



Vacuum Clamping Systems
Clamping Solutions for Manual Work

Vacuum Clamping System Multi-Clamp

Innovative and functional



With the vacuum clamping system Multi-Clamp, Schmalz offers the perfect tool for ergonomic clamping of small and medium-sized workpieces. Workpieces clamped with the Multi-Clamp can be worked on from all sides without reclamping.

The lightweight construction of the Multi-Clamp guarantees a maximum degree of flexibility for simple and quick operation. The clamping system can be used on almost any flat surface and consists of the Multi-Clamp suction plate and the Multi-Base which enables to swivel and rotate the workpiece. The complete system Multi-Clamp is available with an integrated vacuum generator (pneumatic ejector) or optionally available with an external vacuum pump.

The Multi-Clamp suction plate can also be used as a stand-alone clamping solution.

Applications



Sawing



Grinding



Drilling



Screwing



Multi-Clamp Suction Plate VC-M-SP(V)

Mobile and flexible

The Multi-Clamp suction plate is an affordable, stand-alone clamping solution. The suction plate can be suctioned or bolted directly onto the workbench surface. On the top side, flat workpieces are clamped securely using vacuum. Several Multi-Clamp suction plates positioned next to each other can clamp lengthy workpieces simple and comfortable.

The Multi-Clamp suction plate is available with an integrated vacuum generator as well as for operating with an external vacuum pump. It is upgradeable to the complete system Multi-Clamp VC-M(V) at any time.

Multi-Clamp Suction Plate VC-M-SP(V) 160x160

Reliable holding

Large suction area for maximum holding forces

Quick connect

Hose connection for compressed air supply or vacuum supply

Flexible adaptation

By inserting the sealing cord along the grid the suction plate can be adapted to the workpiece geometry

