

***Globe valve grinding machine for conical seats  
VM2050C, VM2100C, VM2150C  
DN10 ... DN150 / DN .4" ... 6"***



***“On Site” grinding of globe valves  
with conical seats***

***Easy to handle***

***Powerful***

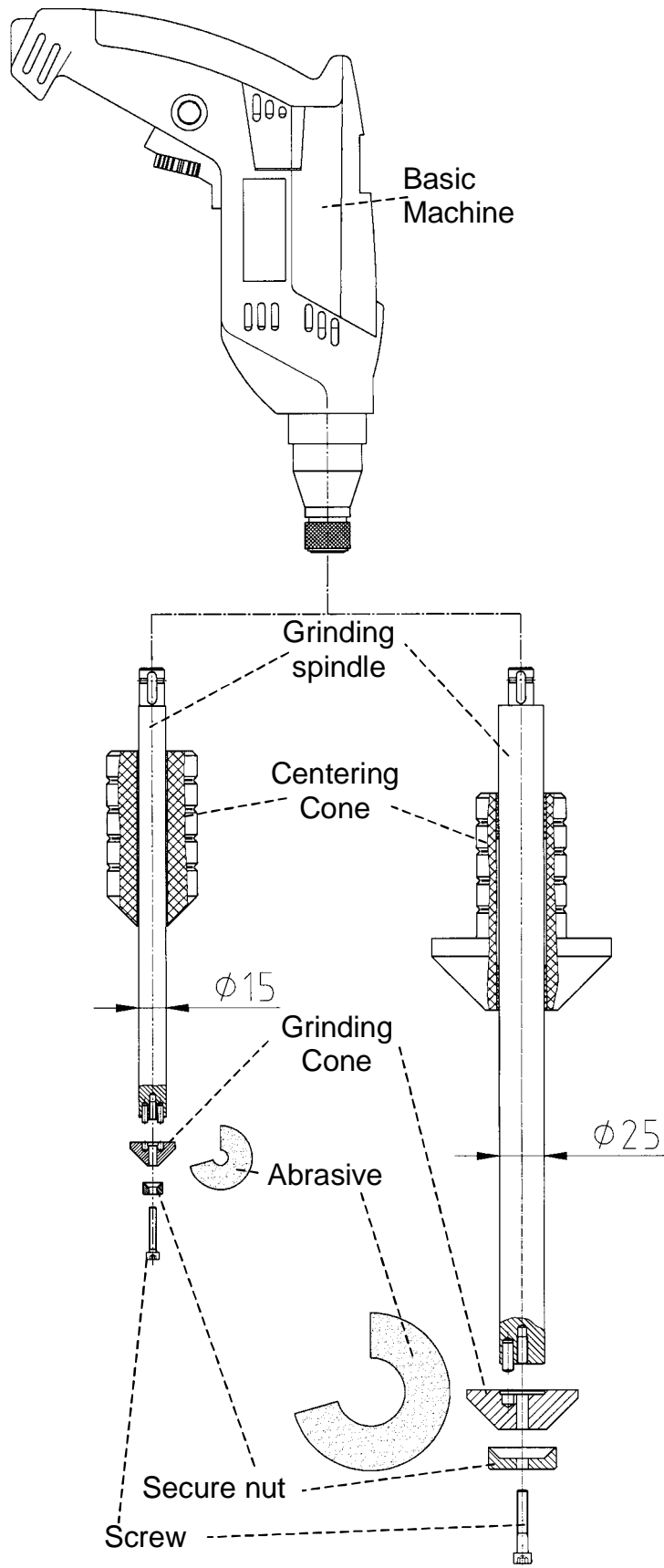
***High performance***



**CLIMAX**<sup>GmbH</sup>  
Portable Machine Tools

CLIMAX GmbH  
Willi-Bleicher-Str.11  
52353 Düren / Germany  
Tel.: (+49) 2421 / 9177 – 0  
Fax.: (+49) 2421 / 9177 –29  
Email: [info.de@cpmt.com](mailto:info.de@cpmt.com)  
[www.cpmt.com](http://www.cpmt.com)

