



Technical data

Attribute	Value
Material	Polyetheretherketon
Performance class	E100
Length L	115.00 mm
Width B	115.00 mm
Height H	65.00 mm
Shape compact ejectors	Blow-off function
Shape	Lateral exhaust air
Number of ejectors	1

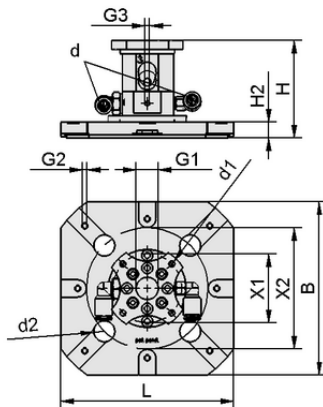
SWGm-5S 115x115x65 1xE100 A PEEK

Wafer gripper SWGm is delivered assembled. The assembly consists of:

- Wafer gripper of type SWGm – available in various dimensions, with axial or lateral exhaust

Available spare parts: suction area

Available accessories: component for discharging exhaust air, holder system, suction/absorption module, floating suction cup module, exhaust duct, solenoid valves, flange plate



Design data

Attribute	Value
Length L	115.00 mm
Width B	115.00 mm
Height H2	10.50 mm
Height H	65.00 mm
Internal diameter d1	4.0 mm
d2	14.0 mm
Internal diameter d	6.00 mm
Thread G1	G3/8"-F
Thread G2	M4-F
Hole spacing X1	46.0 mm

Design data SWGm-5S 115x115x65 1xE100 A PEEK



Art.-Nr.: 10.01.30.00137



Technical data

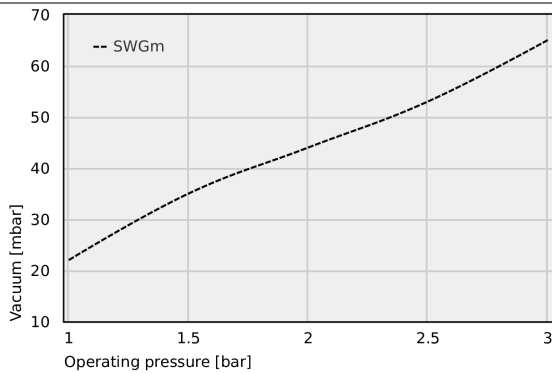
Attribute	Value
Weight	235.0 g
Size	5.00
Pressure range (operating pressure) [bar]	1.0 ... 3.0 bar
Operating temperature	5 ... 75 °C
Air consumption	60 ... 120 l/min
Air consumption [m ³ /h]	m ³ /h
Suction rate	160 ... 235 l/min
Suction rate [m ³ /h]	m ³ /h
Holding force	10 ... 35 N
Shape	Lateral exhaust air
Product family	SWGm



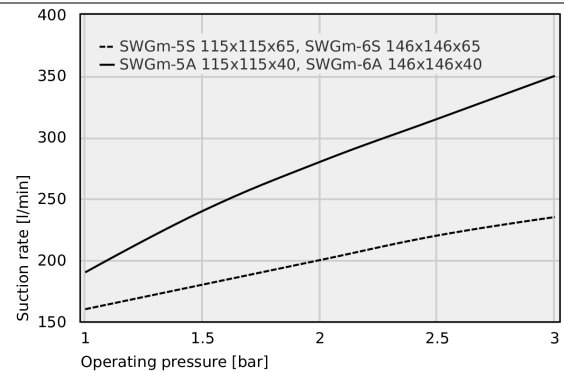
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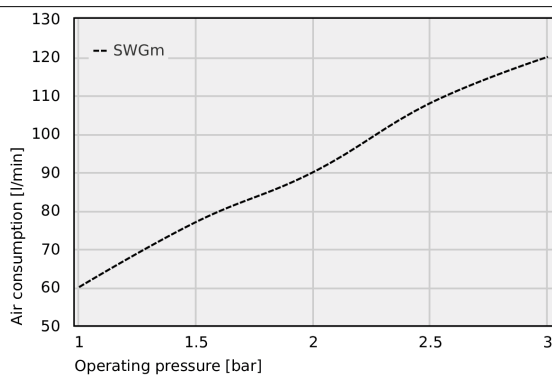
Performance data



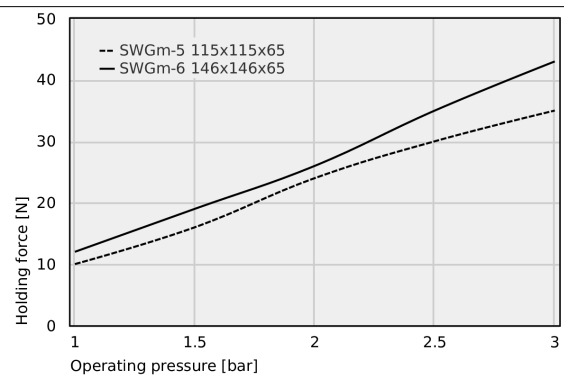
Achievable vacuum at various operating pressures