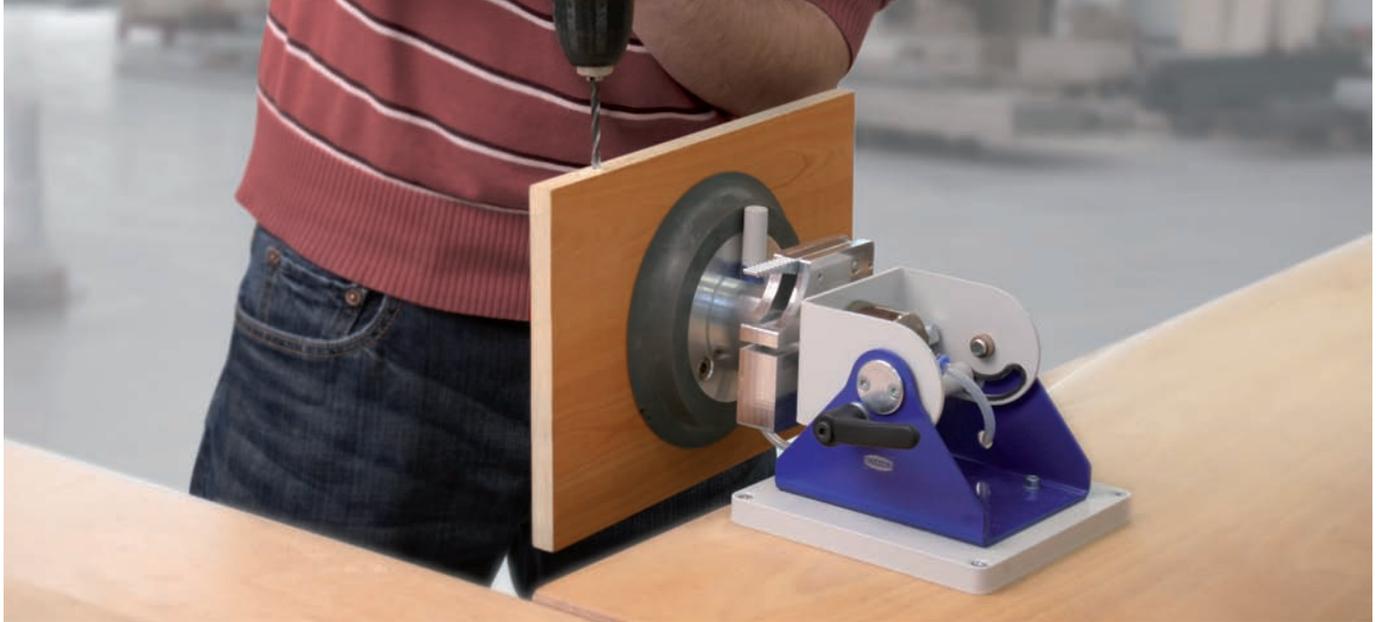
Safe working

Optimized holding forces through specially formed friction pads

Optimal sealing

Soft sealing cord, below and above, to compensate for the irregularities of the workbench and the workpiece





Vacuum Clamping System Multi-Clamp VC-M with Integrated Vacuum Generator (Pneumatic Ejector)

The vacuum clamping system Multi-Clamp VC-M consists of the Multi-Clamp suction plate and the Multi-Base, which enables it to swivel and rotate the workpiece. The unit can be connected to every common compressed air supply due to the integrated, pneumatic ejector. Therefore no additional vacuum pump is necessary.

Multi-Clamp Suction Plates VC-M-SP with Integrated Pneumatic Ejector

Multi-Clamp suction plate

160 x 160 mm; for flexible usage with almost every workpiece

Multi-Clamp suction plate round

Ø 210 mm; especially for applications with wooden workpieces

Multi-Clamp suction plate oval

200 x 55 mm and 300 x 100 mm; for clamping of narrow workpieces



Multi-Base VC-M-B



Simple to change

Clamping lever for attaching and loosening the Multi-Clamp suction plate

Endless rotation by 360°

Endless rotability by 360° for efficient processing of all sides

Swivel continuously by 90°

Continuous slewability by 90° to work on surfaces and edges ergonomically

Easy to connect

Hose connection for compressed air supply

Mounted safely

Mounted to the workbench with screws



Vacuum Clamping System Multi-Clamp VC-M-V with External Vacuum Pump

The vacuum clamping system Multi-Clamp VC-M-V consists of the Multi-Clamp suction plate and the Multi-Base, which enables it to swivel and rotate the workpiece. It is equipped with a vacuum connection for the work with the external Multi-Clamp vacuum pump. The vacuum pump ensures minimum operating costs, it is portable and can be used in any work areas. The high suction capacity of the electrical pump guarantees secure clamping of the workpieces.

Multi-Clamp Suction Plates VC-M-SPV with External Vacuum Pump

Multi-Clamp suction plate
160 x 160 mm; for flexible usage with almost every workpiece

Multi-Clamp suction plate round
Ø 210 mm; especially for applications with wooden workpieces

Multi-Clamp suction plate oval
200 x 55 mm and 300 x 100 mm; for clamping of narrow workpieces