**Model VM2050C, VM2100C, VM2150C**



<b>Technical Data</b>			
<b>Working range DN...</b>	min	<b>0.4''</b>	<b>10 mm</b>
	max (VM2050C)	<b>2''</b>	<b>50 mm</b>
	max (VM2100C)	<b>4''</b>	<b>100 mm</b>
	max (VM2150C)	<b>6''</b>	<b>150 mm</b>
<b>Submerging depth</b>	(VM2050C, VM2100C)	<b>10''</b>	<b>250 mm</b>
	(VM2150C)	<b>18''</b>	<b>450 mm</b>
<b>Power</b>	electric		<b>0,65 kW</b>
	pneumatic		<b>0,40 kW</b>
<b>Variable Spindle Speed</b>	electric (nominal load)		<b>100 ... 450 1/min</b>
	pneumatic		<b>100 ... 650 1/min</b>
<b>Spindle Torque</b>	permanent		<b>7,2 Nm</b>
	max		<b>40 Nm</b>


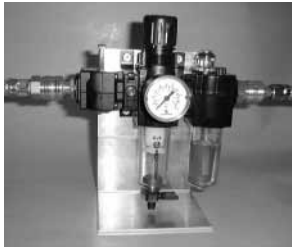
<b>Weight</b>	
<b>Basicmachine without tool</b>	<b>5 kg</b>
<b>VM2050C (for two different seat angles)</b>	
<b>Machine case</b>	<b>26 kg</b>
<b>VM2100C (for two different seat angles)</b>	
<b>Machine case</b>	<b>15 kg</b>
<b>Accessory case</b>	<b>26 kg</b>
<b>VM2150C (for two different seat angles)</b>	
<b>Machine case</b>	<b>15 kg</b>
<b>Accessory case</b>	<b>32 kg</b>

## Model VM2050C and VM2100C







P/N	Description	
	<p><b>Globe Valve Grinder VM2050C basic package</b>                      The basic package includes all accessories except the grinding cones and abrasives. These items have to be purchased separately depending on the seat angles.                      Nominal working dia 10 mm to 50 mm (0.4" to 2")                      Submerging depth 250 mm (10").                      Scope of supply:</p> <ul style="list-style-type: none"> <li>• Machine with quick change coupling to accept the grinding spindle.</li> <li>• Grinding spindle dia 15 mm for grinding up to DN15. Submerging depth 150 mm (6")</li> <li>• Grinding spindle dia 25 mm up to DN50. Submerging depth 250 mm (10").</li> <li>• Centering cone for grinding spindle dia 15 mm.</li> <li>• Centering cone for grinding spindle dia 25 mm.</li> <li>• 1 set of tooling.</li> <li>• Carrying cases with foam inlet for the machine and the accessories.</li> </ul>	
<b>320-00S-L02</b>	<b>VM2050C with electric motor 230 V / 50 Hz</b>	
<b>320-00S-L03</b>	<b>VM2050C with pneumatic motor</b>	
<b>320-00S-L05</b>	<b>VM2050C with electric motor 115 V / 60 Hz</b>	
	<p><b>Globe Valve Grinder VM2100C basic package</b>                      The basic package includes all accessories except the grinding cones and abrasives. These items have to be purchased separately depending on the seat angles.                      Nominal working dia 10 mm to 100 mm (0.4" to 4")                      Submerging depth 250 mm (10").                      Scope of supply:</p> <ul style="list-style-type: none"> <li>• Machine with quick change coupling to accept the grinding spindle.</li> <li>• Grinding spindle dia 15 mm for grinding up to DN15. Submerging depth 150 mm (6")</li> <li>• Grinding spindle dia 25 mm up to DN100. Submerging depth 250 mm (10").</li> <li>• Centering cone for grinding spindle dia 15 mm.</li> <li>• 2 pcs centering cones for grinding spindle dia 25 mm.</li> <li>• 1 set of tooling.</li> <li>• Carrying cases with foam inlet for the machine and the accessories.</li> </ul>	
<b>320-00S-L12</b>	<b>VM2100C with electric motor 230 V / 50 Hz</b>	
<b>320-00S-L13</b>	<b>VM2100C with pneumatic motor</b>	
<b>320-00S-L15</b>	<b>VM2100C with electric motor 115 V / 60 Hz</b>	



