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

<table>
<thead>
<tr>
<th>Type</th>
<th>Length [mm]</th>
<th>Width [mm]</th>
<th>Height [mm]</th>
<th>No. of rakes</th>
<th>No. of levels</th>
<th>Max. lift capacity [kg]</th>
<th>Weight [kg]</th>
<th>Part no.</th>
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<tbody>
<tr>
<td>Transport trolley with fixed shelf rods</td>
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<td>81</td>
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Transport trolley with two rakes
Transport trolley with four rakes
Space-saving storage
Insertable shelf rods
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)

<table>
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<tr>
<th>Type</th>
<th>Min. length [mm]</th>
<th>Max. length [mm]</th>
<th>Width [mm]</th>
<th>Height [mm]</th>
<th>No. of rakes</th>
<th>No. of levels</th>
<th>Max. lift capacity [kg]</th>
<th>Weight [kg]</th>
<th>Part no.</th>
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<tr>
<td>Transport trolley with fixed or insertable shelf rods (STE)</td>
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<td>1,390</td>
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<td>1,677</td>
<td>3</td>
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<th>Width [mm]</th>
<th>Height [mm]</th>
<th>No. of rakes</th>
<th>No. of levels</th>
<th>Max. lift capacity [kg]</th>
<th>Weight [kg]</th>
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<td></td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>(20 levels which can be loaded from one side or 10 which can be loaded from both sides)</td>
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<tr>
<td>HWZ-680x1390-R2/20-DUO</td>
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<td>1,390</td>
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<td>240</td>
<td>60</td>
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<td>Transport trolley, loadable from both sides (12 levels 1,200 mm one side (extended) or 12 levels 680 mm both sides (retracted))</td>
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<tr>
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<td>2,235</td>
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ACCESSORIES

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<th>Height [mm]</th>
<th>Distance between levels [mm]</th>
<th>Weight [kg]</th>
<th>Part no.</th>
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<tbody>
<tr>
<td>Movable rake RB-680/24/12</td>
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<td>680</td>
<td>1,470</td>
<td>96</td>
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<td>1,800</td>
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<td>–</td>
<td>–</td>
<td>2</td>
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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

<table>
<thead>
<tr>
<th>Type</th>
<th>Length [mm]</th>
<th>Width [mm]</th>
<th>Height [mm]</th>
<th>No. of rakes</th>
<th>No. of levels</th>
<th>Max. lift capacity [kg]</th>
<th>Weight [kg]</th>
<th>Part no.</th>
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<tbody>
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<td>710</td>
<td>1,650</td>
<td>2</td>
<td>16</td>
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<td>810</td>
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<td>925</td>
<td>1,800</td>
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<td>12</td>
<td>480</td>
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<td>1,060</td>
<td>1,800</td>
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<td>710</td>
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ACCESSORIES

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<th>Height [mm]</th>
<th>Distance between levels [mm]</th>
<th>No. of levels</th>
<th>Max. lift capacity [kg]</th>
<th>Weight [kg]</th>
<th>Part no.</th>
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<tbody>
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<td>16</td>
<td>80</td>
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<td>1,470</td>
<td>96</td>
<td>12</td>
<td>100</td>
<td>21</td>
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<td>12</td>
<td>240</td>
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<td>240</td>
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<td>96</td>
<td>12</td>
<td>240</td>
<td>19</td>
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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

<table>
<thead>
<tr>
<th>Type</th>
<th>No. of rakes</th>
<th>Width [mm]</th>
<th>Height [mm]</th>
<th>Distance between levels [mm]</th>
<th>No. of levels</th>
<th>Max. lift capacity [kg]</th>
<th>Weight [kg]</th>
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<td>775</td>
<td>1,520</td>
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<td>120</td>
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<td>96</td>
<td>12</td>
<td>120</td>
<td>18</td>
<td>15.02.04.00008</td>
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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

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<td>PTS-250-2000x950</td>
<td>2,000</td>
<td>950</td>
<td>1,632</td>
<td>180-325</td>
<td>915-1,180</td>
<td>250</td>
<td>100</td>
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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 PVT with vacuum pump and two suction plates for handling wooden boards

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<td>PVT-2-SPL-300x100-VE SEG-4</td>
<td>2</td>
<td>SPL 300x100</td>
<td>Ejector SEG</td>
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<td>90</td>
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<td>SPL 300x100</td>
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<td>SPL 300x100</td>
<td>Pump EVE</td>
<td>–</td>
<td>90</td>
<td>55</td>
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</table>

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 of Vacuum Work Stand

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<td>-</td>
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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.
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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

Vacuum reversing table VWT 180° for turning workpieces

Complete handling system with vacuum tube lifter Jumbo and crane

<table>
<thead>
<tr>
<th>Type</th>
<th>Length [mm]</th>
<th>Width [mm]</th>
<th>Height [mm]</th>
<th>Suction plates</th>
<th>Max. lift capacity [kg]</th>
<th>Weight [kg]</th>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>VWT-150-180-SPU-210-TR-16</td>
<td>2,670</td>
<td>1,650</td>
<td>1,510</td>
<td>4</td>
<td>150</td>
<td>500</td>
<td>13.02.01.10372</td>
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</tbody>
</table>

Handling Systems
Loading CNC Machining Centers Ergonomically

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

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

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

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<tr>
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</thead>
<tbody>
<tr>
<td>Suction plate VC-M-SP 160x160</td>
<td>850</td>
<td>48</td>
<td>2.3</td>
<td>0.7</td>
<td>10.01.12.01836</td>
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<tr>
<td>Suction plate VC-M-SPV 160x160</td>
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<td>–</td>
<td>–</td>
<td>0.7</td>
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</tr>
</tbody>
</table>

MULTI-CLAMP VC-M WITH INTEGRATED VACUUM GENERATION

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

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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Complete system VC-M</td>
<td>850</td>
<td>48</td>
<td>2.3</td>
<td>4.6</td>
<td>10.01.12.01845</td>
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</tbody>
</table>

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

- 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

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<td>Complete system VC-M-V</td>
<td>–</td>
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<td>–</td>
<td>4.7</td>
<td>10.01.12.01852</td>
</tr>
</tbody>
</table>
At your side worldwide

Schmalz Germany – Glatten

Schmalz Benelux – Hengelo (NL)
Schmalz Canada – Mississauga
Schmalz China – Shanghai
Schmalz Finland – Vantaa
Schmalz France – Champs-sur-Marne
Schmalz India – Pune
Schmalz Italy – Novara
Schmalz Japan – Yokohama

Schmalz Mexico – Querétaro
Schmalz Poland – Suchy Las (Poznan)
Schmalz Russia – Moscow
Schmalz South Korea – Anyang
Schmalz Spain – Erandio (Vizcaya)
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Sales Partners
You can find the Schmalz sales partner in your country at: WWW.SCHMALZ.COM/SALESNETWORK

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