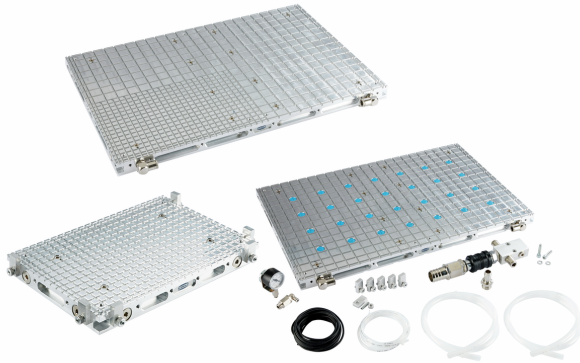
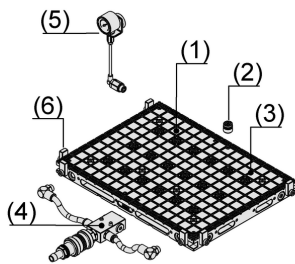


Matrix-Plates MPL

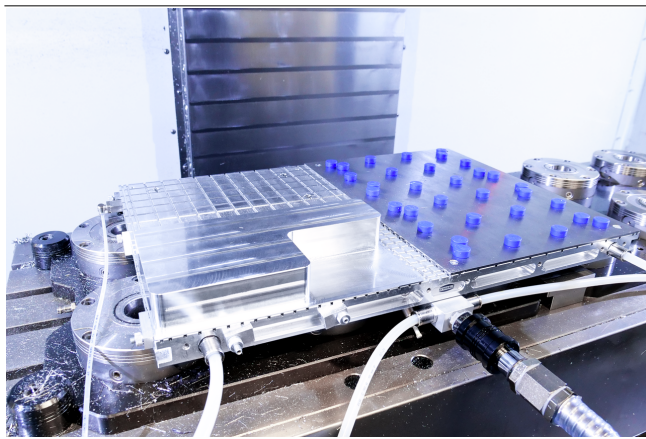
Modular clamping system for CNC machining centers



Matrix-Plates MPL



System design Matrix-Plates MPL



 Designation code Matrix-Plates MPL

Suitability for industry specific applications

Application

- Clamping system for machining aluminum, plastic or CFRP and for particularly thin-walled workpieces
- Simple and fast mounting on the machine table via clamping claws, vice or a zero point clamping system
- Safe vacuum supply and monitoring possible with enclosed accessory sets (recommended vacuum generator: VAGG)
- Clamping of a wide variety of workpieces thanks to great flexibility of sealing cord, mechanical stops and suction openings
- Base module for Steel-Plate ISST, vacuum blocks ISBL and FlexMat SFM

Design

- Main body (1) with integrated vacuum distribution made of high-strength aluminum with different grid dimensions
- Optional friction pads (2) for improved lateral force absorption
- Sealing cord (3) for sealing workpiece and Matrix-Plate
- Vacuum connection set (4) for connecting various vacuum generators (e.g. VAGG)
- Vacuum gauge (5) for monitoring the vacuum close to the workpiece
- Mechanical stops (6) for positioning the workpiece

Product highlights

- Low-distortion, low-vibration and damage-free clamping, especially of thin-walled and non-magnetic workpieces
- High strength aluminum base body for high precision and flatness
- Sophisticated accessories allow fast, comfortable and safe processing
- Short set-up times and high flexibility due to compatibility with conventional clamping devices and zero point clamping systems
- Patented friction pads increase lateral force absorption and enable shorter machining times or additional safety reserves

Matrix-Plates MPL

Modular clamping system for CNC machining centers

MPL	–	300x200x28	–	25x25	–	3x3	–	RI
1		2		3		4		5

1 – Abbreviated designation		2 – Dimensions		3 – Grid dimensions	
Code	Type	Code	LxWxH in mm	Code	Grid dimension in mm
MPL	Clamping system Matrix-Plate	300x200x28...	300x200x28 to	12,5x12,5...	12,5x12,5 and
		600x400x28	600x400x28	25x25	25x25
				25/12,5	25x25 and 12,5x12,5
					(mixed grid)

4 – Groove measure		5 – Product addition	
Code	Groove measure in mm	Code	Type
3x3	3x3	RI	With friction pad

The Matrix-Plate MPL from Schmalz is delivered pre-assembled. The delivery consists of:

- Matrix-Plate made of aluminum incl. grid groove, vacuum distribution and optional friction pads
- Sealing cord, mechanical stops and screw fittings
- Vacuum connection set incl. manual slide valve for hoses with inner diameter 12 mm and 25 mm
- Vacuum gauge

