

# VarioShaker 540.

## Component separator for pick and place and flexible feeding.



Misprints and technical changes reserved. Status: 08/2022



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endless possibilities

The VarioShaker 540 is a flexible component separator that is primarily used in the areas of pick and place and flexible feeding. Compared to conventional systems, the VarioShaker 540 is easy to set up and configure as well as robust and uncomplicated in operation. Components with different geometries can be separated through specific movements. In addition to a web-based configuration for intuitive operation, the VarioShaker 540 has an I/O interface and can therefore be adapted to almost any robot.

We are available for you by mail and during our opening hours by phone.

Monday - Friday 8:30 am – 4:30 pm



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## Technical specifications.

<b>Usable area</b>	Approx. 475 × 290 mm																									
<b>Material vibrating bowl</b>	PE white																									
<b>Vibrating bowl (transmitted light)</b>	Plain																									
<b>Recommended component size</b>	20 to approx. 100 mm (further part sizes possible after testing)																									
<b>Optional vibrating surfaces</b>	On request																									
<b>Dimensions</b>	Approx. 658 × 422 × 165 mm (L x W x H)																									
<b>Temperature range</b>	5°C - 40°C																									
<b>Weight</b>	27.5 kg																									
<b>Software</b>	WebGUI via standard web browser																									
<b>Power supply actuators</b>	+96 V / 4 A	Both power supplies are required for operation (combine mass from 24 V and 96 V) The fuse is located in the housing of the control box																								
<b>Power supply control</b>	+24 V / 4 A																									
<b>Ground connection</b>	0 V																									
<b>Protective conductor terminal</b>	PE																									
<b>Inputs 24 V DC max. 2.4 mA</b>	I_EN	Enable / Start																								
	I_Bit1	Binary coded sequence selection - examples: <table border="1" style="margin-left: 20px;"> <thead> <tr> <th></th> <th>Bit 1</th> <th>Bit 2</th> <th>Bit 3</th> <th>Bit 4</th> <th>Bit 5</th> </tr> </thead> <tbody> <tr> <td>Sequence 1:</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>Sequence 2:</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>Sequence 3:</td> <td>1</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> </tr> </tbody> </table>		Bit 1	Bit 2	Bit 3	Bit 4	Bit 5	Sequence 1:	1	0	0	0	0	Sequence 2:	0	1	0	0	0	Sequence 3:	1	1	0	0	0
			Bit 1	Bit 2	Bit 3	Bit 4	Bit 5																			
	Sequence 1:		1	0	0	0	0																			
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	Sequence 3:		1	1	0	0	0																			
	I_Bit2																									
I_Bit3																										
I_Bit4																										
I_Bit5																										
I_LED	Control input for transmitted light																									
<b>Outputs 24 V DC max. 100 mA</b>	O_Rdy	Condition: ready																								
	O_Bsy	Condition: busy																								
	O_Res	Unassigned (reserved)																								
	O_Bnk	Hopper on																								
<b>Output 24 V DC max. 500 mA</b>	O_Top	Incident light (additional lighting, optional)																								
<b>Further connections</b>	M12 cable (8-pin) 5 m M8 cable (4-pin) 5 m	Control line between VarioShaker and control box																								
	Ethernet (TCP/IP)																									
	USB	USB port for software maintenance																								
<b>Scope of delivery</b>	Part separator VarioShaker 540 Control box with integrated configuration software (WebGUI per web browser) Shakingplate plain (in the standard scope of delivery) Connection cable: M12 8-pole (5 m) and M8 4-pole (5 m)																									

