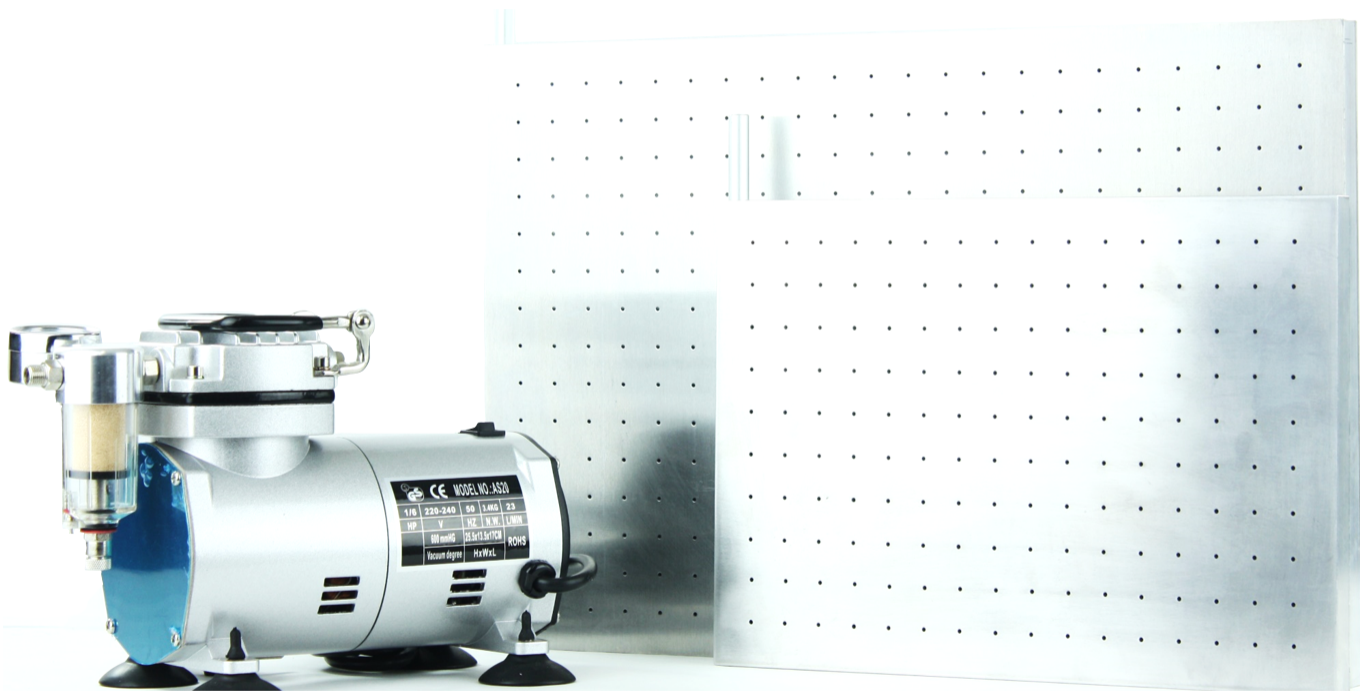


Vacuum Technology

...doming without adhesive sprays



Application Information

1. Vacuum Technology for the SurADoming Workstations

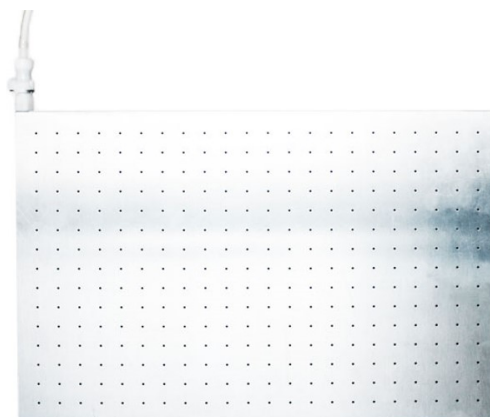
The processing of the SurACer[®] 4460 doming resin can be significantly simplified by using the different sized vacuum plates. Both during dispensing and curing of the resin, the foils to be coated remain tightly fixed on the vacuum plates, in absence of adhesive sprays or other complicated fixing techniques.

The vacuum shelves provide a safe and easy handling of the vacuum plates, as they easily slide inside and outside the vacuum shelves. This results in an optimum temporary space-saving storage of up to five vacuum plates at the same time, as also a perfect protection against dust and damages.

