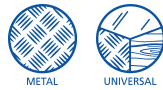
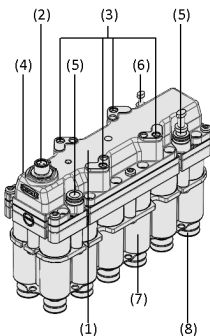


# Matrix Area Grippers FMG

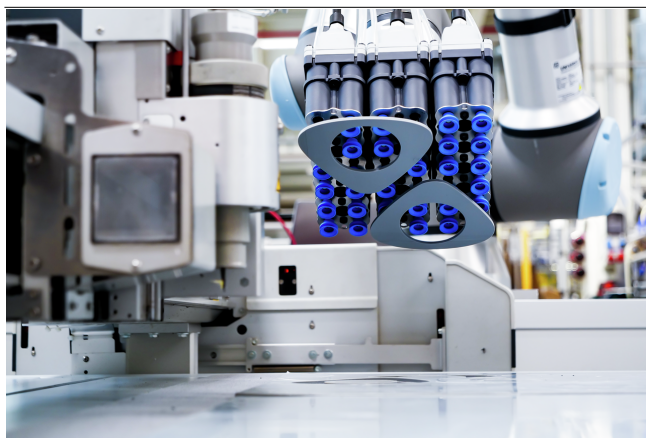
Suction area 180 x 60 mm



Matrix Area Grippers FMG



System design Matrix Area Grippers FMG



Matrix area gripper FMG when handling demanding sheet metal parts

## Suitability for industry specific applications

### Applications

- Compact gripping module for the design of flexible area grippers
- Handling of flat and predominantly suction-tight workpieces in various shapes and dimensions
- Targeted picking up and depositing of workpieces from complete storages and gripping of very thin workpieces
- Ideal for loading and unloading continuous machines such as deburring and straightening machines in sheet metal processing
- Removing and sorting workpieces from laser, punching, nesting and cutting machines
- Automated handling of workpieces with a flat suction area and highly variable geometries

### Design

- Valve unit (1) with solenoid valves, IO-Link connector (2) and mounting holes (3)
- Central pneumatic connections for supplying the gripping module with compressed air (4) and vacuum (5)
- Additional pneumatic connection for connecting a vacuum switch (6)
- Lifting unit (7) with twelve suction cups with integrated lift
- Pistons for connecting the suction cups with N016 Connector (8)

### Product highlights

- Twelve individually controllable suction cups per module for maximum flexibility, especially when several modules are linked to form an area gripper
- Fast set-up through simultaneous activation of all suction points of an area gripper
- Integrated lift when activating the suction cup prevents incorrect parts from being sucked in
- Efficient design and operation thanks to simple integration, low vacuum requirement and functional design
- Self-locking of suctioned workpieces in the event of loss of actuator voltage

## Matrix Area Grippers FMG

Suction area 180 x 60 mm

### Ordering data Matrix Area Grippers FMG

Type	Part no.
FMG 179.5x59.5 30x30 20-HT1	10.12.10.00024

### Ordering data Spare parts Matrix Area Grippers FMG

Spare parts	Part no.
Set of filters	ERS-SET FMG 4x6 10.12.10.00048
Set of spare parts	ERS FMG-VENT-EINH 10.12.10.00049
Set of spare parts	ERS FMG-GK 10.12.10.00050
Sealing plug	VRS-STECH 6x14.4 10.08.06.00012
Sealing plug	VRS-STECH 8x18.5 10.08.06.00013

Spare parts	Part no.
Bellows suction cup (round)	FGA 20 HT1-60 N016 10.01.06.05777

### Ordering data Accessories Matrix Area Grippers FMG

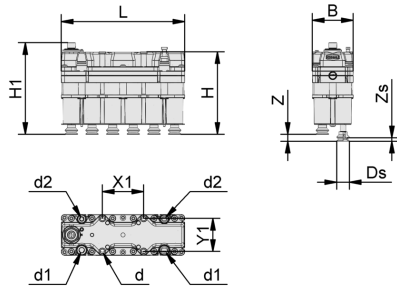
Accessories	Part no.
Bellows suction cup (round)	FGA 12 HT1-60 N016 10.01.06.05776
Bellows suction cup (round)	FGA 25 HT1-60 N016 10.01.06.00872
Connection cable	ASK B-M12-5 1000 S-M12-5 21.04.05.00158
Connection cable	ASK B-M12-5 2000 S-M12-5 21.04.05.00211
Connection cable	ASK B-M12-5 5000 S-M12-5 21.04.05.00266
Vacuum hose (meter)	VSL 6-4 PU MI-TR 10.07.09.00002
Vacuum hose (meter)	VSL 8-6 PU MI-TR 10.07.09.00003

# Matrix Area Grippers FMG

Suction area 180 x 60 mm

## Design data Matrix Area Grippers FMG

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FMG

# Matrix Area Grippers FMG

Suction area 180 x 60 mm

 **Design data Matrix Area Grippers FMG**

Type	B [mm]	d [mm]	d1 [mm]	d2 [mm]	Ds [mm]	H [mm]
FMG 179.5x59.5 30x30 20-HT1	59.5	6.6	8	6	20	120

Type	H1 [mm]	L [mm]	X1 [mm]	Y1 [mm]	Z [m]	Zs [mm]
FMG 179.5x59.5 30x30 20-HT1	133	179.5	60	48	10	5