Available spare parts: Mechanical stops, friction pads, sealing cord

Available accessories: Connecting elements, vacuum connection set, vacuum gauge, Steel-Plate ISST-MPL for ISBL, Steel-Plate ISST-MPL SFM for SFM

Ordering data Matrix-Plates MPL

Type	Part no.
MPL 300x200x28 12,5x12,5 3x3	10.01.27.01754
MPL 400x300x28 12,5x12,5 3x3	10.01.27.01752
MPL 400x300x28 25x25 3x3 RI	10.01.27.01751
MPL 600x400x28 25/12,5 3x3	10.01.27.01750
MPL 600x400x28 25x25 3x3 RI	10.01.27.01749

Ordering data Spare parts Matrix-Plates MPL

Type	Spare parts		Part no.
MPL 300x200x28 12,5x12,5 3x3	Connection set	SET MPL G1/4-IG	10.01.27.01757
MPL 400x300x28 12,5x12,5 3x3	Connection set	SET VC-MPL G1/2-IG	10.01.27.01732
MPL 400x300x28 25x25 3x3 RI	Connection set	SET VC-MPL G1/2-IG	10.01.27.01732
MPL 600x400x28 25/12,5 3x3	Connection set	SET VC-MPL G1/2-IG	10.01.27.01732
MPL 600x400x28 25x25 3x3 RI	Connection set	SET VC-MPL G1/2-IG	10.01.27.01732

Spare parts		Part no.
Connection set	SET VC-MPL 4/2	10.01.27.01733
Stop matrixplate	ANSG-MPL 8x15x30	10.01.27.00079
Sieve with male thread	SIEB G1/8x3.5 MS 0.27/0.15 ISKT	10.05.03.00008
Sealing screw with collar	VRS-SB G1/8-AG ISKT Di-Ring	10.08.06.00059
Sealing cord	DI-SCHN 3.5 MOS CR-20	10.07.04.00091
Sealing cord	DI-SCHN 3 MOS CR-20	10.07.04.00088

Type	Spare parts		Part no.
MPL 600x400x28 25x25 3x3 RI	Friction insert	REIB-INS 18x18 MPL	10.01.27.00060
MPL 400x300x28 25x25 3x3 RI	Friction insert	REIB-INS 18x18 MPL	10.01.27.00060



Matrix-Plates MPL

Modular clamping system for CNC machining centers

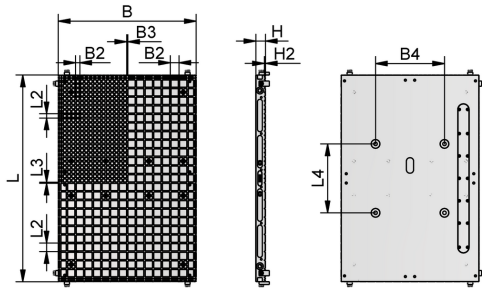
 Ordering data Accessories Matrix-Plates MPL

Accessories		Part no.
SCHR G1/4x31 6.00	Hollow screw with collar	10.01.27.00163

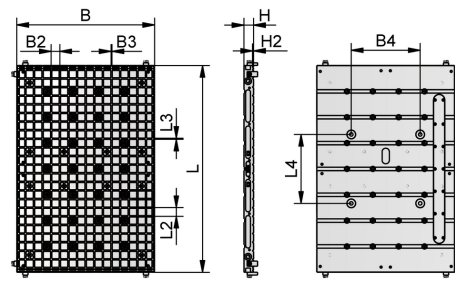
Matrix-Plates MPL

Modular clamping system for CNC machining centers

Design data Matrix-Plates MPL



MPL



MPL RI

Matrix-Plates MPL

Modular clamping system for CNC machining centers

Design data Matrix-Plates MPL

Type	B [mm]	B2 [mm]	B3 [mm]	B4 [mm]	L [mm]	L2 [mm]	L3 [mm]	L4 [mm]	H [mm]	H2 [mm]
MPL 300x200x28 12,5x12,5 3x3	200	12.5	3	-	300	12.5	3	200	28	3
MPL 400x300x28 12,5x12,5 3x3	300	12.5	3	200	400	12.5	3	200	28	3
MPL 400x300x28 25x25 3x3 RI	300	25.0	3	200	400	25.0	3	200	28	3
MPL 600x400x28 25/12,5 3x3	400	-	3	200	600	-	3	200	28	3
MPL 600x400x28 25x25 3x3 RI	400	25.0	3	200	600	25.0	3	200	28	3

Multimedia product presentation

Medium	Link
Product video	https://vimeo.com/701942810 https://vimeo.com/810103248