Multi-Base VC-M-BV

Ready for quick operation

Manual slide valve for quick activation and deactivation of the vacuum

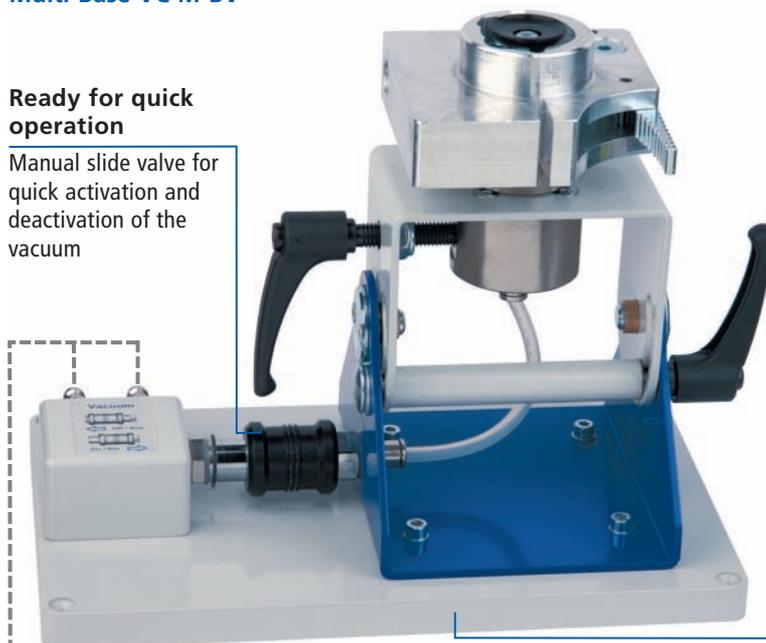
Vacuum Pump VC-M-PU

Easy to monitor

Vacuum display using vacuum manometer

Simple to transport

Robust and ergonomic portable frame with integrated cable reel



Flexible positioning

Vacuum clamped baseplate for free positioning of the Multi-Clamp on the workbench – an alternative to the fixation with screws

Vacuum Clamping System Multi-Clamp

Ordering and technical data

Multi-Clamp Suction Plate

Type	Article number	Max. vacuum [mbar]	Air consumption [l/min]	Max. suction rate [m³/h]	Weight [kg]
Multi-Clamp suction plate VC-M-SP 160x160*	10.01.12.01836	-850	48	2.3	0.7
Multi-Clamp suction plate VC-M-SPV 160x160	10.01.12.01853	-	-	-	0.7

*With integrated pneumatic ejector

Vacuum Clamping System Multi-Clamp with Integrated Ejector

Type	Article number	Max. vacuum [mbar]	Air consumption [l/min]	Max. suction rate [m³/h]	Weight [kg]
Complete system Multi-Clamp VC-M*	10.01.12.01845	-850	48	2.3	4.6
Multi-Base VC-M-B	10.01.12.01854	-	-	-	3.9
Multi-Clamp suction plate VC-M-SP 160x160	10.01.12.01836	-850	48	2.3	0.7
Multi-Clamp suction plate VC-M-SP 300x100	10.01.12.02052	-850	48	2.3	1.9
Multi-Clamp suction plate VC-M-SP 200x55	10.01.12.02003	-850	48	2.3	0.8
Multi-Clamp suction plate VC-M-SP 210	10.01.12.02002	-850	48	2.3	1.6

* Scope of delivery: Multi-Base VC-M-B, Multi-Clamp suction plate VC-M-SP 160 x 160, set of tubes with ball valve and sealing cord

Vacuum Clamping System Multi-Clamp for External Vacuum Pump

Type	Article number	Weight [kg]
Complete system Multi-Clamp VC-M-V*	10.01.12.01852	4.7
Multi-Base VC-M-BV	10.01.12.02050	4.1
Multi-Clamp suction plate VC-M-SPV 160x160	10.01.12.01853	0.7
Multi-Clamp suction plate VC-M-SPV 300x100	10.01.12.02053	1.9
Multi-Clamp suction plate VC-M-SPV 200x55	10.01.12.02009	0.8
Multi-Clamp suction plate VC-M-SPV 210	10.01.12.02008	1.6

* Scope of delivery: Multi-Base VC-M-BV, Multi-Clamp suction plate VC-M-SPV 160 x 160, set of tubes with ball valve and sealing cord

Multi-Clamp Vacuum Pump

Type	Article number	Max. vacuum [mbar]	Max. suction rate [m³/h]	Voltage [V]		Protection type	Weight [kg]
				50 Hz	60 Hz		
Multi-Clamp vacuum pump VC-M-PU-4-AC 230V	10.01.12.02040	-850	3.9	230	-	IP 54	8.5
Multi-Clamp vacuum pump VC-M-PU-4-AC 110V	10.01.12.02051	-850	4.0	-	110	IP 54	8.5

Multi-Clamp Accessories

Type	Article number
Foot-operated interrupter FU 5 3/2*	10.01.12.02055
Accessory, VC-M-SPV for operating with pump; Multi-Clamp (Set of tubes with pneumatic quick connector)	10.01.12.02054
Friction pads REIB-INS	10.01.12.02000
Sealing cord DI-SCHN	10.01.12.02056

* For ergonomical work with both hands

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