

# Vacuum Option for the Multilayer Press RMP 210 / 3545

Translation of the original instructions



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## General

The vacuum option for the RMP 210 multilayer presses is an addition to the multilayer process, which optimizes the resin flow and prevents the formation of enclosed air chambers.

The vacuum is created before the pressing process and the vacuum unit is separated from the press plates during the pressing process. The seal in the press plates maintains the vacuum during the pressing process.

After the pressing process, the vacuum is vented.

## Technical Data

	<b>RMP210</b>	<b>RMP 3545</b>
<b>Board size:</b>	net approx. 210 x 300 mm	300x400mm
<b>Vacuum:</b>	Approx. -0.4 bar	
<b>Temperature:</b>	250 °C	
<b>Dimension press plates:</b>	250x350mm	350x450mm
<b>Weight:</b>	Approx. 8 kg press plates, approx. 2 kg vacuum unit	
<b>Electrical connection:</b>	110-230 V 50/60 Hz 20 W	

Technical changes possible and reserved at any times.

## EG-Declaration of conformity



### EG-Konformitätserklärung/Declaration of Conformity

Hersteller / Supplier:	Bungard Elektronik GmbH & Co. KG Rilkestraße 1 51570 Windeck Germany
Bevollmächtigte Person für die Zusammenstellung der technischen Unterlagen: Person in charge	Jürgen Bungard, Geschäftsführer /general director Rilkestraße 1 51570 Windeck Germany
Produkt:	Vacuum option for Multilayer press RMP 210

Hiermit erklären wir, dass die oben beschriebenen Maschinen allen einschlägigen Bestimmungen der Maschinenrichtlinie 2006/42/EG entspricht.

Die oben genannte Maschine erfüllt die Anforderungen der nachfolgend genannten Richtlinien und Normen:

We hereby declare that the machines described above complies with all relevant provisions of the Machinery Directive 2006/42/EC.

The above machine meets the requirements of the following guidelines and standards:

- **Maschinenrichtlinie 2006/42/EG / Machinery Directive 2006/42/EC**
- **EMV-Richtlinie 2014/30/EG / EMC Directive 2014/10830EC**
- **Niederspannungsrichtlinie 2014/35/EG / Low Voltage Directive 2014/35/EC**
- **DIN EN 60204-1** Sicherheit von Maschinen - Elektrische Ausrüstung von Maschinen - Teil 1: Allgemeine Anforderungen / Safety of machinery - Electrical equipment of machines - Part 1: General requirements
- **DIN EN ISO 14121-1** Sicherheit von Maschinen - Risikobeurteilung - Teil 1: Leitsätze / Safety of machinery - Risk assessment - Part 1: Principles
- **DIN EN ISO 12100-1** Sicherheit von Maschinen - Allgemeine Gestaltungsleitsätze, Risikobeurteilung und Risikominderung / Safety of machinery - Basic concepts, risk assessment and risk reduction
- **DIN EN 55014-1 2012-05** Elektromagnetische Verträglichkeit, Anforderungen an Haushaltsgeräte, Elektrowerkzeuge und ähnliche Elektrogeräte, Teil 1: Störaussendung / Electromagnetic compatibility Requirements for household appliances, electric tools and similar electrical appliances Part 1: Emission
- **DIN EN 55014-2-2009-06** Elektromagnetische Verträglichkeit - Anforderungen an Haushaltgeräte, Elektrowerkzeuge und ähnliche Geräte - Teil 2: Störfestigkeit - / Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity
- **Niederspannungsrichtlinie / Low Voltage Directive 2014/35/EG**
- **Maschinenrichtlinie / Machinery Directive 2006/42/EG/37/EG**

Windeck, 10.1.2024

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Jürgen Bungard Geschäftsführer

## Intended Use

The vacuum unit for multilayer presses RMP 210 is used to create a vacuum before the pressing process.

All other applications require our written consent or at the user's own risk.

## Safety Regulations

### General

Please read the following text carefully and pay particular attention to the information on occupational safety and commissioning.

Please keep this folder carefully. It contains information that is also important for later maintenance or cleaning work.

The machines are not intended for integration or interconnection with other machines or systems. They may only be operated in rooms equipped for this purpose and may only be operated by qualified specialist personnel. Keep children and pets away!

Please pay heed to the safety instructions for the RMP210, these also apply to the vacuum unit accessory.

