



Handling Systems

# Workshop Equipment

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# Workshop Equipment

Indispensable Helpers in Trade and Industry

## Damage free Storing and Clamping of Workpieces

Schmalz workshop equipment serves as an important aid in industry and professional trades. Transport trolleys facilitate space saving storage of workpieces between individual production steps. Specifically, these trolleys are used to transport painted furniture pieces, sheets, profiles, metal/plastic components and solar panels, among other things.

Vacuum workbenches and vacuum work stands round off the product range. The vacuum is switched on and off using a foot-operated switch; workpieces are clamped using suction plates and fastened in place for processing. The workbenches and work stands can be adjusted to any height to enable ergonomic working.

## Handle Loads Ergonomically

On our website you will find:

- An extensive media library and selection aids to the appropriate lifting system
- Technical advice and system design by experienced engineers
- Commissioning on site - on request by our service engineers



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# Workshop Equipment

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# Workshop Equipment

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Transport trolley HW for storing and transporting workpieces

## TRANSPORT TROLLEY HW

Transport trolley for careful storage and transportation of workpieces

- Shelf rods covered in solvent-resistant plastic tubes, insertable (optional)
- 4 rotatable wheels, 2 of which have locking brakes
- Distance between levels for 12 levels: 96 mm  
Distance between levels for 16 levels: 69 mm
- Length of shelf rods: 680 mm



Transport trolley with two rakes



Transport trolley with four rakes



Space-saving storage



Insertable shelf rods

Type	Length [mm]	Width [mm]	Height [mm]	No. of rakes	No. of levels	Max. lift capacity [kg]	Weight [kg]	Part no.
<b>Transport trolley with fixed shelf rods</b>								
HW-680x1380-R2/12	1,380	790	1,677	2	12	240	47	15.02.01.00068
HW-680x1380-R2/16	1,380	790	1,677	2	16	240	51	15.02.01.00074
HW-680x1380-R4/12	1,380	790	1,677	4	12	300	77	15.02.01.00069
HW-680x1380-R4/16	1,380	790	1,677	4	16	300	81	15.02.01.00075
<b>Transport trolley with insertable shelf rods</b>								
HW-680x1380-R2/12-STE	1,380	790	1,677	2	12	240	47	15.02.01.00084
HW-680x1380-R2/16-STE	1,380	790	1,677	2	16	240	51	15.02.01.00086
HW-680x1380-R4/12-STE	1,380	790	1,677	4	12	300	77	15.02.01.00085
HW-680x1380-R4/16-STE	1,380	790	1,677	4	16	300	81	15.02.01.00087



Transport trolley HWZ for storing and transporting workpieces

## TRANSPORT TROLLEY HWZ

Telescopic transport trolley can be adjusted to suit workpieces of different sizes, thereby providing careful storage and transportation for flat workpieces

- Shelf rods covered in solvent-resistant plastic tubes, insertable (optional)
- 4 rotatable wheels, 2 of which have locking brakes
- Distance between racks can be adjusted infinitely, as needed
- Distance between levels for 12 levels: 96 mm  
Distance between levels for 20 levels: 47 mm
- Length of shelf rods: 680 mm (extended: 1,200 mm)



Transport trolley with extendable levels

Infinitely adjustable transport trolley with three rakes

Transport trolley DUO, can be loaded from both sides

Transport trolleys space-saving storable

Type	Min. length [mm]	Max. length [mm]	Width [mm]	Height [mm]	No. of rakes	No. of levels	Max. lift capacity [kg]	Weight [kg]	Part no.
<b>Transport trolley with fixed or insertable shelf rods (STE)</b>									
HWZ-680x1390-R2/12	380	1,390	790	1,677	2	12	240	48	15.02.02.00038
HWZ-680x1390-R2/12-STE	380	1,390	790	1,677	2	12	240	48	15.02.02.00039
HWZ-680x2670-R3/12	670	2,670	790	1,677	3	12	360	75	15.02.02.00040
HWZ-680x2670-R3/12-STE	670	2,670	790	1,677	3	12	360	75	15.02.02.00041
<b>Transport trolley (20 levels which can be loaded from one side or 10 which can be loaded from both sides)</b>									
HWZ-680x1390-R2/20-DUO	380	1,390	935	1,640	2	20	240	60	15.02.03.00035
<b>Transport trolley, loadable from both sides (12 levels 1,200 mm one side (extended) or 12 levels 680 mm both sides (retracted))</b>									
HWZ-1200x2235-R2/12/24-A	390	2,235	1,120	1,677	2	12/24	240	75	15.02.03.00033
HWZ-1200x2235-R4/12/24-A	390	2,235	1,120	1,677	4	12/24	300	130	15.02.03.00034