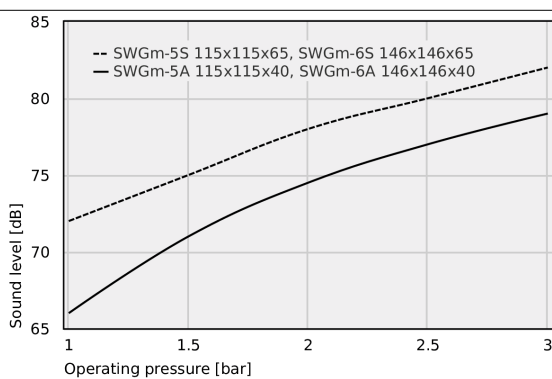
Suction rate at various degrees of evacuation



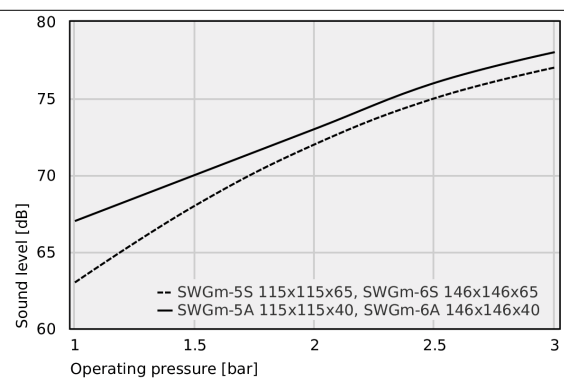
Air consumption



Holding force



Sound level "free suction" at various operating pressures



Sound level workpiece gripped at various operating pressures



Art.-Nr.: 10.01.30.00137



Achievable vacuum at various operating pressures

Typ	1	1.5	2	2.5	3
SWGm	22.00	35.00	44.00	53.00	65.00



Suction rate at various degrees of evacuation

Typ	1	1.5	2	2.5	3
SWGm-5S 115x115x65, SWGm-6S 146x146x65	160.00	180.00	200.00	220.00	235.00
SWGm-5A 115x115x40, SWGm-6A 146x146x40	190.00	240.00	280.00	315.00	350.00



Air consumption

Typ	1	1.5	2	2.5	3
SWGm	60.00	77.00	90.00	108.00	120.00



Holding force

Typ	1	1.5	2	2.5	3
SWGm-5 115x115x65	10.00	16.00	24.00	30.00	35.00
SWGm-6 146x146x65	12.00	19.00	26.00	35.00	43.00



Sound level "free suction" at various operating pressures

Typ	1	1.5	2	2.5	3
SWGm-5S 115x115x65, SWGm-6S 146x146x65	72.00	75.00	78.00	80.00	82.00
SWGm-5A 115x115x40, SWGm-6A 146x146x40	66.00	71.00	74.50	77.00	79.00

Art.-Nr.: 10.01.30.00137



Sound level workpiece gripped at various operating pressures

Typ	1	1.5	2	2.5	3
SWGm-5S 115x115x65, SWGm-6S 146x146x65	63.00	68.00	72.00	75.00	77.00
SWGm-5A 115x115x40, SWGm-6A 146x146x40	67.00	70.00	73.00	76.00	78.00



Further documentation

CAD data and other documents relating to the article can be found at: www.schmalz.com/10.01.30.00137



Ordering Data Accessories 10.01.30.00137

Typ		Item number
Holder system	HTR-UNI SWGm	10.01.30.00117
Holder system	HTR M8x1-IG SWGm	10.01.30.00118
Holder system	HTR M12x1-IG SWGm	10.01.30.00119
Suction-/ Absorption module	SD-MOD 4 32x15x35 FG 9 SWGm	10.01.30.00121
Floating suction cup module	SBSm 14 90-3 4/2 0	10.01.01.12912
Solenoid valve pressure	EMV 1.5 24V-DC 3/2 NC K-2P	10.05.01.00288
Solenoid valve pressure	EMV 2.5 24V-DC 3/2 NC K-2P	10.05.01.00289
Flange plate (round)	FLAN-PL 63x10.5-AD1	10.01.30.00016
Flange plate (round)	FLAN-PL 63x11.5-UNI	10.01.30.00017
Flange plate (round)	FLAN-PL 80x12-ST1	10.01.30.00167
Flange plate (round)	FLAN-PL 55x9.5-JP1	10.01.30.00194
Flange plate (round)	FLAN-PL 55x7.5-EL1	10.01.30.00208
Exhaust air set	ABL-SET 14 SWG/SCG	10.01.30.00059
Flange plate (round)	FLAN-PL 55x7.5-AB1	10.01.30.00015



Ordering Data Spare Parts 10.01.30.00137

Typ		Item number
Suction area	SAUG-FL SWGm-5 110x110 PEEK	10.01.30.00125