The vacuum pumps generate the necessary vacuum to fix the foils to be coated on the vacuum plate, thereby ensuring a firm surface during the entire workflow of doming process.

2. Vacuum Plates

The foils to be coated are fixed on vacuum plates by means of generated vacuum, securing a firm and level surface throughout the entire workflow. After the dispensing of the doming resin on the foils to be coated, the vacuum plates can be directly placed in the light-curing boxes. The vacuum plates replace, in this way fixing techniques, such as adhesive sprays, which lead to contamination of the back of the sheets. As a result, the foils can be tack-free packaged and shipped. If necessary, the foils can be temporary stored under vacuum in the special vacuum shelves.



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Application Information

Vacuum Plates			
Type:	VP 3122	VP 4530	VP 5050
Material:	Aluminum	Aluminum	Aluminum
Weight:	0.54 kg	1.5 kg	2.3 kg
External dimensions:	310 mm x 220 mm	450 mm x 300 mm	500 mm x 500 mm
Utilized surface:	300 mm x 210 mm	440 mm x 290 mm	490 mm x 490 mm
Height:	17 mm	17 mm	17 mm
Hole-size:	2 mm	2 mm	2 mm
Number of holes:	150 Holes	330 Holes	676 Holes
Drill-hole distances:	18 mm	18 mm	18 mm
Vacuum connection:	Pipe 10 mm x 8 mm	Plug connection - hose x 8 mm	Pipe 10 mm x 8 mm
Vacuum shelf:	Possible	Possible	Possible
Vacuum pump:	Vacuum pump 1-23	Vacuum pump 1-40	Vacuum pump 1-40
For light-curing box:	SurALux 8204-LC	SurALux 8202-V	SurALux 8202-V



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Application Information

3. Vacuum Shelves

The special **vacuum shelves** provide a safe and easy handling of the vacuum plates, as they easily slide inside and outside the vacuum shelves. This results in an optimum temporary space-saving storage of up to five vacuum plates at the same time, as also a perfect protection against dust and damages.

Advantages of the shelf:

- Safe and easy handling of the vacuum plates, with easy inside- and outside slide in the shelves
- Space-saving with the temporary storage of the vacuum plates in the shelves
- Perfect protection against dirt and damage



3.1 Connection Possibilities

- 1-distributor with 5 hose-connections
- 2- distributors with 5 ball-valves
- 3-distributor mit 5 push-button quick-couplers for hoses

3.2 Technical Data

Vacuum shelves	
Material:	Aluminium
Dimension:	L / D / H: 540 / 320 / 210
Weight:	5.6 kg
Feet:	4 adjustable feet

Special shelves with vacuum-plate dimensions up to 1000x500 mm can be also manufactured.



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Application Information

4. Vacuum Pumps

The processing of the SurACer® 4460 doming resin can be significantly simplified by the usage of the special vacuum plates. While dispensing and curing of the doming resin, the foil used can be fixed on the vacuum-plate with the help of the VP 1-23 and 1-40 vacuum-pumps. In that way, fixing techniques, such as adhesive sprays or similar, are not needed.

The vacuum-plates take up the foils to be coated and secure their fixation and ensure a firm surface during the entire workflow of the doming process.

The VP 1-23 and VP 1-40 vacuum-pumps are very strong and compact devices. The vacuum-pumps are oil-free and, therefore completely maintenance-free. The already low vibrations produced are reduced to an absolute minimum using rubber feet. Included is a straight screw-connector G 1/8 " inside (hose outer diameter 8 mm).

Vacuum Pump VP 1-23	
Suction capacity:	23 l/min
Dimensions:	24,5 x 13,5 x 17 cm
Weight:	4 kg
Max. Vacuum:	0,867 bar
Noise level:	Extreme low DB(A) 35dB
Motor power:	0.2 PS / 148 W
Voltage:	220-240 V/ 50Hz
Connection:	1/8 "

Vacuum Pump VP 1-40	
Suction capacity:	40 l/min
Dimensions:	35 x 25 x 15 cm
Weight:	6 kg
Max. Vacuum:	0.867 bar
Noise level:	superleise DB(A) 47dB
Motor power:	0.25 PS / 184 W
Voltage:	220-240 V/ 50Hz
Connection:	1/4 "



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