## ACCESSORIES

Type	Length [mm]	Width [mm]	Height [mm]	Distance between levels [mm]	Weight [kg]	Part no.
Movable rake RB-680/24/12	-	680	1,470	96	16	15.02.03.00016
Movable rake RB-675/12-STE	-	675	1,470	96	13	15.02.01.00082
Connecting tube ROHR 26.9x3.2x1800 HW	1,800	-	-	-	2	15.02.03.00022

# Workshop Equipment

Indispensable Helpers in Trade and Industry



Transport trolley HWZ for storing and transporting heavy workpieces

## TRANSPORT TROLLEY HWV

Transport trolley with very high maximum load for careful storage and transportation of workpieces

- Very robust design thanks to stable frame construction
- Shelf rods covered with solvent-resistant plastic tubes
- 4 rotatable wheels, 2 of which have locking brakes
- Easy adjustment of the rod angle with tension rods and locks on each level
- Version with 2 rakes (1 fixed, 1 movable) or 4 rakes (2 fixed, 2 movable)
- Distance between levels for 12 levels: 96 mm  
Distance between levels for 16 levels: 69 mm



Transport trolley with two rakes, one of which is movable



Transport trolley with two rakes



Transport trolley with four rakes, two of which are movable

Type	Length [mm]	Width [mm]	Height [mm]	No. of rakes	No. of levels	Max. lift capacity [kg]	Weight [kg]	Part no.
<b>Transport trolley with special robust design</b>								
HWV-580x1480-R2/16	1,480	710	1,650	2	16	260	56	15.01.01.00085
HWV-680x1480-R2/12	1,480	810	1,730	2	12	360	72	15.01.02.00029
HWV-775x1500-R2/12	1,500	925	1,800	2	12	480	99	15.01.03.00028
HWV-910x1500-R2/12	1,500	1,060	1,800	2	12	480	106	15.01.04.00043
HWV-580x1480-R4/16	1,480	710	1,695	4	16	420	100	15.01.01.00086

## ACCESSORIES

Type	Width [mm]	Height [mm]	Distance between levels [mm]	No. of levels	Max. lift capacity [kg]	Weight [kg]	Part no.
Movable rake RB-580/16	580	1,450	69	16	80	20	15.01.01.00036
Movable rake RB-680/12	680	1,470	96	12	100	21	15.01.02.00015
Movable rake RB-775/12	775	1,470	96	12	240	22	15.01.03.00008
Movable rake RB-910/12	910	1,470	96	12	240	23	15.01.04.00007
Fixed rake RF-580/16	580	1,450	69	16	80	16	15.01.01.00035
Fixed rake RF-680/12	680	1,470	96	12	100	17	15.01.02.00014
Fixed rake RF-775/12	775	1,470	96	12	240	18	15.01.03.00004
Fixed rake RF-910/12	910	1,470	96	12	240	19	15.01.04.00006



Wall rack WA (2 pcs. shown) for storing workpieces

## WALL RACK WA

Convenient rack for storing workpieces free of damage, can be mounted on the wall

- Bracket for simple wall mounting, shipment incl. drilling template
- Space-saving thanks to swiveling rakes, can be expanded to include additional rakes
- Shelf rods covered in solvent-resistant plastic tubes, insertable (optional)
- Length of shelf rods: 680 mm

Type	No. of rakes	Width [mm]	Height [mm]	Distance between levels [mm]	No. of levels	Max. lift capacity [kg]	Weight [kg]	Part no.
Wall rack WA-680/12	1	775	1,520	96	12	120	18	15.02.04.00013
Wall rack WA-680/12-STE	1	775	1,520	96	12	120	18	15.02.04.00008



Sheet transport trolley PTS 250 for lifting sheets from upright storage

## SHEET TRANSPORT TROLLEY PTS 250

Transport trolley for loading and unloading table and upright saws

- Infinitely variable lifting and lowering of workpiece with easy-to-use trolley lifter
- Mechanical swiveling unit to swivel workpieces from a vertical position to horizontal position and vice versa
- Easy transportation thanks to 4 rotatable wheels, 2 of which have locking brakes
- Maximum sheet size: 5,200 x 2,100 mm, contact surface is infinitely adjustable

Type	Length [mm]	Width [mm]	Max. height [mm]	Support height vertical [mm]	Support height horizontal [mm]	Max. lift capacity [kg]	Weight [kg]	Part no.
PTS-250-2000x950	2,000	950	1,632	180-325	915-1,180	250	100	15.06.03.00001

# Workshop Equipment

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Vacuum workbench PVT with vacuum pump and two suction plates for handling wooden boards