## Model VM2150C

P/N	Description	
	<p><b>Globe Valve Grinder VM2150C basic package</b></p> <p>The basic package includes all accessories except the grinding cones and abrasives. These items have to be purchased separately depending on the seat angles.</p> <p>Nominal working dia 10 mm to 150 mm (0.4 " to 6")</p> <p>Submerging depth 450 mm (18").</p> <p>Scope of supply:</p> <ul style="list-style-type: none"> <li>• Machine with quick change coupling to accept the grinding spindle.</li> <li>• Grinding spindle dia 15 mm for grinding up to DN15. Submerging depth 150 mm (6")</li> <li>• Grinding spindle dia 25 mm up to DN150. Submerging depth 250 mm (10").</li> <li>• Grinding spindle dia 25 mm up to DN150. Submerging depth 450 mm (18").</li> <li>• Centering cone for grinding spindle dia 15 mm.</li> <li>• 2 pcs centering cones for grinding spindle dia 25 mm.</li> <li>• 1 set of tooling.</li> <li>• Carrying cases with foam inlet for the machine and the accessories.</li> </ul>	
<b>320-00S-L22</b>	<b>VM2150C with electric motor 230 V / 50 Hz</b>	
<b>320-00S-L23</b>	<b>VM2150C with pneumatic motor</b>	
<b>320-00S-L25</b>	<b>VM2150C with electric motor 115 V / 60 Hz</b>	
		
	<p><b>240-13K-001 Maintenance unit for pneumatic motor</b></p> <p>Required for machines with pneumatic motor. The maintenance unit is <b>not</b> included in the standard scope of supply with pneumatic driven machines.</p> <p>Includes:</p> <ul style="list-style-type: none"> <li>• filter</li> <li>• oiler</li> <li>• pressure gauge</li> <li>• speed controller</li> </ul>	

## Tooling and accessories

	P/N	Description	
		<b>Grinding cones DN10 ... DN50 ( 0.4" ... 2" )</b> <ul style="list-style-type: none"> <li>• 7 pcs grinding cones</li> <li>• required number of securing nuts</li> <li>• 100 pcs abrasives Grain 120 and Grain 500 each for every dimension (total 1400 pcs)</li> </ul>	
	<b>320-61S-L21</b>	Seat angle 15° (total 30°)	
	<b>320-63S-L21</b>	Seat angle 30° (total 60°)	
	<b>320-64S-L21</b>	Seat angle 37.5° (total 75°)	
	<b>320-65S-L21</b>	Seat angle 45° (total 90°)	
		<b>Grinding cones DN65 ... DN100 ( 2.5" ... 4" )</b> <ul style="list-style-type: none"> <li>• 1 grinding cones with securing nut for DN65</li> <li>• 2 segment grinding cones for DN80 and DN100</li> <li>• 100 pcs abrasives Grain 120 and Grain 500 each for DN65</li> <li>• 100 pcs rectangular abrasive pads Grain 120 and Grain 500 each for DN80 and DN100</li> </ul>	
	<b>320-61S-L22</b>	Seat angle 15° (total 30°)	
	<b>320-63S-L22</b>	Seat angle 30° (total 60°)	
	<b>320-64S-L22</b>	Seat angle 37.5° (total 75°)	
	<b>320-65S-L22</b>	Seat angle 45° (total 90°)	
		<b>Grinding cones DN125 ... DN150 ( 5" ... 6" )</b> <ul style="list-style-type: none"> <li>• 2 segment grinding cones for DN125 and DN150</li> <li>• 100 pcs rectangular abrasive pads Grain 125 and Grain 500 each for DN80 and DN150</li> </ul>	
	<b>320-61S-L23</b>	Seat angle 15° (total 30°)	
	<b>320-63S-L23</b>	Seat angle 30° (total 60°)	
	<b>320-64S-L23</b>	Seat angle 37.5° (total 75°)	
	<b>320-65S-L23</b>	Seat angle 45° (total 90°)	
	<b>320-23S-N01</b>	<b>Grinding Spindle for submerging depth 450 mm (18")</b> To extend the submerging depth of VM2050C or VM2100C to 450 mm (18")	
	<b>320-32S-L02</b>	<b>Centering cone to od 200 mm (8")</b> To extend the centering dia of VM2050C or VM2100C to 200 mm (8")	
	<b>320-33S-N01</b>	<b>3-jaw centering chuck</b> <ul style="list-style-type: none"> <li>• centering dia 80 mm to 430 mm (3.2" ... 16.9")</li> <li>• includes the complete chuck and a guiding bushing to accept the grinding spindle dia 25 mm</li> <li>• comes in a case with foam inlet</li> </ul>	

Because CLIMAX is committed to product improvement, the machine you receive may be slightly different to the pictures above.