### Electrics

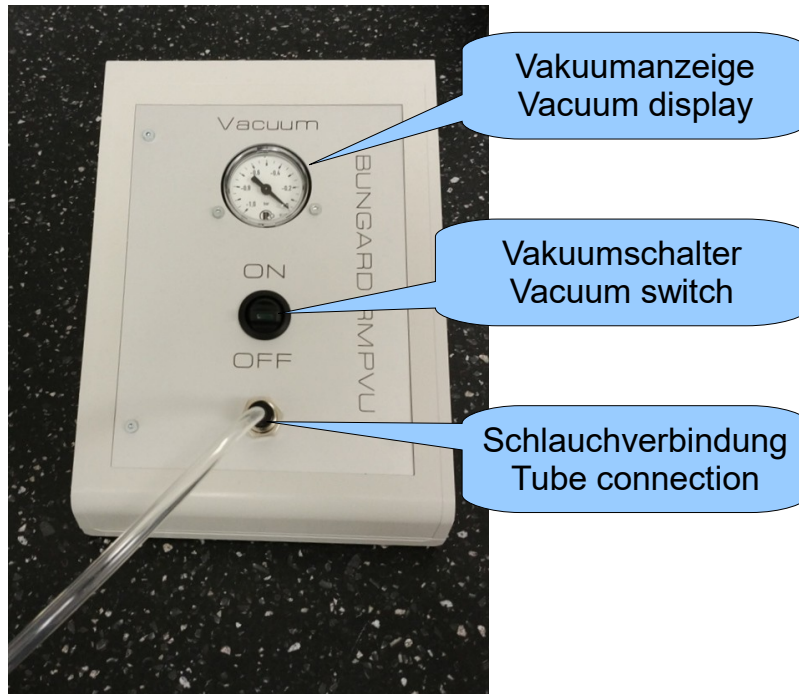
The machine is manufactured using tested parts according to the usual guidelines for electrical safety. However, this does not release the user from his duty of care when handling electrically operated devices.

Before starting any work on the machine (cleaning etc.), switch off the machine and pull out the mains plug.

### Personal protective equipment

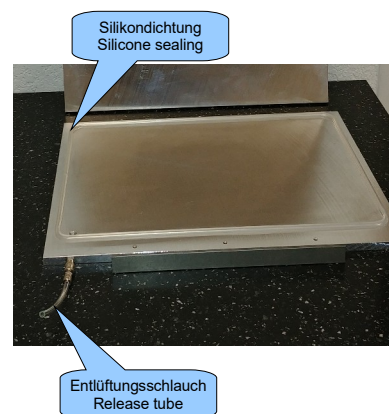
Protective gloves must be worn when handling hot objects. The manufacturer's or supplier's safety instructions must be observed.

## Composition



Vacuum connecting hose plugged in quick coupling /only for vacuum load !

Vacuum release



## Work process

- Prepare your press stack such as described in the instructions of the RMP
- Place the press stack on the lower vacuum press plate
- Cover the stack with the top press plate. Make sure that you do not move the stack. Possibly, you should rivet the press stack (see RMP instructions)
- If not already done, connect the vacuum unit and press stack
- Switch on the pump and wait until the vacuum of approx. -0.4 bar is reached
- **Pull off the connecting hose on the quick coupling of the press plate.** You can check the vacuum by lifting the stack on the top press plate. Attention ! Do not carry the stack into the machine on the upper press plate. If the vacuum is released, there is a considerable risk of injury!
- Place the press stack in the RMP and start the press cycle
- The vacuum prevents air pockets in the multilayer and optimizes the resin flow
- After the pressing cycle has ended, let the stack cool down and then remove the stack (wear gloves if necessary)
- Insert the short ventilation hose into the quick coupling. The vacuum escapes and you can remove the upper press plate

## Cleaning and maintenance

The machine itself is maintenance free. When pressing, make sure that any escaping resin is caught by the Teflon films. Press plates can be cleaned with brushing machines and special solvents. The 10 mm press plates cannot be cleaned by the brushing machine. Therefore protect the plates with separation foil and press sheets.

## Spare part list

6000		Pressplatte oben	Press plate top	
6000		Pressplatte unten mit Dichtung	Press plate bottom with sealing	
6000		Vakuumeinheit	Vacuum unit	

## Guarantee

All machines perform a functional and continuous operation test before delivery. On the machine, we grant our customers a bring-in-warranty of 12 months from the date of purchase with regard to accuracy in material and workmanship. We provide a warranty of our choice by replacing defective parts or by repairing the machine in our house. Old parts become our property.

## Disclaimer of Warranty

Bungard GmbH & Co. KG reserves the right to make any changes or improvements to any machine or machine specification it deems necessary at its sole discretion, and assumes no obligation to implement such changes in previously sold machines.

Bungard products and services are subject to the then prevailing prices and terms. These prices and conditions are subject to change.

The information in this document is subject to change and does not constitute any representation on the part of Bungard.

This manual contains information for the vacuum unit of the RMP210 and is the translation of the original instructions.

Conditions of sale and delivery: These are available to the buyer at the latest when the contract is fulfilled. We do not warrant or accept any liability for damage to material or personal injury caused by any of the following:

Improper use of the machine

Incorrect setup, commissioning and operation of the machine or inadequate service

Use of the machine with damaged safety devices

Non-compliance with the manual regarding transport, storage, assembly, installation and service of the machine

Unauthorized changes to the machine

Improper or incomplete repairs

Destructive forces on the machine due to foreign bodies or strong external use of force

Use of non-original spare parts

Wear parts are excluded from warranty.

We can not accept any replacement or follow-up claims arising from damage or destruction of workpieces machined in the machine, since the parameters influencing the operation of the machine are largely beyond our control.

This applies mutatis mutandis to claims arising from damage to objects, buildings and people and the environment.

All information has been compiled with care. We reserve the right, however to errors and technical changes, even without notice,

Operation in an aggressive, dusty, damp, extremely hot or potentially explosive environment is at the user's own risk and responsibility.

The user must take care of appropriate precautions and protective equipment. Any liability for damage caused by operation in such an environment is hereby expressly excluded.

## Copyright

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