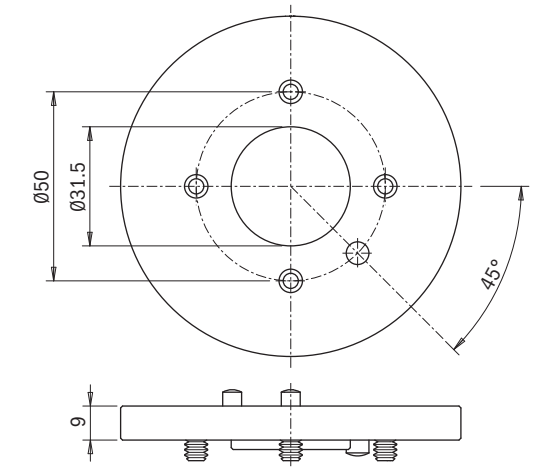

| | C |
|---|---|
| 370245003<br>370245013 | 97.5 |
| 370245004<br>370245014 | 118.5 |
| 370245007<br>370245017 | 97.5 |
| 370245008<br>370245018 | 118.5 |

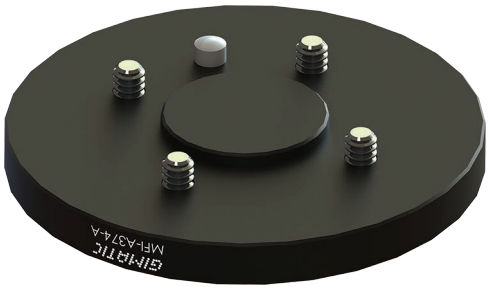
| Identification codes | | |
|---|---|---|
| **Alphanumeric code** | **Spare parts** | **Order code** |
| FBG-F30G-245-125 | Spare natural rubber foam, 245x125 mm, 30 mm thick | **370300002** |
| FBG-F30-245-125 | Spare EPDM foam, 245x125 mm, 30 mm thick | **370300001** |

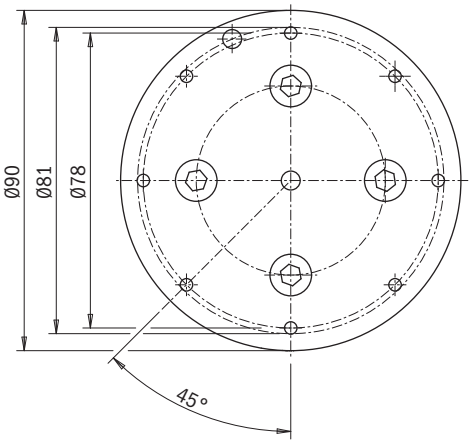





| Identification codes | | |
|---|---|---|
| **Alphanumeric code** | **Accessories** | **Order code** |
| – | ISO 9409-1-50-4-M6 flange with interface for fixing directly onto the wrist of the robot | **MFI-A374-A** |



| Identification codes | | |
|---|---|---|
| **Alphanumeric code** | **Spare parts** | **Order code** |
| FBG-F30G-245-125-A | Spare natural rubber foam, 245x125 mm, 30 mm thick, with fixing plate included | **370300012** |
| FBG-F30-245-125-A | Spare EPDM foam, 245x125 mm, 30 mm thick, with fixing plate included | **370300011** |

