









# Overview of Section 3



## Special grippers

Everything at a glance

Designation	Basic data	Application areas	Page
 General information			3/3
<b>Floating suction pads</b>			
 Floating suction pads SBS	<ul style="list-style-type: none"> <li>• Diameter: 20 to 60 mm</li> <li>• Holding force: 1.5 to 7.5 N</li> </ul>	Floating suction pad for low-contact handling of paper, film, wood veneer, printed circuit boards, wafers, etc.	3/5
<b>Magnetic grippers</b>			
 Magnetic grippers SGM	<ul style="list-style-type: none"> <li>• Diameter: 30 to 70 mm</li> <li>• Holding force: 35 to 290 N</li> </ul>	Magnetic gripper for the handling of steel sheets with holes and apertures.	3/8
<b>Needle grippers</b>			
 Needle grippers SNG-M	<ul style="list-style-type: none"> <li>• Needle diameter 0.8 mm</li> <li>• Number of needles: 4</li> <li>• Needle stroke: 3.0 mm</li> </ul>	Needle gripper for materials which are difficult to handle with vacuum, such as textiles, foam materials, etc., particularly compact version.	3/13
 Needle grippers SNG-YV	<ul style="list-style-type: none"> <li>• Needle diameter: 0.8 / 1.2 / 2.0 mm</li> <li>• Number of needles: 12</li> <li>• Needle stroke: 0 to 3.5 mm (variable)</li> </ul>	Needle gripper for materials which are difficult to grip with vacuum, such as textiles, felt, etc.	3/16
 Needle grippers SNG-D / DV	<ul style="list-style-type: none"> <li>• Needle diameter: 0.8 / 1.2 / 2.0 mm</li> <li>• Number of needles: 24</li> <li>• Needle stroke (D): 7.0 mm</li> <li>• Needle stroke (DV): 0 to 7.0 mm (variable)</li> </ul>	Needle gripper for materials which are difficult to handle with vacuum, such as textiles, insulating mats, etc.	3/19
 Needle grippers SNG-DL	<ul style="list-style-type: none"> <li>• Needle diameter: 1.2 / 2.0 mm</li> <li>• Number of needles: 24</li> <li>• Needle stroke: 17,5 mm</li> </ul>	Needle gripper for materials which are difficult to grip with vacuum, such as textiles, carpets, etc., particularly large version.	3/22
 Needle grippers SNG-R / RV	<ul style="list-style-type: none"> <li>• Needle diameter: 1.2 mm</li> <li>• Number of needles: 16</li> <li>• Needle stroke (R): 4.5 mm</li> <li>• Needle stroke (RV): 0 to 4.5 mm (variable)</li> </ul>	Needle gripper for materials which are difficult to grip with vacuum, such as textiles, metal foam, etc., round version.	3/25