## VACUUM WORKBENCH PVT

- Mechanical handling without re-clamping the workpiece
- Swiveling the workpiece 90° left and right, manual locking in 45° increments
  - Foot pedal for swiveling and releasing the workpiece
  - Pneumatic or electrical vacuum generation, with energy saving regulation (optional)
  - Sensing valve activates vacuum after the workpiece is in position, unused suction plates remain closed
  - Voltage AC 230 V with electrical vacuum generation
  - Dimensions of workbench:  
Length: 1,240 mm  
Width: 490 mm  
Height: 670 mm to 1,020 mm (infinitely adjustable)



Vacuum workbench with two suction plates and ejector SEG



Vacuum workbench with four suction plates and ejector SEG



Vacuum workbench with two suction plates and vacuum pump EVE



With extension for large workpieces (optional)

Type	Suction plates	Suction plate type [mm]	Vacuum generation	Operating pressure [bar]	Max. lift capacity [kg]	Weight [kg]	Part no.
PVT-2-SPL-300x100-VE SEG-4	2	SPL 300x100	Ejector SEG	5	90	47	13.02.01.10125
PVT-4-SPL-300x100-VE SEG-4	4	SPL 300x100	Ejector SEG	5	180	52	13.02.01.10170
PVT-2-SPL-300x100-VER EVE-4	2	SPL 300x100	Pump EVE	-	90	55	13.02.01.10553

The vacuum workbench PVT is constructed based on a modular system. This allows the workbench to be adjusted to suit the individual requirements of the application. Our system consultants would be happy to offer additional help: T: +49 7443 2403-108.





Vacuum work stand PVS for handling smaller workpieces

## VACUUM WORK STAND PVS

Mechanical handling without re-clamping the workpiece  
Workpiece can be rotated continuously, clamped in any position and swiveled by 90° into a vertical position

- Foot pedal for clamping and releasing the workpiece
- Pneumatic or electrical vacuum generation, with energy-saving regulation (optional)
- Sensing valve activates vacuum after the workpiece is in position, unused suction plates remain closed
- Voltage AC 230 V with electrical vacuum generation
- Dimensions of work stand:

Length: 300 mm

Width: 300 mm

Height: 750 mm to 1,100 mm (infinitely adjustable)



Vacuum work stand with one suction plate and ejector SEG



Vacuum work stand with two suction plates and ejector SEG



Vacuum work stand with four suction plates and ejector SEG



Vacuum work stand with one suction plate and vacuum pump EVE

Type	Suction plates	Suction plate type [mm]	Vacuum generation	Operating pressure [bar]	Max. lift capacity [kg]	Weight [kg]	Part no.
PVS-1-SPL-250 VE SEG-4	1	SPL-250	Ejector SEG	5	90	34	13.01.01.10100
PVS-2-SPL-300x100-VE SEG-4	2	SPL-300x100	Ejector SEG	5	90	38	13.01.01.10117
PVS-4-SPL-300x100-VE SEG-4	4	SPL-300x100	Ejector SEG	5	100	42	13.01.01.10118
PVS-1-SPL-250-VER EVE-4	1	SPL-250	Pump EVE	-	90	42	13.01.01.10230

The vacuum work stand PVS is constructed based on a modular system.

This allows the stand to be adjusted to suit the individual requirements of the application.

Our system consultants would be happy to offer additional help: T: +49 7443 2403-108.

# Workshop Equipment

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Vacuum reversing table VWT 180° for turning workpieces

## VACUUM REVERSING TABLE VWT 180°

For processing large format panel material on the top and bottom without re-clamping the workpiece

- Unhandy workpieces can be turned by 180°; workpieces are turned continuously within ten seconds
- All controls integrated in operating stand
- Safe operation thanks to acoustic warning device and large vacuum reservoir
- It is only possible to release the workpiece once it has reached the end position
- Voltage: AC 400 V
- Max. workpiece size:  
Length: 3,000 mm  
Width: 2,000 mm  
Height: 50 mm

Type	Length [mm]	Width [mm]	Height [mm]	Suction plates	Max. lift capacity [kg]	Weight [kg]	Part no.
VWT-150-180-4-SPU-210-TR-16	2,670	1,650	1,510	4	150	500	13.02.01.10372

# Handling Systems

Loading CNC Machining Centers Ergonomically



Complete handling system with vacuum tube lifter Jumbo and crane

Vacuum handling systems from Schmalz have been a tried-and-tested feature of the woodworking industry for a number of decades. Ergonomic and secure handling of workpieces rationalizes the loading of CNC machining centers and panel saws.

### Individually-tailored handling solutions from a single source

- Ergonomic vacuum lifters (tube lifters Jumbo or lifting devices VacuMaster)
- Lightweight aluminum cranes (crane systems or jib cranes)
- Comprehensive services ranging from consultation and project planning up to assembly and commissioning

# Clamping System Multi-Clamp

Everything at a Glance



Complete system Multi-Clamp VC-M

## APPLICATION

- Multi-functional vacuum clamping system for manual machining steps, such as sawing, grinding, drilling or screwing
- Insert for the machining of small to medium-sized workpieces and the fitting of compact assemblies
- The workpieces can be fixed in any position and machined all-round without the need to reclamp
- The Multi-Clamp can be secured to almost any even surface (using screws or by sucking)

## MULTI-CLAMP SUCTION PLATE VC-M-SP / VC-M-SPV AS A STAND ALONE SOLUTION



Suction plate VC-M-SP 160x160

- Multi-Clamp suction plate VC-M-SP with integrated vacuum generation (ejector)
- Multi-Clamp suction plate VC-M-SPV for operation with external vacuum generation (e.g. Multi-Clamp vacuum pump)

Type	Max. vacuum [mbar]	Air consumption [l/min]	Max. suction capacity [m³/h]	Weight [kg]	Part no.
Suction plate VC-M-SP 160x160	850	48	2.3	0.7	10.01.12.01836
Suction plate VC-M-SPV 160x160	–	–	–	0.7	10.01.12.01853

## MULTI-CLAMP VC-M WITH INTEGRATED VACUUM GENERATION



Complete system VC-M

- Complete system consisting of rotating and swiveling unit Multi-Base VC-M-B and Multi-Clamp suction plate VC-M-SP 160x160

Type	Max. vacuum [mbar]	Air consumption [l/min]	Max. suction capacity [m³/h]	Weight [kg]	Part no.
Complete system VC-M	850	48	2.3	4.6	10.01.12.01845

## MULTI-CLAMP VC-M-V FOR OPERATION WITH EXTERNAL VACUUM GENERATION

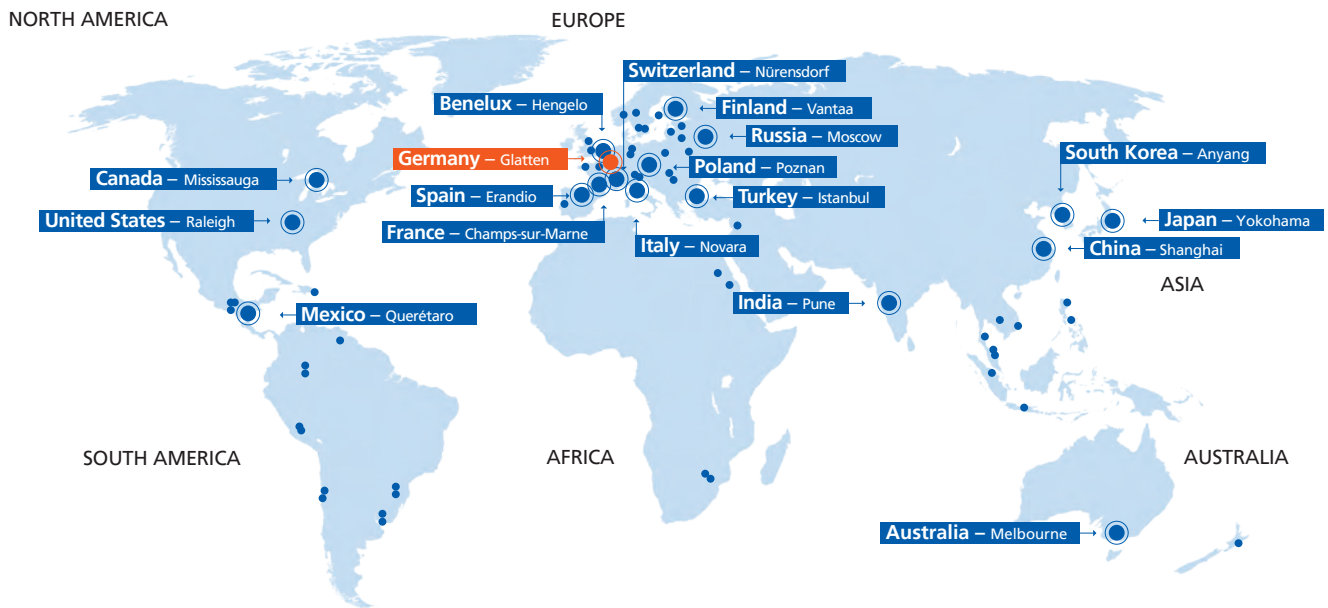


Complete system VC-M-V

- Complete system consisting of rotating and swiveling unit Multi-Base VC-M-BV and Multi-Clamp suction plate VC-M-SPV 160x160
- Multi-Base VC-M-BV with suction capable base plate and manual slide valve for quick activation and deactivation of the vacuum
- Vacuum generation requires an additional vacuum pump VC-M-PU

Type	Max. vacuum [mbar]	Air consumption [l/min]	Max. suction capacity [m³/h]	Weight [kg]	Part no.
Complete system VC-M-V	–	–	–	4.7	10.01.12.01852

## At your side worldwide



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